

eMG80/100&eMG800& UCP& vUCP

Administration & Programming Manual

iPECS is an Ericsson-LG Brand





Revision History

1.1 D	Sep., 2013 Dec., 2013 Feb., 2015	Initial Release Changed Ericsson-LG to Ericsson-LG Enterprise Update contents according to S/W integration for both eMG80 & eMG800 S/W version 1.2.x On-line user guide
 		Update contents according to S/W integration for both eMG80 & eMG800 S/W version 1.2.x.
1.2 Fe	Feb., 2015	S/W version 1.2.x.
1.3 M	May, 2015	 Terminal attributes (Small popup use, large popup timer, SLT open loop time) Web Access Authorization NTP attributes Digit Conversion Table System attributes U-LOOP, PBX code insertion for emergency call Disconnect with Inband information Temp License expiration notify Trace Log via Web Add System Date and Time to Installation wizard
1.4 Ja	Jan., 2016	S/W version 2.0.x. Added Speed code number plan in PGM100. IPCR announce only for incoming call. Updated Strong password in PGM 160/161. Updated 'Do not overwrite station name in PGM 211. Added Attendant ring mode in PGM 257. Added the more item for Alarm in PGM 163. Added Flexible button default table (PGM 239) Added Preset flexible button default (PGM 240) Added System DST mode in PGM 439. Added LDAP server setting in PGM 160/161. Added Arabic language. Updated Message wait indication LED in PGM 112. Updated Company directory in Station Name Display. Added Station User Greeting in Station Data. Added the search box in Maintenance. Added MOH Management in Maintenance. Updated DB management by adding Comment field. Updated Install wizard DTMF repeat tone does not have nothing to do with PSTN in PGM160-15 Added Call wait signal and duration in PGM 113. Added some admin (Alternate/Secondary signal port, Local route ID, Remote route ID, Sending Name option) in PGM 324. Added SLT Pulse and SLT pulse-MW type in PGM 110. Added Short Modem in PGM 112. Added NFC Authorization Code use in PGM 112.

		Added Chart Modern Timer in DOM 400, 400, 400
		- Added Short Modern Timer in PGM 182~182, 186
		- Added Alarm mode to send email to the address in PGM 163.
		- Added the special character to DB management.
		- Added Ring detection register setting in Analog parameter.
		- Added LCD Dimming for LIP-9000 Series & LDP-9240D in PGM 112.
		- 'Go to assignment' function added to Personal group overview and can check
		the master & member list at a glance.
		- Added Station ICR scenario (1201) to Station Data.
		- Changed the name from UCS Standard to UCS data.
		- Added MOH management in Maintenance.
		- Added Keyset admin password to Install Wizard.
1 5	Apr 2016	S/W version 2.0.x.
1.5	Apr, 2016	- 'Unified SMB A&P manual' by integrating eMG and UCP.
		S/W version 2.1.x.
		- The type of Speed numbering is added more in PGM 100.
		- 'DDNS usage of Firewall'&'Domain name of Firewall' is added in PGM 102.
		- The LCD LED is changed to the option 'MWI/Ring' or 'Ring'.
		- The ACD & CRM function is added for UCS Client: CRM function and ACD
		login/out & ACD On/Off duty in PGM 112.
		- UCS Dialing Rule Use for Standard UCS in PGM 112.
		- UCS Mobile Dial Use (Android) for Standard UCS in PGM 112.
		- The description of CLI Name Display is changed, refer to PGM 113.
		- Display full CLI function is added in PGM 113.
		- SMTP Server Address fills out up to 64 characters in PGM 127.
		- Proxy Server Address fills out up to 64 characters in PGM 133.
		- The range for ICLID Usage is changed to Disable, CLI, Name/CLI in PGM 140.
		- Web hacking block is added in PGM 160; Web admin login failure count to block,
		Web admin hacking block period, Wed admin hacking Email notification.
		- UCS Ring ACK count is added in PGM 160 and UCS Ring ACK timer is added in
1.6	Aug, 2016	PGM 180.
		- SLT Line monitor and SLT Line Monitor time is added in PGM 160.
		- Dial Back to Caller from Remote VM Access is added in PGM 160.
		- Alarm Display is added in PGM 163.
		- The range about Alarm is changed to Off, On, Alarm only, Alarm/Email.
		Especially, the default of Maintenance Expire Notify is Email only.
		- Message wait (Call back) for LED flash is added in PGM 170.
		- Outgoing Call type is added for All call or Answered call in PGM 177.
		- Call log/Directory Auto Idle Timer is added in PGM 180.
		- The range of Hot Desk for eMG and UCP is changed in PGM 250: eMG80 (100),
		eMG800 (300), UCP (1200).
		- Advice of Charge is added in PGM 133.
		- SIP Profile is added in PGM 211.
		- Signaling port, TLS Version, First & Second TLS crypto, SRTP usage, First &
		Second SRTP crypto are added in PGM 212.
		- Interworking system is added in PGM 322.
		- Name option is deleted in PGM 327.

		- Alarm display is added in PGM 335.
		- Firewall IP is added in PGM 441.
		- MS Excel-like table data management is to be extended.
		- User Greeting is added to Maintenance.
		- Company Directory is added to Maintenance.
		- Web Certificate is added to Maintenance.
		- Custom 1 and Custom 2 are added in Web Access Authorization and User
		management.
		- Line Echo added to SLT attributes in PGM 112.
		- DSS in use added to LED Flashing Rates in PGM 170.
		S/W version 2.2.x.
		The search box is enhanced by adding Attribute search and highlighting the result.
		- The virtual registration is available up to 25 devices at one time and can
		copy/paste/drag like excel. - 'DSS LED service' for indicating the other station status is added in PGM 111.
		- 'Collect call block' is added in PGM 111.
		- 'Add 1st CO Group Access Code in Call log' is added in PGM 113.
		- Call Log Attribute is added in PGM 113.
		- 'Dial Digit' is added as the flexible button type in PGM 115/129.
	Nov, 2016	- The checkbox is added in PGM 117, PGM 118, and PGM 119.
		- The call forward type in PGM 120 is updated; changed Unconditional to Internal
		Unconditional and added External Unconditional.
1.7		- Station ICR Scenario (PGM 1201) is updated about Call Profile Usage, Call
		Profile Timer, and Call Profile Apply Option.
		- Station CLI Program is added to Station Data.
		- CID/CPN Attributes (PGM 151) added.
		- Alarm Receiver E-Mail Address (To) & Notification E-Mail Address (To) is
		updated in PGM 160~161.
		- Resource Monitoring is added in PGM 160~161.
		- 'Display Forward Reason' is added in PGM 160~161.
		- 'CCR No Digit Error Timer' is added in PGM 180~182, 186.
		- Net Station as CO Type is added in System Speed Dial.
		- LIP-9050S and LIP-9071S are added to CONF TYPE in PGM 212.
		- 'Changed CLI' is added in PGM 270.
		- 'Register LM Device directly' is added in PGM 331.
		- 'Use Firewall IP' is added in PGM 441.
		S/W version 3.0.x.
		- virtualized UCP
		- Mitel PMS Interface
		- User Base License
1.8	Jan, 2018	- Multi-login support
1.0	,	- Push service for iOS/Android mobile
		- Automatic failover for UCS Premium
		- Automatic failover for LIP-9000 (IPKTS)
		- Multi-zone for WTIM4/8 and WTIM24

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		- User password length control
		- Access Control on PGM / MENU buttons
		- Improve UI of Message
		Automatic alarm call and play pre-recorded announcement
		- Emergency Page option
		- Outbound PRI Name Display
		- EXEC/SEC - add secretary call option
		- SMDR info for incoming call to a group
		- Add an option for video call
		- Add base call cost option
		- Analog CO Call Charge with NPR metering
		- Add an option for built-in VM/VOIP channel (eMG80)
		- RTP/SRTP SSRC filtering
		- PPP over ISDN (eMG80/800)
		- CIQ Alert Announcement in case of being CPU Redundancy
		- Print Destination in CLI Print
		- Add '+' in Outgoing Call in SIP
		- SIP Name Display
		- Improved LDAP Attributes
		S/W version 3.1.x.
		- "Config Encryption"
		- Added "Conference room expansion"
		- Add "USB serial usage"
		- Change the Range of Web Admin Login Failure count to block
		- Change the max characters length of "E-Mail Account Password"
		- Added "UCS PUSH POLLING Use"
1.9	July,2018	- Add "Key Pad Tone" option
		- Removed the "Cascade Apply Type"
		- Added "Clear Missed Call Log"
		- Change the max characters length of "E-Mail Account Password"
		- Changed the range of "Ring Group Indication"
		- Added "T1 Timer"
		- Change to max 64 characters of the email address field
		- Change to max 32 characters of the unique ID field
		S/W version 3.5.x.
		- Added " Phone Lock/Unlock ", "Flexible Page Prefix"
		- Added "Auto Transfer By Button To Last Call" and "DTMF tone for Flexible
2.0		button" at the Tone/Ring Attributes
		- Added "PHONE Lock Status(Force to Set), "PHONE Auto Lock Usage", "PHONE
	Jan,2019	Auto Lock Timer", "PHONE Lock Action for Hot-Desk", "Allow to Stop - Flexible
	,_0.0	Paging"
		- Added " Coverage Call Log ", "Page Call Log", "Busy/DND/VM Log"
		- Added "REST API Service Port", "REST API Session Timeout", "Security (option
		for MSVC XML Port)", "CALL TRACKING Enable", "SLT conference hook switch
		time"
		uno

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		- Added "UCS Server Link Down", "PUSH Server Link Down", "System Act on
		Slave"
		- Added "Flexible Page Feature"
		- Added "Silent Text Message"
		- Added " SMDR REST API Service "
		- Updated "Button Idle Timer"
		- Added "Personal Group Individual Agent"
		- Added "Extend Wrap-Up Usage", "Extended Wrap-Up Count", "RING TONE"
		- Added "PAGE/PTT Receive"
		- Added "Print Destination in CLI Print "
		- Added " TGID Usage "," Local Address Selection", "ALTC Usage",
		"INVITE(Replace) Usage"
		- Added " SIP MULTIHOME Option "
		- Added " CO Access Code " and "ALTC Usage"
		- Added the "suffix code"
		- Updated "Customer Call Routing Table"
		- Added "Redundancy IP address"
		- Added "Security (option for UCS XML Port)"
		- Added "REST API"
		- Added "LCD language download" at the Multi Language File DownloadRefer to
		the "What's New" for more detail
2.1	Nov.,2019	S/W version 3.6.x.
2.1	1407.,2015	- Added eMG100 System
	Dec., 2019	S/W version 4.0.x.
		- Added "Private Mode for External Mobile or External Forwarded" and "Transfer
		for uncomplete call and Silent intercom busy service"and" Hot Desk Emergency
		Call Identity"
		- Added "Default flexible button page and Headset button"
		- Added the "Internal COS, External COS" of Call forward Type
		- Added "IPDECT Message Server Port", "XSI Service Port", "ICM Hold
2.2		Preference"
2.2		- Added "Maintain Text Display"and "Do Not Prompt Paging EXT"
		- Added "Group Ring Back Tone" at the Terminal, ACD, Ring Group Attributes
		- Added "Intercom Busy Service" and "Incoming Trunk Choice" at the
		Miscellaneous Option, "System IPV6 Usage" at the SIP MULTIHOME Option
		- Updated the "Re-routed destination types"
		- Updated the Access and use REST API features
		- Updated "Attendant User Program Codes"
	Feb., 2020	- Added 1000i Series IP phone
		S/W version 4.1.x.
		- Added "DSS LED service on other station" and "Block Transferred Call"
	Sep., 2020	- Changed E-Mail Account Password Range. (Max. 64 characters)
2.3		- Added the "Intercom busy service
		- Added "Timeslot Full"
		- Added "ANNC Play Start Delay"
		- Added "SMDR ICM Ring Info"and "SMDR ICM CPN Info"

		- Added "Web Connection"and "Telnet Connection"
		- Added MOH (after connection) option at the Group Ring Back Tone"of the
		Terminal, ACD, Ring Group Attributes
		- Added the "Digit Conversion table index"
		- Enhanced VSF Range (VSF MOH4~30)
0.4	Mar. 0004	S/W version 5.0.x.
2.4	Mar., 2021	- Refer to the "What's New" for more detail information

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What's New?

This document includes new and modified information for the iPECS eMG80/100& eMG800 & UCP & vUCPAdministration & Programming Manual. Click the links under each phase to see of what is new.

Unified v5.0

Category	Features	Description
System ID &		Added "Cystem IDVS Heads/ Address/ Douter/ Not Profix"
Numbering	System IP Plan	Added "System IPV6 Usage/ Address/ Router/ Net Prefix"
Plans		Link to System IP Plan - PGM 102 section
Board Based	Board Base	Added "IP Address" and "IPv6 Address"
Data	Attributes	Link to Board Base Attributes - PGM 132 section
CO Line	ICDNI Atteribustas	Added "ISDN Clock Sync"
Data	ISDN Attributes	Link to ISDN Attributes - PGM 143 section

1 Introduction

1.1 Manual Application

This document provides detailed information covering the configuration of the eMG/UCP database and maintenance of the eMG/UCP.

The manual also details the power-up and initialization routines and the Station Web Portal.

The manual is written for the experienced installer with knowledge of telephony terms, and functions of small and mid-sized business telecommunications systems.

Virtual machine UCP provides most features except the following features:

- 1) DB Backup to USB monthly / DB Backup to USB weekly System Attributes
- 2) External Control contact PGM168
- Music Sources PGM 171
- 4) RS-232 Port Settings PGM174
- 5) Serial Port Selections PGM175

1.2 Manual Organization

This manual is organized in four (4) major sections including:

Section 1 Introduction:

This section introduces the content and organization of the manual.

Section 2 System & Admin Information

In this section general information on System capacities, power-up routines and the system initialization process are detailed. Also, this section discusses the process for registration of IP and softphones with the system.

Section 3 Station Administration for eMG

This section provides details on configuring the eMG system employing a station allowed administrative access. Step by step procedures are given along with brief but concise descriptions of the various configuration parameters and available settings. We recommend that you use Section 4 Web administration.

Section 4 Web Administration

Similar to the Station Administration section, the Web Administration section gives step by step procedures and descriptions for the configuration parameters and settings available using a Web browser.

- Section 4.5 Maintenance: The Maintenance section provides details on managing the eMG including database upload and download, software upgrade, and user access management using the Web browser interface.
- Section 4.6 Station Program: This section discusses the configuration of the features and functions available in the portal.

• Section 4.7 On-line web user guide: This section explains the frequent use of features to a user. We didn't describe this section because you can easily get the information on the web by clicking [User's guide] of login page.

Appendix A

The Station and Attendant Station User Program codes are listed with the associated function. These fixed codes are available at the iPECS IP or LDP phones to configure basic functions such as ring tones, activate features and assign features and functions to Flex buttons.

Appendix B

A complete listing of the nine basic Flexible Numbering Plans. One is selected as the system's Flexible Numbering Plan. Each of the basic Numbering Plans includes all feature and resource access codes, and any individual code can be changed.

Appendix C

This Appendix includes a detailed listing of all the configurable parameters by Program group and includes the default values for each parameter. It is only for eMG Station Administration.

2 System& Admin Information

2.1 System capacities for eMG and UCP

iPECS eMG is available in several hardware configurations based on the Main board of the KSU. Upon initialization, the software will structure a database for the maximum possible station and CO/IP Line configurations. Thus, the software port count capacities will differ from the hardware count however, the hardware limitations always apply.

The total System ports supported by the software include the Station ports, CO/IP Line ports and ports for various options including the integrated AA/VM, Miscellaneous ports, etc. Other than the Station and CO/IP Line ports, the hardware and software capacities are the same. The capacities relative to the software are provided in the table below.

Table 2.1-1 eMG80Software Capacities

Item Capacity				
CO/Trunk lines	Max. 74			
Stations	Max. 140			
Attendants	4			
LAN port	2(1 each, KSU and VVMU)			
Modem Channel	1(MODU)			
Serial Port(RS-232C)	1			
USB(2.0) Host port	1			
Alarm/Doorbell input	2 (1 per KSU)			
External Control Relays	2 (1 per KSU)			
	1 Internal: select one of 13 melodies			
Music Course Insute	1 External source input			
Music Source Inputs	5 SLT ports			
	3 VSF announcements			
Power Fail Circuit	Max. 6 (1 per KSU, EKSU, CH204, CH408, CS416)			
VSF Device 1: Built-in AA/VM	8 channels(2 Chan. by default, 1Channel by license), 1 hour			
- w/MEMU	15 hours(no license needed)			
- w/MEMU2	60 hours(no license needed)			
VSF Device 2 (VVMU)	8 channels (by license) & 15 hours(by license), 1 hour(by default)			
Conference channels	148 channels/13 party per group			
Max. WTIB	1			
DECT Phones	48			
Built-in VoIP channels	8(2 channels by default, 6 channels by license)			
VMU VoIP channels- eMG80 8(by license)				
IP Stations and SIP Trunks	48 port (32 Stations+16 SIP Trunks)			
External Page	1 port			
Internal Page	35 zones			
System Speed Dial	3000 numbers, 25 digits each			

Table 2.1-1 eMG80Software Capacities

Item	Capacity		
System Speed Dial Zones (Groups)	10 zones		
Station Speed Dial	100 per station, 25 digits each(Max. 4000 numbers)		
Last Number Redial	10 numbers		
Save Number Redial	1 number		
DSS Consoles per Station	3		
Serial DSS - System	100		
Serial DSS – Station (LIP-8000)	4		
Serial DSS – Station (LIP-9000)	1		
Serial DSS – Station (1000i)	1		
SMDR buffer	10,000		
CO Line Groups	20		
Station &Station Groups	40		
Station &Station Group Members	70		
Pickup Group	50		
Pickup Group Member	140		
Conference Groups - System	40		
Conference Groups - Station	20 per station		
Executive/Secretary pairs	36		
Authorization Codes	500 (Station: 140, System: 360)		
Transparent Networking Table	15		
ICLID Routing table	250		
Tenancy (ICM) Group	15		
Attendant Station	4		
DID Digits Analysis	4		
MSN Table	500		
внсс	7200(2CPS)		

Table 2.1-2 eMG100 Software Capacities

Item	Capacity		
CO/Trunk lines	Max. 74		
Stations	Max. 140		
Attendants	4		
LAN port	2(1 each, KSU and VOIB48)		
Modem Channel	1(MODU)		
Serial Port(RS-232C)	1		
USB(2.0) Host port	1		
Alarm/Doorbell input	2 (1 on KSU, 1 on MISB)		
External Control Relays	4 (1 on KSU, 3 MISB)		
	1 Internal: select one of 13 melodies		
Music Course Inputs	1 External source input (1 on KSU, 1 on MISB)		
Music Source Inputs	5 SLT ports		
	3 VSF announcements		

Table 2.1-2 eMG100 Software Capacities

Item	Capacity			
Power Fail Circuit	none			
VSF Device 1: Built-in AA/VM	KSUD,KSUS:16 (4channels. by default, 12channels by license), 2 hour			
	KSUSC:16(2 channels by default, 14channels by license), 2hour			
- w/MEMU	15 hours(no license needed)			
- w/MEMU2	60 hours(no license needed)			
Conference channels	148 channels/13 party per group			
Max. WTIB	none			
DECT Phones	none			
Duilt in ValD abannala	KSUD,KSUS:16 (2 channels by default, 14 channels by license)			
Built-in VoIP channels	KSUSC:16(0 channel by default, 16channels by license)			
IP Stations and SIP Trunks	Simultaneously 100 Calls			
External Page	2 port (1 on KSU, 1 on MISB)			
Internal Page	35 zones			
System Speed Dial	3000 numbers, 25 digits each			
System Speed Dial Zones (Groups)	10 zones			
Station Speed Dial	100 per station, 25 digits each(Max. 4000 numbers)			
Last Number Redial	10 numbers			
Save Number Redial	1 number			
DSS Consoles per Station	3			
Serial DSS - System	100			
Serial DSS – Station (LIP-8000)	4			
Serial DSS – Station (LIP-9000)	1			
Serial DSS – Station (1000i)	1			
SMDR buffer	10,000			
CO Line Groups	20			
Station &Station Groups	40			
Station &Station Group Members	70			
Pickup Group	50			
Pickup Group Member	140			
Conference Groups - System	40			
Conference Groups - Station	20 per station			
Executive/Secretary pairs	36			
Authorization Codes	500 (Station: 140, System: 360)			
Transparent Networking Table	15			
ICLID Routing table	250			
Tenancy (ICM) Group	15			
Attendant Station	4			
DID Digits Analysis	4			
MSN Table	500			
ВНСС	3600(1CPS)			

Table 2.1-3 eMG800 Software Capacities

Item Capacity				
	1 ,			
CO/Trunk lines	Max. 600			
Stations	Max. 1200			
Attendants	5			
LAN port	MPB(1), VOIB(1), VMIB(1)			
Modem Channel	1(MODU)			
Serial Port(RS-232C)	1			
USB(3.0) Host port	1			
Alarm/Doorbell input	1			
External Control Relays	2 (1 per KSU)			
	1 Internal: select one of 13 melodies			
Music Source Inputs	1 External source input			
macio Godinos impario	5 SLT ports			
	3 VSF announcements			
Power Fail Circuit	1 port / 1 LCOB			
VSF Device				
- VMIU	4ch, 1 hours			
- VMIB	8ch, 100 hours			
Conference channels	148 channels/13 party per group			
Max. WTIB	30			
DECT Phones	192			
Built-in VoIP channels	8 (4 channel by default)			
VOIB128 channels	128 (32 channel by default)			
IP Stations and SIP Trunks	600			
External Page	1 port			
Internal Page	100 zones			
System Speed Dial	8000 numbers, 25 digits each			
System Speed Dial Zones (Groups)	10 zones			
Station Speed Dial	100 per station, 25 digits each(Max. 12,000 numbers)			
Last Number Redial	10 numbers			
Save Number Redial	1 number			
DSS Consoles per Station	3			
Serial DSS - System	500			
Serial DSS – Station (LIP-8000)	4			
Serial DSS – Station (LIP-9000)	1			
Serial DSS – Station (1000i)	1			
SMDR buffer	10,000			
CO Line Groups	200			
Station &Station Groups	200			
Station &Station Group Members	200			
Pickup Group	200			
Pickup Group Member	12,000			
Conference Groups - System	160			
Somerones Stoupe System	1.00			

Table 2.1-3 eMG800 Software Capacities

ltem	Capacity	
Conference Groups - Station	100 per station	
Executive/Secretary pairs	100	
Authorization Codes	2,400 (Station: 1,200/System: 1,200)	
Transparent Networking Table	32	
ICLID Routing table	250	
Tenancy (ICM) Group	32	
Attendant Station	5	
DID Digits Analysis	4	
MSN Table	1,500	
ВНСС	21600(6CPS)	

Table 2.1-4UCP System Capacities

Jane 21. 100. System Superioris				
ITEM	UCP100	UCP600	UCP2400	Remark
Main Cabinet	10 Slots		1 slot used by the PSU	
System channels, basic	50	100	600	
- maximum	199	600	2400	w/License
Stations	199	600	2400	Total stations and Lines
CO/IP Lines (external network	199	600	998	cannot exceed the available
channels incl. VoIP)	199	000	990	System channels
UCS Standard Clients				
- Registrations	100	200	400	
- Simultaneous	100	200	400	
UCS Premium Clients				
- Registrations	199	600	2400	
Server Redundancy	No	Yes	Yes	Supports local and remote
octver reduitabley	NO res	103	redundancy	
Cabinet Power Redundancy		Yes		
Integrated Telephony ports*1				Two FXS ports are equipped
- standard	2 FXS (SLT)			as standard in the UCP100
- optional	4 CO, or 2	None	None	module; an optional CO/BRI
	BRI or 4 BRI			line unit may be equipped or
	Lines			installed.
Max. WTIM4/8 modules		30		
Max. WTIM24 modules		10		
Max DECT phones for WTIM4/8	192	192	192	
Max DECT phones for WTIM24	254	254	254	*Supports GDC-480H/500H
VoIP Switch channels, *2&3				
- System Maximum	199	600	998	w/License (8ch increment)
	100		330	w/VOIM and VCIM
VoIP DSP channels,				
- Built-in max	4	6	0	

Table 2.1-4UCP System Capacities

Table 2.1-4001 System Capacities					
ITEM	UCP100	UCP600	UCP2400	Remark	
Multi-party Conference Unit (MCIU) channels	6/10/14/18	6/18	0	VoIP DSP channels can be assigned to the MCIU, 2 VoIP = 4 Conf channels. For UCP100 see Note 1.	
Maximum MCIMs		30			
Max SIP channels	100	600	1200		
\/OF*4	8-Ch./4 Hrs.	8-Ch./6Hrs.	NA		
VSF*4	14 Hours	16 Hours	NA	w/License	
UVM capacity, basic	8 Ch	annels at 50 ho	ours		
- maximum	16 Ch	annels at 200 l	hours	w/License	
UVM per system		100			
Attendants		50			
Serial Port (RS-232C)		1			
USB Host port		1			
Alarm/Doorbell input	1	2	2		
External Control Relays	1		4		
Music Source Inputs (Ext)		1			
Power Fail Circuit	1		4		
External Page zones	1	2	2		
Internal Page Zones		100			
System Speed Dial		12,000			
System Speed Dial Zones		50			
(Groups)		50			
Station Speed Dial, per Station		100			
Total Station Speed Dial		24,000			
Call park		200			
Last Number Redial		10 (23 digits)			
Save Number Redial		1 (23 digits)			
Standard DSS Consoles/Station		9			
Serial DSS - System		500			
Serial DSS - Station (LIP-8000)	4				
Serial DSS - Station (LIP-9000)	1				
Serial DSS – Station (1000i)	1				
SMDR buffer	30,000				
CO Line Groups	200				
Station & Hunt Groups	200				
Station & Hunt Group Members	200				
Pickup Groups	200				
Pickup Group Member	2,400				
Personal Groups	1200				
Conference Group - System	160				
Conference Group - Station 100		100			

ITEM	UCP100	UCP600	UCP2400	Remark
Executive/Secretary pairs		100		
Authorization Codes	5200 (Stat	tion:2400/Syst	em:2800)	
Transparent Networking Table		100		
Redundancy	N/A			Yes
Flex DID Table	10,000			
MSN table	2,400			
DID Digits Analysis	4			
Tenancy (ICM) Groups	100			
ICLID table	500			
BHCC	54000(15CPS)			

NOTE)

- 1) iPECS UCP-100 is equipped with two (2) FXS ports, and one of several built-in CO Line units may be factory or field installed.
 - 4 analog CO Lines (UCP-COIU4), uses two (2) VoIP DSP channels
 - 2 BRI Lines, 2B+D each, (UCP-BRIU2), uses two (2) VoIP DSP channels
 - 4 BRI Lines, each 2B+D, (UCP-BRIU4), uses four (4) VoIP DSP channels
- 2) Note the built-in PSTN interfaces require dedicated DSP resources. These DSP resources reduce the maximum VoIP DSP resources available shown in the above chart.

 The built-in VoIP Switching channels implement agent and packet relay functions. Remote device and network interfaces send RTP traffic to the VoIP channel, which forwards traffic to the appropriate local iPECS device. The VoIP Switching channel also forwards multi-cast packets to the remote end-points and local non-iPECS devices. Only the g.711 codec is allowed unless there is an available VoIP DSP channel.
- 3) The number of VoIP Switching channels can be increased to the maximum with license installation.
- 4) Approximately 35 minutes (16 Mbytes) of the VSF and UVM memories are used to provide basic system prompts, the remaining memory can be used for announcements and voice message storage. Note the built-in VSF supports the g.711 Codec only; the UVM supports g.711, g.729, g.723, and g.722 Codec.
- 5) For the detail vUCP System capacity, refer to the Virtual UCP(vUCP) Installation Manual

2.2 Initialization

2.2.1 eMG Initialization

The system should be initialized before starting the configuration to assure a known starting point and automatically register installed boards. Also, if the Nation Code requires modification, the system will be initialized in the process so as to establish tones and gains appropriate for the region. You can initialize the system using the Initialization switch (Dip-switch SW1, pole-2) in the KSU or using the software Initialization PGM 450. Note the former must be used to change the Nation Code as detailed section 3.3.1.

Basic Power-Up Routine

When the KSU power switch is turned On or the KSU Reset button is pressed with power ON, the system will initiate the "Power-up" routine. During the Power-Up routine the system checks the Initialization switch and, if the switch is in the Off position, the system will perform the basic Power-up routine; clear all scratch-pad memory, load run-time programs, establish communications with each registered Interface board, Function board, iPECS IP Phone and LDP Phone, send Restart commands and load appropriate settings to the boards and terminals.

The KSU also will attempt to communicate and register the EKSU. If a registered board or terminal does not respond after several attempts, the system places the device in an out-of-service mode but maintains the configuration of the device. Once the Power-up routine is complete, the system will conduct normal operations.

Registration of Boards

If the Initialization switch is in the ON position, in addition to the Power-Up routine, the system will perform the full Initialization procedure. During initialization, the system attempts to communicate with the board in each Slot, starting with Slot 1 and progressing sequentially through the slots, to determine the installed equipment.

If the board is installed, the Slot number ("Sequence Number") is registered, an "Order number" is determined and the MPB MAC and IP address are assigned. Using "Order number", which is the order that devices of the same type (CO/IP Line, Station, VSF device, etc.) register, the system assigns the Station numbers and CO/IP Line numbers.

An exception to the above is the MAC and IP address of the VOIB which covers the VoIP channels on the VVMU. The VOIB has a separate MAC address and the IP address is assigned from the system. Note this IP address can be modified at a later time.

Once the system is operational and the database configured, the system can be expanded manually by registering the optional boards as detailed in PGM 235, Registration Table.

Initial Station and CO Numbering

The default Station Numbering Plan assigns a Three-digit number to each station port. Starting at the first (left) port of Slot 1, the system assigns the Station Numbers beginning at "100 (eMG80/100) or 1000 (eMG800)". The Station number increments for each port in the slot, moving to the right until reaching the last port. The process is repeated for each Station slot (1 to 6) in sequence assigning consecutive Station Numbers.

Note the Station Number Plan can be two to four digits and the Station Number for each port can be modified individually.

Slots 7 to 14 are then registered and, since they are CO/IP Lines, the Order numbers 1 to 8 are used to number the CO/IP Lines. The process is repeated for each device type.

IP Phone Registration

Unregistered iPECS IP Phones attempt to discover and register with a local (on the same LAN) iPECS system, in this case the eMG. The phone will send a registration request to the MPB IP address. If no response is received, the phone will send a multi-cast request. With the request, the phone will send the MAC address. This address must be assigned in the PGM 235.

When the system receives the request, the MAC address received is compared to the Registration table and, if matched, the phone is registered, it is given the next available sequence number starting at "19", and assigned the next available Station Number.

If the iPECS IP Phone is configured as a remote device, it will send a registration request to the iPECS system at the configured IP address. When the system receives the request, it is processed normally except the MAC address must be assigned in PGM 442 Remote Device Register.

Default Database

Based on the installed equipment, the system populates the database with the default values, refer to Appendix C based on Keyset administration as numbering plan 1. Once the database is set to default, the system will conduct normal operations.

2.2.2 UCP Initialization

When power is applied to the UCP or the UCP Reset button is pressed, the system will initiate the "Power-up" routine. During the Power-Up routine, the system will check the Initialization switch (pole 4th of UCP Mode Dip Switch). If the switch is in the OFF position, the system will perform a simple Power-Up routine; clear all scratch-pad memory, load run-time programs, establish communications with each registered gateway Module and iPECS terminal, send RESTART commands and load appropriate settings to the Modules and terminals. If a Module or terminal does not respond after several attempts, the system places the device in an out-of-service mode but maintains the database settings. Once the Power-up routine is complete, the system will conduct normal operations.

If the Initialization switch is in the ON position, in place of the Power-Up routine, the system will perform the full Initialization procedure. The initialization procedure will set the system database to default values. Further, during the full initialization procedure, the system will establish communications with each gateway Module and iPECS terminal for registration. This communication will use the default device IP address and the UCP MAC address for system identification. The system will maintain IP addresses and Sequence Numbers for previously registered gateway Modules and iPECS terminals. These values are employed for subsequent communication and logical assignments of numbering plans, respectively. In addition, the system sends commands to modify all settings to the default values, including IP addresses but maintains the existing Sequence Numbers.

After successful initialization, should a device not respond to several attempts by the system to communicate, the system places the device in an out-of-service mode but maintains the database. Once initialization is complete, set the initialization switch to the OFF position to protect the database. The system must be restarted to complete the initialization.

2.2.2.1 Normal Registration Process

Module & Terminal

When power is applied and an Ethernet link is established, an unregistered device will attempt to discover and register with a local (on the same LAN) iPECS system. The Module or terminal will send a registration request

to the assigned iPECS system (UCP) IP address. If no response is received, the device will generate a Multicast discovery request for registration.

Remote iPECS Phone & Remote Services Module

A remote device, iPECS Phone or gateway Module, registers with the system using the MAC address of the device. The MAC address must be assigned in the system database and the IP address of the system must be assigned in the remote device. Using this address, the remote device will attempt to register with the assigned iPECS system. When the system receives the registration request, the MAC address is compared with the database to authenticate the remote device. With a matching MAC, the system will accept the registration request and provide the remote device with the appropriate settings. Note that the position of the UCP Registration switch does not affect remote registration.

iPECS Softphone or SIP Phone

iPECS softphones (iPECS UCS Client) and SIP phones register with the system employing the User Id and Password. When the system receives the registration request, the Id and password are compared to the Station Login parameters. If a match is found in the Station Login Table, the system registers the device and assigns the phone the Station Number requested (Desired number), if available. As with remote registration, the position of the UCP Registration switch will not affect Softphone or SIP Phone registration.

iPECS system

When power is applied, an Ethernet link is established, and the Registration switch (UCP DIP Switch position 3) is in the ON position, the UCP will send a Multi-cast request to unregistered gateway Modules and iPECS terminals for registration.

When the system receives a valid registration or discovery request, and the Registration switch (UCP DIP Switch position 3) is in the ON position, the system will respond to the gateway Module or terminal with a Registration command including the system IP and MAC address. During the registration process, the Module or terminal will receive data from the system including a Sequence Number, IP address, RTP characteristics, etc., as well as default settings appropriate to the type of Module or terminal. Once registered, the Module or terminal will maintain the system IP and MAC address in non-volatile memory and will not attempt further registrations. If the Registration switch is in the OFF position, the system will not respond to normal registration requests from a local device.

Sequence Number

Sequence numbers are allocated to the different device types and are assigned sequentially to devices of the same type as shown in the Table 2.3.1 below.

Device Type Start Sequence Number End Sequence Number 1 Station 2400 CO line 2401 3000 **VSF** 3001 3100 MISC 3101 3200 **MCIM** 3201 3230 3231 **UCS** server 3246 IPCR and 3rd party server 3247 3256 **WITW** 3257 3388

Table 2.3.1 Sequence Number Allocation

2.2.2.2 Replacement Module Registration

Under certain situations, it is necessary to force the registration of gateway modules and terminals specifically when an UCP, gateway Module or iPECS Terminal is replaced. When replacing a UCP module, gateway Modules and iPECS terminals must be forced to register with the new system. With Module or terminal replacement, the system must recognize the "replacement" status to transfer the existing database values.

When replacing a UCP, the local Web interface is used to access the system. The user may update the system database using the database downloaded from the previous UCP memory.

Using the Terminal mode Command Line interface ("maint > reset ip"), the user provides the new UCP with the IP address of the previous UCP, and issues the Register command. The new system will then send a Uni-cast Register command to each gateway Module and iPECS terminal registered to the previous system. This Register command will include the previous system IP address. These commands are repeated several times only. As communication is established, the new UCP will update the settings of the gateway Modules and iPECS terminals appropriately. When the gateway Modules and terminals respond, they are registered to the new system.

When replacing a gateway Module, use PGM 103 "Device IP Plan" in Web admin to change the service mode to "Out of Service", change the MAC information for the new module, change the service mode to in-service and install the new gateway Module.

When replacing an iPECS terminal, using PGM 103 "Device IP Plan" in Web admin change the service mode to "Out of Service" change the MAC information for the new iPECS terminal, change the service state to inservice, and install the new terminal.

2.3 General Admin and Menu Structure

The iPECS system can be configured to meet each customer's individual needs. System configuration may be accomplished by entering the "Program mode" at an assigned Admin Station or by pointing a Web Browser at the IP address of the MPB/UCP. Section 3 provides a description of eMG system for data entry using the Admin Station. Section 4 discusses configuration employing the Web browser. Note that some parameters are available through Web Admin and not the Keyset Admin.

Configurable items are organized as "Data" groups with a common affect, i.e. station, system, numbering plan, etc. Items are further grouped into "Programs" forming a multi-layered menu structure as the following list. Each of the Program groups is assigned a three digit "Program" (PGM) code used to access the group. The top level Data groups include:

- System ID& Numbering Plans
- Station Data
- Board Based Data
- CO Line Data
- System Data
- Station Group Data
- ISDN Line Data
- SIP Data
- Tables Data
- Networking Data

- H.323 Routing Table
- T-NET Data
- Zone Data
- Device Login
- UCS Data
- DECT Data
- Redundancy Data (for UCP600 & UCP2400)
- Hotel Data
- Green Mode for eMG
- Initialization

The default and range of values for each configurable parameter are provided in Section Web admin programming. The index and charts are helpful references when entering data into the system's database.

3 Station Admin ProgammingforeMG

3.1 General

3.1.1 LCD & Button Functions

While in the Program mode, the Liquid Crystal Display (LCD) and Flex button LEDs of an Admin Station are used to guide and indicate status of the feature. The dial-pad is most often used to enter data after selecting a data item using the Flex buttons. In some cases, pressing a Flex button will toggle the entry with the Flex button LED indicating the status (On/Off).

For Programs with multiple Flex button selections, the volume controls (**[VOL UP]** and **[VOL DOWN]** buttons) may be used to select the next or previous item. The **[SPEED]** button is generally employed as a delete button to erase existing entries. However, where noted, it may be used to confirm a range input. Pressing the **[CONF]** button, returns to the 1st step of the data entry procedure for the Program without storing unsaved entries.

The **[Save]**button is used to store data after entry. If there are no conflicts in the entered data, confirmation tone will be received and the data stored. If a conflict exists, error tone is provided and newly entered data are not saved. Generally, corrected data may be entered and stored without restarting the entry procedure from the 1st step.

3.1.2 Alphanumeric Data Entries

In some cases, an alphanumeric entry is required. Two (2) dial-pad digits represent each character of an alphanumeric entry, as shown in Table 3.1.2–1 below. Use the Table to determine the two digits that must be entered from the dial-pad for each character.

	JIC 3.1.2-1 ALI		10		D L
1	Q – 11	2	A - 21	3	D - 31
	Z – 12		B - 22		E - 32
	. – 13		C - 23		F - 33
	1 – 10		2 - 20		3 - 30
4	G – 41	5	J - 51	6	M - 61
	H - 42		K - 52		N - 62
	I - 43		L - 53		O - 63
	4 - 40		5 - 50		6 - 60
7	P - 71	8	T - 81	9	W - 91
	R - 72		U - 82		X - 92
	S - 73		V - 83		Y - 93
	Q - 7*		8 - 80		Z - 9#
	7 - 70				9 - 90
*	Blank - *1	0	0-00	#	#
	: - *2				
	, - *3				

Table 3.1.2-1 ALPHANUMERIC DIAL-PAD ENTRIES

3.2 Data Entry Mode

Limited data entry can be accomplished from an Admin Station or station assigned for data entry (Station Attributes III PGM 113, Flex button 1). After initialization and registration, any enabled iPECS IP or LDP Phone may access the system database. In addition, as default, there is no Station Admin password defined. To enter the Program mode from the Admin Station follow the procedure below. In the left column of the chart are the LCD displays and in the right column are step-by-step instructions to modify database items.

PROCEDURE	
STATION 100 (T) 04 SEP 01 02:49 PM	Press the [PGM] button and Dial '*' and '#'.
ENTER ADMIN PASSWORD	Enter the Admin password. Confirmation tone is received. As a default there is no password and this step is skipped.
ADMIN PROGRAM START	
ENTER PGM NUMBER	To select a program, use the instructions in the following sections, starting with "Press the [PGM] button" and dial the specified Admin Program code.

3.3 Procedure for Data Entry

The following sections provide specific instructions for entering data from the Admin Station once in the Program mode. Each section provides descriptive information, step-by-step instructions and Tables for determining appropriate entries.

3.3.1 System ID —PGM 100

Under System ID, the country is identified using the international dial codes (NATION CODE). If the NATIONC\defaults, gain, frequencies and other system characteristics specific to the country and regional regulatory pgm

To change the NATION Code on eMG:

- 1) Set the MPB Dip-switch 1 pole 2 to the ON position,
- 2) Follow the procedure below to modify the NATION code
- 3) Press the reset button on the KSU, power the system Off and On, or use PGM 450 to initialize the system.
- 4) After initialization, reset switches as needed, Dip-switch 1 pole 2 should be OFF.

A twenty-four (24) character SITE NAME and the local Area Code are also defined in this program. The SITE NAME is primarily useful for the installer/programmer as a reference to the customer.

In addition, under this program the system can be programmed to select one of eight (8) Flexible Number Plans, refer to Appendix B. Individual items from the selected Numbering Plan can be changed under Flexible Numbering Plan part A to D - PGM 106 to 109- in section 3.3.2.5.

PROCEDURE	
	Press the [PGM] button and dial 100.
	Select the desired Flex button (1~5), refer to Table 3.3.1-1. For
SYSTEM ID	COUNTRY CODE, refer to Table 3.3.1-2 for appropriate entries.
PRESS FLEX KEY (1-6)	Use the dial-pad to enter desired System Id data. For System Reset,
	button 5, press [Save] to reset the System Id to default.
	To store the System Id data press the [Save] button.

Table 3.3.1-1 SYSTEM ID (PGM 100)

BTN	DISPLAY	REMARK	RANGE	DEFAULT
1	COUNTRY CODE 1	Refer to Table 3.3.1-2 below. Note system must be re-initialized if changed.	4 digits	1
2	CUSTOMER SITE NAME	Refer to Table 3.1.2-1 for alphanumeric dial-pad entries.	24 character	
3	MY MULTI AREA CODE ENTER TABLE NO(00-40)	Enter the area code of the installed site.	6 digits	

Table 3.3.1-1 SYSTEM ID (PGM 100)

BTN	DISPLAY	REMARK	RANGE	DEFAULT
VOIU4	NUMBERING PLAN (1-9)	Refer to Appendix B for details of Numbering Plan selection.	1-9	1
5	PREFIX USAGE (1:ON/0:OFF) : OFF	Enable/Disable 8-digit Station Numbering Plan. Assign the Prefix codes in the 8-Digit Numbering Table (PGM238).	0: OFF 1: ON	OFF
6	SYSTEM ID SYSTEM RESET	Returns the System Id to default.		
11	WEB LOGIN ID (eMG100) RESET	Reset the eMG100 web administrator login ID.(eMG100, DKTU only)		

Table 3.3.1-2 COUNTRY CODES

COUNTRY	CODE	COUNTRY	CODE	COUNTRY	CODE	COUNTRY	CODE
America	1	Argentina	54	Australia	61	Bahrain	973
Bangladesh	880	Belgium	32	Bolivia	591	Brazil	55
Brunei	673	Burma	95	Cameroon	237	Chile	56
China (Taiwan)	886	CIS	7	Colombia	57	Costa Rica	506
Cyprus	357	Czech	42	Denmark	45	Ecuador	593
Egypt	20	El Salvador	503	Ethiopia	251	Fiji	679
Finland	358	France	33	Gabon	241	Germany	49
Ghana	233	Greece	30	Guam	671	Guatemala	502
Guyana	592	Haiti	509	Honduras	504	Hong Kong	852
India	91	Indonesia	62	Iran	98	Iraq	964
Ireland	353	Israel	972	Italy	39	Japan	81
Jordan	962	Kenya	254	Korea	82	Kuwait	965
Liberia	231	Libya	218	Luxembourg	352	Malaysia	60
Malta	356	Mexico	52	Monaco	377	Morocco	212
Netherlands	31	New Zealand	64	Nigeria	234	Norway	47
Oman	968	Pakistan	92	Panama	507	Paraguay	595
Peru	51	Philippines	63	P.N.G	675	Portugal	351
Qatar	974	Saudi Arabia	966	Senegal	221	Singapore	65
South Africa	27	Spain	34	Sri Lanka	94	Swaziland	268
Sweden	46	Switzerland	41	Thailand	66	Tunisia	216
Turkey	90	U.A.E.	971	United Kingdom	44	Uruguay	598
Venezuela	58	Y.A.R.	967				

3.3.2 NUMBERING PLANS DATA — PGM 102 to 109

3.3.2.1 System IP Address Plan — PGM 102

The System IP Address Plan sets several IP addresses including the KSU LAN port IP address (MPB IP Address) required for external VoIP calls, the IP address for the router, and the system's internal private IP address Plan. Note that the MPB and Router addresses and sub-net mask must be a routable IP address for access to an external VoIP network, remote access by a gateway/board or terminal and remote Web access. The VOIB must also have a routable IP address for access to/from an external VoIP network or remote user.

When Automatic IP Assignment, button 7, is enabled, the system will assign IP addresses to each local terminal and the VOIB using the assigned System IP address range. These addresses are used for communications between the system and the VOIB and terminals. The system may be connected to a LAN that is segmented by two separate private IP address schemes. This segmenting technique is often used to separate voice and data devices. However, with this segmenting technique, the system would normally treat the segmented Terminals such as iPECS Soft Phones, as remote devices, using valuable WAN bandwidth. Assigning the "Second Sys IP address" with valid IP address from the second segment permits the system to communicate with the devices directly over the LAN.iPECS can be installed behind a NAPT server, if the NAPT server provides fixed address translation and port forwarding to the system. In this case, the system will employ the "Firewall IP address", button 10, as the fixed public IP address for communication with remote devices. This address must be assigned as the "MPB" address in the remote device.

PROCEDURE	
	Press the [PGM] button and dial 102.
SYSTEM IP ADDRESS PLAN PRESS FLEX KEY (01-17)	Select the desired button 1~19, refer to Table 3.3.2.1-1.
	Use the dial-pad to enter desired IP addresses.
	Use an "*" to enter a dot (".")
	Press the [Save] button to store IP address entries.

Table 3.3.2.1-1 SYSTEM IP ADDRESS PLAN (PGM 102)

BTN	DISPLAY	DEFAULT	REMARK
1	MPB IP ADDRESS 10 .10 .10 .2	10.10.10.2	This is the IP address of the KSU LAN port A. A Public IP Address is required for remote user and external VoIP network access. IPv4 format.
2	MPB SUB NET MASK 255.255.255.0	255.255.0.0	
3	ROUTER IP ADDRESS 10 .10 .10 .1	10.10.10.1	IP Address of router for external network (WAN) access. Required for shared voice and data LAN, external VoIP and remote Web access.
4	SYSTEM START IP ADDRESS 10.10.10.10	10.10.10.10	Start of range for private IP addresses assigned by the system to Modules/Terminals.
5	SYSTEM END IP ADDRESS 10.10.10.254	10.10.10.254	End of range for private IP addresses assigned by the system to Modules/Terminals.

Table 3.3.2.1-1 SYSTEM IP ADDRESS PLAN (PGM 102)

BTN	DISPLAY	DEFAULT	REMARK
6	SYSTEM SUB NET MASK 255.255.255.0	255.255.0.0	
7	AUTOMATIC IP ASSIGN (1:ON/0:OFF): ON	ON	The system will automatically assign IP addresses to modules and terminals (ON) or, when OFF, IP addresses are assigned manually in PGM 103 Device IP Address Plan.
8	SECOND SYS IP ADDRESS 0 .0 .0 .0	0.0.0.0	When devices are located on a different private address on the same net, enter the MPB IP address for the second LAN.
9	SECOND SYS SUB NET MASK 255.255.255 .0	255.255.255.0	
10	FIREWALL IP ADDRESS 0 .0 .0 .0	0.0.0.0	When the system is installed behind a NAPT server, the fixed IP Address provided by the NAPT server must be assigned in this field. Also, use this IP address for the MPB address in remote devices.
11	FIRST START MAC ADDR 0000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the start address of the first range.
12	FIRST END MAC ADDR 0000000000000000000000000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the end address of the first range.
13	SECOND START MAC ADDR 0000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the start address of the second range.
14	SECOND END MAC ADDR 0000000000000000000000000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the end address of the second range.
15	SYSTEM IP ADDRESS PLAN SYSTEM RESET		Returns System IP Address Plan to default values.
16	MPB DNS IP ADDR 0 .0 .0 .0	0.0.0.0	IP Address of Domain Name Server, which iPECS will use to resolve URL to an IP address. The DNS provides the resolution after receiving the name from iPECS.
17	MPB DHCP (1:ON/0:OFF) : OFF	OFF	Enable/Disable DHCP client function for the MPB.

3.3.2.2 Device IP Address Plan -PGM 103

TDM board is registered with own slot number. It is registered automatically without any configuration.

To register an IP device:

As IP gateway/board and terminals register to the iPECS, a logical slot number is assigned, which indicates the order of registration. Also, based on the type of device (CO/IP gateway/board, Terminal) the system assigns a logical Sequence Number.

Thus, Sequence Numbers for CO gateway/board, Terminals are independently assigned based on the type of gateway/board. These Sequence Numbers are employed to provide a relationship between the physical MAC address and the logical port numbers of the device.

The system may assign a default private IP address to each Sequence Number. If desired, this program may be used to modify the assigned IP address for each gateway/board and iPECS Phone.

Each local gateway/board and terminal can be assigned for "Direct Send". With Direct Send enabled, the system will employ the Ethernet MAC address, layer 2 switching to eliminate the need for IP traffic overhead, reducing overall LAN traffic. The system normally employs IP multi-cast protocol to respond to a registration request from a gateway/board or terminal.

When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the "Local Device" assignment. When disabled (Off), the system will send an IP uni-cast message to the device in response to a registration request.

PROCEDURE	
DEVICE IP ADDRESS PLAN PRESS FLEX KEY (1-7)	Press the [PGM] button and dial 103. Select the desired Flex button. - Button 1: CO & VOIP Gateway/Board - Button 2: Stations - Button 3: MISU - Button 4: VMIU, VMIB - Button 5: MCIB - Button 6: SYSTEM RESET - Button 7: WTIB Use the [VOL UP] and [VOL DOWN] buttons to see next/ previous IP Address. Refer to Table 3.3.2.2-1 for display information. Press Flex 1~6 to select the Sub-menu item desired. See Table 3.3.2.2-1. - Button 1: IP address - Button 2: MAC address - Button 3: ARP - Button 4: REGISTRATION - Button 5: CPU Type - Button 6: Device (Board) ID Use the dial-pad to enter desired data. For IP and MAC addresses, an "*" is used to enter a dot (".") Press the [Save] button to store the data entry.

Table 3.3.2.2-1 DEVICE& STATION ADDRESS PLAN (PGM 103)

BTN	DISPLAY	FEATURE	DEFAULT
1	001-001 :B40EDCBF5606 VOIP 1 :10 .10 .10 .2	Line 1 - Sequence Number, 2 or 3 digits MAC Address, 12 digits Line 2 - Module Type, 4 characters First Logical port number IP Address, 7~12 digits	CO & VoIP board IP address setsequentially, from the range in PGM 102.
1–1	SET IP ADDRESS VOIP 1 : 10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
1–2	SET MAC ADDRESS 001-001 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address in the system memory.	None
1–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
1–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with theMPB.	MCAST
1–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
1–6	DEVICE(BOARD) ID PRIB	Flex button 6 displays the Board type designation.	
2	001-001 : B40EDCBF5606 KTU 100 :10.10.10.10	LCD shows: Line 1 Sequence Number, 3 digits MAC Address, 12 digits Line 2 Station Type, 3 characters Station Number, 2~4 digits IP Address, 7~12 digits	Station IP address set sequentially, from the range in PGM 102.
2–1	SET IP ADDRESS KTU 100 :10.10.10.10	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
2–2	SET MAC ADDRESS 001-001 : B40EDCBF5606	Use Flex 2 button to enter the device's MAC address into system memory.	None
2–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
2–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST

Table 3.3.2.2-1 DEVICE& STATION ADDRESS PLAN (PGM 103)

BTN	DISPLAY	FEATURE	DEFAULT
2–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
2–6	DEVICE(BOARD) ID HYIB	Flex button 6 displays the terminal type designation.	
3	001-017 : B40EDCBF5606 MISU :10.10.10.2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 "MISU" IP Address, 7~12 digits.	IP address of MISU. Functions in the system's MPB set automatically,
3–1	SET IP ADDRESS MISU :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
3–2	SET MAC ADDRESS 001-003 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address into system memory.	None
3–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
3–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
3–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
3–6	DEVICE(BOARD) ID MISU	Flex button 6 displays the MISU type designation.	
4	001-015 : B40EDCBF5606 VMIU :10.10.10.2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 device type and IP address.	
4–1	SET IP ADDRESS VMIU :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
4–2	SET MAC ADDRESS 001-015 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address into system memory.	None

Table 3.3.2.2-1 DEVICE& STATION ADDRESS PLAN (PGM 103)

BTN	DISPLAY	FEATURE	DEFAULT
4–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
4–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
4–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
4–6	DEVICE(BOARD) ID VMIU	Flex button 6 displays the type designation.	
5	001-018 : FFFF0000FFFF MCIB : 10 .10 .10 .2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 device type and IP address.	
5–1	SET IP ADDRESS MCIB :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
5–2	SET MAC ADDRESS 001-018 : FFFF0000FFFF	Use Flex button 2 to enter the device's MAC address into system memory.	None
5–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
5–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
5–5	CPU TYPE MS828	Flex button 5 displays the type of CPU employed in the device.	
5–6	DEVICE(BOARD) ID MCIB_V	Flex button 6 displays the type designation, MCIB_V.	
6	DEVICE IP ADDRESS PLAN SYSTEM RESET	If the [Save] button is pressed, the system will reset and restart.	
7	001-003 : 00405A142C67 WTIB : 10:10:10:14	Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 "WTI4" and IP Address, 7~12 digits.	

Table 3.3.2.2-1 DEVICE& STATION ADDRESS PLAN (PGM 103)

BTN	DISPLAY	FEATURE	DEFAULT
7–1	SET IP ADDRESS WTIB :10.10.10.14	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
7–2	SET MAC ADDRESS 001-003 : 00405A142C67	Use Flex button 2 to enter the device's MAC address into system memory.	None
7–3	ARP (0:ON/1:OFF): OFF	Use Flex button 3 to enable/disable ARP, ARP OFF enables Direct Send, which employs layer 2 switching to local devices.	OFF
7–4	REGISTRATION (0:UCAST/1:MCAST):MCAST	Use Flex button 4 to disable/enable Local Device Mode, which defines the device as on a common LAN with the system. MCAST enables Local Device Mode.	MCAST
7–5	CPU TYPE MS828	Flex button 5 displays the type of CPU employed in the device.	
7–6	DEVICE(BOARD) ID WTIB	Flex button 6 displays the type designation, WTIB.	

3.3.2.3 CO Device Sequence Number -PGM 104

The system uses the Sequence Number to assign logical (software) port numbers. This Sequence Number relates the hardware and software port numbers for each device.

PROCEDURE	
	Press the [PGM] button and dial 104.
	Press the Flex button (1~6) for the desired Sequence Number, use
	the [VOL UP] and [VOL DOWN] buttons for the next/previous set of
001 002 003 004 005 006	six Sequence Numbers.
	Using the dial pad, enter new slot numbers. Note slot numbers
009 007 008 013 014	cannot be duplicated and duplicates will cause an error. The
	[SPEED] button may be used to erase the slot number associated
	with the selected Sequence Number.
	Press the [Save] button to store the new Slot data.

3.3.2.4 Flexible Station Numbering Plan -PGM 105

Each LDP Phone, iPECS IP Phone and SLT is assigned a Sequence Number during the registration process.

The station Sequence Number is a 3-digit number starting at 001, which is incremented as each terminal device is registered.

At registration, station numbers increment sequentially with the Sequence Number and are assigned starting at station 100 for Sequence Number 001.

The Station Numbering Plan allows the station numbers to be Three (3) to eight (8) digits in length.

PROCEDURE	
001 002 003 004 100 101 102 103	Press the [PGM] button and dial 105.
	Use either of the two methods below to change the station number associated with a Sequence Number. Note pressing the [SPEED] button twice clears all station number assignments. The [VOL UP] / [VOL DOWN] buttons are used to view the next/previous 2 station Sequence Numbers.
001 002 003 004	Range entry: Using the dial-pad, enter a station number range (first & last station number). The two station numbers must be of the same length, 2~8 digits. The range assignment begins with the first station number shown by the LCD and continues to the end of the entered range.
	Single entry: 4.1 Press Flex button 1~4 to select the desired Sequence Number from the two shown by the LCD. 4.2 Dial new station number. Press the [Save] button to store the new station numbers.

3.3.2.5 Flexible Numbering Plan part A to D - PGM 106 to 109

Feature dial codes for the system can be assigned using the system's Flexible Numbering Plan. Feature codes should be one (1) to four (4) digits in length and must not conflict. For example, Feature dial codes 53 and 536 represent a conflict. The system will generate error tone and will not update the database.

Table 3.3.2.5-1 to Table 3.3.2.5-4 below show the defaults for the 1st base Numbering Plan. Appendix B provides the default values for each of the 9 basic Numbering Plans, select the base Numbering Plan in PGM 100. The default is based on Numbering plan 1.

PROCEDURE	
	Press the [PGM] button and dial:
	- 106 for part A
	- 107 for part B
	- 108 for part C
FLEX NUMBERING PLAN A	- 109 for part D.
PRESS FLEX KEY (01-24)	Select the desired button (01~24); refer to Table 3.3.2.5-1 to Table
	3.3.2.5-4 for PGM 106 to 109 respectively.
	Use the dial-pad to enter desired data. Where a range is required,
	input the first and last numbers in the range.
	Press the [Save] button to store the new Numbering Plan data.

Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

BTN	DISPLAY	FEATURE	DEFAULT
1	INT PAGE ZONES START& END:301-335	Internal Page Zone access codes. eMG80/100:301~335, eMG800:301~400	Refer to description
2	INT ALL CALL ENTER NEW #:543	Internal All Call Page access code.	543
3	MEET ME PAGE ENTER NEW #:544	Meet-Me-Page answer code.	544
4	EXT PAGE ZONE 1 ENTER NEW #:545	External Page Zone 1 access code.	545
5	EXT PAGE ZONE 2 ENTER NEW #:546	External Page Zone 2 access code.	546
6	EXT ALL CALL ENTER NEW #:548	External All Call Page access code.	548
7	ALL CALL PAGE ENTER NEW #:549	All Call Page access code.	549

Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

BTN	DISPLAY	FEATURE	DEFAULT
8	SMDR ACT CODE ENTER ENTER NEW #:550	Dial code to signify the start of an SMDR Account Code.	550
9	FLASH CMD TO CO ENTER NEW #:551	Dial code to generate a Flash on the active CO Line.	551
10	SLT LAST SPD DIAL ENTER NEW #:552	SLT Last Number Redial feature access code.	552
11	DND ENTER NEW #:553	Dial code to activate Do-Not-Disturb.	553
12	CALL FWD ENTER NEW #:554	Dial code to activate Call Forward.	554
13	SPD DIAL PGM ENTER NEW #:555	Speed Dial programming access dial code for SLTs.	555
14	MSG WAIT ENABLE ENTER NEW #:556	Dial code to activate a Message Wait/Call Back.	556
15	MSG WAIT RETURN ENTER NEW #:557	Dial code to return a Message Wait/Call Back.	557
16	SPD DIAL ACCESS ENTER NEW #:558	SLT Speed Dial access code.	558
17	DND/FWD CANCEL ENTER NEW #:559	Dial code to cancel DND/FWD/MSG Wait.	559
18	CO SYS HOLD ENTER NEW #:560	Dial code to place a CO call on System Hold.	560
19	SLT PGM MODE ENTER ENTER NEW #:561	User program mode entry dial code for SLTs.	561
20	ATTD UNAVAILABLE ENTER NEW #:562	Dial code to place attendant in the "unavailable" mode, attendant only.	562

Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

BTN	DISPLAY	FEATURE	DEFAULT
21	ALARM RESET ENTER NEW #:565	Dial code to terminate Alarm contact signal.	565
22	GROUP CALL PICK-UP ENTER NEW #:566	Group Call Pick-up dial code.	566
23	UNIVERSAL ANSWER ENTER NEW #:567	Universal Night Answer dial code.	567
24	ACCNT CODE WITH BIN ENTER NEW #:568	Dial code for entering an Account code.	568

Table 3.3.2.5-2 FLEXIBLE NUMBERING PLAN PART B (PGM 107)

BTN	DISPLAY	FEATURE	DEFAULT
1	WALKING COS ENTER NEW #:569	Dial code to activate Walking Class-of- Service.	569
2	ACD AGENT ON/OFF DUTY ENTER NEW #:571	Dial code to toggle ACD Agent or Supervisor ON and OFF duty.	571
3	ACD SUPERVISOR LOGIN ENTER NEW #:572	Supervisor login dial code.	572
4	ACD SUPERVISOR LOGOUT ENTER NEW #:573	Supervisor logout dial code.	573
5	ACD HELP CODE ENTER NEW #:574	Agent code requesting Supervisor help and Supervisor Help request Response code.	574
6	ACD CALLS IN QUEUE ENTER NEW #:575	Dial code to display calls in queue.	575
7	ACD SUPERVISOR STATUS ENTER NEW #:576	Dial code to display group status.	576
8	ACD SUPERVISOR MONITOR ENTER NEW #:577	Dial code to activate Supervisor monitor.	577

Table 3.3.2.5-2 FLEXIBLE NUMBERING PLAN PART B (PGM 107)

BTN	DISPLAY	FEATURE	DEFAULT
9	ACD REROUTE QCALL ANS ENTER NEW #:578	Dial code to reroute call after answer.	578
10	ACD REROUTE QCALL NO AN ENTER NEW #:579	Dial code to reroute call prior to answer.	579
11	CAMP-ON ANSWER ENTER NEW #:621	Dial code to answer a Camped On call.	621
12	CALL PARK LOCATIONS START#:#601-#619	Dial code to place/retrieve a call in a Park location. eMG80/100:#601~#619, eMG800:#601~#800	Refer to description
13	STA GRP PILOT NUMBER START #:401-440	Station group pilot numbers. eMG80/100:401~440, eMG800:401~500	Refer to description
14	STA USER VSF FEATURES ENTER NEW #:*66	VSF feature access code.	*66
15	CALL COVERAGE RING ENTER NEW #:76	Code for Call Coverage button.	76
16	DIRECT CALL PICK-UP ENTER NEW #:*77	Dial code to activate Directed Call Pick- up.	*77
17	ACCESS CO GROUP FEAT ENTER NEW #:89	Dial code to access a CO Line or IP channel from a CO/IP group.	89
18	ACCESS IND CO/IP FEAT ENTER NEW #:88	Dial code to access a specific CO Line.	88
19	ACCESS HELD CO/IP FEAT ENTER NEW #:8*	Dial code to access last held CO Line or IP channel from Hold.	8*
20	ACCESS HELD IND CO/IP ENTER NEW #:8#	Dial code to access a specific CO Line/IP channel from Hold.	8#
21	ACCESS CO IN 1ST CO GRP ENTER NEW #:9	Dial code to access the 1st available CO Line in any accessible group.	9

Table 3.3.2.5-2 FLEXIBLE NUMBERING PLAN PART B (PGM 107)

BTN	DISPLAY	FEATURE	DEFAULT
22	ATTENDANT CALL ENTER NEW #:0	Dial code to call an Attendant.	0
23	VM MSG WAIT ENABLE ENTER NEW #:*8	Dial code for external Voice mail to activate Message Wait indication.	*8
24	VM MSG WAIT CANCEL ENTER NEW #:*9	Dial code for external Voice Mail to deactivate Message Wait indications.	*9

Table 3.3.2.5-3 FLEXIBLE NUMBERING PLAN PART C (PGM 108)

BTN	DISPLAY	FEATURE	DEFAULT
1		Dial code to activate Door 1 contact (open door 1)	#*1
2		Dial code to activate Door 2 contact (open door 2).	#*2

Table 3.3.2.5-4 FLEXIBLE NUMBERING PLAN PART D (PGM 109)

BTN	DISPLAY	FEATURE	DEFAULT
1	MCID REQUEST ENTER NEW #:*0	Dial code to activate Malicious Call ID Request in ISDN Supplementary service. Not available in USA version.	*0
2	AME FEATURE ENTER NEW #: 564	Dial code to assign an Answering Machine Emulation Flex button.	564
3	US-CONF TMR EXTENSION ENTER NEW #:##	Dial code to extend Unsupervised conference time.	##
4	PTT GROUP LOGIN/OUT ENTER NEW #:#0	Push-To-Talk group login and logout dial code. The station must have a PTT button for proper operation.	#0
5	ACD AGENT P LOGIN ENTER NEW #:581	ACD Agent Primary Login code.	581
6	ACD AGENT P LOGOUT ENTER NEW #:582	ACD Agent Primary Logout code.	582

Table 3.3.2.5-4 FLEXIBLE NUMBERING PLAN PART D (PGM 109)

BTN	DISPLAY	FEATURE	DEFAULT
7	ACD AGENT S LOGIN ENTER NEW #:583	ACD Agent Secondary Login code.	583
8	ACD AGENT S LOGOUT ENTER NEW #:584	ACD Agent Secondary Logout code.	584
9	ACD AGENT WRAPUP END ENTER NEW #:585	ACD Agent wrap-up end code.	585
10	TNET CM LOGIN/OUT ENTER NEW #:586	When Central Control networking (TNET) is employed, a station can be manually logged in or out of the Central system using this code.	586
11	ENTER INTO CONF-ROOM ENTER NEW #:59	Code for a station to enter a conference room.	59
12	ENTER INTO CONF-GROUP ENTER NEW #:68	Code to open a conference group.	68
13	STATION ICR ENTER NEW #:587	Code to activate Station ICR.	587
14	PICK UP GROUP PICK-UP ENTER NEW #:588	Pick Up Group Call Pick-up dials code.	588
15	EMERGENCY PAGE ENTER NEW #:589	Code for emergency page.	589
16	REMOTE MEX CONTROL ENTER NEW #:580	Code to control the mobile extension settings remotely.	580
17	ALL GR AGENT ON/OFF DUT ENTER NEW #:58*	Code to change the state of the Agent ON/Off duty in all hunt groups.	58*
18	SLT ACNR CODE ENTER NEW #:58#	In SLT, user can ACNR feature by using this numbering plan.	58#
19	ACD SUPERVISOR RING MODE ENTER NEW #:570	Code to check and change ACD group Ring mode by ACD group supervisor.	570

Table 3.3.2.5-4 FLEXIBLE NUMBERING PLAN PART D (PGM 109)

BTN	DISPLAY	FEATURE	DEFAULT
20	COMPANY DIRECTORY NAME ENTER NEW #:563	Code to check and change recording station subscribe name of Company Directory feature	563
21	ISDN SUPP HOLD ENTER NEW #:57*	ISDN Supplementary Service for HOLD.	57*
22	ISDN SUPP CONF ENTER NEW #:57#	ISND Supplementary Service for Conference (Not supported).	57#
23	FORCED SEIZE BUSY STN/CO ENTER NEW #:56*	Busy Station / CO can be connected with entering this Code.	56*
24	ADDED FLEX NUMBER PLAN PRESS FLEX KEY (1-5)		
24-1	OVERRIDE DND/CFW ENTER NEW #:56#	[56#] + Station number, then the station's DND or CFW setting will be overridden.	56#
24-2	CANCEL CALL BACK ENTER NEW #:	It is used to cancel call back.	
24-3	XFER TO VSF ANNC NO ENTER NEW #:55*	When a station is talking over a CO line User, [Transfer] + [55*] + Valid system announcement (01-70), then Outside user can hear system announcement, and system starts DISA service.	55*
24-4	CCR ENTER NEW #:#2	It is used in digit conversion.	#2
24-5	UCS SYS CONF GRP JOIN ENTER NEW #:5*0	It is used to join UCS conference group by entering the code.	5*0

3.3.2.6 8-Digit Table

We can support it more 4 digits for station number. Station numbering should not conflict with numbering plan. It is consist of prefix digits and add digits. Prefix digits can have up to 4 digits and Add digits can have up to 4 digits.

PROCEDURE	
DIGIT 8 TBL ENTER TBL NO(01-10)	Press the [PGM] button and dial 238.
	Use the dial-pad to enter the desired table number.
Digit 8 TBL 1 : Empty	Press the desired Flex button; refer to Table 3.3.2.6-1.
	Use the dial-pad to enter the required data.
	Press the [Save] button to store the data entry.

Table 3.3.2.6-1 8-Digit Table (PGM 238)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TBL 1 : SET 8 digit 8 digit 1:	The user may be allowed to enter the prefix digits using character assign method. (ex: $4+0 \rightarrow 4$)	Up to 4digits	N/A
2	TBL 1: SET ADD DIGIT ADD DIGIT : 0	The user can be allowed to add digits. (ex: if it's set 3, prefix digits + xxx)	Up to 4 digits	0

3.3.3 Station Data –PGM 110-125

3.3.3.1 Station Type -PGM 110

Each station is assigned a type, which is used by the system to recognize the station's capabilities and default Flex button configuration. In addition, for the iPECS DSS/BLF Consoles, the associated station number is identified here. Note that the maximum of three (3) DSS Consoles(LIP DSS & LDP DSS) can be associated and connected to a station.

PROCEDURE		
STATION TYPE ASSIGN ENTER STA RANGE	Press the [PGM] button and dial 110.	
	Use the dial-pad to enter a station range (Ex 100~110). For a single station, enter the same number twice; use this procedure for an iPECS DSS	
100-110 F1:TY F2:ASC	Select Flex button 1, to set the station type and, for iPECS DSS Consoles (types 2~4), Flex button 2 assigns the associated station.	
	Use the dial-pad to enter desired data: - 4-1. For Flex button 1 (TYPE), enter the station TYPE; refer to 3.3.3.1–1.	
111-111 F1:TYPE F2 :ASC DSS MAP2 : STA	- 4-2. For Flex button 2 (Associated station), enter the number of the station used with the console. Flex button 2 is only available for iPECS DSS Consoles (Types 2~4), see Table 3.3.3.1-2 for default configurations.	
	Press the [Save] button to store the data entries.	

Table 3.3.3.1-2 STATION TYPE ASSIGNMENT — (PGM 110)

TYPE	DESCRIPTION
1	IP KEYSET
2	DSS MAP 1
3	DSS MAP 2
4	DSS MAP 3
5	SLT (DTMF)
6	SLT (DTMF) – Voltage Message lamp
7	SLT (DTMF) – FSK Message lamp
8	SLT (DTMF) – Polarity Reversal Message lamp

Table 3.3.3.1-1 CONSOLE BUTTON CONFIGURATION (PGM 110)

MAP	DEFAULT CONSOLE BUTTON CONFIGURATION		
	Button 1: Intrusion	Button 2: All Call Page	Button 3: Call Park 1
	Button 4: Station Group 1	Button 5: Camp-On	Button 6: Internal All Call Page
MAP 1	Button 7: Call Park 2	Button 8: Station Group 2	Button 9: [Release]
	Button 10: Ext. All Call Page	Button 11: Call Park 3	Button 12: Station Group 3
	Buttons 13 ~ 48: Station Ports	100 ~ 135	
MAP 2	Station Ports 136 ~ 183		
MAP 3	Station Ports 184 ~ 231		

3.3.3.2 Station Attributes I to III -PGM 111-113

Station Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 3.3.3.2-1 to Table 3.3.3.2-3 for a description of the features and the input required.

PROCEDURE	
STATION ATT 1 ENTER STA RANGE	Press the [PGM] button and dial: - 111 for Station Attributes I - 112 for Station Attributes II - 113 for Station Attributes III
100-110 STATION ATT 1	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice. Press the desired Flex button; Refer to Table 3.3.3.2-1 to Table 3.3.3.2-3.
PRESS FLEX_KEY (01-24)	Use the dial-pad to enter desired data for the attribute setting, refer to Table 3.3.3.2-1 to Table 3.3.3.2-3. Press the [Save] button to store the data entry.

Table 3.3.3.2-1 STATION ATTRIBUTES I (PGM 111)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 AUTO SPKR (1:ON/0:OFF) : ON	Enables [SPEAKER] activation when a CO/IP, DSS or other feature button is pressed, no need to lift handset.	0: OFF 1: ON	ON
2	100-110 CALL FWD (1:ON/0:OFF) : OFF	Enables Call Forward activation by the station.	0: OFF 1: ON	OFF
3	100-110 DND (0-3) : 0(OFF)	Enables DND activation by the station. 0: OFF, 1: ALL, 2:ICM call only 3:CO call only	Refer to description	OFF
4	100-110 DATA SECURITY (1:ON/0:OFF) : OFF	Disables override and camp-on tones to the station when busy.	0: OFF 1: ON	OFF
5	100-110 HOWLING TONE (1:ON/0:OFF) : ON	Permits Howler tone to be sent to a SLT when left off-hook.	0: OFF 1: ON	ON
6	100-110 NO TCH ANS (1:ON/0:OFF) : OFF	Enables No-touch answer; this will automatically connect transferred calls to the station's speakerphone.	0: OFF 1: ON	OFF
7	100-110 PAGE ACCESS (1:ON/0:OFF) : OFF	Allows station to access paging.	0: OFF 1: ON	OFF
8	100-110 HEADSET RING (1:S/2:H/3:BOTH) : SPKR	This item selects device to receive incoming ring signals, Speaker, Headset or Both.	1: Speaker 2: Headset 3: Both	SPKR

Table 3.3.3.2-1 STATION ATTRIBUTES I (PGM 111)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	100-110 SPKR/HEAD (1:SPKR/0:HEAD): SPKR	Selects Speakerphone mode or Headset mode	0: Headset 1: Speaker	SPKR
10	100-110 LCD DISP LED (1:RING/0:MWI): MWI	The LCD LED, upper left of LCD, may be used for Intercom Call ring Indication or Message Wait Indication.	0: MWI 1: Ring	MWI
11	100-110 LOOP LCR ACCT (1:ON/0:OFF) : OFF	Station based LOOP LCR authorization; this is used for LOOP LCR operation.	0: OFF 1: ON	OFF
12	100-110 CALL COVERAGE (1:ON/0:OFF) : OFF	The Call Coverage feature permits an iPECS Phone user to receive ring and answer calls to other stations.	0: OFF 1: ON	OFF
13	100-110 CALL COVERAGE DELAY RING: 0	When a covered station rings, the {CALL COVERAGE} button LED will flash at the covering station and will receive ring (immediate or delayed, 0 to 9 ring cycles).	0~9	0
14	100-110 OFFNET FWD (1:DIS/0:EN):ENABLE	A station must be allowed Off Net Fwd to forward external incoming calls outside the system or otherwise establish a CO-to-CO connection (Unsupervised Conference). (Except USA version)	0: Enable 1: Disable	Enable
15	100-110 FORCED ICM (1:ON/0:OFF) : OFF	When placing an intercom call, a user can change the ICM signaling mode, Tone Ring to Hands free answer mode or HF Answer to Tone Ring.	0: OFF 1: ON	OFF
16	100-110 ACT PTT GRP ACTIVE PTT GROUP:	A station can be assigned to a PTT group and the group enabled so the station can place and receive PTT announcements for the group.	0~9	
17	100-110 ICM GROUP (01-15): 01	Assigns station to an ICM Tenancy Group, refer to PGM 125. eMG80/100:1~15, eMG800:0~32	Refer to description	1
18	100-100 VMIU/VMIB BOARD USE 1ST VMIU/VMIB	Assigns the VMIU or VMIB where messages for the station are stored.	Sequencen umber.	
19	100-110 SIP UID TBL (000-140) : 000	Index to SIP User ID table, PGM 126, for the station. Note PGM 126 is accessible by Web only.	000-140	000
20	100-110 CAMP ON TONE (1:ON/0:OFF) : ON	Permits camp on tone to be sent to a station when the station receives camp-on request.	0: OFF 1: ON	ON

Table 3.3.3.2-1 STATION ATTRIBUTES I (PGM 111)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
21	100-110 SERIAL DSS (1:EN/0:DIS):ENABLE	Assigns Serial DSS usage authority.	0: Disable 1: Enable	Enable
22	100-110 DLTN (00-37) DIAL TONE (00)	Each station can choose one of below dial tone sources • 00: dial tone, • 01: INT music • 02: EXT music, • 03: VSF MOH • 04~08: SLT MOH1~5, • 09~37: VSF MOH2~30	Refer to description	dial tone
23	100-110 RBTN (00-37) RING BACK TONE (00)	Each station can choose one of below ring back tone sources • 00: ring back tone • 01: INT music • 02: EXT music • 03: VSF MOH • 04~08: SLT MOH1~5 • 09~37: VSF MOH2~30	Refer to description	ring back tone
24	100-110 ATTACH MSG (1:ON/0:OFF) : ON	When e-mail notification of a new VSF message is enabled, (PGM 236-button 7) the e-mail may include the voice mail as a wav file attachment. VSF mail server IP (PGM 113-button18) &VSF Mail Address (PGM 113-button19) are required for proper operation.	0: OFF 1: ON	ON

Table 3.3.3.2-2 STATION ATTRIBUTES II (PGM 112)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 CALL TIME TN (1:ON/0:OFF) : OFF	A tone can be sent periodicallyindicating the elapsed time of anoutgoing CO/IP call. TheElapsed Call Timer (PGM 180-button 19) determines theperiod between tones.	0: OFF 1: ON	OFF
2	100-110 AUTO HOLD (1:ON/0:OFF) : OFF	Enables Auto Hold for thestation. With Auto Hold enabled, the system will place an active external call on hold if the userpresses a CO/IP or DSS button.	0: OFF 1: ON	OFF
3	100-110 TIME RESTRICT (1:ON/0:OFF) : OFF	The system can automatically disconnect outgoing calls at expiration of the Call Restrict timer (PGM 180-button 14).	0: OFF 1: ON	OFF
4	100-110 IND CO ACCESS (1:EN/0:DIS) : ENABLE	Permits stations to use dialcodes to access individual COLines.	0: Disable 1: Enable	Enable

Table 3.3.3.2-2 STATION ATTRIBUTES II (PGM 112)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	100-110 CO/IP QUEUING (1:EN/0:DIS): ENABLE	Permits the station to queue forthe next available Line when anAll Lines Busy signal is received.	0: Disable 1: Enable	Enable
6	100-110 CO PGM (1:EN/0:DIS): DISABLE	A station can be permitted tochange the CO Line numbers(ports) associated with a COLine button.	0: Disable 1: Enable	Disable
7	100-110 RING LINE PRE (1:EN/0:DIS) : ENABLE	Enables Ringing LinePreference for the station. Callsthat ring the telephone areanswered by going off-hook.	0: Disable 1: Enable	Enable
8	100-110 SPD ACCESS (1:EN/0:DIS) : ENABLE	Allows the station access toSystem Speed Dial bins.	0: Disable 1: Enable	Enable
9	100-110 UCD GRP SVC (1:ON/0:OFF) : OFF	When unavailable, DID/DISAcalls to the station can be routedto the ACD Group to which thestation is a member.	0: OFF 1: ON	OFF
10	100-110 RING GRP SVC (1:ON/0:OFF) : OFF	When unavailable, DID/DISAcalls to the station can be routedto the Ring Group to which thestation is a member.	0: OFF 1: ON	OFF
11	100-110 TWO WAY RECD (1:ON/0:OFF) : OFF	When allowed, the station canactivate the Two-way recordfeature to record a conversation.	0: OFF 1: ON	OFF
12	100-110 MSG SCRL SPD (0 - 7): 3	Select message scroll speed forIP phone (Notpresently used).	0 ~ 7	3
13	100-110 HOT DESK STA (1:ON/0:OFF) : OFF	A station can be assigned as aHot Desk phone. Users andagents can login and useresources of the system throughthe Hot Desk phone.	0: OFF 1: ON	OFF
14	100-110 PREFER CO/GRP	The system will seize this COLine or CO group number whenthe station dials '9' (Firstavailable CO access code).	CO # CO Gr. #	
15	100-110 SEND SLT CLI (1:ON/0:OFF) : ON	When allowed, system will sendCLI information to the SLT.	0: OFF 1: ON	ON
16	100-110 UCD PRIORITY (0-9): 0	ACD Group members may beassigned a priority, 0-9.Members with the highestpriority are sent calls ahead oflower priority members. Thisfield is the same as PGM191-button 19 for ACD Groups.	0 ~ 9	0

Table 3.3.3.2-2 STATION ATTRIBUTES II (PGM 112)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
17	100-110 EZ PWD LOGIN (1:ON/0:OFF	For ez ATD. Enables/disablesrequired Auth code use.	0: OFF 1: ON	OFF
18	100-110 EMERGENCY CO	This field defines the CO Line orGroup employed by the systemto place Emergency Assistancecalls. CO #, CO Group #, Transit-out	Refer to description	Any CO
19	100-110 STA ACCOUNT (1:ON/O:OFF) : OFF	When ON, the station user mustenter an authorization code toaccess CO Lines.	0: OFF 1: ON	OFF
20	100-110 AUTO CALL REC (0:OFF/1:ALL/2:CO): OFF	This field enables unconditional recording of all calls placed/received by the station. Recordings, in .wav format, are stored at the UCS Client or Recording Server (IPCR or 3rd party) defined under button 21. Station and CO calls are recorded with ALL.Only CO calls are recorded with CO.	0: OFF 1: ALL 2: CO	OFF
21	100-110 CALL REC DEST	When Unconditional Callrecording is enabled as above, the recording UCSClient station number is definedhere.	station	
22	100-110 VSF BK DEL (1:ON/0:OFF) : OFF	UCS Client maymonitor voice messages foranother station as a backup. The UCS Client willinclude the message count forthe station in the Voice messagecount. When enabled here, the UCS Client maydelete messages for the station.	0: OFF 1: ON	OFF
23	100-110 VSF BK STA	UCS Client maymonitor voice messages foranother station as a backup. UCS Client willinclude the message count forthe station in the Voice messagecount. This field defines the UCS Client station number that will be used as the VMIU/VMIB back up.	station	
24	100-110 VSF BK PROM (1:ON/0:OFF) : OFF	Enables UCSClient to backup VSF Prompts.	0: OFF 1: ON	OFF

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 ADMIN (1:EN/0:DIS) : ENABLE		0: Disable 1: Enable	Enable

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	100-110 VSF ACCESS (1:EN/0:DIS) : ENABLE	Permits station access to the built-in AA/VM.	0: Disable 1: Enable	Enable
3	100-110 GROUP LISTEN (1:EN/0:DIS) : DISABLE	Enables Group Listen feature, audio is sent to both the handset and speaker with the handset microphone active and speakerphone microphone OFF.	0: Disable 1: Enable	Disable
4	100-110 OVERRIDE (1:EN/0:DIS) : DISABLE	Enables intrusion to gain access to an active CO/IP call.	0: Disable 1: Enable	Disable
5	100-110 SMDR HIDE (1:EN/0:DIS) : DISABLE	Enables hiding dialed digits in SMDR output.	0: Disable 1: Enable	Disable
6	100-110 VOICE OVER (1:EN/0:DIS) : ENABLE	Enables use of Voice Over by station.	0: Disable 1: Enable	Enable
7	100-110 PRIME LINE (1:HOT/0:WARM) : WARM	Enables Delayed Prime Line (Idle Line) activation, see PGM 121, Idle Line Selection and PGM 182-button 6 for Prime Line timer.	0: WARM 1: HOT	WARM
8	100-110 ALARM/DOORBEL (1:EN/0:DIS) : DISABLE	Assigns station to receive Alarm/Doorbell signal.	0: Disable 1: Enable	Disable
9	100-110 CALL WAIT (0-3) : For Ext/Int	When a busy station receives a call, the call may queue to the station instead of receiving busy tone. With Call Wait, the caller will hear Ring-back and the user sees the CO line LED flash. If this option is set to a station, and a co-line is ring assigned to the station, second ring assigned call CLI will show in the station's LCD. 0: OFF, 1:For External/Internal 2:For External, 3:For Internal	Refer to description	For External /Internal
10	100-110 LEFT MSG EXEC (1:ON/0:OFF): ON	When a call is forward to the Secretary of an Executive/Secretary pair, messages can beleft for the Executive (ON) or Secretary (OFF).	0: OFF 1: ON	ON
11	100-110 E&MIC HEADSET (1:ON/0:OFF): OFF	Select E&MIC Headset mode.	0: OFF 1: ON	OFF

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
12	100-110 ENBLOCK MODE (1:ON/0:OFF): OFF	When On, the user-dialed digitsare stored at iPECS IP or LDP Phonesuntil explicitly sent by the user. When sent, all dialed digits aresent to the system in a block.En-block mode is only availableto iPECS IP and LDP Phones with 3-Soft keys.	0: OFF 1: ON	OFF
13	100-110 MSG RETRIEVE (1:FIFO/0:LIFO): LIFO	Messages stored in the VSFmay be retrieved in either aFIFO (first-in-first-out) or LIFO(last-in-first-out) order based onthis entry.	1: FIFO 0: LIFO	LIFO
14	100-110 VMID NUMBER 100	When using an adjunct VM, the system can translate the Mailbox number from the user's station number to the assigned VMID. The system sends the station number or VMID to the VM (in-band or SMDI) in order to identify the appropriate Voice Mailbox.	0000-9999	Station #
15	100-110 AUTO ACD-DND ([SPD],0-9,*,#):	If an Agent does not answer an ACD call in the ACD No Answer timer, the Agent enters an Unavailable state with the Reason code entered here. The reason code is sent in the ACD Event message.	0: None #, * 1 ~ 9	None
16	100-110 FWD IF OOS (1:ON/0:OFF) : OFF	If a station is Out-of-Service and has previously forwarded calls, the system will forward the calls, if enabled here.	0: OFF 1: ON	OFF
17	100-110 BACK LIGHT (O:OFF/1:BUSY/2:ON): 1	The backlight of the LIP phones is assigned to stay off, light only when the station is busy, or lightconstantly.	0: OFF 1: Busy 2: ON	Busy
18	100-110 VSF MailSvrIP	The VMIB includes notification of new messages to the user'se-mail. This field displays theuser's e-mail mail server for thenotification. Use Web AdminPGM 132 to modify this value.	IP v4 address Or Mail server name	
19	100-110 VSF Mail Addr	The VMIB includes notification of new messages to the user'se-mail. This field displays thee-mail address to notify when anew message is received at the VMIB. Use Web Admin tomodify this value.	e-mail address	
20	100-110 BLOCK B-CALL (1:ON/0:OFF) : OFF	When an SLT extension tries totransfer a CO call to a CO line itis blocked and the call isreleased.	0 : OFF 1 : ON	OFF

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
21	100-110 BY PASS DTMF (1:ON/0:OFF) : OFF	When detected, DTMF from anSLT may be regenerated by the analog CO line ports, the SLT port can by-passdetection so DTMF is notdetected.	0 : OFF 1 : ON	OFF
22	100-110 PROCTOR MONIT (1:ON/0:OFF) : OFF	Enables use of PABX ANI Linkdevice for E- 911 support, Onlyan SLT can be used for thisfeature.	0 : OFF 1 : ON	OFF
23	100-110 VSF MailSvrID	The VMIU and VMIB includenotification of new messages to the user's voice mail. This fielddefines the user's ID to notifywhen a new message is received at the VMIU or VMIB.		
24	ADDED STATION ATT3 PRESS FLEX KEY (01-24)		01-24	
24-1	100-110 VSF MailSvrPW	Unified Mail server password		
24-2	100-110 DOOR OPEN (1:EN/0:DIS) : ENABLE	Enables use of Door open feature by station - Default value : Australia : Disable except for port 1or2 Otherwise : Enable	0: Disable 1: Enable	Enable
24-3	100-110 VSF MSG DD/TM (1:ON/0:OFF) : ON	When ON, play the date/timestamp of VSF message.	0 : OFF 1 : ON	ON
24-4	100-110 OGM DEST NOT ASSIGNED	Assign Mail box destination. When a user dial attendant code ('0' or '9'), if it is assigned then the call will be delivered to assigned mail box destination instead of attendant. If it is not assigned then the call will be delivered to attendant.		Not Assigned
24-5	100-110 VSF DEL MSG (1:ON/0:OFF) : OFF	When ON, delete VSFmessages when send UMSe-mail notification.	0 : OFF 1 : ON	OFF
24-6	100-110 VM PWD CHECK (0-2) : STN&PWD	When ON, check password when a user access to the VSF messages. O: No Password 1: PWD only 2: station number and Password	Refer to description	station number and Password

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-7	100-110 BARGE IN MODE (0-2) : DISABLE	Barge in permits an authorizedextension to intrude into otherexisting outside/internal calls orto disconnect existing callforcedly. O: Disable- Barge In is disabled. 1: Monitor- Barge In monitors other conversation. 2:Monitor&Join & Disconnect - Barge In monitorsjoin and Forced Disconnect.	Refer to description	Disable
24-8	100 – 110 SLT FLASH MODE (0-3) : FLASH TRANSFER	 SLT Flash works as followingoption. 0: Flash Transfer– Flashdetected, then the line is heldand the line goes to waitingstate. 1: Flash Drop - Flash detectedand Line is disconnected. 2: Flash Ignore– Flashdetected, but Ignored. 3: Hold Release– Flashdetected, then the line is heldand the line goes to waitingstate. And the SLT user goes onhook, then the held line is disconnected, not recalling. 	Refer to description	Transfer
24-9	100 – 110 RLS COST DISP (1:ON/0:OFF) : OFF	When CO line is released, according to admin option, call-cost or disconnection-causecan be displayed to user LCD.	0 : OFF 1 : ON	OFF
24-10	100 – 110 LDT TBL INDEX (00-10) : 01	LCR will be operated with thisLDT table index	Number of LDT Table	1
24-11	100 – 110 WEB CALL BACK (1:EN/0:DIS) : DISABLE	Enable Web call back service. When enabled, call back service on station web admin could be used.	0: Disable 1: Enable	Disable
24-12	100 – 110 VSF SMTP SECU (0-2) : NO SECUTIRY	Security for VSF mail sendingcan be chosen. 0: No Security, 1: SSL, 2: TSL	Refer to description	NoSecurit y
24-13	100 – 110 VSF SMTP PORT (00001-65535) : 00025	When VSF mail sending, SMTPport can be program.	00001 – 65535	25
24-14	100–110 VSF S-MAILADDR	When VSF mail sending, SenderMail Address can be program.		
24-15	100 – 110 PREPAID CALL (1:ON/0:OFF) : OFF	Enable prepaid call service.	0: OFF 1: ON	OFF

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-16	100–110 PREPAID MONEY 000000	Prepaid Money can be entered. By Call Metering signal, pre-paidmoney can be calculated.	000000 - 999999	0
24-17	100 – 110 DEFAULT VM NO	Default VM group numberused when users press the [Msg/Call Back]button and there is no message.		
24-18	100 – 110 SLT MODE (0-3) : DEFAULT	SLT configuration mode.SLT gain is changed cording tothis configuration. It is used only for South Africa.	0: Default 1: Short 2: Long 3: Far	Default
24-19	100 – 110 OFF HOOK RING (0-3) : REFER TO SYS	Off hook ring type could be selected by station base. 0: BURST, 1: MUTE, 2: SYSTEM, 3:SILENCE	Refer to description	SYSTEM
24-20	100–110 SIP COLOR RING	Color ring is provided from assigned SIP VM (UMS). SIP extension number that is connected to SIP VM (UMS) server should be assigned.		
24-21	100 – 110 FORCED ACNT (1:ON/0:OFF) : OFF	User should enter an Account Code prior to placing an outgoing call when this value has "ON".	0: OFF 1: ON	OFF
24-22	100 – 110 FLEX BTN PGM (1:ON/0:OFF) : ON	A user can program Flex buttons at station.		ON
24-23	100 – 110 STNWEB_LEVEL (1-3) : LEVEL 1	There are 3 access levels that can be assigned to station. The station with level 1 can view/access all programs in station web. The station with level 2/3 follows Station Web Authorization menu (System Data -> Station Web Authorization).	LEVEL 1 ~ LEVEL 3	LEVEL 1
24-24	100 – 110 HEADSET PAGE (1:S/2:H/3:BOTH): SPKR	Paging is provided on selected devicewhile in the headset mode. 1:SPKR, 2:HEADSET, 3.Both	Refer to description	1: SPKR

3.3.3.3 Station Attributes IV -PGM 114

When a station uses an ISDN Line, various parameters relating to ISDN Calling Line Identification and Connected Line Identification can be assigned for each station.

In addition, when the station is an SLT, several parameters must be set to indicate the capabilities related to the station, such as 3.1 KHz audio for ISDN use. Refer to Table 3.3.3.3-1 for a description of the attributes and the inputs available.

PROCEDURE	
STATION ATT 4 ENTER STA RANGE	Press the [PGM] button and dial 114.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single
l	station, enter the same number twice.
100-110 STATION ATT4	Press the desired Flex button; refer to Table 3.3.3.3-1.
PRESS FLEX_KEY (01-24)	Use the dial-pad to enter desired data for the attribute, refer to Table
	3.3.3.3-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT	
1	100-110 CLIP DISPLAY (1:ON/0:OFF): OFF	CLIP (Calling Line Identification Presentation), an ISDN service, sends the number of the calling party to the system in the call SETUP message. If enabled here, the number will be shown in the iPECS Phone LCD.	0: OFF 1: ON	OFF	
2	100-110 COLP DISPLAY (1:ON/0:OFF): OFF	COLP (Connected Line Id Presentation), an ISDN service, sends the number of the answering party to the system in the call CONNECT message. If enabled here, the number will be shown in the iPECS Phone LCD.	0: OFF 1: ON	OFF	
3	100-110 PROGRESS IND (1:ON/0:OFF): OFF	ISDN call SETUP message must include			
4	100-11- CLIR SERVICE (1:ON/0:OFF): OFF	CLIR (Calling Line Identification Restriction), an ISDN service, removes calling party Id sent from the PSTN to the called party with a RESTRICT instruction in the SETUP message. If enabled here, the system will send the RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	0: OFF 1: ON	OFF	

Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT			
5	100-110 COLR SERVICE (1:ON/0:OFF): OFF	COLR (Connected Line Id Restriction), an ISDN service, removes connected party Id sent from the PSTN to the calling party with a RESTRICT instruction in the CONNECT message. If enabled here, the system will send the restrict instruction to the PSTN when the station answers an ISDN call.	0: OFF 1: ON	OFF			
6	100-110 STN CLI 1 100	When not restricted (button 4 & 5 above) and entry 00 of the CLIP/CLOP Table is					
7	100-110 3.1 kHz AUDIO (1:ON/0:OFF): OFF	When an analog device (SLT or FAX) uses an ISDN Line in the system, the Information Element of the ISDN SETUP message must indicate it only has 3.1 KHz audio capabilities. If a SLT or analog FAX will be allowed access to the ISDN Lines, this parameter must be "ON".	0: OFF 1: ON	OFF			
8	100-110 CLI NAME DISP (1:ON/0:OFF): OFF	When the CLI data from the PSTN in the call SETUP message matches a number in Speed Dial, the system can display the name associated with the Speed Dial bin, if set to ON.	0: OFF 1: ON	OFF			
9	100-110 CLI/REDIRECT (1:RED/0:CLI) : CLI	When an incoming ISDN call is Redirected by the ISDN, the call SETUP message will contain an original and redirected CLI. This selection determines if the iPECS Phone will display the original or redirected number.	0: CLI 1: Redirect	CLI			
10	100-110 CLI MSG-WAIT (1:ON/0:OFF): OFF	A log of caller identification canbe maintained for the user, permitting the user to call backthe identified party. System-wide, up to 1000 entriescan be maintained in the log.	0: OFF 1: ON	OFF			
11	100-110 EXTOR ATD (1:ATD/0:EXT) : EXT	When the system sends astation number with CLIP or COLP, the number can be eitherthe Attendant number or thenumber of the station.	0: EXT 1: ATD	EXT			

Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
12	100-110 MSN WAIT (1:ON/0:OFF): OFF	When a call that is corresponding to a MSN Telephone Number comes in to system, the call is basically routed to idle stations that have free MSN button that is assigned for the corresponding Telephone Number. And also the call can be routed to busy stations in the following condition. OFF: if a keyset is in a busy status, cannot receive incoming MSN Telephone Number corresponding call even though it has a free(idle) corresponding MSN LOOP Button ON: if a keyset is in a busy status, can receive incoming MSN Telephone Number corresponding call if it has a free(idle) corresponding MSN LOOP Button	0: OFF 1: ON	OFF
14	100-110 DID RESTRICT (1:ON/0:OFF): OFF	Enable station receive DID call.	0: OFF 1: ON	OFF
15	100-110 DISA RESTRICT (1:ON/0:OFF): OFF	Enable station receive DISA call.	0: OFF 1: ON	OFF
17	100-110 MODEM ENABLE (1:ON/0:OFF): OFF	It is used to set modem attributes.	0: OFF 1: ON	OFF
18	100-110 FAST XFER CLI (1:ORI/0:TRN) : TRN	If a user transfers a CO call with CLI to SLT or DECT, CO CLI can be seen instead of station number when this option is set to ORI.	0: TRN 1: ORI	TRN
20	100-110 PICKUP BY BTN (1:ON/0:OFF): ON	It is used to set pick up by flex button.	0: OFF 1: ON	ON
21	100-110 MULTI LANG (1-6):PROMPT1 A.AMERICA	Selected language prompt is played to the user when accessing the VMIU or VMIB. The range is as below 1: US, 2:KOREA, 3:TURKIYE 4:RUSSIA, 5:AUTRALIA, 6:GERMANY	Refer to description	1
22	100-110 P-MSG DND (1:ON/0:OFF) : OFF	If it is ON, the pre-selected station doesn't receive the ring and the caller hears DND tone.	0: OFF 1: ON	OFF

Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
23	100-110 P-MSG LANG (1-6):PROMPT1 U.S	Select voice enabled preselected message for a station playing toward an incoming CO call. The range is as below 1: US, 2:KOREA, 3:TURKIYE 4:RUSSIA, 5:AUTRALIA, 6:GERMANY	Refer to description	1
24	ADDED STATION ATT4 PRESS FLEX KEY (01-23)			
24-1	100-110 STN CLI 2	Station CLI 2 can be programmed. If a CO line is set to Station CLI 2, then this CLI is used for outgoing CLI.	16 Chars	None
24-2	100-110 STN CLI 3	Station CLI 3 can be programmed. If a CO line is set to Station CLI 3, then this CLI is used for outgoing CLI.	16 Chars	None
24-3	100-110 STN CLI 4	Station CLI 4 can be programmed. If a CO line is set to Station CLI 4, then this CLI is used for outgoing CLI.	16 Chars	None
24-4	100-110 STN CLI 5	Station CLI 5 can be programmed. If a CO line is set to Station CLI 5, then this CLI is used for outgoing CLI.	16 Chars	None
24-5	100-110 SLT CID TYPE (0:FSK./1:DTMF) : FSK	SLT can send CID by programming options.	0:FSK 1:DTMF	FSK
24-6	100-110 WAKEUP ANNC 00	Wakeup Announce can be programmed.	0-200	0
24-7	100-110 CAMP ON ENABLE (1:ON/0:OFF): ON	If it is ON (enabled) then this station will receive camp on. But if it is OFF(Disabled) then this station will not receive camp on by other person.	0: OFF 1: ON	ON
24-8	100-110 GAIN TBL (1-3): 1	TDM gain table can be programmed.	1-3	1
24-9	100-110 TONE TBL (1-5) : 1	Tone table can be programmed.	1-5	1
24-10	100-110 DGT CONV TBL (01-15) : 00	Set the digit conversion table. eMG80/100:1-15, eMG800/UCP:1-32	Refer to description	0

Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-11	100-110 VIDEO ON CALLING (1:ON/0:OFF): OFF	Video show to called party when calling (ex. IP Video Door Phone)	0: OFF 1: ON	OFF
24-12	100-110 E.164 CLI TO (1:ON/0:OFF): OFF	Send CLI with E.164 format if it is ON.	0: OFF 1: ON	OFF
24-13	100-110 FLEX PAGE (1-3): 3 PAGE	Some newly supported stations have physical flex buttons & also have flex button pages. That means a station have 8 physical flex button and have 3 flex button pages, then total 24 flex buttons are available. The Navigation Up/Down button is used to scroll through the Flex buttons pages assigned. This feature is supported as below types. LIP-9030, LIP-9040 LIP-9071 1020i, 1030i, 1040i, 1050i, 1080i	1-3 1-4(9071, 1080i)	3 PAGE
24-14	100-110 ALIGN LCD (0-2) : NOT ALIGN	For the iPECS LIP 9000 series and 1000i series, character alignment for messages to	0: Not align 1: Left 2: Right	Not Align
24-15	100-110 TWOWA REC AN 00	The two way record announcement can be recorded to play to the station as Announcement.	0-200	00
24-16	100-110 LDT ZONE (001-100) : 001	If the LDT Zone Number of a LDT table (LCR LDT(221)) is equal to this value, the LDT table is available to this CO Line.	001-100	001
24-17	100-110 ECM FAX(T.38) (1:ON/0:OFF): ON	ECM stands for Error Correction Mode. If you failed to send something via Faxes, you can send it again until it is successful.	0: OFF 1: ON	ON
24-18	100-110 DISP RESTRICT (1:ON/0:OFF): OFF	When {Display Restricted Caller Number} in CLI Attributes(113) of a station is ON, Although the caller number is restricted in ISDN message, the ringing station displays the caller number.	0: OFF 1: ON	OFF
24-19	100-110 SMALL WIN USE (1:ON/0:OFF): OFF	If this option is set to ON, small popup is displayed on the LCD of LIP-9030/9040 and 1010i/1020i/1030i/1040i/1050i. If it is set to OFF, top bar is displayed instead of small popup.	0: OFF 1: ON	OFF

Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

вти	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-20	100-110 LARGE WIN TMR (0-5): 0	When Large popup timer is set to any value from 1 to 5 except 0, the display of large popup is disappeared after the timer expired and then the large popup information is displayed at top bar.	0-5	0
24-21	100-110 MWI LED (0-4) : ALL MWI	User can program Message wait lamp for each type, refer to the range. 0: All MWI, 1: VM MWI, 2: CLI MWI, 3: SMS MW, 4: ICM MWI	Refer to description	ALL MWI
24-22	100-110 NFC AUTH USE (1:ON/0:OFF): ON	If this option is ON, User enters Authorization code to use NFC function only for LIP-9071.	0: OFF 1: ON	ON
24-23	only for LIP-9071. If this value of SLT is ON, SLT is the modem mode in seizing a co line. When the CO line is CO Board, the {short modem timer} is starting when the SLT seizes the CO line. And if the {short modem timer} is expired, the SLT goes to the original mode. When the CO line is ISDN, the {short modem timer} is starting after receiving the ISDN connect message. And if the {short modem timer} is expired, the SLT goes to the original mode.		0: OFF 1: ON	OFF

3.3.3.4 Flexible button Assignment -PGM 115

Each Flex button for each iPECS IP and LDP Phone, and DSS Console is assigned a function (Type) and an associated Value as shown in Table 3.3.3.4-1.

For assignments to an DSS Console, the **[VOL UP]/[VOL DOWN]** buttons shift the Flex button appearance on the Admin station to the next or previous group of 24 buttons as they appear on the iPECS DSS Console.

When multiple DSS Consoles are associated with a station, **[VOL UP]/[VOL DOWN]** are used to access and assign a function to the console buttons. Each console contains entries for 48 buttons even though the console may only have 12 buttons. In this case, assignments for buttons 13 to 48 are ignored.

Table 3.3.3.4-2 shows the default button assignments for the iPECS IP and LDP Phones and Table 3.3.3.4-3 and Table 3.3.3.4-6 provides default assignment for the various DSS Console button maps.

PROCEDURE	
FLEX BUTTON ASSIGN ENTER STA RANGE	Press the [PGM] button and dial 115.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button (1~24).
100-110 BTN ASSIGN PRESS FLEX_KEY (1-24)	Use the dial-pad to enter the desired button TYPE (1~6) and value, if required. • Refer to Table 3.3.3.4-1 for types and value range. • Defaults for the iPECS IP and LDP Phones are shown in Table 3.3.3.4-2, for DSS Console defaults refer to Table 3.3.3.4-3. In addition, for the DSS Console, use [VOL UP]/[VOL DOWN] buttons to access the next/previous 24 flex buttons.
	Press the [Save] button to store the Flex button data entry.

Table 3.3.3.4-1 FLEX BUTTON TYPE & VALUE CODES (PGM 115)

TYPE	DESCRIPTION	Remarks			
1	Empty Button	Empty (unassigned) button, may be defined by the user.			
2	User Program Fixed Numbering				
	Plan Fixed Numbering Plan, Appendix A.				
3	{[SPEED] XXX}	Station or System Speed Dial bin.			
4	Florible Numbering Plan Code	Assigns button to dial a code from the Flexible Numbering Plan,			
4	Flexible Numbering Plan Code	see Appendix B.			
5	Station or Network Station	Assign network station number from network table.			
6	MSN	Enter desired MSN Table index.			
7	U-LOOP	U-Loop button for call wait of internal & external call			

Table 3.3.3.4-2 iPECS IP & LDP PHONE BUTTON DEFAULT CONFIGURATION (PGM 115)

DTN		iF	PECS LDP Phone	e(9000/7000 Seri	es)	
BTN	9030	9008	7004	7008	7016	7024
1	{CO 1}	{CO 1}	Trans/ PGM*	DND	{CO 1}	{CO 1}
2	(CO 2)	{CO 2}	Speed*	Call Back	{CO 2}	{CO 2}
3	(CO 3)	{CO 3}	{LOOP}	{LOOP}	(CO 3)	{CO 3}
4	(CO 4)	{CO 4}	{LOOP}	{LOOP}	(CO 4)	{CO 4}
5	(CO 5)	(CO 5)		empty	(CO 5)	(CO 5)
6	(CO 6)	(CO 6)		empty	(CO 6)	(CO 6)
7	(CO 7)	{CO 7}		empty	(CO 7)	{CO 7}
8	(CO 8)	{LOOP}		empty	(CO 8)	{CO 8}
9	(CO 9)	empty			(CO 9)	{CO 9}
10	(CO 10)	empty			(CO 10)	{CO 10}
11	{LOOP}				{LOOP}	{LOOP}
12	{LOOP}				{LOOP}	{LOOP}
13	empty				empty	empty
14	empty				empty	empty
15	empty				empty	empty
16	empty				empty	empty
17	empty					empty
18	empty					empty
19	empty					empty
20	empty					empty
21	empty					empty
22	empty					empty
23	empty					empty
24	empty					empty

DTM			iPEC	S IP Phone	(7000/800	0/8000E s	eries)		
BTN	8004	8008	8012	8024	8040	7004	7008	7016	7024
1	{CO 1}	{CO 1}	{CO 1}	{CO 1}	{CO 1}	Trans/ PGM*	DND	{LOOP}	{CO 1}
2	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{LOOP}	{LOOP}	empty	{CO 2}
3	{CO 3}	{CO 3}	{CO 3}	{CO 3}	{CO 3}	{LOOP}	{LOOP}	empty	{CO 3}
4	{CO 4}	{CO 4}	{CO 4}	{CO 4}	{CO 4}		empty	empty	{CO 4}
5		{CO 5}	{CO 5}	{CO 5}	{CO 5}		empty	empty	{CO 5}
6		{CO 6}	{CO 6}	{CO 6}	(CO 6)		empty	empty	{CO 6}
7		{CO 7}	{CO 7}	{CO 7}	{CO 7}		empty	empty	{CO 7}
8		{LOOP}	{CO 8}	{CO 8}	(CO 8)			empty	{CO 8}
9			{CO 9}	{CO 9}	{LOOP}			empty	{CO 9}
10			(CO 10)	(CO 10)	{LOOP}			empty	(CO 10)
11			{LOOP}	{LOOP}				empty	{LOOP}
12			{LOOP}	{LOOP}				empty	{LOOP}
13				empty				empty	empty

BTN	iPECS IP Phone (7000/8000/8000E series)								
	8004	8008	8012	8024	8040	7004	7008	7016	7024
14				empty				empty	empty
15				empty				empty	empty
16				empty				empty	empty
17				empty					empty
18				empty					empty
19				empty					empty
20				empty					empty
21				empty					empty
22				empty					empty
23				empty					empty
24				empty					empty

DTM	iPECS IP Phone (9000 series)							
BTN	9002	9010	9020	9030(8/24)	9040(12/36)	9070(48)		
1	{LOOP}	{CO 1}	{CO 1}	{CO 1}	{CO 1}	{CO 1}		
2	{LOOP}	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{CO 2}		
3		{CO 3}	{CO 3}	{CO 3}	{CO 3}	{CO 3}		
4		{CO 4}	{CO 4}	{CO 4}	{CO 4}	{CO 4}		
5		{LOOP}	{CO 5}	{CO 5}	{CO 5}	{CO 5}		
6			{CO 6}	(CO 6)	{CO 6}	{CO 6}		
7			{CO 7}	{CO 7}	{CO 7}	{CO 7}		
8			{CO 8}	{CO 8}	{CO 8}	{CO 8}		
9			{LOOP}	(CO 9)	{CO 9}	(CO 9)		
10			{LOOP}	(CO 10)	{CO 10}	{CO 10}		
11				{LOOP}	{LOOP}	{LOOP}		
12				{LOOP}	{LOOP}	{LOOP}		

DTN	iPECS IP Phone (1000i series)								
BTN	1010i	1020i	1030i	1040i	1050i	1080i			
1	{LOOP}	{CO 1}	{CO 1}	{CO 1}	{CO 1}	{CO 1}			
2	{LOOP}	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{CO 2}			
3		{CO 3}	{CO 3}	{CO 3}	{CO 3}	{CO 3}			
4		{CO 4}	{CO 4}	{CO 4}	{CO 4}	{CO 4}			
5		{LOOP}	{CO 5}	{CO 5}	{CO 5}	{CO 5}			
6			{CO 6}	{CO 6}	{CO 6}	{CO 6}			
7			{CO 7}	{CO 7}	{CO 7}	{CO 7}			
8			{CO 8}	{CO 8}	(CO 8)	{CO 8}			
9			{LOOP}	{CO 9}	(CO 9)	{CO 9}			
10			{LOOP}	{CO 10}	(CO 10)	{CO 10}			
11			·	{LOOP}	{LOOP}	{LOOP}			
12				{LOOP}	{LOOP}	{LOOP}			

NOTE: These button definitions cannot be changed.

Table 3.3.3.4-3 IP CONSOLE BUTTON CONFIGURATION

MAP	DEFAULT CONSOLE BUTTON CONFIGURATION					
	Button 1: Intrusion	Button 2: All Call Page				
	Button 3: Call Park 1	Button 4: Station Group 1				
	Button 5: Camp-On	Button 6: Internal All Call Page				
MAP 1	Button 7: Call Park 2	Button 8: Station Group 2				
	Button 9: [Release]	Button 10: Ext. All Call Page				
	Button 11: Call Park 3	Button 12: Station Group 3				
	Buttons 13 ~ 48: Station Ports 100 ~ 135					
MAP 2	Station Ports 136 ~ 183					
MAP 3	Station Ports 184 ~ 231					

3.3.3.5 Station Class-of-Service - PGM 116

All stations are assigned a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls, refer to Table 3.3.3.5-1. Separate COS assignments are made for Day, Timed and Night Mode system operation. As a default, all stations are assigned with a Station COS of 1, no restrictions for all three modes. The station COS interacts with the CO Line COS to establish overall dialing or Toll restrictions. This interaction and the resulting restrictions are given in Table 3.3.3.5-2.

Long distance calls are determined by the 1st dialed digit ("0") and/or the number of digits dialed. If the 1st digit dialed is an LD code, default "0", or, if the number of digits dialed exceeds the assigned LD digit counter (SMDR Attributes PGM 177 button 4), the call is consider a Long Distance call and appropriate restrictions are applied.

PROCEDURE	
STATION COS ENTER STA RANGE	Press the [PGM] button and dial 116.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
100-110 STATION COS DAY=01 NIGHT=01 TIMED=01	Press desired Flex button, - 1: Day mode COS - 2: Night mode COS - 3: Timed mode COS
	Use the dial-pad to enter desired data for the Station COS, refer to Table 3.3.3.5-1 & Table 3.3.3.5-2. Press the [Save] button to store the data entry.

Table 3.3.3.5-1 STATION CLASS-OF-SERVICE (PGM 116)

STATION COS	RESTRICTIONS
1	No restrictions are placed on dialing from the station.
2	The assignments in Exception Table A are monitored for allow and deny numbers.
3	The assignments in Exception Table B are monitored for allow and deny numbers.
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.
5	The leading digit dialed cannot be a Long Distance code, default "0", and further denied/allowed based on Exception Table C.
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 8 digits, and further denied/allowed based on Exception Table C.
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.
8	The assignments in the Exception Table D are monitored for allow and deny numbers.
9	The assignments in the Exception Table E are monitored for allow and deny numbers.
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.

Table 3.3.3.5-2 STATION/CO LINE COS TOLL RESTRICTIONS (PGM 116)

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS	No Restriction	No Restriction	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction

3.3.3.6 CO/IP Group Access - PGM 117

Stations can be allowed or denied access to CO Lines and IP Channels by group(eMG80/100: 20 /eMG800:200), refer to CO Line Attributes, PGM 141, button 1.

As a default, all stations are allowed access to all groups except Private Lines (group 00) and unused CO Lines.

The CO Line of an RSGM is assigned as a Private Line by default.

PROCEDURE	
CO/IP GROUP ACCESS ENTER STA RANGE	Press the [PGM] button and dial 117.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
100 – 110 CO/IP GRP PRESS FLEX KEY (01-20)	The first 20 Flex button LEDs indicate group access for eMG. Press the desired Flex button to toggle CO/IP Group access, - LED on: group access allowed - LED off: group access not allowed
	Press the [Save] button to store the data entry.

3.3.3.7 Internal Page Zone Access – PGM 118

Each iPECS IP and LDP Phone is assigned to receive announcements from each Internal Page Zone.

A station can be assigned to any, all or no zones. Note a remote station or a station not assigned to any Internal Zone will not receive any page announcements including Internal All Call.

As a default, all stations except remote stations are assigned to zone 1.

PROCEDURE	
INTERNAL PAGE ZONE ENTER STA NUMBER	Press the [PGM] button and dial 118.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	The LEDs indicate the status for Page Zones 1 to 24, Use the [VOL
100-110 I-PAGE ZONE	UP]/[VOL DOWN] button to display Page Zones 25 to 35.
PRESS FLEX KEY (001-024)	Press the desired Flex button to toggle Internal Page Zone assignments,
	- LED On: station receives announcement
	- LED Off: station does not receive announcement.
	Press the [Save] button to store the Page Zone data.

3.3.3.8 PTT (Push-To-Talk) Group Access - PGM 119

Each iPECS Phone is assigned to receive PTT announcements from any combination of the nine PTT groups. Note remote stations and stations not assigned to a group will not receive PTT page announcements including All PTT group page.

As a default, all stations except remote stations are assigned to group 1.

PROCEDURE	
PTT GROUP ACCESS ENTER STA NUMBER	Press the [PGM] button and dial 119.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
100-110 PTT GRP ACC PRESS FLEX_KEY (01-10)	The first 10 Flex button LEDs indicate assigned zones. Press the desired Flex button to toggle Push-To-Talk group assignments, - LED On: station receives announcement - LED Off: station does not receive PTT announcement Flex button 10 assigns group 0, all groups.
	Press the [Save] button to store the PTT group data.

3.3.3.9 Preset Call Forward – PGM 120

This assignment allows an external or internal call to initially ring at a station and forward to a pre-determined destination. Preset Call Forward can be assigned separately for internal and external calls forwarding for all calls (Unconditional), Internal Busy, No-Answer or DND, or External Busy, No-Answer or DND. Calls can set as Preset Forward to a Station, Hunt group, System Speed dial for Off-net, or Station ICR. For the "Transfer to Mail-Box" enter the Station Group number of the Voice Mail group (external VM, VSF or Feature Server Voice Mail group). This will permit other iPECS IP Phone and LDP users to transfer a call directly to the desired user's Voice Mail-Box.

PROCEDURE	
CALL FWD PRESET ENTER STA RANGE	Press the [PGM] button and dial 120.
100 – 110 STA PRES FWD CONDITION CHOICE (F1 –F8)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
F1:S F2:H F3:SPD F4:ICR UNCONDITION:	Press Flex Button for the desired type of forward: - 1. Unconditional - 2. Internal Busy - 3. Internal No Answer - 4. External Busy - 5. External No Answer - 6. Transfer to Mailbox (destination must the VM Group). - 7. Internal DND - 8. External DND
ENTER FWD STA NO. UNCONDITION : STA	Select Flex button for the Destination type: - 1. Station - 2. Hunt Group - 3. System Speed Bin for Off-net - 4. Station ICR Use the dial pad to enter the value associated with the selected type: - For Station & Net Station, enter station number, - For Hunt Group, enter Station Group Number, - For System Speed Bin for Off-Net enter Speed bin number. Press the [Save] button to store the data entry.

3.3.3.10 Idle Line Selection - PGM 121

When a station goes to an off-hook condition (lifts handset or presses **[SPEAKER]** button), the system normally provides intercom dial tone.

In place of the dial tone, the station can be programmed to access a CO Line, CO/IP Group or call a Station or Station Group as described in Table 3.3.3.10-1. The Idle Line Selection (Prime Line) can be either immediate or delayed after going off-hook.

The immediate/delay selection is based on the Hot/Warm assignment in Station Attributes III Prime Line PGM 113, button 7 and System timers PGM 182, button 6.

PROCEDURE	
IDLE LINE SELECTION ENTER STA RANGE	Press the [PGM] button and dial 121.
100 110 151 5 1 115	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
100-110 IDLE LINE NOT ASSIGNED (1-7)	Use the dial-pad to enter the type and value for the desired Idle Line selection, refer to Table 3.3.3.10-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.10-1 IDLE LINE SELECTION TYPE & VALUE (PGM 121)

TYPE	VALUE	DESCRIPTION
1	Flex button	Flex button, activates Flex Number as if dialed.
2	CO line	CO/IP path seizes CO line.
3	CO group	CO/IP Group seizes CO line from the CO/IP Group.
4	Station	Station, calls the assigned station
5	Hunt Group	Call to Hunt Group
6	Station Speed	Call to Station Speed
7	System Speed	Call to System Speed

3.3.3.11 Station IP Attributes - PGM 122

Stations are allowed access to the systems H.323 VoIP resources based on the Station IP Attributes. Refer to Table 3.3.3.11-1 for a description of the attributes and the inputs available.

PROCEDURE	
STATION IP ATTRIBUTE ENTER STA RANGE	Press the [PGM] button and dial 122.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
100-110 STA IP ATT	Press the desired Flex button; refer to Table 3.3.3.11-1.
PRESS FLEX KEY (1)	Use the dial-pad to enter desired data for the Station IP Attribute, refer to
	Table 3.3.3.11-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.11-1 STATION IP ATTRIBUTES (PGM 122)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 DTR IP CALL	Enables station to access an IP channel directly by dialing the IP Group access code to place H.323 or SIP VoIP calls.	iu: Disable	Enable

3.3.3.12 Station Timers – PGM 123

Certain timers can be assigned on a station basis. Available timers, description and valid inputs are given in Table 3.3.3.12-1.

PROCEDURE	
STATION TIMERS ENTER STA RANGE	Press the [PGM] button and dial 123.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
100-110 STATION RANGE	Press the desired Flex button.
PRESS FLEX KEY (1-2)	Use the dial-pad to enter desired data for the Station IP Attribute, refer to
	Table 3.3.3.12-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.12-1 STATION TIMERS (PGM 123)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	STA FWD NO ANS TMR (sec) (000-600) : 000	This timer determines the duration the station will ring prior to Ring-No-Answer Forward. This setting affects both manual and Preset Call Forward and overrides the System Ring No Answer timer PGM 181-button 1.	000-600 seconds	000
2	CUT OFF (Min) (00-99): 00	Allowed length of CO/IP calls when station is assigned Call Time restriction in Station Attributes II, PGM 112, button 3	00-99 minutes	00

3.3.3.13 Linked Station Table - PGM 124

A station can be linked to another station so that the two stations effectively act as a single station with the attributes of the primary station number.

An unregistered or registered station may be linked to a primary station. When unregistered station linking is used, the linked station does not reduce the system's capacity.

PROCEDURE	
LINKED STA TABLE ENTER STA NUMBER	Press the [PGM] button and dial 124.
	Use the dial-pad to enter primary station number for the Linked pair. (Ex. 110).
STA 110 IS LINKED PAIR	Press the desired Flex button.
PRESS FLEX KEY (1-3)	Use the dial-pad to enter desired data, refer to Table 3.3.3.13-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.13-1 LINKED STATION ATTRIBUTES (PGM 124)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	SET IP ADDRESS IP: IP NOT ASSIGNED	IP Address of the linked station not required.	
2	ROUTER IP ADDRESS IP: ROUTER IP NOT ASSIGN	Set Router IP address associated with linked station.	
3	Set MAC address of linked un-registered station, required data. Note the secondary station must not be registered in the system prior to linking. If needed, delete the device from the system.		

3.3.3.14 ICM Tenancy Group - PGM 125

Stations can be assigned to an ICM Tenancy group under Station Attributes II PGM 111, button 17. Up to 15 Tenant groups for eMG80/100 and up to 32 for eMG800 can be defined. Each group is configured to allow or deny placing intercom calls to stations in other groups and an Attendant station can be defined for each group. The Attendant will receive "dial 0" calls and controls Day/Night mode for the Group.

PROCEDURE	
ICM TENANCY GROUP ENTER GRP NUMBER (01-15)	Press the [PGM] button and dial 125.
	Use the dial-pad to enter the group number (Ex. 01)
	Press the desired Flex button; refer to Table 3.3.3.14-1.
	For Attendant assignment, use the dial-pad to enter the station number of
	the Group Attendant.
ICM TENANCY GRP 01	To assign accessible ICM Tenancy groups for the group, the Flex button
F1:ATD F2:ACCESS	indicates the current Tenant group access. Press the Flex.
	Buttons to toggle Group access settings.
	- LED ON: group access allowed
	- LED OFF: group access denied
	Press the [Save] button to store the data entry.

Table 3.3.3.14-1 ICM TENANCY GROUP ATTRIBUTES (PGM 125)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ICM TENANCY GRP 01 ATD:	Attendant station for the ICM tenancy group. ATD. Receives dial '0' calls and controls Day/Night mode.	STA No	-
2	I ICM TENANCY GRP 01	ICM Tenancy groups allowed access to the selected group. eMG80/100:01-15, eMG800/UCP:01-32	Refer to description	GROUP 1

3.3.3.15 Station VM Attributes - PGM 127

Voice Mail attributes can be assigned on a station basis. The description and valid inputs are given in Table 3.3.3.15-1.

PROCEDURE	
ENTER PGM NUMBER	Press the [PGM] button and dial 127.
STATION VM ATT ENTER STA RANGE	Enter Station Range.
400 440 074 \/\\	Press the desired Flex button.
100-110 STA VM ATT	Use the dial-pad to enter desired data, refer to Table 3.3.3.15-1.
PRESS FLEX KEY (01-20)	Press the [Save] button to store the data entry.

Table 3.3.3.15-1 STATION VM Attributes (PGM 127)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VM COS (1-5): 1	Voice Mail COS (Grade) can be set on each station. Each COS attributes can be set at PGM 253.	1-5	1
2	ADMINISTRATOR MAILBOX (1:EN/0:DIS):DISABLE	If this option is set to ON, Administrator Voice Mail feature can be accessed.	0: Disable 1: Enable	Disable
3	ANNC. ONLY MAILBOX (1 :EN/0 :DIS) :DISABLE	If this option is set to ON, no message can be left and only the greeting is played.	0: Disable 1: Enable	Disable
4	ANNC. ONLY OPTION (0-1):PREVIOUS MENU	 This option is available only ANNC. ONLY MAIL BOX is set to ON. Previous: after greeting message is played, go to previous menu. Hang Up: after greeting message is played, call is hanged up. 	0: Previous 1: Hang Up	Previous menu
5	COMPANY DIR FIRST NAME	This field is first name of a station for Company Directory feature.	Max 12 Char	N/A
6	COMPANY DIR LAST NAME	This field is last name of a station for Company Directory feature.	Max 12 Char	N/A
7	USER-MSG RW/FF TIME (03-99):04 Sec	User Message Rewind / Fast Forward are supported by this time.	03-99	04
8	NOTIFY REPEAT COUNT (00-99): 03	It is used to transfer call to attendant if retry count is over this for VM notification.	00-99	03
9	NOTIFY DIAL TIME (00-99): 15 Sec	It is dial waiting time after provide VMIU/VMIB announcement for VM notification.	00-99 (seconds)	15
10	FORWARD OPTION (0-1): MOVE	When a left message is forwarded, this option is applied.	0:Move 1: Copy	Move
11-15	CASCADE MAILBOX1-5	Message cascading is a feature that copies messages left for the originating mailbox to another mailbox. This field is destination mail box station.	Station No.	N/A
16	CASCADE METHOD (0-2): DISABLE	Cascade method is determined. 0:Disable, 1: Copy, 2: Move	Refer to description	Disable

17	CASCADE MSG TYPE (0-2): NORMAL ONLY	Cascade Message Type is determined. 0:Normal Only, 1: Urgent Only, 2:All	Refer to description	Normal only
18	CASCADE TMR(min) (000-250): 000	Cascade Apply Timer is set.	000 ~250 (min)	0
19	MSG WAIT NOTICE (0-2): TONE	When a user has voice mail, system can provides this as voice prompt instead of dial tone according to option based on station. Disable: System provides normal dial tone when a user goes to off hook status. Tone: System provides warning tone instead of dial tone to give indication when a user goes to off hook status.	0: OFF 1:Tone 2:Prompt	Tone
19	MSG WAIT NOTICE (0-2): TONE	Prompt: System provides message indication as voice prompt when a user goes to off hook status.	0: OFF 1:Tone 2:Prompt	Tone
20	CASCADE FOR READ MSG (0-1): ENABLE	If this value is set to Enable, the left message can be cascaded to next destination regardless the message is read or not. If this value is set to Disable, cascading action is stopped when the left message is read.	0 : Disable 1 : Enable	Enable

3.3.3.16 Station CCR Table - PGM 128

CCR Table can be assigned on a station basis. The description and valid inputs are given in Table 3.3.3.16-1.

PROCEDURE	
ENTER PGM NUMBER	Press the [PGM] button and dial 128.
STATION CCR ENTER STA RANGE	Enter Station Range (Ex. 100~110).
100-110 STA CCR	Press the desired Flex button.
PRESS FLEX KEY (01-14)	Press the desired Flex button; refer to Table 3.3.3.16-1.

Table 3.3.3.16-1 STATION CCR Table (PGM 128)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1-10	101 – 110 STA CCR INPUT 0 : NOT ASSIGNED	Button 1 to 10 means outside user press 1 to 0. This dialing is matched with this table destination. The destination is 14 kinds.		NA
11	101 – 110CCR TBLUSAGE (1:ON/0:OFF) : OFF	If this option is set to ON, this CCR table is worked. If this option is set to OFF, this CCR table is not worked, instead of that, outside caller's dialed digit can be regarded as DISA dialing.	OFF ON	OFF
12	101 – 101 CCR 1 DGT ONLY (1:ON/0:OFF) : OFF	If this option is set to ON, Only the first digit that is user entered is affected to the CCR routing. If this option is set to OFF, the following next digits are also affected to the DISA routing.	ON/OFF	OFF
13	101 – 101 * USED AS (0-3): NUMBERING PLAN	While listening User Greeting, * button working is followed by this attribute. • 0 : Numbering Plan • 1 : Replay Greeting • 2 : Access Mail Box • 3 : Leave Message	Refer to description	Numbering Plan
14	101 – 101 # USED AS (0-3): ACCESS MAILBOX	While listening User Greeting, # button working is followed by this attribute. • 0 : Numbering Plan • 1 : Replay Greeting • 2 : Access Mail Box • 3 : Leave Message	Refer to description	Access Mailbox

Table 3.3.3.16-1 CCR DESTINATIONS (PGM 128)

TYPE	DESCRIPTION	
1	Route to a Station	
2	Route to a Hunt Group	
3	Route with System Speed Dial	
4	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)	
5	Route to VSF Announcement	
6	Route to VSF Announcement and disconnect	
7	Route to Networked Station	
8	Conference Room	
9	Internal Page	
10	External page	
11	All Call Page	
12	Route to voice mail (Hunt group/station number)	
13	Company Directory	
14	Record VM Greeting	
	Room Type Conf Group Join	
15	(Value: system conference group number)	
	(Value Range: eMG80/100(0 or 100~139), eMG800/UCP(0 or 100~259)	

3.3.3.17 LSS Label Edit - PGM 129

The LIP-8012 LSS 12 button DSS Console incorporates an LCD used to label the function of each button. The label, which can be up to 12 characters, is assigned in this program.

PROCEDURE	
LSS LABEL EDIT ENTER STA NUMBER	Press the [PGM] button and dial 129.
STA 100 LSS LABEL ENTER LSS IDX(1-4)	Use the dial-pad to enter the station number associated with the console (Ex. 100).
STA 100 LSS 1 ENTER BTN NO (01 – 12)	Consoles are indexed, allowing multiple consoles to be associated with a station. Use the dial-pad to enter the index of the LSS console (1 ~ 4).
STA 100 LSS 1 BTN 1 LABEL IS EMPTY	Use the dial-pad to enter the desired LSS console button number (1 ~ 12). Edit the label referring to Table 2.1.2-1 Alpha-numeric Entry Chart. Press the [Save] button to store the data entry.

3.3.4 BOARD DATA – PGM 130 to 132

3.3.4.1 H.323 VoIP Attributes – PGM 130

The VOIP channels are used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned. The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established. Also for H.323 support, a RAS (Registration, Admissions and Status) channel can be defined. The RAS channel IP addresses (uni-cast and multi-cast) as well as the IP port Numbering Plan and other H.323 set-up characteristics are defined.

This PGM also allows setting the IP TOS bit for Diffserv, a commonly recognized packet prioritization protocol. Higher priority packets are given priority in the Router or Layer 3 Switch queue. However, they are the first to be discarded in the event of long queue delays, which may cause excess packet loss and poor voice quality.

Refer to Table 3.3.4.1-1 for a description of the features and the input required.

PROCEDURE	
H323 VOIP ATTRIBUTE ENTER SEQ NO(001-300)	Press the [PGM] button and dial 130. eMG800 range is 0001-2890.
	Use the dial pad to enter the VoIP board sequence number.
001 H323 VOIP ATTR	Press the desired Flex button; refer to Table 3.3.4.1-1.
PRESS FLEX KEY (01-24)	Use the dial pad to enter the desired data, refer to Table 3.3.4.1-1.
	Press the [Save] button to store the data entry.

Table 3.3.4.1-1 H.323 VOIP ATTRIBUTES (PGM 130)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	H.323 SETUP MODE (1:FAST/0:NORM): FAST	H.323 IP calls can be set-up using the H.323 normal or Fast Start mode.	0: Fast 1: Norm	Fast
2	H.323 TUNNEL MODE (1:ON/0:OFF) : ON	H.323 IP calls can be set-up using the H.245 encapsulation (Tunneling).	0: OFF 1: ON	ON
3	H.323 DTMF PATH (0:IN/1:OUT/2:2833): 0	During a connection, DTMF Digits can be sent in-band or out of band (H.245). 0: In band, 1: Out band, 2: 2833	Refer to description	0
4	DIFFSERV PRETAG TAG (00-63) : 04	Diffserv pre-tagging for Voice packet. Note high values may cause high packet discard levels.	0~63	4
5	RAS USAGE (1:ON/0:OFF) : OFF	Determine whether VOIU/VOIB Board will be used as a Gatekeeper.	0: OFF 1: ON	OFF
6	RAS MULTICAST IP 224.0.1.41	Multi-cast IP address for RAS Information of Gatekeeper.	IP Address	224.0.1.41

Table 3.3.4.1-1 H.323 VOIP ATTRIBUTES (PGM 130)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	RAS MULTICAST PORT (00001-65535): 01718	Multi-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1718
8	RAS UNICAST IP 82.134.80.2	Uni-cast IP address for RAS Information of Gatekeeper.	IP Address	82.134.80. 2
9	RAS UNICAST PORT (00001-65535): 01719	Uni-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1719
10	RAS KEEP_ALIVE TM (001-999) : 120 (sec)	The time between exchange of RAS Information between GK and VOIB/VOIU.	001-999 (SEC)	120
11	RAS NUM PLAN PREFIX	The numbering plan for Calling Number in RAS Setup.	Number (24 digits)	9
12	RAS GATEWAY ID ONLY POSSIBLE BY WEB ADM	The Gatekeeper ID (This can be programmed only via WEB Admin).	128 Character	
13	RAS LIGHT RRQ (1:ON/0:OFF) : OFF	The system can be assigned to use the simple RRQ (Registration Request) message (ON) or the full RRQ message (OFF).	0: OFF 1: ON	OFF
14	TCP KEEP ALIVE (1:ON/0:OFF) : ON	The system will send a polling message every 75 seconds to assure the status of the TCP connection.	0: OFF 1: ON	ON
15	FAIL OVER USAGE (1:ON/0:OFF) : OFF	The H.323 call will be failover to another line (FAIL OVER USAG: ON).	0: OFF 1: ON	OFF
16	FAIL OVER TIME(sec) (03-10): 05	The H.323 call will be failover. The time will be set.	03-10 (Sec.)	5
17	FAIL OVER CO GRP (01-21):	If the H.323 call will be failover, assign another CO group.	01-21	
18	Q931 START PORT (00001-65535) : 02048	IP-Binding H.323 signaling option: Q.931 TCP Start Port in case of outgoing call.	00001- 65535	2048
19	Q931 END PORT (00001-65535) : 02559	IP-Binding H.323 signaling option: Q.931 TCP End port in case of outgoing call.	00001- 65535	2559

Table 3.3.4.1-1 H.323 VOIP ATTRIBUTES (PGM 130)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
20	H245 START PORT (00001-65535) : 02560	P-Binding H.323 signaling option: H.245 TCP Start Port.	00001- 65535	2560
21	H245 END PORT (00001-65535) : 03071	IP-Binding H.323 signaling option: H.245 TCP End Port.	00001- 65535	3071
22	RAS START PORT (00001-65535) : 02048	IP-Binding H.323 signaling option: RAS UDP Start Port.	00001- 65535	2048
23	RAS END PORT (00001-65535) : 03071	IP-Binding H.323 signaling option: RAS UDP End Port.	00001- 65535	3071
24	001 H323 VOIP ATTR (2ND) PRESS FLEX KEY (1-4)			
24-1	MEDIA START PORT (00001-65535) : 06000	IP-Binding media option: Media UDP Start Port.	00001- 65535	6000
24-2	MEDIA END PORT (00001-65535) : 07036	IP-Binding media option: Media UDP End Port.	00001- 65535	7036
24-3	DATA START PORT (00001-65535) : 08500	IP-Binding option: Data Sharing TCP Start Port.	00001- 65535	8500
24-4	DATA END PORT (00001-65535) : 08548	IP-Binding option: Data Sharing TCP End Port.	00001- 65535	8548
24-5	H.245 SETUP (1:ON/0:OFF) : OFF	This feature is the ability of two user endpoints to communicate before call is actually established in normal call mode.	0: OFF 1: ON	OFF
24-6	H.245 PROCEEDING (1:ON/0:OFF) : OFF	This feature is not used when 'H323 Setup Mode' is 'Fast'. Setup: Caller party tries to open early	0: OFF 1: ON	OFF
24-7	H.245 ALERTING (1:ON/0:OFF) : OFF	media on receiving the Setup message. Proceeding: Calling party tries to open early media on receiving the Proceeding message. Alerting: Calling party tries to open early media on receiving the Alerting message.	0: OFF 1: ON	OFF

3.3.4.2 T1/E1/PRI Attributes - PGM 131

Each T1/PRI module can be assigned for various attributes of the interface. The T1 interface framing and line coding can be selected and, for the PRI, TE or NT operation and CRC check can be selected. Refer to Table 3.3.4.2-1 for a description of the features and the input required. Note that the Sequence Number can be determined in PGM 103, Button 1.

PROCEDURE	
T1 /E1/PRI ATTRIBUTE ENTER SEQ NO (001 –300)	Press the [PGM] button and dial 131 and enter sequence number (Ex. 001). eMG800 range is 0001-2890.
001 T1 /PRI ATTR	Use the dial pad to enter the Sequence Number of the desired T1/PRI module. Use PGM 103 to determine Sequence Numbers. (e.g. enter the sequence number
PRESS FLEX KEY (1-7)	Press the desired Flex button; refer to Table 3.3.4.2-1.
	Use the dial pad to enter the desired data, refer to Table 3.3.4.2-1.
	Press the [Save] button to store the Table data entry.

Table 3.3.4.2-1 T1/PRI MODE (PGM 131)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	T1 SETUP MODE (1:ESF/0:D4) : D4	Select T1 Setup mode. • D4 frame: Use In-Band Control Protocol. • ESF: Use Data link Message.	0: D4 1: ESF	D4
2	T1 LINE MODE (1:AMI/0:B8ZS) : B8ZS	Select T1 line mode (AMI/B8ZS).	0: B8ZS 1: AMI	B8ZS
3	PRI LINE MODE (1:TE/0:NT): TE	Select TE/NT mode.	0: NT 1: TE	TE
4	PRI/E1 CRC CHECK (1:ON/0:OFF): OFF	For PRI lines the CRC(Cyclical Redundancy Check) can be disabled (OFF).	0: OFF 1: ON	OFF
5	E1 R2DSP CHECK (1:ON/0:OFF): OFF	Used for R2-El board or E1 board.	0: OFF 1: ON	OFF
6	DCO PX TYPE (0-3): STANDARD (2)	Reserved for future use with R2 E1 board. 0: S1240, 1: TDX1B, 2: STANDARD, 3:CONGES	Refer to Description	STANDARD
7	CALLER NAME TYPE (1:DISP/0:FAC) : FACILIT	If the caller has a name, the Caller Name is sent to the network according to the option. (USA only)	0:FACILITY 1:DISPLAY	FACILITY

3.3.4.3 Board Base Attributes – PGM 132

Appliances (Boards and IP Phones) can be connected to the iPECS over a managed WAN without the need to employ a VoIP channel.

In this case, the system does not implement security (IPSec) or QoS treatment over the link. To implement the managed WAN connectivity, the iPECS must be assigned with the IP address of the router for all appliances that may attempt a point-to-point connection over the managed WAN, including devices on the iPECS LAN.

Note that if the device's Router IP address is not defined, the system will use the Router IP address defined in PGM 102.

The default codec employed by each device can be specifically defined as G.711, G.723, G.729, G.722 or the system default codec PGM 161 can be defined. Note that the Sequence Number can be determined in PGM 103, Button 1.

PROCEDURE	
BOARD BASE ATTRIBUTE ENTER RANGE (001–300)	Press the [PGM] button and dial 132 and enter Range (Ex. 001~002). eMG800 range is 0001-2890.
	Use the dial pad to enter the Sequence Number range of the desired
001-002 BOARD ATTRIBUTE	module. Use PGM 103 to determine Sequence Numbers.
	Press the desired Flex button; refer to Table 3.3.4.3-1.
PRESS FLEX KEY (01–13)	Use the dial pad to enter the desired data, refer to Table 3.3.4.3-1.
	Press the [Save] button to store the Table data entry.

Table 3.3.4.3-1 BOARD ATTRIBUTES (PGM 132)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001-002 ROUTER IP ADDR 0 .0 .0 .0	Enter the default Router IP address associatedwith the selected devices.		0.0.0.0
2	001-002 DEV CODEC TYPE (0-4): SYSTEM CODEC	Select the CODEC type for theselecteddevices: 0: G.711,1: G.723.1,2: G.729,3: G.722 4: System Codec refer toPGM 161-button 9.	0-4	4
3	001-002 FIRWALL IP ADDR 0 .0 .0 .0	Enter the Firewall IP addressassociated with the selecteddevices.		0.0.0.0
4	001-002 RTP SECURITY (1:ON/0:OFF) : ON	Remote iPECS IP & LDP phones use IPSec to assure secure connection. To reducebandwidth use, IPSec may be disabled.	0: OFF 1: ON	ON
5	001-002 TNET ENABLE (0:ON/0:OFF) : OFF	When a module or station is tobeconnected in a Centralized. Control network (TNET), thedevice must be enabled forTNET operation.	0: OFF 1: ON	OFF
6	001-002 VSF SENDER MAIL	VMIU/VMIB e-mail address for Mailbox Mail Sending.		NULL

Table 3.3.4.3-1 BOARD ATTRIBUTES (PGM 132)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	001-002 T38 ENABLE (1:ON/0:OFF) : OFF	T38 mode ON/OFF for FAX datatransfer.	0: OFF 1: ON	OFF
8	001-002 USE BRD IP FWIP (1:ON/0:OFF) : OFF	VOIB IP will be used for SIP signaling in Multi NATcircumstance.	0: OFF 1: ON	OFF
9	001-002 RTP FIRWALL IP 0 .0 .0 .0	Enter the Firewall IP addressassociated with the RemotePhone or Gateway/board if there needs Dual Broadband connection forSIP trunks and Remote phones(using a VOIB).		0.0.0.0
10	001-002 T38 PORT USAGE (0:D/1:S/2:T) : 0	T38 Port can be different with Voice Port. Or, be same or betriggered.	0: D 1: S 2: T	0
11	001-002 2833 PAYLOAD (000-127) : 000	RFC 2833 Payload is programmable.	000-127	000
12	001-002 2833 VOLUME (00-36) : 00	RFC 2833 packet volume.	00-36	00
13	001-002 2833 REDUNDANCY (1-8): 0	RFC2833 Packet Redundancy.	1-8	0
14	001-002 WEB CONNECT (1:ON/0:OFF) : OFF	Setting for web connection.	0: OFF 1: ON	ON
15	001-002 TELNET CONNECT (1:ON/0:OFF) : OFF	Setting for Telnet connection.	0: OFF 1: ON	OFF

3.3.5 CO LINE DATA – PGM 140 to 151

3.3.5.1 CO Service Type - PGM 140

Each CO Line is assigned a type, Normal or DID. Normal CO Lines can be employed for DISA Service PGM 146. DID lines are for incoming only operation and provide call routing based on signaling from the carrier, refer to section 3.3.5.4 DID Service Attributes - PGM 145.

PROCEDURE	
COL SERVICE ATT ENTER COL RANGE	Press the [PGM] button and dial 140 and enter the range (Ex. 0102).
01-02 SVC TYPE PRESS FLEX KEY (1-1)	Press the desired Flex button.
01-02 SVC TYPE (1-4)	Use the dial pad to enter a CO Line range. For a single CO Line, enter the same number twice.
NORMAL CO (1)	Use the dial pad to enter the desired service type: - 1. Normal CO line, 2. DID line, 3. TIE line, 4. Unused
	Press the [Save] button to store the data entry.

3.3.5.2 CO/IP Attributes I ~ III - PGM 141~143

CO/IP Attributes define various characteristics of the CO lines and IP facilities under control of the system. Most require a dial pad input of 1 or 0 to set the characteristic, refer to Table 3.3.5.2-1 to Table 3.3.5.2-3.

Specific descriptions for Class-of-Service and CO line Call Metering tones are provided in Table 3.3.5.2-4 and Table 3.3.5.2-5 respectively.

PROCEDURE	
	Press the [PGM] button and dial:
CO/IP ATTRIBUTE 1	- 141 for CO/IP Attributes I
ENTER COL RANGE	- 142 for CO/IP Attributes II
	- 143 for CO/IP Attributes III.
	Use the dial-pad to enter a CO/IP line range. For a single CO/IP Line,
	enter the same number twice.
01-02 CO/IP ATT 1	Press the desired Flex button; refer to Table 3.3.5.2-1 to Table 3.3.5.2-3.
PRESS FLEX KEY (01-24)	Use the dial-pad to enter desired data for the Attribute, refer to Table
	3.3.5.2-1 through Table 3.3.5.2-5.
	Press the [Save] button to store the data entry.

Table 3.3.5.2-1 CO/IP ATTRIBUTES I (PGM 141)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1		Each CO Line is assigned to a group; grouping should be based on the Line type and COS.	01

Table 3.3.5.2-1 CO/IP ATTRIBUTES I (PGM 141)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
2	01-02 CO LINE COS COS (1-5) : 1	Each CO Line is assigned a Class-of-Service which will interact with the Station COS, refer to section 3.3.5.2. CO COS 1: Station COS applies CO COS 2: Exception Table A governs CO COS 3: Exception Table B governs CO COS 4: Restricts LD calls and Except Table C CO COS 5: Overrides Station COS 2~6 with no restrictions.	1
3	01-02 CO START SIGNAL (1:GND/0:LOOP) : LOOP	The system can recognize a loop closure or a ground as the "connect" (start) signal on an analogue CO Line.	LOOP
4	01-02 CO LINE TYPE (1:PBX/0:CO) : CO	Each CO Line can be assigned as connected to a CO Line or a PBX/CTX Line.	со
5	01-02 CO LINE SIGNAL (1:DTMF/0:PULSE):DTMF	Each analogue CO Line can be assigned to send either DTMF or Pulses for dialed digits to the PSTN.	DTMF
6	01-02 UNSED		
7	01-02 UNIVERSAL ANS (1:ON/0:OFF) : OFF	Universal Night Answer (UNA) allows any station to answer a call on the CO Line by dialing the UNA code.	OFF
8	01-02 CO/IP GRP AUTH (1:ON/0:OFF) : OFF	Each CO/IP Group can be assigned to require the user enter an Authorization Code for access.	OFF
9	01-02 DATA STATION NO FAX :	Each CO/IP line can be assigned to recognize a FAX call when a specified station answers.	
10	01-02 TENANCY GROUP (00-15) : 00	Only stations in the assigned Tenancy group are permitted access to the defined CO Line.	00
11	01-02 CO VOIP MODE VOIP MODE(1-6):COMMON	The VOIB channels can support iPECS, H.323 or SIP protocols. This field defines the protocol for the VoIP channel(s). 1: COMMON, 2:H.323 ONLY, 3: SIP ONLY, 4:RTP RLY, 5:H.323/RTP RLY, 6:SIP/RTP RLY	COMMON
12	01-02 PROCTOR ON/OFF (1:ON/0:OFF) : OFF	Each analogue CO line can be assigned to send the station number as DTMF digits for Proctor service.	OFF

Table 3.3.5.2-1 CO/IP ATTRIBUTES I (PGM 141)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
13	01-02 WAIT IF VSF BUSY (1:ON/0:OFF) : ON	When a DID/DISA call assigned to receive a VMIU/VMIB announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or route to the DID/DISA Destination - PGM 167.	ON
14-15	01-02UNUSED		
16	01-02 RING TONE (00-12, 0:N/A) : 00	Ring Tone can be programmable by CO-line base admin.	00
17	01-02 UNUSED		
18	01-02 GAIN TABLE (1-3): 1	TDM gain table can be programmed.	1
19	01-02 TONE TBL (1-5): 1	Tone table can be programmed.	1
20	01-02 DGT CONV. TBL (01-15): 01	Select digit conversion table.	01
21	01-02 PREPAID CALL (1:ON/0:OFF) : OFF	Enables Pre-paid Call feature.	
22	01-02 PREPAID MONEY 0 (USED:0)	An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses. The "Used Pre-paid Money" displays the money that has been used.	
23	01-02 LDT ZONE (001-100) : 001	If the LDT Zone Number of a station/co line is equal to this value, this LDT table is available to the station/co line.	
24	ADDED CO/IP ATTRIBUTE 1 PRESS FLEX KEY (1-2)		

Table 3.3.5.2-1 CO/IP ATTRIBUTES I (PGM 141)

BTN	ATTRIBUTE/DISPLAY	ATTRIBUTE/DISPLAY DESCRIPTION	
24-1	01-02 ICLID USAGE (0-2) : CLI	An incoming call can be routed to the destination based on Calling Name. • Disable - ICLID feature is disabled • CLI - ICLID feature is operated with CLI • Name - ICLID feature is operated with Name	CLI
24-2	01-02 EMERGENCY PBX C (0-4): DISABLE System can insert PBX code automatically if preconfigured when a user make an emergency call.		Disable

Table 3.3.5.2-2 CO/IP ATTRIBUTES II (PGM 142)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 CO NAME DISPLAY (1:ON/0:OFF) : OFF	The IP Phone display can indicate the CO Line/IP channel number or a twelve (12)-character name, if assigned.	OFF
2	01-02 CO NAME ASSIGN	twelve (12) character name for display purposes, see	
3	01-02 METERING UNIT 00:NONE (0-6)		
4	01-02 LINE DROP(CPT) (1:ON/0:OFF) : OFF	Each CO Line can be programmed to disconnect if anerror tone is detected.	OFF
5	01-02 DISA ACCT CODE (1:ON/0:OFF) : ON	With DISA ACCT CODE "ON", users will be required to enter an Authorization code. Enter codes in Authorization Codes Table - PGM 227.	ON
6	01-02 MOH: (00-37) MUSIC 1 (01)	A held call can be connected to one of three possibleaudio sources while on Hold as Music-on-Hold (MOH). • 00:REFER TO SYS HOLD, • 01: INT MUSIC • 02: EXT MUSIC • 03: VSF MOH • 04~08: SLT MOH1~5 • 09~10: VSF MOH2~3 • 11~37: VSF MOH4~30	01
7	01-02 CO DIAL TONE (1:ON/0:OFF) : ON	1-02 CO DIAL TONE ISDN Lines may provide a digital signal rather than actual tones.If the ISDN tone is set to "OFF". iPECS can	
8	01-02 CO RBACK TONE (1:ON/0:OFF): OFF ISDN Lines may provide a digital signal rather than actual tones. If the ISDN tone is set to "OFF", iPECS can provide the tones.		OFF

Table 3.3.5.2-2 CO/IP ATTRIBUTES II (PGM 142)

BTN	ATTRIBUTE/DISPLAY	Y DESCRIPTION	
9	01-02 CO ERROR TONE (1:ON/0:OFF) : OFF		OFF
10	01-02 CO BUSY TONE (1:ON/0:OFF) : OFF		OFF
11	01-02 DISA CO ACCESS (1:ON/0:OFF) : OFF	Permits DISA users access to the VoIP facilities of the system.	OFF
12	01-02 FLASH TMR (000-300 10 ms) : 050	This entry sets the duration of a Flash on the CO Line.	050 500 msec
13	01-02 OPEN LOOP (00-20 100ms) : 04	This entry sets the duration of open loop that will be recognized as a "Disconnect Signal".	04
14	01-02 ICLI DT TMR (00-20 SEC) : 00	When a call is received, the system may use the ICLID (Incoming Caller ID) to route the call. The system will delay routing a call for this timer while awaiting ICLID. Enter a 00 to disable ICLID routing.	00
15	01-02 SMS OUTGOING (1:EN/0:DIS) : DISABLE	Each CO line can be assigned to support PSTN SMS.	Disable
16	01-02 SMS RCV STATION STA:	When a PSTN SMS is received, the system delivers the message to the assigned station.	
17	01-02 DL TN:(00-37) DIAL TONE (00)	One of below dial tones can be used by the CO line. • 00:DIAL TONE • 01:INT MUSIC • 02:EXT MUSIC • 03:VSF MOH • 04~08: SLT MOH1~5 • 09~10: VSF MOH2~3 • 11~37: VSF MOH4~30	Dial tone
18	01-02 RB TN: (00-37) RING BACK TONE (00)	One of below ring back tones can be used by the CO line. • 00:RING BACK TONE • 01:INT MUSIC • 02:EXT MUSIC • 03:VSF MOH • 04~08: SLT MOH1~5 • 09~10: VSF MOH2~3 • 11~37: VSF MOH4~30	Ring back tone

Table 3.3.5.2-2 CO/IP ATTRIBUTES II (PGM 142)

BTN	ATTRIBUTE/DISPLAY DESCRIPTION		DEFAULT
19	01-02 REJECT ANONYMOUS (1:ON/0:OFF) : OFF	When REJECT ANONYMOUS "ON", incoming call without Caller ID will be rejected.	OFF
20	01-02 PREFIX TABLE ID (0-6): 0	If prefix table ID is set to 0, then prefix dialing call cannot be applied. If prefix table ID is set to (1-6), then prefix dialing call can be applied with PREFIX DIALING TABLE (PGM 206)	0
21	01-02 CO CUT OFF TMR (00-99 MIN) : 00	Co base call cut off timer can be set at this field.	00
22	01-02 DISA DELAY TMR (0-9 SEC): 0	It is only used for Russia. System is connected to DISA call immediately, and DISA announcement is played after this timer.	0
23	01-02 LDT TBT INDEX (00-10) : 01	LCR will be operated with LDT table index.	1
24	01-02 DISA ANS TMR (0-9 SEC) : 0 It is only used for Russia. When DISA incoming call, System is connected after DISA Answer Timer.		0

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 COLP TABLE IDX INDEX : NOT ASSIGNED	When an incoming call on an ISDN Line is answered, the system will send caller id using the number from the CLIP/COLP Table –PGM 201- entry defined by this parameter.	None
2	01-02 CLIP TABLE IDX INDEX : NOT ASSIGNED	When a call is placed on an ISDN Line, the system will send caller id using the number from the CLIP/COLP Table –PGM 201- entry defined by this parameter. For entry 00, the CLI STA NO entered in PGM 114-button 6 will be used in place of the station number. For other entries, the station number is added as a suffix to the entry in PGM 201.	None
3	This entry determines if the system sends dialed digits to the ISDN line as they are received (Overlap) or collects all digits and forwards them in a block, enblock. OFF <td>Refer ro description</td>		Refer ro description

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
4	01-02 TYPE OF NO(0-4) NATIONAL (2)	For outgoing calls on the ISDN Line, this parameter defines the "Type of Number Plan" provided in Calling Party Information Element of the ISDN call SETUP message. 0: UNKNOWN, 1: INTERNATIONAL 2: NATIONAL, 3: Unused, 4: SUBSCRIBER	2
5	01-02 DID REMOVE NO (00-99) : 00	determines the number of digits that will be removed	
6	02 TEI TYPE (1:AUTO/0:FIX) : AUTO	The TEI (Terminal Endpoint Identifier) is a unique identifier for each device attached to the ISDN line. When the system shares an ISDN connection with other devices, the TEI should be automatic to assure no conflict with other attached devices. When the ISDN connection is not shared, the Fixed identifier option should be employed.	AUTO
7	02 ISDN-SS CD/CR (1:EN/0:DIS) : DISABLE	Permits a user access to ISDN Supplementary Call Deflection or Call Re-route Service.	
8	02 ISDN 1 DGT RM (1:ON/0:OFF) : OFF	Select one digit remove mode in ISDN Called Digits (for Italy).	
9	001-002 AOC TYPE (0-5) NO SERVICE (0)	When assigned, the system will analyze the Advice of Charge information in the Facility Message according to the ETSI specifications with appropriate regional protocol support.	No Service
10	001-002 ISDN LINE TYPE (1:U/0:A): U_LAW	The system will encode voice using the A-law or u-law PCM format and should be set to match the ISDN Back bone type.	u-Law
11	01-02 CALLING SUBADDR (1:ON/0:OFF): OFF For outgoing calls, the user's station number may be included in the ISDN call SETUP message Sub-address field.		OFF
12	01-02 IN PREFIX INS (1:ON/0:OFF) : OFF	Regional ISDN providers may use the Local Area Prefix code for special services. In cases where the code is not provided in the incoming call SETUP message, the system can insert the Local Prefix and Area code in SMDR, LNR, displays, etc.	OFF
13	01-02 OUT PREFIX INS (1:ON/0:OFF) : ON	Regional ISDN providers may use the Local Area Prefix code for special services. The system can insert the Local Prefix in the outgoing call SETUP message.	ON

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

BTN	ATTRIBUTE/DISPLAY	ATTRIBUTE/DISPLAY DESCRIPTION	
14	01-02 INT ACCESS CODE	When an incoming call includes the international Country code in the ISDN call SETUP message, the Country code will be included in the station display. To include the Country code, Incoming Prefix insertion (button 12 above) and CLI Display for the station (PGM 114-button 1) must be On.	
15	01-02 AREA CODE	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Area Code in the call SETUP messages defined under button 13 above.	-
16	01-02 PREFIX CODE	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Prefix Code in the call SETUP messages defined under button 13 above.	-
17	01-02 CLI TRANSIT (1:ORI/0:CFW):CFW	01-02 CLI TRANSIT When the system must send CLI to the ISDN for an offnet call, the CLI can be either the original caller's CLI or	
18	01-02 PRESERVE NAME (1:ON/0:OFF): OFF	For DID lines, the CLI is normally displayed only during ringing. If enabled here, the CLI will be displayed for the entire call duration.	OFF
19	01-02 REDIRECT INFO NO SERVICE (0)	When the system needs to send Redirecting number to the ISDN for an off-net call, the Redirecting number can be either the original caller's CLI or the CLI of the Offnet forwarding/transferring station. If it is no service then system will not send this information. If it is OGR CLI (original CLI) then system will send original CLI that is received from incoming CO line. If it is CFW CLI then system will send redirecting CLI that is CLI for call off-net call forwarded station.	NO SERVICE
20	01-02 INC CLI CHOICE (1:ORI/0:TRANSIT):TRS Incoming CLI Choice – When ISDN setup message have two CLI (Transit Point CLI / Original CLI), by using this option, CLI can be chosen.		Transit
21	01-02 CALLING NUM PLAN (0-6):ISDN/TELEPHONY (1)	ISDN Calling Party Numbering Plan can be programmable. • 0: Unknown. • 1: ISDN / Telephony. • 2: Data / Numbering. • 3: Telex. • 4: National Standard. • 5: Private. • 6: Reserved.	ISDN/ Telephony

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
22	01-02 CALLED NUM PLAN (0-6) : UNKNOWN (0)	ISDN Called Party Numbering Plan can be programmable. • 0: Unknown. • 1: ISDN / Telephony. • 2: Data / Numbering. • 3: Telex. • 4: National Standard. • 5: Private. • 6: Reserved.	Unknown
23	01-02 SCREENING (0-3) USER PROVIDED, NO S (0)	ISDN Screening Indicator can be programmable. • 0: User Provided, No Service. • 1: User Provided, Pass. • 2: User Provided, Fail. • 3: Network Provided.	User Provided, No Service.
24	ADDED CO LINE ATT3 PRESS FLEX KEY (1-6)		
24-1	01-02 CLI TYPE (1-5) STN CLI 1 (1)	Outgoing CLI can be chosen from CLI 1 to CLI 5. This program is combined with PGM 114 – Station CLI 1 to Station CLI 5.	1 (Station CLI 1)
24-2	01-02 ISDN PLUSE CODE	When incoming CLI start with "+" code, this Plus code can be translated as this program.	-
24-3	01-02 CP/ALERT INBAND (1:ON/0:OFF):OFF	Send progress indication with in-band information in call proceeding and alerting message.	OFF
24-4	01-02 DISCONNECT INBAND (1:ON/0:OFF):OFF	Send progress indication with in-band information in disconnect message.	OFF
24-5	01-02 BURSTTN TO CALLER (1:ON/0:OFF):OFF	Send to burst tone to caller if it's set ON.	OFF
24-6	01-02 DISCONN. (INBAND) IGNORE (0)	When system receives DISCONNECT message with Inband information from PSTN, the following option can be applied: • Ignore Inband information: Line is disconnected • Bypass Inband information: Progress Information is transferred • Wait Release: System wait to send Release message till the other party is disconnected	Ignore

Table 3.3.5.2-4 STATION/CO LINE COS TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, 1stdigit "0" or "1") and Table C	Local Call only (LD Code, 1stdigit "0" or "1") and Table C	Local Call only (LD Code, 1stdigit "0" or "1") and Table C	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 9	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction

Table 3.3.5.2-5 CALL METERING FUNCTION

ENTRY	CALL METERING TYPE	
00	- None	
01	- 50 Hz	
02	- 12 KHz	
03	- 16 KHz	
04	- Singular Polarity Reverse (SPR)	
05	- Plural Polarity Reverse (PPR)	
06	- No Polarity Reverse (NPR)	

3.3.5.3 CO/IP Ring Assignment – PGM 144

Each CO/IP line is assigned to signal a station or group for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring modes.

When assigned to ring to a VSF announcement, the call can be dropped automatically after the assigned announcement by entering '#' after the VSF announcement number.

When CO Lines are programmed to Ring an external AA/VM or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA.

The delay is defined in seconds from 00 to 30.

PROCEDURE	
CO RING ASSIGNMENT ENTER COL RANGE	Press the [PGM] button and dial 144.
	Use the dial-pad to enter a CO Line range. For a single CO Line, enter the
	same number twice.
	Press the desired Flex button:
	- Button 1: Day Ring
	- Button 2: Night Ring
	- Button 3: Timed Ring
	Use the dial pad to select the destination type:
	- Dial 1: Station
	- Dial 2: Hunt Group
01-02 PRESS KEY	- Dial 3: VSF
DAY NIGHT TIMED-R	- Dial 4: AA Ring Time
	- Dial 5: Net number
	Use the dial pad to enter a value for the selected destination type. For:
	- Dial 1: Enter a station range (enter the same station number twice to
	assign a single station) and the ring delay if any, in ring cycles (0~9).
	- Dial 2: Enter a hunt group number.
	- Dial 3: Enter the VSF announcement number and, if desired '#' to drop the
	call after the announcement.
	- Dial 4: For AA Ring Time, enter the desired delay from 00 to 30 seconds.
	Press the [Save] button to store the data entry.

3.3.5.4 DID Service Attributes – PGM 145

PSTN DID lines can be assigned the type of "Start" signaling and treatment of any received digits.

Digits can be used "as is" to route the call within the system, digits can be converted and used to route the call, or digits can be converted to a Table index to determine the call routing based on the assigned conversion method, see Table 3.3.9.7-1 (PGM 231).

PROCEDURE	
DID ATTRIBUTES ENTER COL RANGE	Press the [PGM] button and dial 145.
	Use the dial-pad to enter the DID Line range. For a single DID Line, enter the same number twice.
01-02 DID ATTRIBUTES	Select the desired Flex button; refer to Table 3.3.5.4-1.
PRESS FLEX KEY(1-4)	Use the dial-pad to enter the desired value for the selected Attribute, refer to
	Table 3.3.5.4-1.
	Press the [Save] button to store the data entry.

Table 3.3.5.4-1 DID LINE ATTRIBUTES (PGM 145)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 SIG. TYPE: 1-3 WINK (2)	Assigns the type of DID start signaling, Immediate, Wink or Delayed.	1: Immediate 2: Wink 3: Delayed	Wink
2	01-02 DID CONV TYPE (0 – 2) : 1	The received DID digits can be treated to determine call routing, simple conversion (PGM 230), "use as is" (no treatment), or modify using look-up Table (PGM 231).	0: Convert 1: Use as is 2: Look-up	Use as is
3	01-02 DID DGT RCV NO 3 (2 – 4)	Number of digits expected from the PSTN DID circuit.	2~4	eMG80/100:3 eMG800:4
4	01-02 DID DGT MASK #***	DID digit modification sequence: "#" deletes the digit, "*" accepts the digit as is, a digit (0~9) replaces the digit. The modification is based on the position of the digit (1~4) in the received number.	(0~9, *, #)	#***

3.3.5.5 DISA Service - PGM 146

DISA Service can be enabled on CO lines based on the system operation mode (Day, Night, and Timed).

DISA calls may be routed to dial tone and await user dialing (simple routing) or through a multi-layered Audio Text menu assigning a VSF Announcement/Customer Call Route (CCR) Table Index.

The system can be instructed to disconnect after the announcement or follow the CCR Table routing with a user-recorded announcement requesting specific inputs from the user.

PROCEDURE	
DISA ATTRIBUTES ENTER COL RANGE	Press the [PGM] button and dial 146.
01-02 DISA ATTRIBUTE F1:DAY F2:NIGHT F3:TIME	Use the dial-pad to enter the CO Line range. For a single CO Line, enter the same number twice.
001-002 DISA ATTRIBUTE	Select the desired Flex button: - Button 1: Day - Button 2: Night - Button 3: Timed Use the dial-pad to enter the desired VSF AA Announcement, (00:
DAY SERVICE 00 (00 – 71)	disabled, 01~70 CCR Table index PGM 228, or 71: await user digits). Enter '#' after the entry to include a "drop after announcement instruction". Press the [Save] button to store the data entry.

3.3.5.6 CO Line Preset Forward Attributes – PGM 147

The CO Line Preset Forward feature enables a CO line to initially ring at multiple stations and forward to a pre-determined destination (PGM 204).

The destination can be a station, Voice Mailbox, ACD group, or Hunt group. Each CO line has a Preset Forward Timer. Each CO line also can be assigned a VMID (Voice Mail Id) to allow sending specific VM digits when a CO line forwards to an external VM group.

PROCEDURE		
CO PRESET FWD ATT ENTER COL RANGE	Press the [PGM] button and dial 147.	
	Use the dial-pad to enter the CO Line range. For a single CO Line, enter the	
	same number twice.	
01-02 CO PRE-FWD	Select the desired Flex button; refer to Table 3.3.5.6-1.	
PRESS FLEX KEY(1-3)	Use the dial-pad to enter the desired value for the selected Attribute, refer to	
	Table 3.3.5.6-1.	
	Press the [Save] button to store the data entry.	

Table 3.3.5.6-1 CO LINE PRESET FORWARD ATTRIBUTES (PGM 147)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 PRESET FWD TMR (00-99 SEC) : 00	An incoming call, which remains unanswered for this timer, is routed to the pre-determined Ring Table Index, PGM 147-button 2.	00-99 Sec	00
2	01-02 RING TBL INDEX INDEX : NOT ASSIGNED	If an incoming call remains unanswered after the Preset Fwd time the call is routed as defined in the ICLID Ring Assignment table bin entered here, refer to PGM 204.	001-250	
3	01-02 VMID NUMBER	Each CO/IP line can be assigned a VMID (Voice Mail Id) that is sent to the VM group to identify the desired Mailbox for the CO/IP line.	0000~9999	

3.3.5.7 CO Additional Attributes - PGM 148

CID Attributes are assigned for Analog CO Line Caller Id services.

PROCEDURE	
CO ADDITIONAL ATTR ENTER COL RANGE	Press the [PGM] button and dial 163.
24 22 217 25 77 112	Use the dial–pad to enter a CO line range. For a single CO Line, enter the same number twice.
01–02 CID SETTING	Press the desired Flex button; refer to Table 3.3.5.7-1.
PRESS FLEX_KEY (01–13)	Use the dial-pad to enter desired data for the Attribute.
	Press the [Save] button to store the data entry.

Table 3.3.5.7-1 CO Additional Attributes (PGM 148)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01–02 CID MODE SELECT (0–4) : FSK	CID signal type can be assigned according to the CID type PSTN provides. 0:Disabled, 1:FSK, 2:DTAS FSK, 3:DTMF, 4:Russia CID	Refer to description	FSK
2	01-02 RCID DETECT (1: ALL/0: LOCAL) : ALL	Russia CID Detect Mode.	0: LOCAL 1: ALL	ALL
3	01-02 RCID REQUEST (1: AUTO/0: USER) : AUTO	Russia CID Request Mode.	0: USER 1: AUTO	AUTO
4	01-02 RCID REQ TMR(10ms) (010-150) : 030	Russia CID First Delay Timer.	010–150 (10msec)	030
5	01-02 RCID NOANS TMR(s) (001-300) : 020	Russia CID NO-Answer Timer.	001–300 (sec)	020
6	01-02 RCID DGT NUMBER (04-10) : 07	Russia CID Digit Number.	04–10	07
7	01-02 RCID REQ COUNT (1-3):1	Russia CID Request Count.	1–3	1
8	01-02 RCID REQ DELAY (10-30) : 10 (10ms)	Russia CID Retry Delay Timer.	10–30 (10msec)	10

Table 3.3.5.7-1 CO Additional Attributes (PGM 148)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	01-02 CC BLOCKING (0-2): DISABLED	It's for only Brazil R2, it blocks for collect call if double answer or with indication is selected. 0: Disabled, 1: Double Answer, 2: With Indicator	Refer to description	Disabled
10	01-02 CC ANS TMR (001-250): 010 (100ms)	If it is set to Double Answer for collect call blocking, this timer is sending dummy answer signal.	1-250 (100ms)	10
11	01-02 CC IDLE TMR (001-250): 020 (100ms)	If it is set to Double Answer for collect call blocking, this timer is sending dummy idle signal.	1-250 (100ms)	20
12	01-02 LINE MONITORING (1: ON / 0: OFF): ON	This determines that detect line fault or not.	0: OFF 1: ON	ON
13	01-02 RING DETECT REG (000-255): 015	In the web admin, it is located in the Maintenance page [Appliances Control] > [Analog CO Parameter Set].	000-255	015

3.3.5.8 NA ISDN Line Attributes – PGM 150

To comply with the North American ISDN standards, certain attributes must be defined for the system. These include Directory (telephone) Number and Service Profile (SPID) for the device. Note that this programming is required only for "Country Code" 1, USA installations.

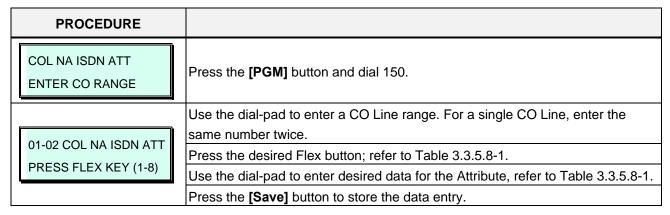


Table 3.3.5.8-1 NA ISDN ATTRIBUTES (PGM 150)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 TYPE OF PX(1-4) NI1 (1)	The type of PSTN determinesseveral specifics of the protocoland is required for properoperation. 1: NI 1, 2: NI 2, 3: 5 ESS, 4: NORTEL	Refer to description	NI 1
2	01-02 SPID NUMBER	The Service Profile Identifier(SPID) is a number assigned toa fully initializing ISDN terminaland enables the Stored ProgramControl switching System(SPCS) to identify the ISDNterminal at layer 3 of theD-channel signaling protocol. The SPID is a free-formattednumeric string composed of 9 to23 numeric {0-9} and InternationalAlphabet (IA5) characters. TheSPID uniquely identifies aparticular set of subscriptionparameters assigned to a TSP.	9~23 digits	
3	01-02 DN NUMBER	Initializing terminals are required to store a 7-digit DN in order toperform the compatibilitychecking procedures that are part of call termination.	23 digits	-
4	01-02 EKTS MODE (1:EKTS/0:NONE) : NONE	The EKTS (Electronic KeyTelephone Service) terminalpermits a user to operate thosefeatures that are specific toEKTS, as well as voice featuresthat may function distinctly in theEKTS environment. EKTSallows a DN to be shared bymore than one terminal, on thesame or on different interfaces.	0: None 1: EKTS	NONE

Table 3.3.5.8-1 NA ISDN ATTRIBUTES (PGM 150)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	01-02 TYPE FOR 1/2/3 UNKNOWN (0)	ISDN CALLED NO is made with the International format, National format, Network format, Subscriber format, or Abbreviated format when user dials 1~3 digits. • 0: Unknown • 1: International • 2: National • 3: Network • 4: Subscriber • 5: Abbreviated	Refer to description	Unknown
6	01-02 TYPE FOR 4/5/6 UNKNOWN (0)	ISDN CALLED NO is made withthe International format, Nationalformat, Network format, Subscriber format, or Abbreviated format when userdials 4~6 digits. • 0: Unknown • 1: International • 2: National • 3: Network • 4: Subscriber • 5: Abbreviated	Refer to description	Unknown
7	01-02 TYPE FOR 7/8/9 UNKNOWN (0)	ISDN CALLED NO is constructed with the International format, National format, Network format, Subscriber format, or Abbreviated format when user the dials 7~9 digits. • 0: Unknown • 1: International • 2: National • 3: Network • 4: Subscriber • 5: Abbreviated	Refer to description	Unknown
8	01-02 TYPE FOR 10/11 UNKNOWN (0)	ISDN CALLED NO is constructed with the International format, National format, Network format, Subscriber format, or Abbreviated format when user the dials more than 10 digits. • 0: Unknown • 1: International • 2: National • 3: Network • 4: Subscriber • 5: Abbreviated	Refer to description	Unknown

3.3.5.9 ISDN CO Line Attributes - PGM 151

ISDN standards require that the ISDN terminating device, in this case the iPECS eMG, include various "adjustable" timers and counters as described below.

PROCEDURE	
COL ISDN ATT ENTER CO RANGE	Press the [PGM] button and dial 151.
	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
01-02 COL ISDN ATT	Press the desired Flex button; refer to Table 3.3.5.9-1.
PRESS FLEX KEY (01-16)	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.9-
	1.
	Press the [Save] button to store the data entry.

Table 3.3.5.9-1 ISDN CO LINE ATTRIBUTES (PGM 151)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 T200 (1- 5) (1-5) : 1 (sec)	The terminal must support oneT200 timer for each data linksupported.	1~5 (seconds)	1
2	01-02 T201 (1-5) (1-5): 1 (sec)	The minimum time between TEIID check messages.	1~5 (seconds)	1
3	01-02 T202(1-5) (1-5) : 2 (sec)	When the terminal transmits aTEI Identify Request message, itmust provide one T202 timer foreach logical link supported.	1~5 (seconds)	2
4	01-02 T203 (05 – 15) (05-15) : 10 (sec)	If the terminal initiates the link monitoring function, it must provide one T203 timer for each logical link supported. T203 defines the maximum time between message exchanges.	5~15 (seconds)	10
5	01-02 T204 (05 – 15) (05-15) : 10 (sec)	The T204 timer defines the minimum time between transmissions of XID messages.	5~15 (seconds)	10
6	01-02 T302 (10 – 30) (10-30) : 15 (sec)	In the Overlap dial mode, when the system receives incomplete dialing information from the ISDN, the system will wait the T302 timer duration for the additional digits. At time-out of this timer, the call will be disconnected.	10~30 (seconds)	15
7	01-02 T303 (01 – 10) (01-10) : 04 (sec)	T303 establishes the time Interval for a response after sending a call setup message.	1~10 (seconds)	4

Table 3.3.5.9-1 ISDN CO LINE ATTRIBUTES (PGM 151)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	01-02 T305 (10 - 60) (10-60) : 30 (sec)	T305 establishes the Interval for a Released signal after receiving a Disconnect message.	10~60 (seconds)	30
9	01-02 T308 (01 – 10) (01-10) : 04 (sec)	T308 establishes the Interval for a Released ACK signal after sending a release message.	1~10 (seconds)	4
10	01-02 T309 (001 – 100) (001-100) : 090 (sec)	Optional state timer.	1~100 (seconds)	90
11	01-02 T310 (10 – 60) (10-60) : 40 (sec)	Timer used in accepting Received signal.	10~60 (seconds)	40
12	01-02 N200 (1 – 5) (1-5) : 3	The terminal shall provide one N200 counter for each logical link supported. The default value of this counter shall be 3.	1~5	3
13	01-02 N201 (250 – 300) (250~300) : 260 (byte)	The N201 counter sets the maximum number of Octets in the ISDN information field.	250~300 (bytes)	260
14	01-02 N202 (1 – 5) (1-5) :3	If the terminal transmits a TEI Identify Request message (to request assignment of a TEI), the terminal shall provide one N202 counter for each logical link that it supports.	1~5	3
15	01-02 N204 (1 – 5) (1-5) : 1	The N204 counter establishes the maximum number of XID re-transmissions from the terminal.	1~5	1
16	01-02 K_VALUE (1-5) : 1	The terminal shall provide one K counter for each logical link supported.	1~5	1

3.3.5.10 T1 Line Timers - PGM 152

North American T1 standards require that the T1 terminating device, in this case the iPECS eMG, include various "adjustable" timers and counters as described below.

PROCEDURE	
COL T1 ATT ENTER CO RANGE	Press the [PGM] button and dial 152.
	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
01-02 COL T1 ATT	Press the desired Flex button; refer to Table 3.3.5.10-1.
PRESS FLEX KEY (01-13)	Use the dial-pad to enter desired data for the Attribute, refer to Table
	3.3.5.10-1.
	Press the [Save] button to store the data entry.

Table 3.3.5.10-1 T1 LINE TIMERS (PGM 152)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 PAUSE (1-9) : 2 (sec)	A timed pause may be included in a Speed Dial number, in which case, the pause time is defined by this entry.Not currently implemented.	1~9 (seconds)	2
2	01-02 RLS GRD (01-60) : 20 (100ms)	The releaseguard timer defines the length of time the system will maintain a Line as busy after the call has been terminated to assure the PSTN has sufficient time to 'clear down' the circuit. Not currently implemented.	01~60 (100 ms)	20
3	01-02 DT DELAY (02-50) : 10 (100ms)	The DT (Dial tone) Delay timer defines the duration that dial tone must be received for DT recognition. Not currently implemented.	02~50 (100 ms)	10
4	01-02 INTER DGT (15-30) : 15 (20ms)	The Inter Digit timer defines the duration between digit transmissions. Not currently implemented.	15~30 (20 ms)	15
5	01-02 WINK (07-15) : 10 (20ms)	For TIE or DID Lines the Wink timer defines the length of time the 'wink' (T1 TIE line circuit reversal) will last.	7~15 (20 ms)	10
6	01-02 OP RATE (0- 3) 60-40 (10pps) (0)	For Pulse signaling, defines the duration and make/break ratio of each pulse. 0: 60-40(10pps), 1: 66-33(10pps) 2: 60-40(20pps), 3: 66-33(20pps)	Refer to description	60-40 (10pps)
7	01-02 SEZ DTC (000-127) : 003 (20ms)	This timer defines the length of a valid 'line seizure' signal.	0~127 (20 ms)	3

Table 3.3.5.10-1 T1 LINE TIMERS (PGM 152)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	01-02 RELEASE (000-127) : 007 (20ms)	For Ground Start Lines, defines the minimum length of time ground will not be applied to the TIP side from the PSTN.	0~127 (20 ms)	7
9	01-02 IASG TY (1:DTMF/0:PULSE) : DTMF	Incoming Address Signaling Type defines the type of signaling (DTMF or Pulse) expected.	0~1	DTMF
10	01-02 RING DTC (2-9) : 2 (100ms)	The Ring DTC (detect) timer defines the minimum acceptable length of the Ring-on time during a ring cycle.	2~9 (100 ms)	2
11	01-02 RING STOP (10-60) : 60 (100ms)	The Ring Stop timer defines the maximum Ring-off time during a ring cycle.	10~60 (100 ms)	60
12	01-02 COLLECT DGT (1-6) : 3	Collect DGT (digits) defines the number of digits expected on a DID line.	1~6	3
13	01-02 STORE TIME (01~15) : 15 (1sec)	For DID lines, this timer defines the maximum delay between incoming DID digits.	1~15 (second)	15

3.3.5.11 DCOB CO Attribute - PGM 153

The DCOB Attributes defines various characteristics of the E1/PRI module when employing R2 signaling.

PROCEDURE	
DCOB COLINE ATT ENTER CO RANGE	Press the [PGM] button and dial 153.
	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
01-02 DCOB CO ATT	Press the desired Flex button; refer to Table 3.3.5.11-1.
PRESS FLEX KEY (1-6)	Use the dial-pad to enter desired data for the Attribute, refer to Table
	3.3.5.11-1.
	Press the [Save] button to store the data entry.

Table 3.3.5.11-1 DCOB CO ATTRIBUTE (PGM 153)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 LINE STATUS (1-9) : 6	Send Line status information to PX when a call routed to subscriber before the called party is ringing.	1~9	6
2	01-02 DNIS SERVICE (1:ON/0:OFF) : OFF	In R2, determine whether system will send caller information to PX or not.	0: OFF 1: ON	OFF
3	01-02 NO OF CLI DGTS (01-15) : 10	In R2, board request CLI Digit to PX.	01~15	10
4	01-02 DCOB TYPE(0-2) DID (2)	According to this type, the line can be restricted to seize CO line for outgoing call.	0: DID/DOD 1:DOD 2:DID	2
5	01-02 CALL CATEGORY (1-9) : 1	In R2 signaling, the category signal used by the iPECS is defined here.	1~9	1
6	01-02 DID DGT NUM (00-32) : 00	Maximum number of DID digits if line is E1/R2 (if it is N/A then it will follow PGM 145 3rd.)	00~32	0

3.3.6 SYSTEM DATA -PGM 160 to 182

3.3.6.1 System Attributes I &II-PGM 160 to 161

There are two (2) System Attributes programs to define settings that affect system-wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable).

Refer to Table 3.3.6.1-1 and Table 3.3.6.1-2 for a description of the Attributes, LCD displays and the data entries required.

PROCEDURE	
SYSTEM ATTRIBUTES 1 PRESS FLEX KEY (01-24)	Press the [PGM] button and dial: - 160 for System Attributes I - 161 for System Attributes II. Press the Flex button for the desired Attribute, refer to Table 3.3.6.1-1 1 & Table 3.3.6.1-2. Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.6.1-1 to Table 3.3.6.1-2.
	Press the [Save] button to store the data entry.

Table 3.3.6.1-1 SYSTEM ATTRIBUTES I (PGM 160)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ATD CALL QUE RB TONE (1:RBT/0:MOH): MOH	When calling a busy attendant, the system will provide eitherring-back tone or MOH. If MOHis selected, the source must bedefined in PGM 171.	0: MOH 1: RB tone	МОН
2	CAMP-ON RBT/MOH (1:RBT/0:MOH) : MOH	When Camp-On is used, thecalling station will receive eitherring-back tone or MOH. If MOHis selected, the source must bedefined in PGM 171.	0: MOH 1: RB tone	МОН
3	CO DIAL TONE DETECT (1 : ON/ 0 : OFF) : OFF	The system can use dial-tonedetection or a timed pause for Speed Dial numbers that containa Pause.	0: OFF 1: ON	OFF
4	CO LINE CHOICE (0:RR/1:LAST/2:FIRST): 1	CO Lines are selected by thesystem from groups using eitherthe LAST used, ROUND robinmethod or FIRST line in thegroup.	0: ROUND 1: LAST 2: FIRST	LAST
5	DISA RETRY COUNT (1 –9): 3	A DISA user is allowed to retryerroneous authentication codeentries. This entry sets thenumber of retries before the system disconnects.	1~9	3
6	EXTERNAL NIGHT RING (1 : ON/ 0 : OFF) : OFF	CO/IP calls, which are assignedUNA, can activate the Loud BellContact. An incoming call, received while in Night, willactivate the contact.	0: OFF 1: ON	OFF

Table 3.3.6.1-1 SYSTEM ATTRIBUTES I (PGM 160)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	HOLD PREFERENCE (1: SYS/ 0: EXC) : SYS	A single depression of the [HOLD] button during CO call places the call onthe preferred hold, System or Exclusive.	0: Excl 1: System	System
8	PRINT LCR CONV DIGIT (1 : LCR/ 0 : USER) : LCR	SMDR will output the numberdialed by either the system'sLCR or the user.	0: User 1: LCR	LCR
9	ATD CALL QUE AVAILABLE (1:ON/0:OFF) : OFF	The system can be configured toqueue incoming calls to a busyAttendant.	0: OFF 1: ON	OFF
10	USE PGM_0 IN ALL ATTD (1 : ON/ 0 : OFF) : OFF	This field allows Main attendantsaccess to all Attendant functionsincluding System Attendantfeatures and programming. (Except PGM 06 – Recordsystem announcement)	0: OFF 1: ON	OFF
11	OFFNET PROMPT USAGE (1 : ON/ 0 : OFF) : OFF	When a call is routed to adestination external to theiPECS, the Off Net routingprompt can be played. Notavailable in US version.	0: OFF 1: ON	OFF
12	CO-TO-CO UC TMR EXTEND (1:ON/0:OFF) : OFF	When an UnsupervisedConference is established withDISA, Off-Net Fwd, etc., theUnsupervised Conference timer(PGM 182-button 5determines the allowed durationof the call. If enabled here, theuser may dial '#' to extend the	0: OFF 1: ON	OFF
13	ACD MANAGER PRINT (1:ON/0:OFF) : OFF	When the optional ACDMessage events are desired, the system must be enabled to sendACD event messages.	0: OFF 1: ON	OFF
14	CALL LOG LIST NUM (15-50) : 15	The Call Log that saves theOutgoing call, Received call, orLost call information can bedisplayed by pressing Call LogDisplay Button. The maximumsize of the Call Log per station isdefined here.	15~50	15
15	REPEAT DTMF TONE (1:ON/0:OFF): OFF	When enabled, the system willprovide DTMF repeat tone to thecaller's station. It's nothing to do with PSTN.	0: OFF 1: ON	OFF

Table 3.3.6.1-1 SYSTEM ATTRIBUTES I (PGM 160)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	AUTH RETRY COUNT (1-9): 3	If a CO's have "CO/IP groupAuthorization" set to ON inPGM141, 8th or the Stationshave "Station Account" set to ONin PGM112, 19th then a validauthorization code must beentered to make an external COcall. When user fails to enter a validAuthorization code in thenumber of attempts assigned inthis field, the station isdisconnected or the Station COSis changed to COS 7. If the COS 7 WHEN AUTH FAIL,PGM 161, 17th is on then thestation COS is changed to COS7 otherwise the station isdisconnected. When the stationCOS is changed COS 7, theuser must employ COS Restorein Station User PGM 2 toreturn the station to the normalCOS.	1 ~ 9	3
17	CONFROOM CO TELNUMBER CO TEL:	ISDN DID number an externalparty must dial to enter aConference room. UCS Client must pre-establishthe Conf Room.	8 digits	
18	MPB DIFFSERV TAG(00-63): 04	MPB Diff-Serv pre-tag value.	00-63	04
19	UPGRADE MODE (1:FTP/0:TFTP): FTP	Upgrade transfer mode fromMPB to IP devices.	1: FTP 0: TFTP	FTP
20	TRANSFER TONE (1:RBT/0:MOH): RBT	When a CO call is transferred toa busy extension, Ring BackTone or Music On Hold will beplayed to the CO Line.	0: MOH 1: RBT	RBT
21	CONF WARN TONE (1:ON/0:OFF) : ON	As new members join aconference room, the systemprovides warning tone toconference members.	0: OFF 1: ON	ON
22	TLS for WEB (1:ON/0:OFF) : OFF	Enables Transport LayerSecurity TLS for Web access.	0: OFF 1: ON	OFF
23	DUMMY DIAL TONE (1:ON/0:OFF) : OFF	When a CO/IP line does notprovide dial tone, the systemcan provide dummy dial tone tothe user.	0: OFF 1: ON	OFF
24	SYSTEM 2 ADDED ATTR PRESS FLEX KEY (01-23)	Select button24 to access addedattributes 1~23.	FLEX 1 ~ FLEX 23	

Table 3.3.6.1-1 SYSTEM ATTRIBUTES I (PGM 160)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-1	SIP STA MODE (1:PTP/0:RTD): RTD	SIP phones may set-up apoint-to-point RTP connection(PTP) or to assure a controlledconnection, RTP can be routedvia a VoIP channel (RTD).	0: RTD 1: PTP	ROUTED
24-2	SYS AUTH END CODE(#) (1:ON/0:OFF) : OFF	If this value is set to ON, the enddialing digit (#) must be entered whensystem Auth code is entered.	0: OFF 1: ON	OFF
24-3	STN VM FEATURE USAGE (1:ON/0:OFF) : ON	If this value is set to ON, Station VM feature (PGM127) can be used.	0: OFF 1: ON	ON
24-4	REMOTE VM ACCESS (1:ON/0:OFF): ON	If this value is OFF, the user cannot access their VSFmailbox via DID, DISA CO calland so on (i.e. through CO linechannel).	0: OFF 1: ON	ON
24-5	TRANSFER TONE USAGE (1:ON/0:OFF) : OFF	If this value is ON, Warning toneis served to the [transfer to]station. This is only applied toscreened transfer case.	0: OFF 1: ON	OFF
24-6	LCR DIAL TONE DETECT (1:ON/0:OFF) : OFF	If this value is set to ON, system first checks if the CO provides dial tone in case if analog CO is seized for LCR dialing. If there's no dial tone, the call is rerouted to Alternate DMT Index. If LCR type is set to M13, LCR dial tone detect option is not applied.	0: OFF 1: ON	OFF
24-7	ICM CALL LOG (1:ON/0:OFF) : OFF	If this value is set to ON, system save and provide ICM call log for IP and LDP phone.	0: OFF 1: ON	OFF
24-8	ATD PWORD USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, system requests password below cases. When a user enters attendant program([PGM] + 0) in attendant keyset, When a user enters speed program in attendant keyset, When a user assigns attendant program code([PGM] + 0) to flexible button in attendant keyset,	0: OFF 1: ON	OFF
24-9	PICKUP STA NAME USAGE (1:ON/0:OFF) : OFF	Name of picked up station is display when pickup internal call.	0: OFF 1: ON	OFF
24-10	DISPLAY LCR MODE (1:ON/0:OFF) : ON	Display "LCR MODE" when LCR is activated.	0: OFF 1: ON	ON

Table 3.3.6.1-1 SYSTEM ATTRIBUTES I (PGM 160)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-11	EASY 5 WAKE UP USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, and PGM 161 – 5-Wake Up Usage is also set to ON, each station user can enter his wake up time, without entering wake up type, wake up index.	0: OFF 1: ON	OFF
24-12	WEB LOGIN ID USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, Login ID should be entered to login the web admin.	0: OFF 1: ON	OFF
24-13	VM MEX NOTIFY OVER LCO (1:EN/0:DIS) : DISABLE	If this value is set to ON, LCO can be used for the VM notification call to MEX. 0: DISABLE, 1: ENABLE	Refer to description	DISABLE
24-14	MODEM ASC CO LINE (00-74): 00	Call is delivered to built-in modem if calls come in from assigned CO line.	00-74	0
24-15	MEET ME SOFT DISPLAY (1:ON/0:OFF) : ON	If this value is set to OFF, {MEET ME} soft button is not displayed in being paged.	0: OFF 1: ON	ON
24-16	DEV INFO REQ INTERVAL (015-255) : 015	System checks each device by polling message periodically using this timer.	015-255	015
24-17	NUM OF CLI WAIT LIST (000-255): 000	The number of CLI wait list can be the available number.	000-255	000
24-18	EMER MAIL STA	When an Emergency Mailbox Station is assigned, an emergency call placed by a station is recorded automatically to the assigned mailbox.		
24-19	MSVC XML PORT (00001-65535) : 07878	The XML port used to support Web callback, call-through and iPECS ClickCall application for MSVC (Mobile Service) must be defined.	00001~ 65535	7878
24-20	MEXT CO PASSWD (1:ON/0:OFF) : OFF	When a mobile extension places an external call using an iPECS CO/IP Line, the user may be required to enter a valid Authorization code to place the call.	OFF ON	OFF
24-21	DIAL BY NAME LIST (0:ALL/1:GRP) : OFF	The Dial by Name feature can allow stations in any ICM tenancy groups to call a station any in ICM Tenancy group. When desired, Dial by Name can be limited to function within allowed Tenancy calling groups, PGM 125. All, Accessible ICM Group only	Refer to description	ALL

Table 3.3.6.1-1 SYSTEM ATTRIBUTES I (PGM 160)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-22	DIAL BY SYSNAME LIST (0:ALL/1:ZONE) : OFF	If this value is set to "Accessible System Speed Zone Only", the system speed dial number of Accessiblesystemspeedzone (System Speed Zone(232)) is displayed in {Dial by Name}. All, Accessible System Speed Zone Only	Refer to description	ALL
24-23	NO CLI CALL LOG (1:ON/0:OFF) : OFF	Leave system Call log even though there is no CLI information if it is ON. Otherwise Call log is not leaved.	OFF ON	OFF

Table 3.3.6.1-2 SYSTEM ATTRIBUTES II (PGM 161)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF-HOOK RING TYPE (1:MUTE/0:BURST) : MUTE	Off-hook ring can be a single tone burst or muted normal ring.	0:BURST 1:MUTE	MUTE
2	PAGE WARN TONE (1 : ON/ 0: OFF) : ON	A warning tone can be sent prior to a page announcement.	0: OFF 1: ON	ON
3	AUTOMATIC PRIVACY (1 : ON/ 0: OFF) : ON	Automatic Privacy can be disabled, allowing stations to join an active CO/IP call. A warning tone can be provided, see button 4 below.	0: OFF 1: ON	ON
4	PRIVACY WARN TONE (1 : ON/ 0: OFF) : ON	If desired, warning tone can be provided when privacy is overridden.	0: OFF 1: ON	ON
5	ACD PRINT ENABLE (1 : ON/ 0: OFF) : OFF	ACD statistics can be periodically sent to the assigned serial port. To provide periodic reports, this entry must be ON.	0: OFF 1: ON	OFF
6	ACD PRINT TIMER(1sec) (001 –255) : 001	This entry defines the time, in 10-second increments, between the periodic ACD reports.	001~255 (10 sec)	010
7	CLEAR ACD DATABASE (1 : ON/ 0: OFF) : OFF	When a periodic report is sent, the ACD database can be cleared automatically, if "ON".	0: OFF 1: ON	OFF
8	OVERRIDE 1ST CO GRP (1: ON/0: OFF) : ON	When a user dials '9', the system can search all CO/IP Groups for the first available CO/IP line.	0: OFF 1: ON	ON

Table 3.3.6.1-2 SYSTEM ATTRIBUTES II (PGM 161)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	BASE CODEC TYPE (0-3): G.711(0)	The default codec can be defined as G.711 or G.723.1 for decreased bandwidth needs. The selected codec will be used on all internal communications as well as for remote iPECS devices.	0: G.711 1: G.723.1 2:G.729 3:G.722	G.711
10	G711 PACKETIZATION(1ms) (10/20/30) : 20	The G.711 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.711 codec is used.	10/20/30	20
11	G723 PACKETIZATION(1ms) (30/60): 030	The G.723.1 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.723.1 codec is used.	30/60	030
12	NETWORK TIME/DATE (0-2) : DISABLE	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. To disable time sync, use OFF. ISDN sync is not available in USA version.	0~2	DISABLE
13	INCOMING TOLL CHK (1:ON/0:OFF) : ON	The system can invoke COS dialing restrictions when a user dials while connected to incoming call.	0: OFF 1: ON	ON
14	WEB SERVER PORT (00001-65535) : 00080	This field determines the TCP port employed to access the system WEB server.	00001~ 65535	08000
15	UNUSED			
16	OLD AUTH CODE USAGE (1:ON/0:OFF) : ON	System Authorization codes are entered by the user as "*" and the code (ON) or "*"+ the Auth code index and the code (OFF).	0: OFF 1: ON	ON
17	COS 7 WHEN AUTH FAIL (1:ON/0:OFF) : OFF	If user fails to enter a valid Authorization code in the number of attempts assigned in FAC RETRY COUNT, PGM 160-button 16, the station is disconnected or the Station COS is changed to COS 7. In the latter case, the user must employCOS Restore in Station User PGM 2 to return the station to the normal COS.	0: OFF 1: ON	OFF
18	UNIFIED MESSAGE FORMAT (1:ON/0:OFF) : OFF	System Integration Messages are sent out the defined serial or TCP channel.	0: OFF 1: ON	OFF

Table 3.3.6.1-2 SYSTEM ATTRIBUTES II (PGM 161)

вти	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
19	RECORD WARNING TONE (1:ON/0:OFF) : ON	When call recording is active, a tone can be sent to all connected parties to indicate the conversation is being recorded.	0: OFF 1: ON	ON
20/21	UNUSED	Unused.		
22	SMS CENTER NUMBER	When the PSTN will be used to send SMS, the phone number of the Short Message Service Center must be entered.	23 digits	
23	SMS PROTOCOL (0-8): NONE (0)	The Short Message Service Protocol must be selected to support SMS: O: No PSTN SMS support 1: ETSI-P1 2: ETSI-P2 3: KT-LivingNet 4: SIP-Text 5: SIP-XML 6: KT-IP-PBX 7: SKN-IP-PBX 8:KT XML	0 ~ 8	NONE
24	SYSTEM 2 ADDED ATTR PRESS FLEX KEY (1-23)	Select button 24 to access added attributes 1~23.	FLEX 1 ~ FLEX 23	
24-1	G722 PACKETIZATION(1ms) (10/20/ 30) : 20	The G.722 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.722 codec is used.	10/20/30ms ec	20
24-2	UNUSED	This filed is used only for KOREA.		
24-3	SMS CENTER CLI	When the CO/IP will be used to receive SMS, the Caller Id expected from the Short MSG Service Center must be defined.	23 digits	
24-4	TRANSIT-OUT SECURITY (1:ON/0:OFF) : ON	Check IP address for transit-out in the master system, if it is not valid IP address then it will be denied.	0: OFF 1: ON	ON
24-5	EMR CALL ATD NOTIFY (1:ON/0:OFF) : ON	Provide notification to attendant when user dials emergency number.	0: OFF 1: ON	ON
24-6	UNUSED	Unused.		

Table 3.3.6.1-2 SYSTEM ATTRIBUTES II (PGM 161)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-7	FIRST DIGIT * IN SPD DISPLAY SECURITY (0)	If it is '0' then the first '*' in speed will be used for display security otherwise DTMF '*' will be send. 0: DISPLAY SECURITY, 1: DIGIT*	Refer to description	0
24-8	STRONG PASSWORD (1:ON/0:OFF) :OFF	ON: Password in PGM162 must be longer than 8 and made by Numbers, Characters.	0: OFF 1: ON	ON
24-9	VSF SMTP PORT (00001~65535): 00025	SMTP port of VMIU/VMIB	00001 ~65535	00025
24-10	ICM BUSY SVC (1:INTR/0:OHVO): OHVO	If ICM busy, choice OHVO or Intrusion.	0: OHVO 1: INTR	ОНVО
24-11	AUTO SAVE NEW MEG (1:ON/0:OFF) : OFF	If it's ON, Move current (new) message to saved message category. If it is OFF, leave it in new message category.	0: OFF 1: ON	OFF
24-12	IGMP QUERY USAGE (1:ON/0:OFF) : OFF	Regarding PGM161 (Flex 24-12 to 15) are used when there are some problems in multicast packet forwarding like as registering devices or multicast MOH. With some multicast snoop enabled switch devices, they do not forward multicast packets if there is no IGMP query device in the network. This entity enables the IGMPquery option and MPB sendsIGMP query message withperiodic to avoid multicastrelated problem.	0: OFF 1: ON	OFF
24-13	IGMP INTV_TMR(1sec) (0000~3600) : 0180	This timer defines the intervaltime of each IGMP querymessages. With some specialswitches, this timer value shouldbe modified.	0~3600 sec	180
24-14	IGMP QUERY ALL HOSTS (1:ON/0:OFF) : ON	This entity defines whichdestination address is usedwhen IGMP query is sent to. IfON is selected, query messageis sent to ALL HOST group byusing address 224.0.0.1. AndOFF is selected, query is sentto iPECS specific address byusing address 239.20.19.50.This should be ON when there isa MOH problem.	0: OFF 1: ON	ON

Table 3.3.6.1-2 SYSTEM ATTRIBUTES II (PGM 161)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-15	IGMP QUERY GENERIC (1:ON/0:OFF) : OFF	This entity specifies a groupaddress being queried. If ON isselected, all multicast group arequeried. If OFF is selected,iPECS registering devicegroup (239.20.19.50) is onlyqueried. This should be ONwhen there is a MOH problem.	0: OFF 1: ON	OFF
24-16	UNUSED			
24-17	RESTRICT * AND # (1:ON/0:OFF) : OFF	If it's ON, if the first digit is * or #then the call will be prohibited.	0: OFF 1: ON	OFF
24-18	RESTRICT ANS DGT DISP (1:ON/0:OFF) : ON	If it's OFF, SMDR print digitsafter answer.	0: OFF 1: ON	ON
24-19	IP BIND USAGE (1:ON/0:OFF) : OFF	If It's ON, VOIU/VOIB will applyIP-Binding with information inPGM130 (Flex 18 – Flex 24-3) /PGM133 (Media port)	0: OFF 1: ON	OFF
24-20	ACD MAILSEND WEEKLYSET N/A (0-7)	Sets day of week to send ACDstatistic data weekly. (0 for noweekly data, 1-7 for Mondaythrough Sunday)	0-7	0
24-21	ACD MAILSEND DAILY SET(00-23)	Sets time-of-day for ACDstatistic data to be sent on adaily basis. (00 for no dailyrecords, 01-23 for hour of theday)	00-23	
24-22	ACD DEL AFTER MAILSEND (1 : ON/ 0: OFF) : OFF	Delete ACD statistic data aftersending e-mail.	0: OFF 1: ON	OFF
24-23	NEW 5 WAKE UP USAGE (1:ON/0:OFF) : OFF	New Wake-Up function usageoption.	0: OFF 1: ON	OFF

3.3.6.2 System Password – PGM 162

Access to the system database and maintenance functions can be protected by passwords up to twelve (12) digits. Three passwords can be defined, Keyset Admin, Remote access, and CID.

The Maintenance password has full and unlimited access to the database and maintenance functions of the system.

The User and Admin password have access to database items defined in Web Admin. Note there are no default passwords.

PROCEDURE	
SYSTEM PASSWORD PRESS FLEX KEY (1-3)	Press the [PGM] button and dial 162.
KEYSET ADMIN PASSWORD @@@@@@@@@@@@@	Press the Flex button for the desired password: - For the Keyset Admin password press Flex button 1 For the Remote access password press Flex button 2 For the CID password press Flex button 3.
REMOTE ACCESS PASSWORD @@@@@@@@@@@@@@	Enter the desired password, up to 12 digits. To erase a password press the [SPEED] button.
CID PASSWORD @@@@@@@@@@@@@	Enter the desired password, up to 12 digits. To erase a password press the [SPEED] button. Press the [Save] button to store the password entry.

Table 3.3.6.2-1 System Passwords

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	KEYSET ADMIN PASSWORD @@@@@@@@@@@@	Admin password, configurable database access in Keyset Admin.	12 digits	none
2	REMOTE ACCESS PASSWORD @@@@@@@@@@@@@	Remote access password, full and unlimited access to database and maintenance functions.	12 digits	none
3	CID PASSWORD @@@@@@@@@@@@@	CID password.	12 digits	none

3.3.6.3 Alarm Attributes – PGM 163

The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the external contact.

The Alarm Signal sent to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates.

Refer to Table 3.3.6.3-1 for a description of the features, the data entries required and LCD displays for each attribute.

PROCEDURE	
	Press the [PGM] button and dial 163.
CVCTEM ALADM ATT	Press the desired Flex button; refer to Table 3.3.6.3-1.
SYSTEM ALARM ATT PRESS FLEX KEY (1-8)	Use the dial-pad to enter desired data for the attribute, refer to Table
	3.3.6.3-1.
	Press the [Save] button to store the data entry.

Table 3.3.6.3-1 ALARM ATTRIBUTES (PGM 163)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ALARM ENABLE (1:ON/0:OFF) : OFF	This parameter enables the external contact monitoring circuitry.	0: OFF 1: ON	OFF
2	ALARM CONTACT TYPE (1:CLOSE/0:OPEN) : CLOSE	This parameter establishes the contact state that will activate the Alarm, close or open.	0: Open 1: Close	CLOSE
3	ALARM/DOORBELL MODE (1:ALARM/0:BELL): ALARM	The contact can be treated to function as a doorbell instead of an alarm.	0: Bell 1: Alarm	ALARM
4	ALARM SIGNAL MODE (1:RPT/0:ONCE) : RPT	The assigned stations will receive a Repeating signal or single burst (ONCE) of alarm tone.	0: Once 1: Repeat	RPT
5	EMER CALL NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the emergency call notification.	0: OFF 1: ON	ON
6	DCOB FAULT NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the DCOB Fault notification.	0: OFF 1: ON	ON
7	SIP REG FAULT NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the SIP Registration Fault notification.	0: OFF 1: ON	ON
8	TEMP LICENSE NOTIFY (1:ON/0:OFF) : ON	This entry enables user to get the notification before expiring Temp license.	0: OFF 1: ON	ON

3.3.6.4 Attendant Assignment – PGM 164

eMG80/100 is consist of 1 System attendant and 3 Main attendant. eMG800 is consist of 1 System attendant and 4 Main attendant. The System Attendant has higher priority in call handling and system management functions with access to PGM 0. As a default, the System Attendant is assigned Station 100 for eMG80/100 and Station 1000 for eMG800. Main Attendants are not assigned by default.

PROCEDURE	
ATTENDANT ASSIGNMENT 100	Press the [PGM] button and dial 164.
	Select the desired button:
	- Button 1: System Attendant
ATTENDANT ASSIGNMENT	- Button 2: Main Attendants
	Use the dial-pad to enter desired station numbers for the System and Main
100	Attendants. Use the [SPEED] button to erase an entry and the
	[VOL UP]/[VOL DOWN] button to scroll through the Main Attendants.
	Press the [Save] button to store the Attendant assignment entry.

3.3.6.5 Multi-cast RTP/RTCP Ports - PGM 165

Multi-cast is employed by the system to send BGM, MOH, paging and Push-To-Talk packets. Employing a single multi-cast packet reduces the overall LAN traffic. In some cases, specifically when multiple systems are connected to the same default router it may be advantageous to define different ports for each system.

PROCEDURE	
MULTICAST RTP/RTCP PRESS FLEX KEY (1-2)	Press the [PGM] button and dial 165.
	Press Flex button 1 for RTP ports or Flex button 2 for RTCP ports.
MULTICAST RTP PRESS FLEX_KEY (01-24)	Press the desired Flex button; refer to Table 3.3.6.5-1. The 24 Flex buttons are used to assign ports for the first 24 RTP/RTCP functions. To assign port numbers for additional RTP/RTCP functions, use the [VOL UP] / [VOL DOWN] buttons.
	Use the dial-pad to enter desired data for the port, refer to Table 3.3.6.5-1.

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	M-CAST RTP BGM INT 8100 (8101)	RTP and RTCP ports for internal BGM.	0000-9999	8100 (8101)
2	M-CAST RTP BGM EXT 1 8102 (8103)	RTP and RTCP ports for external BGM 1.	0000-9999	8102 (8103)

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	M-CAST RTP BGM EXT 2 8104 (8105)	RTP and RTCP ports for external BGM 2.	0000-9999	8104 (8105)
4	M-CAST RTP I-PAGE 1 8106 (8107)	RTP and RTCP ports for Internal Page 1.	0000-9999	8106 (8107)
5	M-CAST RTP I-PAGE 2 8108 (8109)	RTP and RTCP ports for Internal Page 2.	0000-9999	8108 (8109)
6	M-CAST RTP I-PAGE 3 8110 (8111)	RTP and RTCP ports for Internal Page 3.	0000-9999	8110 (8111)
7	M-CAST RTP I-PAGE 4 8112 (8113)	RTP and RTCP ports for Internal Page 4.	0000-9999	8112 (8113)
8	M-CAST RTP I-PAGE 5 8114 (8115)	RTP and RTCP ports for Internal Page 5.	0000-9999	8114 (8115)
9	M-CAST RTP I-PAGE 6 8116 (8117)	RTP and RTCP ports for Internal Page 6.	0000-9999	8116 (8117)
10	M-CAST RTP(RTCP) I-PAGE 7 8118 (8119)	RTP and RTCP ports for Internal Page 7.	0000-9999	8118 (8119)
11	M-CAST RTP I-PAGE 8 8120 (8121)	RTP and RTCP ports for Internal Page 8.	0000-9999	8120 (8121)
12	M-CAST RTP I-PAGE 9 8122 (8123)	RTP and RTCP ports for Internal Page 9.	0000-9999	8122 (8123)
13	M-CAST RTP I-PAGE 10 8124 (8125)	RTP and RTCP ports for Internal Page 10.	0000-9999	8124 (8125)
14	M-CAST RTP I-PAGE 11 8126 (8127)	RTP and RTCP ports for Internal Page 11.	0000-9999	8126 (8127)
15	M-CAST RTP I-PAGE 12 8128 (8129)	RTP and RTCP ports for Internal Page 12.	0000-9999	8128 (8129)

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

вти	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	M-CAST RTP I-PAGE 13 8130 (8131)	RTP and RTCP ports for Internal Page 13.	0000-9999	8130 (8131)
17	M-CAST RTP I-PAGE 14 8132 (8133)	RTP and RTCP ports for Internal Page 14.	0000-9999	8132 (8133)
18	M-CAST RTP I-PAGE 15 8134 (8135)	RTP and RTCP ports for Internal Page 15.	0000-9999	8134 (8135)
19	M-CAST RTP I-PAGE 16 8136 (8137)	RTP and RTCP ports for Internal Page 16.	0000-9999	8136 (8137)
20	M-CAST RTP I-PAGE 17 8138 (8139)	RTP and RTCP ports for Internal Page 17.	0000-9999	8138 (8139)
21	M-CAST RTP I-PAGE 18 8140 (8141)	RTP and RTCP ports for Internal Page 18.	0000-9999	8140 (8141)
22	M-CAST RTP I-PAGE 19 8142 (8143)	RTP and RTCP ports for Internal Page 19.	0000-9999	8142 (8143)
23	M-CAST RTP I-PAGE 20 8144 (8145)	RTP and RTCP ports for Internal Page 20.	0000-9999	8144 (8145)
24	M-CAST RTP I-PAGE 21 8146 (8147)	RTP and RTCP ports for Internal Page 21.	0000-9999	8146 (8147)
25	M-CAST RTP I-PAGE 22 8148 (8149)	RTP and RTCP ports for Internal Page 22.	0000-9999	8148 (8149)
26	M-CAST RTP I-PAGE 23 8150 (8151)	RTP and RTCP ports for Internal Page 23.	0000-9999	8150 (8151)
27	M-CAST RTP I-PAGE 24 8152 (8153)	RTP and RTCP ports for Internal Page 24.	0000-9999	8152 (8153)
28	M-CAST RTP I-PAGE 25 8154 (8155)	RTP and RTCP ports for Internal Page 25.	0000-9999	8154 (8155)

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
29	M-CAST RTP I-PAGE 26 8156 (8157)	RTP and RTCP ports for Internal Page 26.	0000-9999	8156 (8157)
30	M-CAST RTP I-PAGE 27 8158 (8159)	RTP and RTCP ports for Internal Page 27.	0000-9999	8158 (8159)
31	M-CAST RTP I-PAGE 28 8160 (8161)	RTP and RTCP ports for Internal Page 28.	0000-9999	8160 (8161)
32	M-CAST RTP I-PAGE 29 8162 (8163)	RTP and RTCP ports for Internal Page 29.	0000-9999	8162 (8163)
33	M-CAST RTP I-PAGE 30 8164 (8165)	RTP and RTCP ports for Internal Page 30.	0000-9999	8164 (8165)
34	M-CAST RTP I-PAGE 31 8166 (8167)	RTP and RTCP ports for Internal Page 31.	0000-9999	8166 (8167)
35	M-CAST RTP I-PAGE 32 8168 (8169)	RTP and RTCP ports for Internal Page 32.	0000-9999	8168 (8169)
36	M-CAST RTP I-PAGE 33 8170 (8171)	RTP and RTCP ports for Internal Page 33.	0000-9999	8170 (8171)
37	M-CAST RTP I-PAGE 34 8172 (8173)	RTP and RTCP ports for Internal Page 34.	0000-9999	8172 (8173)
38	M-CAST RTP I-PAGE 35 8174 (8175)	RTP and RTCP ports for Internal Page 35.	0000-9999	8174 (8175)
39	M-CAST RTP I-PAGE ALL 8176 (8177)	RTP and RTCP ports for Internal All Call Page.	0000-9999	8176 (8177)
40	M-CAST RTP E-PAGE 1 8178 (8179)	RTP and RTCP ports for External Page 1.	0000-9999	8178 (8179)
41	MULTICAST RTP E-PAGE 2 8180 (8181)	RTP and RTCP ports for External Page 2.	0000-9999	8180 (8181)

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
42	M-CAST RTP E-PAGE ALL 8182 (8183)	RTP and RTCP ports for External All Call Page.	0000-9999	8182 (8183)
43	M-CAST RTP PAGE ALL 8184 (8185)	RTP and RTCP ports for All Call Page.	0000-9999	8184 (8185)
44	M-CAST RTP PTT 1 8186 (8187)	RTP and RTCP ports for PTT group 1.	0000-9999	8186 (8187)
45	M-CAST RTP PTT 2 8188 (8189)	RTP and RTCP ports for PTT group 2.	0000-9999	8188 (8189)
46	M-CAST RTP PTT 3 8190 (8191)	RTP and RTCP ports for PTT group 3.	0000-9999	8190 (8191)
47	M-CAST RTP PTT 4 8192 (8193)	RTP and RTCP ports for PTT group 4.	0000-9999	8192 (8193)
48	M-CAST RTP PTT 5 8194 (8195)	RTP and RTCP ports for PTT group 5.	0000-9999	8194 (8195)
49	M-CAST RTP PTT 6 8196 (8197)	RTP and RTCP ports for PTT group 6.	0000-9999	8196 (8197)
50	M-CAST RTP PTT 7 8198 (8199)	RTP and RTCP ports for PTT group 7.	0000-9999	8198 (8199)
51	M-CAST RTP PTT 8 8200 (8201)	RTP and RTCP ports for PTT group 8.	0000-9999	8200 (8201)
52	M-CAST RTP PTT 9 8202 (8203)	RTP and RTCP ports for PTT group 9.	0000-9999	8202 (8203)
53	M-CAST RTP PTT ALL 8204 (8205)	RTP and RTCP ports for PTT group ALL.	0000-9999	8204 (8205)
54	M-CAST RTP BGM VSF 1 8206 (8207)	RTP and RTCP ports for VSF/VMIB BGM use.	0000-9999	8206 (8207)

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
55	M-CAST RTP SLT MOH 1 8208 (8209)	RTP and RTCP ports for SLT MOH 1 use.	0000-9999	8208 (8209)
56	M-CAST RTP SLT MOH 2 8210 (8211)	RTP and RTCP ports for SLT MOH 2 use.	0000-9999	8210 (8211)
57	M-CAST RTP SLT MOH 3 8212 (8213)	RTP and RTCP ports for SLT MOH 3 use.	0000-9999	8212 (8213)
58	M-CAST RTP SLT MOH 4 8214 (8215)	RTP and RTCP ports for SLT MOH 4 use.	0000-9999	8214 (8215)
59	M-CAST RTP SLT MOH 5 8216 (8217)	RTP and RTCP ports for SLT MOH 5 use.	0000-9999	8216 (8217)
60	M-CAST RTP VSF MOH 2 8218 (8219)	RTP and RTCP ports for VSF/VMIB MOH 2 use.	0000-9999	8218 (8219)
61	M-CAST RTP VSF MOH 3 8220 (8221)	RTP and RTCP ports for VSF/VMIB MOH 3 use.	0000-9999	8220 (8221)
62~83	M-CAST RTP VSF MOH 4-30 8222~8328 (8221~8329)	RTP and RTCP ports for VSF/VMIB MOH 4 ~ 30 use.	0000-9999	8222~8328 (8221~8329)

3.3.6.6 DISA COS - PGM 166

A DISA user is subject to the dialing restrictions assigned in the DISA Class-of-Service (COS). The restrictions applied are the same as with the corresponding Station COS levels 1~11 and interact with the CO COS in the same manner.

Assignments for DISA COS are made for the Day, Timed and Night mode of system operation. The default for all three DISA COS modes is 1, no restrictions.

PROCEDURE	
	Press the [PGM] button and dial 166.
	Select the desired button;
DISA COS (1 – 11)	- Button 1: Day mode COS
, ,	- Button 2: Night mode COS
DAY: 07 NIGHT: 07 TIMED:07	- Button 3: Timed mode COS
	Use the dial-pad to enter desired DISA COS (1~11).
	Press the [Save] button to store the DISA COS data entry.

3.3.6.7 DID/DISA Destination – PGM 167

When a DID line or DISA user dials an invalid/vacant or busy station number the caller will be sent to the assigned destination that is selected according to the CO tenancy group of the DID/DISA line.

The destination is separately defined for invalid, busy, no answer and DND conditions and can be defined as the Attendant, busy tone, Station Group or VSF System Announcement.

Note that for calls on a DID line to a busy station, Call Wait can be assigned, refer to PGM 113, Station Attributes III, button 9.

Also, for DID calls only, announcements (prompts) can be sent from the VSF to the caller for various conditions, busy, error, DND, No Answer, reroute busy, reroute error, reroute no answer, or Attendant Transfer.

PROCEDURE	
DID/DISA DESTINATION ENTER ICM GROUP (00-15)	Press the [PGM] button and dial 167. Select ICM tenancy group (eMG80/100:0~15 / eMG800:0~32)
DID/DISA DESTINATION :0 PRESS FLEXKEY (1-9)	Press the [PGM] button and dial 167 and press Flexible button (Ex.1).
BUSY DESTINATION TONE (F1-F4)	Select the desired Flex button, Button 1: Busy Destination (F1-F4) Button 2: Error Destination (F1-F4) Button 3: No Answer Destination (F1-F4) Button 4: VSF Prompt Usage (F1-F5) Button 5: Reroute Busy Destination (F1-F3) Button 6: Reroute Error Destination (F1-F3) Button 7: Reroute No answer Destination (F1-F3) Button 8: DND destination (F1-F3) Button 9: Reroute NET CO BUSY Destination (F1-F3) For Flex button 1~3 or 1~4, use the dial-pad to enter 1: ON or 0: OFF for the following VSF prompts. 1: Tone 2: Attendant 3: Station Group number 4: VSF Announcement For Flex button 4, select Flex button 1~5 for the desired VSF prompt and use the dial-pad to enter 1: ON or 0: OFF: Button 1: Busy Prompt
	 Button 2: Error Prompt Button 3: DND Prompt Button 4: No Answer Prompt Button 5: Attendant Transfer Prompt Press the [Save] button to store the destination data entry.

3.3.6.8 External Control Contacts - PGM 168

The MPBs include programmable contacts, which can be used to control external devices. Refer to Table 1.1-1 System Capacity Chart for number of available contacts. Each contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station or group receives an external call. Note for LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UNA calls and will ignore any station assignment. The contact may alternatively activate as a Door open contact, when External Page Zone 1 is accessed.

PROCEDURE	
EXT CONTROL CONTACT PRESS FLEXKEY (1-2)	Press the [PGM] button and dial 168.
	Select Flex button 1~2 for the desired External Control contact.
	Use the dial-pad to enter desired data.
EXT CONTROL CONTACT	- 1: LBC + station number
NO 1: (1-3)	- 2: Door open
	- 3: External Page 1 access
	Press the [Save] button to store the External Contact data entry.

3.3.6.9 LCD Display Mode -PGM 169

The LCD display mode sets the time (12/24 hr.), date (day/month order), language and day-of-week display.

Refer to Table 3.3.6.9-1 and Table 3.3.6.9-2 for a description of the modes, the data entries required and LCD displays for each attribute.

PROCEDURE	
	Press the [PGM] button and dial 169.
LCD DISPLAY MODE	Select the desired Flex button; refer to Table 3.3.6.9-1.
	Use the dial-pad to enter the desired mode and language, refer to
PRESS FLEX KEY (1-4)	Table 3.3.6.9-1 and Table 3.3.6.9-2.
	Press the [Save] button to store the LCD Display mode data entry.

Table 3.3.6.9-1 LCD DISPLAY MODE (PGM 169)

вти	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LCD DATE MODE (1:MMDD/0:DDMM):MMDDYY	Sets the Date display as month/day or day/month. 0: DD-MM-YY, 1: MM-DD-YY	Refer to description	MMDDYY
2	LCD TIME MODE (1:12H/0:24H):12H	Sets the Time display mode as 12 hour or 24-hour (military) time. 0: 24 Hour Mode, 1: 12 Hour Mode	Refer to description	12 Hour
3	LCD LANGUAGE (00-18) ENGLISH (00)	Sets the Language used in the LCD. Refer to Table 3.3.6.9-2 below.	00~18	00 (English)
4	LCD WEEKDAY MODE (0-2) PGM 169 BTN 1 (0)	Sets the Day-of-Week (DoW) display mode: 0: no DoW, see PGM 169-BTN1 1: display MM/DD WDY,alpha month display, overridesbutton 1. 2: display MM DD WDY, numeric month display, overrides button 1.	Refer to description	Use button 1

Table 3.3.6.9-2 LCD LANGUAGE SELECTION

ENTRY	LANGUAGE	ENTRY	LANGUAGE	ENTRY	LANGUAGE	ENTRY	LANGUAGE
00	English	05	Danish	10	Portuguese	15	Turkish
01	Italian	06	Norwegian	11	Spanish	16	Polish
02	Finnish	07	Hebrew	12	Korean	17	Greek
03	Dutch	08	German	13	Estonian	18	Arabic
04	Swedish	09	French	14	Russian		

3.3.6.10 Button LED Flash Rate - PGM 170

The LED flash rate for various functions and states can be assigned any one of the system's 15 signals. The various functions and states are shown in Table 3.3.6.10-1. The 15 flash signals available in the system are shown in Table 3.3.6.10-2.

PROCEDURE	
LED FLASHING RATE PRESS FLEX_KEY (1-24)	Press the [PGM] button and dial 170.
	There are 35 Flash rate entries represented by Flex buttons. To access
	entries 25 to 35, use the [VOL UP]/[VOL DOWN] buttons. Press the
LED FLASHING RATE	desired Flex button; refer to Table 3.3.6.10-1.
PRESS FLEX KEY (25-35)	Use the dial-pad to enter desired data for the flash rate, refer to Table
	3.3.6.10-1 and Table 3.3.6.10-2.
	Press the [Save] button to store the Flash Rate data entry.

Table 3.3.6.10-1 BUTTON LED FLASH RATE (PGM 170)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	COL IN RING FLASH 30 IPM	CO button Incoming ring flashing rate.	00-14	FLASH 30 IPM (2)
2	COL XFER RING FLASH 120 IPM	CO button transfer ring flashing rate.	00-14	FLASH 120 IPM(10)
3	COL QUE RING FLASH 240 IPM FLUTTER	CO button queue call back ring flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
4	COL RCL RING FLASH 480 IPM FLUTTER	CO button recall ring flashing rate.	00-14	FLASH 480 IPM FLUTTER(8)
5	COL I HOLD RING FLASH 30 IPM WINK	CO button I hold flashing rate.	00-14	FLASH 30 IPM WINK(12)
6	COL SYS HOLD RING FLASH 60 IPM	CO button system hold flashing rate.	00-14	FLASH 60 IPM (3)
7	COL EXC HOLD RING FLASH 120 IPM	CO button exclusive hold flashing rate.	00-14	FLASH 120 IPM(10)
8	COL OUT DISABLED FLASH 240 IPM FLUTTER	CO button out going disabled flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)

Table 3.3.6.10-1 BUTTON LED FLASH RATE (PGM 170)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	COL IN OFFNET CFW FLASH 240 IPM FLUTTER	CO button incoming off-net call forward flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
10	COL DISA IND FLASH 240 IPM	CO button DISA indication flashing rate.	00-14	FLASH 240 IPM(5)
11	COL SUPP CW FLASH 240 IPM FLUTTER	CO button supplementary call waiting flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
12	COL SUPP HOLD FLASH 480 IPM	CO button supplementary hold flashing rate.	00-14	FLASH 480 IPM(7)
13	DSS CO RING FLASH 30 IPM	DSS button CO ring flashing rate.	00-14	FLASH 30 IPM (2)
14	DSS ALL RING FLASH 60 IPM	DSS button ICM ALL ring flashing rate.	00-14	FLASH 60 IPM (3)
15	DSS ASC RING FLASH 120 IPM	DSS button ICM ring associate device flashing rate.	00-14	FLASH 120 IPM(10)
16	DSS IN DND FLASH 60 IPM	DSS button station in DND.	00-14	FLASH 60 IPM (3)
17	DSS LOCK OUT FLASH 480 IPM FLUTTER	DSS button station in lockout.	00-14	FLASH 480 IPM FLUTTER(8)
18	DSS PRESEL MSG FLASH 30 IPM	DSS button station in pre-selected message.	00-14	FLASH 30 IPM (2)
19	DSS ICM HOLD FLASH 60 IPM	DSS button station on ICM hold.	00-14	FLASH 60 IPM (3)
20	DSS OTHER FLASH 120 IPM	DSS button station in other state.	00-14	FLASH 120 IPM(10)
21	UCD QUE RING 2 FLASH 60 IPM	CIQ Threshold # 1.	00-14	FLASH 60 IPM (3)

Table 3.3.6.10-1 BUTTON LED FLASH RATE (PGM 170)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
22	UCD QUE RING 6 FLASH 120 IPM	CIQ Threshold # 2.	00-14	FLASH 120 IPM(10)
23	UCD QUE RING 7-X FLASH 240 IPM	CIQ Threshold # 3.	00-14	FLASH 240 IPM(5)
24	UCD DND(OFF DUTY) FLASH 120 IPM	UCD agent is off duty (UCD DND).	00-14	FLASH 120 IPM(10)
25	UCD WARNING FLASH 120 IPM	UCD warning tone.	00-14	FLASH 120 IPM(10)
26	UCD HELP FLASH 120 IPM	UCD help request/response.	00-14	FLASH 120 IPM(10)
27	FEATURE RECORD FLASH 240 IPM	FEATURE voice record button.	00-14	FLASH 240 IPM(5)
28	FEATURE MSG WAIT FLASH 30 IPM	FEATURE message wait.	00-14	FLASH 30 IPM (2)
29	DSS OUT OF SERVICE FLASH OFF	Station in out-of-service state.	00-14	FLASH OFF (00)
30	ON DEMAND RING MODE FLASH 60 IPM	DND LED of attendant for ring mode indication (On-demand).	00-14	FLASH 60 IPM (3)
31	NIGHT RING MODE FLASH STEADY	DND LED of attendant for ring mode indication (Night).	00-14	FLASH STEADY(01)
32	TIMED RING MODE FLASH 240 IPM	DND LED of attendant for ring mode indication (TIMED).	00-14	FLASH 240 IPM(5)
33	AUTO RING MODE FLASH 480 IPM	DND LED of attendant for ring mode indication (AUTO).	00-14	FLASH 480 IPM(7)
34	PAGE HOLD BUTTON FLASH 60 IPM	HOLD LED for paging.	00-14	FLASH 60 IPM (3)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
35	DSS OFF DUTY FLASH 120 IPM	DSS button station in Hunt DND.	00-14	FLASH 120 IPM (10)
36	CALLBK FLASH OFF	Message wait (call back).	00-14	FLASH OFF

Table 3.3.6.10-2 FLASH RATE TABLE (PGM 170)

Flash Rate	DESCRIPTION
00	Flash OFF
01	Steady On
02	30 ipm flash (30% On)
03	60 ipm flash (30% On)
04	60 ipm double wink (30% On-Off-On-Off & 70% On)
05	240 ipm flash (30% On)
06	240 ipm flutter (30% On-Off-On-Off-On & 70% Off)
07	480 ipm flash (30% On)
08	480 ipm flutter (30% On-Off-On-Off-On & 70% Off)
09	15 ipm flash (30% On)
10	120 ipm flash (30% On)
11	120 ipm flutter (30% On-Off-On-Off-On & 70% Off)
12	30 ipm double flash (30% On-Off-On & 70% Off)
13	480 ipm double wink (30% On-Off-On-Off & 70% On)
14	480 ipm double flash (30% On-Off-On & 70% Off)

3.3.6.11 Music Sources - PGM 171

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. MPBs provide for two (2) music inputs.

The first input is the internal source and the second is external. In addition, a VMIU or VMIB announcement may be recorded and played as MOH to a holding caller. And SLIB port is used as MOH to a holding caller.

PROCEDURE	
	Press the [PGM] button and dial 171.
MUSIC ASSIGN	Select the desired Flex button; refer to Table 3.3.6.11-1.
PRESS FLEX KEY (1-6)	Use the dial-pad to select the desired Music Source, refer to Table 3.3.6.11-1.
	To save the Music Source, press the [Save] button.

Table 3.3.6.11-1 MUSIC SOURCES FOR MOH & BGM (PGM 171)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	BGM TYPE (00-37) MUSIC 1 (01)	Assigns the source for BGM. O0: No BGM O1: INT Music O2: EXT Music O3: VSF MOH O4~08: SLT MOH1~5, O9~10: VSF MOH2~3 11~37: VSF MOH4~30	Refer to description	Music 1
2	MOH TYPE (00-37) MUSIC 1 (01)	Assigns the source for MOH. O0: Hold tone O1: INT Music O2: EXT Music O3: VSF MOH O4~08: SLT MOH1~5 O9~10: VSF MOH2~3 11~37: VSF MOH4~30	Refer to description	Music 1
3	INT MOH TYPE (00-12) ROMANCE (00)	Assigns the input for source 1. 00: ROMANCE 101: TURKISH MARCH 22: GREEN SLEEVE 33: FUR ELISE 404: CARMEN 55: WALTZ 66: PAVANE 77: SICHILIANO 88: SONATA 99: SPRING 10: CAMPANELLA 11: BADINERIE 12: BLUE DANUBE	Refer to description	ROMANCE
4	ASGN SLT MOH (F1-F5)	Assign the SLIB port as a SLTMOH. • F1-F5:SLTMOH1-5	Refer to description	
5	VSF MOH2 (01-70) VSF NO ()	A system announcement could be used for VSF MOH 2	01-70	N/A
6	VSF MOH3 (01-70) VSF NO ()	A system announcement could be used for VSF MOH 3	01-70	N/A
7~33	VSF MOH4~30 (01-70) VSF NO ()	A system announcement could be used for VSF MOH 4~30	01-70	N/A

3.3.6.12 PABX Access Codes - PGM 172

When the system is used "behind" a PBX/CTX, the system needs to recognize the PBX/CTX Trunk access codes to implement dialing restriction, tone detection sequences and Flash timing.

A maximum of four (4) Trunk Access Codes of one (1) or two (2) digits can be entered.

PROCEDURE	
PABX ACCESS CODE PRESS FLEXKEY (1-4)	Press the [PGM] button and dial 172.
	Select the Flex button for the desired Access Code (button 1~4).
PABX ACCESS CODE 1	Use the dial-pad to enter the PABX Trunk Access Code, two (2) digits 0~9,
	Use "*" as a wild card (any digit) entry.
	Press the [Save] button to store the access code data entry.

3.3.6.13 Ringing Line Preference Priority – PGM 173

When multiple calls are ringing at a station assigned Ringing Line Preference, the order of preference can be assigned based on the type of call; CO/IP Transfer (XFR), CO/IP Recall (REC), Incoming call (INC), or CO/IP Queue (QUE).

ICM calls are always assigned the lowest priority.

PROCEDURE	
XFR REC INC QUE 1 2 3 4	Press the [PGM] button and dial 173. Select the Flex button for the desired Call Type; refer to Table 3.3.6.13-1. Use the dial-pad to enter the priority 1~4. Press the [Save] button to store the RLP Priority data entry.

Table 3.3.6.13-1 RLP PRIORITY (PGM 173)

BTN	DESCRIPTION	RANGE	DEFAULT
1	CO/IP Transferred call	1~4	1
2	CO/IP Recall	1~4	2
3	CO/IP Incoming call	1~4	3
4	Queued CO/IP recall	1~4	4

3.3.6.14 RS-232 Port Settings - PGM 174

The system has an RS–232 serial port located on the MPB; refer to the **iPECS eMG Hardware Description** and Installation Manual. Certain characteristics of each port are programmable: baud rate, RS–232 control, and page settings. Refer to Table 3.3.6.14-1 for a description of the settings, the data entries required and LCD displays.

PROCEDURE	
	Press the [PGM] button and dial 174.
	Press Flex button 1 for Serial port 1 or Flex button 2 for USB COM1 port or
RS232 PORT SETTING	Flex button 3 for USB COM2 port, then select a Flex button for the desired
PRESS FLEX KEY (1-3)	attribute (e.g. Flex button 1), refer to Table 3.3.6.14-1.
	Use the dial-pad to enter the desired Port data, refer to Table 3.3.6.14-1.
	Press the [Save] button to store the Port Data entry.

Table 3.3.6.14-1 RS-232 PORT SETTINGS (PGM 174)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SERIAL1 PORT SETTING PRESS (F1-F5)	Select a Flex button for the desired attribute.	F1-F5	
1-1	SERIAL1 BAUD RATE BAUDRATE: 115200	This entry establishes the BAUD rate for the RS-232 serial port.	1: Unused 2: 9600 3: 19200 4: 38400 5: 57600 6: 115200	115200
1-2	SERIAL1 CTS/RTS (1:ON/0:OFF):OFF	The system's RS-232 port can support Clear-to-Send (CTS) and Ready-to-Send (RTS), control leads.	0: OFF 1: ON	OFF
1-3	SERIAL1 PAGE BREAK (1:ON/0:OFF):OFF	The system can send a page break command over the serial port at the end of each page. See button 4 for page length set-up.	0: OFF 1: ON	OFF
1-4	SERIAL1 LINE PAGE (001-199) : 066	This entry is used to set the page length, the number of lines the system will send before sending the page break, see button 3 above.	001~199	66
1-5	SERIAL 1 XON/XOFF (1:ON /0:OFF):XOFF	This entry enables XON/XOFFprotocol. (It is not supported)	0: OFF 1: ON	XOFF

3.3.6.15 Serial Port Function Selections - PGM 175

The system has an RS-232 serial port located on the MPB; Also, the system can employ IP over three (3) TCP channels for the output of various system information.

Each output function is assigned a Serial port or TCP channel that is used to output the information. In addition, a TCP port must be assigned when a function is defined to use a TCP channel.

The Serial port is located on the MPB; refer to the **iPECS eMG Hardware Description and Installation Manual**. Note each function can be defined to use only one output. Refer to Table 3.3.6.15-1 and Table 3.3.6.15-2 for a description of the selections, the data entries required and LCD displays.

PROCEDURE	
PRINT PORT SELECTION PRESS FLEX_KEY (1-2)	Press the [PGM] button and dial 175.
	Press Flex button 1 to assign the output type for each function or Flex button 2 to assign the TCP port for the function when a TCP channel is selected for the function.
	Select the Flex button for the desired function, refer to Table 3.3.6.15-1 or Table 3.3.6.15-2.
SELECT TCP NO PRESS FLEX_KEY (1-9)	Use the dial pad to enter the output type (Flex button 1) or TCP port (Flex button 2). For Flex button 1 the entries available are: - 1: Serial port 1 - 2: Serial port 2 - 3: TCP channel 1 - 4: TCP channel 2 - 5: TCP channel 3 - 6: USB COM1 (6) - 7: USB COM2 (7)
	Press the [Save] button to store the data entry.

Table 3.3.6.15-1 FUNCTION OUTPUT TYPE (PGM 175)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF LINE SMDR (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for Off-line SMDR/Statistics output.	1 ~ 7	SERIAL1
2	ADMIN DATA (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the ADMIN Report output.	1 ~ 7	SERIAL1
3	TRAFFIC (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the TRAFFIC report output.	1 ~ 7	SERIAL1
4	SMDI (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the SMDI output.	1 ~ 7	SERIAL1

Table 3.3.6.15-1 FUNCTION OUTPUT TYPE (PGM 175)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	CALL INFO (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used to receive Call Information output.	1 ~ 7	SERIAL1
6	ON-LINE SMDR (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the On-line SMDR.	1 ~ 7	SERIAL1
7	TRACE (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the Trace output.	1 ~ 7	SERIAL1
8	DEBUG (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the Debug output.	1 ~ 7	SERIAL1
9	ACD PACK (1-7) SERIAL 1 (1)	Defines the serial port or TCP channel used for the Unified Messages.	1 ~ 7	SERIAL1

Table 3.3.6.15-2 OUTPUT FUNCTION TCP PORT (PGM 175)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF-LINE SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for Off-line SMDR/ Statistics output.	1 ~ 9999	NULL
2	ADMIN DATA (1-9999) TCP PORT(NULL)	Defines the TCP port used for the ADMIN Report output.	1 ~ 9999	NULL
3	TRAFFIC (1-9999) TCP PORT(NULL)	Defines the TCP port used for the TRAFFIC report output.	1 ~ 9999	NULL
4	SMDI (1-9999) TCP PORT(NULL)	Defines the TCP port used for the SMDI output.	1 ~ 9999	NULL
5	CALL INFO (1-9999) TCP PORT(NULL)	Defines the TCP port used to receive Call Information output.	1 ~ 9999	NULL
6	ON-LINE SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for the On-line SMDR.	1 ~ 9999	NULL
7	TRACE (1-9999) TCP PORT(NULL)	Defines the TCP port used for the Trace output.	1 ~ 9999	NULL

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	DEBUG (1-9999) TCP PORT(NULL)	Defines the TCP port used for the Debug output.	1 ~ 9999	NULL
9	ACD PACK (1-9999) TCP PORT(NULL)	Defines the TCP port used for Unified Messages.	1 ~ 9999	NULL
10	I-SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for I- SMDR(Interactive-SMDR)	1 ~ 9999	NULL

3.3.6.16 Break/Make Ratio - PGM 176

For Pulse dial CO Lines, the system supports 10pps and the percent break/make ratios of 66/33 or 60/40.

PROCEDURE	
	Press the [PGM] button and dial 176.
BREAK/MAKE RATIO (1:66/33 / 0: 60/40): 60/40	Dial the digit (1 or 0) for the desired Break/Make ratio: - 1: 66/33 - 0: 60/40
	To save Break/Make ratio data, press the [Save] button.

3.3.6.17 SMDR Attributes - PGM 177

Station Message Detail Recording (SMDR) is an ASCII output of details on both incoming and outgoing calls. Various SMDR attributes can be assigned including; output records for all calls or LD only, call cost per pulse when using call metering, etc. Refer to Table 3.3.6.17-1 for a description of each Attribute, LCD displays and the data entries required.

PROCEDURE	
	Press the [PGM] button and dial 177.
SMDR ATTRIBUTES	Press the desired Flex button; refer to Table 3.3.6.17-1.
PRESS FLEX KEY (01-24)	Use the dial-pad to enter the desired data, refer to Table 3.3.6.17-1.
	To save SMDR Attribute data, press the [Save] button.

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SMDR SAVE (1:ON/0:OFF) : OFF	The system can store all outgoing calls (ON) or only calls that exceed the SMDR Timer (OFF). The later allows PSTN call set-up times to be removed from the recorded call time. For SMDR Timer settings refer to button 12 below.	0: OFF 1: ON	OFF

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	SMDR PRINT (1 : ON/ 0: OFF) : ON	The system can output SMDR records automatically as they occur (real-time) or only when requested. When this attribute is ON, SMDR output is automatic at call completion.	0: OFF 1: ON	ON
3	RECORD TYPE (1 : LD/ 0: ALL) : LD	The system can record all outgoing calls or only long distance calls. Long distance calls are identified by the LD digit count and LD codes assigned in Flex button 4 and 19, respectively.	0: ALL calls 1: LD	LD
4	LD CALL DIGIT COUNT (07-15): 07	Dialed numbers, which exceed the assigned LD digit count, are considered long distance calls for SMDR and COS purposes.	07-15	07
5	PRINT INCOMING CALL (1 : ON/ 0: OFF) : OFF	The system can output records for incoming calls as well as outgoing calls. If enabled, incoming calls are recorded as well as outgoing calls.	0: OFF 1: ON	OFF
6	PRINT LOST CALL (1 : ON/ 0: OFF) : ON	The system can provide lost call records, records for unanswered incoming (abandoned) calls.	0: OFF 1: ON	ON
7	RECORD IN DETAIL (1 : ON/ 0: OFF) : ON	The system can output detailed call records (ON) or summary information (total number of calls, cost and cost for each station).	0: OFF 1: ON	ON
8	HIDDEN DIALED DIGIT	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. Button 24 below defines whether leading or trailing digits are hidden. In addition, the station must be assigned for SMDR HIDE, PGM 113 button 5.	0~9	0
9	SMDR CURRENCY UNIT	The unit of currency used for call cost can be identified with 3 alpha characters for easy reference, refer to Table 2.1.2-1.		-
10	COST PER PULSE 0000000	When metering is provided by the PSTN, the cost per metering pulse can be assigned.	6 digits	000000
11	SMDR DECIMAL LOCATION (0-5): 0	This value determines the position of the decimal in the Cost per Pulse, button 10, starting from the right most digits.	0~5	0

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
12	SMDR START TIMER (1sec) (000 – 250) : 000	To allow for call set-up times through the PSTN, a "Valid call timer" can be set. A call must be longer than the SMDR Start Timer for a call record to be generated if enabled under button 1 above.	000~250 seconds	000
13	SMTP IP ADDR (WEB) 0.0.0.0	SMTP Mail server IPv4 address to receive the SMDR e-mail reports.	12-digits	
14	USER MAIL ADDR(WEB)	User e-mail address to receive the SMDR e-mail reports, display only. To change data, use Web Admin.		
15	MAIL SEND WEEKLY SET N/A (0-7)	Sets day of week to send SMDR data weekly (0 for no weekly data, 1-7 for Monday through Sunday)	0-7	0
16	MAIL SEND DAILY SET 00(00-23)	Sets time-of-day for SMDR datato be sent on a daily basis (00for no daily records, 01-23 forhour of the day).	00-23	00
17	AUTO SEND MODE (1 : ON/ 0: OFF) : OFF	If the SMDR buffer is full, the system can automatically send a notification by e-mail.	0: OFF 1: ON	OFF
18	AUTO DELETE MODE (1 : ON/ 0: OFF) : OFF	Delete SMDR records after sending e-mail.	0: OFF 1: ON	OFF
19	LONG DISTANCE CODE 0	For SMDR and COS purposes, five (5) Long Distance codes of up to two (2) digits each can be assigned. If dialed as the 1st digits, the call is considered an LD call.	Flex button 1~5 + digits 0~9 & '*' as a wild card	BTN 1: 0
20	SMDR RIN/CLI/CPN SVC_I (0:RIN/1:CLI/2:CPN):0	For incoming calls, the system will send the defined data item for "Field I". The data item may be CLI, CPN or Ring Service Time. Note the User dialed number is always provided for an outgoing call.	0: RING 1: CLI 2: CPN	RING time
21	MSN PRINT ON SMDR (1:ON/0:OFF) : OFF	Print MSN number Information in SMDR Record.	0: OFF 1: ON	OFF
22	SMDR RIN/CLI/CPN SVC_II (0:RN/1:CL/2:CP/3:NO):2	For incoming calls, the system will send the defined data item for "Field II". The data item may be CLI, CPN or Ring Service Time.	0: RING 1: CLI 2: CPN 3: None	CPN

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

вти	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
23	PRINT SERIAL NO (1 : ON/0:OFF) : OFF	Print record number as part of SMDR output, will reset to 1 when SMDR capacity is reached or SMDR records are deleted, see button 18.	0: OFF 1: ON	OFF
24	SMDR ATTRIBUTRS(2ND) PRESS FELX KEY (01-19)		01-19	
24-1	SMDR HIDE DGT 1:RIGHT/0:LEFT) : RIGHT	When "HIDDEN DIALED DIGIT" is enabled, button 8 above, this field determines if leading ortrailing digits are hidden.	0: Left 1: Right	Right
24-2	SMDR INTERFACE SVC (0 : OFF/1:CO/2:CO&ICM): 0	When enabled, the system stores SMDR data to send to applications including NMS upon request.	0: OFF 1: CO 2:CO&ICM	OFF
24-3	SMDR ICM SAVE (1:ON/0:OFF) : OFF	When enabled, intercom call data is stored as part of the SMDR data.	0: OFF 1: ON	OFF
24-4	SMDR ICM PRINT (1:ON/0:OFF) : OFF	When enabled, intercom call data is printed as part of the On-line SMDR.	0: OFF 1: ON	OFF
24-5	SMDR DISC CAUSE (1:ON/0:OFF) : OFF	When enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.	0: OFF 1: ON	OFF
24-6	LONG TIME CALL (10min) (000-144) : 000	To monitor long time CO call, a "Long Time Call" can be set. 0 means no monitoring. If CO call duration exceeds this value, a notification will be sent to NMS server and alarm will be displayed.	000 ~ 144	000
24-7	PRT LIMIT TO NET CALL (1:ON/0:OFF) : OFF	When CO call is transferred to Net transit out CO, it's automatically deleted from SMDR.	0: OFF 1: ON	OFF
24-8	INTERNATIONAL CODE	It is used to distinguish international call for SMDR.	4 digit	
24-9	MOBILE PHONE CODE	It is used to distinguish mobile call for SMDR.	4 digit	
24-10	SMTP MAIL SERVER ID	This field defines the user's ID for SMTP Mail server. If user's ID and password is assigned, SMTP Mail server will check the validation of user ID and password.	Max 40 Chars	

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-11	SMTP MAIL SERVER PWD	This field defines the user's password for SMTP Mail server. If user's ID and password is assigned, SMTP Mail server will check the validation of user ID and password.	Max 20 Chars	
24-12	TRANSFER CHARGE RATE (0-2): INDIVIDUAL	 0. INDIVIDUAL: When a call is transferred to another station, the transferred call is charged to two stations respectively. 1. INTEGRATE XFERING: When a call is transferred to another station, the call is charged to the transferring station. 2. INTEGRATE XFERED: When a call is transferred to another station, the call is charged to the transferred station. 	Refer to description	INDIVI DUAL
24-13	ATD XSFER CHARGE RATE (0-2):INDIVIDUAL	 0. INDIVIDUAL: When Attendant make outgoing call and transfer this call to another station, the transferred will follow the Transfer Charge Mode. 1. ATD CHARGING: When Attendant makes outgoing call and transfers this call to another station, the call is charged to the Attendant. 2. XFERED CHARGING: When Attendant makes outgoing call and transfers this call to another station, the call is charged to the transferred station. 	Refer to description	INDIVI DUAL
24-14	SMTP DNS ADDR (WEB)	SMTP Mail server Domain address to receive the SMDR e-mail reports.	Max 100 Chars	-
24-15	SMTP SENDER MAIL (WEB)	Program VSF mail Sender mail Address (It is moved to web admin PGM 160-161)	Max 40 Characters	-
24-16	SMTP SECURITY (0-2): NO SECURITY	Choose SMTP Security (It is moved to web admin PGM 160-161) 0:Nosecurity, 1:SSL, 2:TLS	Refer to description	0
24-17	SMTP PORT (00001-65535) : 00025	Choose SMTP Port (It is moved to web admin PGM 160-161)	1-65535	25

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-18	VSF VM DISPLAY (0:'I', 1:'V')	If the value is 'I', the call to "VSF voice mail" is displayed as 'I' in SMDR. But if the value is 'V',the call to "VSF voice mail" is displayed as 'V' in SMDR. 'I' means "incoming call". 'V' is new indication for "VSF voice mail".	0:'I' 1:'V'	0:'1'
24-19	DISPLAY N TYPE (1:ON/0:OFF) : OFF	Display 'N' in SMDR to distinguish and it is network call.	1:ON 2:OFF	OFF
24-20	OUTGOING CALL TYPE (0:ALL/1:ANSWER) : ALL	ALL: all of outgoing call ANSWER: Answered outgoing call	Refer to description	ALL
24-21	PRINT DIALED DIGIT (0:PSTN/1:USER) : PSTN	PSTN : Outgoing digits to PSTN USER : Dialed digits by user	0: PSTN 1: USER	PSTN
24-22	SMDR ICM Ring Info (1:ON/0:OFF) : OFF	When enabled, intercom call data has additional information about ringing duration. With this option disabled, cannot disfferentiate calls if they are answered or unanswered because TIME field is used for both of talking and ringing durations. With this option enabled, TIME is only for talking duration, and RING duration is presented separately as it is presented for CO call data.	0: OFF 1: ON	OFF
24-23	SMDR ICM CPN Info (1:ON/0:OFF) : OFF	When enabled, intercom call data has additional information about original dialed digits. With this option disabled, always only the last talking or ringing station is specified as called party. With this option enabled, the original dialed number is presented separately in CPN field.	0: OFF 1: ON	OFF

3.3.6.18 System Date, Time and Daylight Saving Time (DST) - PGM 178

The system Date, Time and DST feature are established by this entry.

The date and time are employed for several features and functions including; LCR, LCD displays, SMDR outputs, Auto Ring Mode Selection, Wake-Up Alarm, etc.

If DST is enabled the system time will be adjust one-hour forward and back at the DST start and end times, respectively.

PROCEDURE	
	Press the [PGM] button and dial 178. Press the Flex button for the desired Attribute; refer to Table 3.3.6.18-1. - Button 1: Time - Button 2: Date
SET TIME/DATE & DST PRESS FLEX_KEY (1 - 5)	 Button 3: DST enable mode Button 4: DST start time Button5: DST end time
	Use the dial-pad to enter desired data for the Attribute Refer to Table 3.3.6.18-1. Press the [Save] button to store the data entry.

Table 3.3.6.18-1 SYSTEM TIME, DATE & DST (PGM 178)

вти	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SET TIME TIME 00:22(HH:MM)	Sets the system time.	НН:ММ	
2	SET DATE DATE: 07/24/13(MMDDYY)	Sets the system date.	MMDDYY	
3	DST ENABLE MODE (1:ON/0:OFF) : OFF	Enables DST feature for System Time.	0: OFF 1: ON	OFF
4	DST START TIME ONLY POSSIBLE BY WEBADM	The DST start time. This can be set only via WEB Admin. 2ndSunday of March at2:00 AM	See DST Table	Refer to description
5	DST END TIME ONLY POSSIBLE BY WEBADM	The DST end time. This can be set only via WEB Admin. 1stSunday inNov. at2:00 AM	See DST Table	Refer to description

3.3.6.19 Multi Language – PGM 179

The VMIU and VMIB support multiple languages; up to six languages may be supported simultaneously.

Once the prompts are downloaded to the VMIU/VMIB, the caller receives the Language selection announcement for DISA and CCR calls as well as proceeding a Hunt Group guaranteed announcement or DID error announcement.

The language selection announcement will only affect the language prompts enabled for use.

PROCEDURE	
SET SYSTEM MULTI LANG ENTER SEQ NO (001 -300)	Press the [PGM] button and dial 179 (e.g. enter 015). eMG800 sequence number range is 0001-2890.
SET 015 SYS MULTI LANG PRESS FLEX KEY (1-6)	Select Flex button, - Button 1: N. AMERICA Prompt Usage - Button 2: UNKNOWN Prompt Usage - Button 3: UNKNOWN Prompt Usage - Button 4: UNKNOWN Prompt Usage - Button 5: UNKNOWN Prompt Usage - Button 6: UNKNOWN Prompt Usage
N.AMERICA Prompt Usage (1:ON/0:OFF) : OFF	Us the dial pad to enable or disable the desired language prompts. Press the [Save] button to store the data entry.

3.3.6.20 System Timers I to III - PGMs 180-182

A number of timers can be assigned to control and affect many features and functions of the system. Refer to Table 3.3.6.20-1 to Table 3.3.6.20-3 for a description of the timers and the input required.

PROCEDURE	
SYSTEM TIMER 1 PRESS FLEX KEY (01-22)	Press the [PGM] button and dial: - 180 for System Timers I - 181 for System Timers III Press the Flex button for the desired Timer; refer to Table 3.3.6.20-1 ~3. Us the dial pad to enable or disable the desired language prompts. Press the [Save] button to store the data entry. Use the dial-pad to enter the desired Timer data, refer to Table 3.3.6.20-1~3. Press the [Save] button to store the Timer data entry.

Table 3.3.6.20-1 SYSTEM TIMERS I (PGM 180)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ATD RECALL TMR(min) (00-60) : 01	Determines the amount of time the attendant receives recall after which the system will disconnect the call.	00~60 minutes	01
2	CALL PARK TMR(sec) (000-600) : 120	Determines the amount of time before a parked call will recall the station that parked the call.	000~600 seconds	120
3	CAMP-ON RECALL TMR(sec) (000-600) : 030	When a call transfer is camped-on, this timer determines the amount of time before the station receives recall.	000~600 seconds	030
4	EX-HOLD RECALL TMR(sec) (000-600) : 060	Determines the amount of time before a call placed on exclusive hold will recall the station.	000~600 seconds	060
5	I-HOLD RECALL TMR(sec) (000-600): 030	Determines the amount of time before a call that is recalling the station will recall before also recalling the attendant.	000~600 seconds	030
6	S-HOLD RECALL TMR(sec) (000-600) : 030	Determines the amount of time before a call placed on system hold will recall the station.	000~600 seconds	030
7	TRANS RECALL TMR(sec) (000-600) : 030	Determines the amount of time a transferred call will ring at the receiving station before recalling the station that transferred the call.	000~600 seconds	030
8	ACNR DELAY TMR(sec) (000-300) : 030	If the ACNR Pause Timer expires and no CO Line is available for ACNR recall, the delay timer sets the delay before ACNR attempts to access a CO line. The retry counter is not decremented by this action.	000~300 seconds	030

Table 3.3.6.20-1 SYSTEM TIMERS I (PGM 180)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	ACNR PAUSE TMR(sec) (000-300) : 030	This timer establishes the time between ACNR recall attempts.	000~300 seconds	030
10	ACNR RETRY COUNT (01-13): 03	This counter sets the number of recall attempts for ACNR before ACNR is abandoned. (For CIS: 1-9).	1~13	03
11	ACNR TONE DTC TMR(sec) (001-300) : 030	If call progress tones are not available for ACNR, the system will wait this duration after dialing before considering the called party as busy/no answer.	001~300 seconds	030
12	AUTO RELEASE TMR(sec) (000-300) : 030	If a user accesses a CO/IP path and does not take any action, the system will automatically release the CO/IP path when this timer expires.	000~300 seconds	030
13	CCR INT DGT TMR(100ms) (000-300) : 030	Inter-digit timer used with Customer Call Routing function.	000~300 100msec	030
14	CALL RESTRICT TMR(min) CHECK PGM 123-F2	Not used. Check PGM123-BTN2	00~99 minutes	00
15	CO DIAL DLY TMR(100ms) (00-99) : 05	Delay for through connection to prevent illegal dialing when CO/PBX has slow response.	00~99 100msec	05
16	RLS GUARD TMR(100ms) (010-150) : 020	When a CO Line is returned to idle, the system will deny access for this time to assure the PSTN returns the CO circuitry to idle.	010~150 100msec	020
17	CO RING OFF TMR(100ms) (010-150) : 060	This timer sets the maximum 'OFF' duration of the incoming ring cycle to determine when a call has been abandoned.	010~150 100msec	060
18	CO RING ON TMR(100ms) (1-9): 2	This timer sets the 'ON' time of the incoming ring cycle for the Ring Detect circuitry of the system to recognize an incoming call.	1~9 100msec	2
19	ELAPSED CALL TMR(sec) (005-900) : 180	Users can receive a periodic tone indicating the length of an outgoing call. This timer sets the time before and between the tones. Note Call Time Tone must be enabled in PGM 112-button 1.	005~900 seconds	180

Table 3.3.6.20-1 SYSTEM TIMERS I (PGM 180)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
20	WEB PWD GUARD TMR(min) (001-999) : 005	If no data packets are received during a Web Admin connection for the Guard time, a password check will be initiated by the system.	001~999 minutes	5
21	ON HOOK IDLE TMR (sec)	Phone (IP/DKTU) goes to idle after this timer when the phone receives disconnect message or signal from CO line.	00~99 seconds	0
22	CALL REC REPEAT TMR(sec) (000-999): 000	If record warning tone is set and this timer is set greater than 1, it works periodically when it's recorded.	000~999 seconds	0

Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	FWD NO ANS TMR(sec) (000-600) : 015	When a user activates No-Answer Forward, calls will ring for this duration before the calls are forward. The Station No-Answer Forward timer PGM 123 will take precedence.	000~600 (seconds)	015
2	DID/DISA NO ANS(sec) (000-255) : 000	A DID/DISA call to a station will forward to the DID/DISA Destination assigned in PGM 167 should this timer expire before the call is answered.	000~255 (seconds)	000
3	VSF USR RECORD(sec) (000-999) : 060	This timer sets the maximum duration allowed for the User Greeting in the system's basic Voice Mail.	000~999 (seconds)	60
4	VSF VALID USER MSG(sec) (0-9): 4	This timer sets the minimum duration allowed for a voice mail message in the system's basic VSF Voice Mail. Messages shorter than this period are not stored.	0~9 (seconds)	4
5	DOOR OPEN TMR(100ms) (00-99): 20	This timer sets the minimum contact closure time required to activate the contact assigned as a door open contact.	00~99 (100msec.)	20
6	ICM DIAL TONE TMR(sec) (001-255) : 010	If a user goes off-hook on the Intercom and takes no action for this timer, the user will receive error tone.	001~255 (seconds)	10
7	INTER DIGIT TMR(sec) (01-20): 05	This timer sets the maximum allowed time between user dialed digits. At expiration, the user will receive error-tone.	01~20 (seconds)	05

Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	MSG REMINDER TONE(min) (00-60): 00	An iPECS Phone user will receive periodic reminder tones of a message waiting at intervals based on this timer.	00~60 (minutes)	00
9	PAGE TIME OUT TMR(sec) (000-255): 015	Determines the maximum duration of a page after which the caller and Page Zone are released.	000~255 (seconds)	15
10	PAUSE TMR(sec) (1-9): 3	A Timed pause of this duration is used in Speed Dial and during other automatically dialed digits sent to the PSTN.	1~9 (seconds)	3
11	SOFT AUTO RLS TMR(sec) (01-30): 10	When a Soft Key is used on the iPECS Phone, after expiration of this timer, the display will return to the previous display.	1~30 (seconds)	10
12	VM PAUSE TMR(100 msec) (01-90) : 30	When the system sends a "Pause" to Voice Mail using In-band signals, the Pause interval is defined by this timer. Not available in the USA.	1~90 (100msec.)	30
13	VSF CUT ERR TMR(1 SEC) (01-90) : 00	To cut error tone in VSF message that is leaved in a station.	1~90 (1 sec.)	00
14	UNUSED	Unused.		
15	EMERGENCY RETRY TMR (00-99): 00 SEC	System try to make emergency call according to the CO access rule/Prefer CO/CO group if system could not seize predefined emergency Co line within this timer.	00~99 (1 sec.)	00
16	ERROR TONE TMR(1sec) (005-180) : 030	Error Tone Timer	005~180 (1 sec.)	30
17	HOWLING TONE TMR(1sec) (000-180) : 030	Howling Tone Timer	000~180 (1 sec.)	30
18	NOTIFY PLAY DELAY(1sec) (01-99): 10	When VM notification call uses LCO, system will treat the call as the answered after this timer and play the new message prompt.	1~99 (1 sec.)	10
19	SHORT MODEM TMR(1sec) (01-60) : 10	If {Short modem} of a SLT is ON, the SLT maintains the modem mode for this time.	01~60 (1 sec.)	10

Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
20	BUTTON IDLE TMR(1sec) (00,10-99): 00	When a button is pressed, auto idle timer is added. A button is pressed in idle state, it goes to a menu list state. (not calling state) In menu list state, this auto idle timer is applied. The button that is applied this timer is as below 1. Transfer / PGM 2. Speed 3. Menu 4. Directory 5. Message 6. Call Log.	00,10~99 (1 sec.)	00

Table 3.3.6.20-3 SYSTEM TIMERS III (PGM 182)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SLT HOOK BOUNCE(100ms) (01-25): 01	This timer determines the duration the system considers an actual state change in the hook-switch and not a spurious contact bounce.	01~25 (100msec.)	01
2	SLT MAX H_FLASH(100ms) (01-25) : 07	This timer sets the maximum time an SLT user can depress the hook-switch for a Flash signal.	01~25 (100msec.)	07
3	SLT MIN H_FLASH(10ms) (000-250) : 010	This time sets the minimum time an SLT user must depress the hook-switch for a Flash signal.	000~250 (10 msec.)	010
4	STA AUTO RLS TMR(sec) (000-300) : 060	For an internal call, the system will return a station to idle if the call remains unanswered for this duration.	000~300 (seconds)	060
5	UNSUPER CONF TMR(min) (00-99): 10	This timer determines the duration of an "Unsupervised conference" before the station is recalled or the conference is dropped.	00~99 (minutes)	10
6	PRIME LINE TMR(sec) (01-20) : 05	This timer sets the delay (no action duration) for delayed Prime Line operation.	01~20 (seconds)	05
7	WINK SIGNAL TMR(10ms) (010-200) : 010	This timer sets the duration of the "Seize Acknowledge Signal" (Wink) sent to the PSTN on a DID line.	010~200 (10 msec.)	010

Table 3.3.6.20-3 SYSTEM TIMERS III (PGM 182)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	EN-BLOC I_DGT TMR(sec) (01-20) : 05	When an ISDN Line is assigned to send digits En-block, PGM 143-button 3, the system will send a dialed digit if the user dials "#" or this timer is expired.	01~20 (seconds)	05
9	DTMF DURATION TMR(10ms) (04-99): 10	This timer establishes the duration of the DTMF tone sent on an analog CO Line.	04~99 (10 msec.)	10
10	FLEX DID TMR(100ms) (01-99): 30	The system will receive DID digits for this timer. After the timer expires, the system will use the last 2 to 4 digits received as DID digits.	01~99 (100msec.)	30
11	WAKE UP FAIL TMR (sec) (00-99): 20	Provide wake up fail indication to attendant according to this timer.	00~99 (1 sec.)	20
12	PREPAID WARN TMR (sec) (00-99): 00	Prove warning tone when run out of prepaid money if this timer is not zero.	00~99 (1 sec.)	00
13	FAX DETECT TMR (sec) (01-20): 10	It is maximum fax tone detection time to deliver FAX call to fax destination.	1~20 (1 sec.)	10
14	AUTO PAUSE TMR (sec) (000-255): 000	IPCR Mute function will be released by this auto pause released timer.	0~255 (1 sec.)	0

3.3.6.21 In-Room Indication - PGM 183

The Supervisor Station can set the In-Room Indication to all members in the same Group up to 10 bins can be programmed, and each bin has (at most) 20 members excluding the Supervisor.

PROCEDURE	
IN ROOM INDICATION ENTER BIN NO (01-10)	Press the [PGM] button and dial 183.
IN ROOM INDICATION	Use the dial-pad to enter the desired bin number.
	Press the desired Flex button; refer to Table 3.3.9.6-1.
F1:SUPERVISOR F2:MEM	Press the [Save] button to store the data entry.

Table 3.3.6.21-1 In-Room Indication (PGM 183)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	IN ROOM INDICATION SURERVISOR: STA 100	Assigns Supervisor station.		
2	STA 100 MEM 101	This entry assigns stations as members.		

3.3.6.22 DCOB SYS Timers - PGM 186

A number of timers can be assigned to control and affect operation of E1 lines using R2 signaling. Refer to Table 3.3.6.22-1 for the timer descriptions and inputs required.

PROCEDURE	
	Press the [PGM] button and dial 186.
DCOB SYS ATTRIBUTES	Press the Flex button for the desired Timer; refer to Table 3.3.6.22-1.
	Use the dial-pad to enter the desired Timer data, refer to Table
PRESS FLEX KEY (1-6)	3.3.6.22-1.
	Press the [Save] button to store the Timer data entry.

Table 3.3.6.22-1 DCOB SYSTEM TIMERS (PGM 186)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	R2 OUT MANAG TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for forward signal from PBX.	01~50 (seconds)	14
2	R2 IN MANAG TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for forward signal from PBX.	01~50 (seconds)	14
3	R2 DISAPPEAR TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for the acknowledge of R2 signal.	01~50 (seconds)	14
4	R2 PULSE TMR(20msec) (01-30) : 07	In R2 signaling, time duration to send pulse typed R2 signal.	01~30 (20 msec)	07
5	R2 READY TMR (20msec) (000-500) : 007	Reserved for future usage for R2 timers.	000~500 (20 msec)	07
6	DIAL TONE DELAY (20msec) (01-30) : 20	Reserved for future usage for R2 timers.	01~30 (20 msec)	20

3.3.6.23 NTP Attributes - PGM 195

The system can employ the Network Time Protocol (NTP) or ISDN clock to synchronize the system time with the NTP time server or ISDN clock. The system requests the time from the NTP server at 10-minute intervals and then determines the time differential. If the system time is more 2 seconds off the NTP time, the system time is adjusted to synchronize with the NTP server time.

PROCEDURE	
	Press the [PGM] button and dial 195.
NTP ATTRIBUTES	Press the Flex button for the desired NTP Attribute; refer to Table 3.3.6.23-1.
PRESS FLEX KEY (1-1)	Use the dial-pad to enter the desired data, refer to Table 3.3.6.23-1.
	Press the [Save] button to store the data entry.

Table 3.3.6.23-1 NTP ATTRIBUTES

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NETWORK TIME/DATE (0-2): DISABLE(0)	ISDN clock	0: DISABLE 1: ISDN 2: NTP	DISABLE

3.3.6.24 CRR Attributes - PGM 252

System can reroute incoming call to CO. If called number matched with compare digits of Table 252, the call are routed to Rerouting number.

PROCEDURE	
	Press the [PGM] button and dial 252.
	Press the Flex button 1~3 for the desired setting, refer to Table 3.3.6.24-1.
CRR ATTRIBUTES	For Flex button 1 enable or disable CRR. For Flex button 2, press the
PRESS FLEX KEY (1-3)	[Save] button to reset the CRR table. For Flex button 3, dial the table bin
	number to input data.
	For Flex button 3, Enter the bin number, refer to Table 3.3.6.24-1.

Table 3.3.6.24-1 CRR ATTRIBUTES (PGM 252)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENABLE CRR (1:ON/0:OFF) : OFF	This field is used to enable or disable CO Call Rerouting.	0: OFF 1: ON	OFF
2	INIT CRR PRESS [Save] KEY	This field is used to initialize the CRR table.		
3	CRR ATTRIBUTES ENTER BIN NO(000-169)		000-169	
3-1	CRR 001 COMPARE CO GRP GRP NO (01-20) : 01	Compared Co group should be matched with incoming CO group.	01-20	01
3-2	CRR 001 RECEIVE DGTS	Incoming digit numbers should be matched with these digits. An "*" may be entered as a wild-card to indicate insertion of the compared number.	Max 12 digits	
3-3	CRR 001 CO+TEL NUMBER	This field defines the CO line, CO group or CO access code plus telephone number.	Max 20 digits	
3-4	CRR 001 TYPE	If you chose '1' for NET type, you can use transit out code for CO to CO rerouting. If you chose '2' for DISA type, you can access the station number as DISA mode. Other case, you should not use this type.	N/A	

3.3.6.25 VM COS Attributes - PGM 253

Each Station is assigned one of the five Voice Mail Classes of Service. The VM COS attributes include user greeting length, E-Mail notifications, message retention and optional message marking.

PROCEDURE	
ENTER PGM NUMBER	Press the [PGM] button and dial 253.
VM COS ATTRIBUTE ENTER COS RANGE (1-5)	Enter COS range from 1 to 5.
1-2 VM COS ATT PRESS FLEX KEY (1-8)	Press flex button 1-8 for the desired setting, refer to Table 3.3.6.25-1. Use the dial-pad to enter the desired data, refer to Table 3.3.6.25-1. Press the [Save] button to store the data entry.

Table 3.3.6.25-1 VM COS ATTRIBUTES (PGM 253)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	GREETING LENGTH (00-99): 60	This defines maximum user greeting length.	00-99	60
2	MESSAGE LENGTH (000-600): 000	This defines maximum user message recording time.	000-600	000
3	NUMBER OF MESSAGE (000-250) : 000	This defines maximum number of voice mail message.	000-250	000
4	RETENTION TIME (00-99): 00 (DAYS)	Voice mail messages will be automatically deleted after this amount of days.	00-99	00
5	E-MAIL NOTIFICATION (0-2): NOTI. DELETE	E-mail notification can be enabled or disabled.	0: OFF 1: Notification 2: Notification& Delete	Notification& Delete
6	FUTURE DELEVERY MSG (1 :ON /0 :OFF) : OFF	Future Delivery message can be enabled or disabled.	0: OFF 1: ON	OFF
7	CONFIRM MSG RECEIPT (1 :ON/0 :OFF) : OFF	Confirm message receipt can be enabled or disabled.	0: OFF 1: ON	OFF
8	PRIVATE MSG MARK (1 :ON/0 :OFF) : OFF	Private message mark can be enabled or disabled.	0: OFF 1: ON	OFF

3.3.6.26 Personal Group - PGM 260

Several stations can share same station number. That means Personal Group is extended feature of Linked Pair.A Personal Group is composed with a master station and several member stations.A master station and all member stations share master station's number.

By using this shared number, almost features (Call To xxx / Call From xxx / SMDR / Message Wait...) can be activated.But, some features can be chosen by PGM 261 attribute about all station activating or individual station working.In PGM 260, Personal group master and member can be assigned.In PGM 261, Personal group attribute can be set.

PROCEDURE	
PERSONAL GRP ASSIGN ENTER GRP NUM (01–70)	Press the [PGM] button and dial 260. And Enter Group number (eMG80/100:1~7 /eMG800:1~600)
PERSONAL GRP 01	Press Flex button 1, register Master station. Press Flex button 2, register member stations.
F1 : MASTER STA F2 : MEM	Use the dial-pad to enter the desired data.
	Press the [Save] button to store the data entry.

3.3.6.27 Personal Group Attribute – PGM 261

In PGM 261, Personal group attribute can be set.

PROCEDURE	
PERSONAL ATTRIBUTE ENTER GRP NUM (01–70)	Press the [PGM] button and dial 261. And Enter Group number.(eMG80/100:1~70 /eMG800:1~600)
PERSONAL GRP 01 PRESS FLEX KEY (1-3)	Press the Flex button 1~4 for the desired setting, refer to Table 3.3.6.27-1. Use the dial-pad to enter the desired data, refer to Table 3.3.6.27-1. Press the [Save] button to store the data entry.

Table 3.3.6.27-1 PERSONAL GROUP ATTRIBUTES (PGM 261)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01 USE MASTER WAKEUP (1:ON/0:OFF) : OFF	If this value is set to ON, all member wake-up follow by master wake up. If this value is set to OFF, individual wake-up is worked by each station.	0: OFF 1: ON	OFF
2	01 USE MASTER DND (1:ON/0:OFF) : OFF	If this value is set to ON, DND setting affect to Master and all member. If this value is set to OFF, individual DND is worked by each station.	0: OFF 1: ON	OFF
3	01 SET LINKED PAIR (1:ON/0:OFF) : OFF	If this value is set to ON, Master and Member Stations are linked and only one station can be activated.	10. OFF	OFF

3.3.7 STATION GROUP DATA – PGM 190 & 192

Stations can be grouped so that incoming calls will search (hunt) for an idle station in the group. The system allows assignment of three hunt processes, Circular, Terminal and UCD. In addition, there are eight (8) functional groups available: ACD (Automatic Call Distribution) based on UCD hunt, Ring, Call Pick-Up, External Voice Mail (SLT connected), VSF-Voice Mail, iPECS Feature Server Voice Mail, Network Voice Mail and UCS Groups. Certain types of groups can incorporate announcements, which are given to the calling party. The system's VMIU or VMIB can store up to seventy (70) announcements for use with Station Groups.

Note that a station can belong to multiple groups if the groups are all of the same type. Also note that when a station group is assigned to a group type (Station, ACD, VM, FS VM, VSF-VM, Net VM, UCS and Ring), the group attributes are initialized to the default values.

3.3.7.1 Station Group Assignment -PGM 190

Under Station Group Assignments the type, members and Pick-Up attribute are assigned to the Station Group. Note for the Net VM group, the network number must be assigned as the Net VM group member station. Refer to Table 3.3.7.1-1 for a description of the functions, the LCD displays and data entries required.

PROCEDURE	
STATION GRP ASSIGN ENTER GRP NO(401-440)	Press the [PGM] button and dial 190.
	Use the dial pad to enter the desired Station Group number.
	Press the Flex button for the desired setting; refer to Table 3.3.7.1-1.
	Use the dial pad to enter the desired Station Group data. Note for group
STATION GRP 401	members, enter a station or station range. For an individual station press the
F1:TYPE F2:PKUP F3:MEM	desired Flex button for the position of the station in the group and dial the
	station number. For a range, enter the first and last station number in the
	range.
	Press the [Save] button to store the data entry.

Table 3.3.7.1-1 STATION GROUP ASSIGNMENT (PGM 190)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	STATION GRP 401 CIRCULAR GROUP (00-10)	This entry defines the type of station group. The range is below. 00: Not Assign, 01: Circular, 02: Terminal 03: UCD/ACD, 04: RING, 05: Ext VM 06: PICK-UP, 07: VSF-VM, 08: UMS 09: NET-VM, 10:UCS Server	Refer to description	Not Assign
2	GROUP 401 PICK-UP (1:ON/0:OFF) : OFF	Stations can pick-up group calls ringing at other stations in the group. This does not apply to VSF groups.	0: OFF 1: ON	OFF
3	CIRCULAR GROUP 401	This entry assigns stations as members of a station group, or for Net VM, the Network number.		

3.3.7.2 Station Group Attributes - PGM 191

Each type of group has a different set of available attributes relating to announcements, timers, overflow, etc.

Table 3.3.7.2-1 through Table 3.3.7.2-8 provides descriptions for the attributes, LCD displays and data entries required.

The attributes for the Circular and Terminal Hunt groups are given in Table 3.3.7.2-1 and the UCD attributes include the ACD functions Table 3.3.7.2-2. In addition, there are no attributes for a group assigned as a Net VM group in PGM 190.

PROCEDURE	
STATION GRP ATT ENTER GRP NO(401-440)	Press the [PGM] button and dial 191.
	Use the dial pad to enter the desired Station Group. The system will display the type of group from the Station Group Assignment PGM 190 data (Ex. 01 Circular).
CIRC GRP 401 PRESS FLEX KEY (01-21)	Press the Flex button for the desired attribute; refer to Table 3.3.7.2-1 to Table 3.3.7.2-8.
	Use the dial pad to enter the desired Group Attributes data, refer to Table 3.3.7.2-1 to Table 3.3.7.2-8.
	Press the [Save] button to store the data entry.

Table 3.3.7.2-1 STATION GROUP— CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CIRC 401 ANNC 1 TMR(1s) (000 - 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds 1stAnnouncementTimer, the call may be sent to a VSFannouncement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 seconds	015
2	CIRC 401 ANNC 2 TMR(1s) (000 - 999) : 000	After the 1st announcement, the 2nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 seconds	000
3	CIRC 401 ANNC1 LOC VSF ANNC (01 – 70)	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is the VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none

Table 3.3.7.2-1 STATION GROUP— CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
4	CIRC 401 ANNC2 LOC VSF ANNC (01 – 70)	The Station Hunt Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is the VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	CIRC 401 ANNC2 RPT TMR (000 - 999) : 000.	The 2nd announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 RepeatTimer. NOTE) Repeating must be "ON" under button 6 below.	000~999 seconds	000
6	CIRC 401 ANNC 2 RPT (1: ON / 0: OFF): OFF	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the AnnouncementRepeatTimer interval.	0: OFF 1: ON	OFF
7	CIRC 401 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or will pass to the assigned OverflowDestination.1:Station, 2:Station group, 3:VSF Announce, 4:System speed	Refer to description	
8	CIRC 401 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain at the last station in the group or can be sent to the assigned OverflowDestination after expiration of the OVERFLOW Timer.	000~600 seconds	180
9	CIRC 401 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 seconds	002
10	CIRC 401 NO ANS TMR(1s) (00 – 99) : 15	Calls to a station in the group are directed to the station, if unavailable or unanswered in the NO AnswerTimer, the call can be routed based on the assigned hunt process.	00~99 seconds	15
11	CIRC 401 PILOT HUNT (1 : ON/ 0: OFF) : ON	A circular/terminal hunt group can be set so that only calls to the pilot number (Station Group number) will hunt.	0: OFF 1: ON	ON
12	CIRC 401 RPT NO MEMBER (1 : ON/ 0: OFF) : OFF	If a call is received and no members are on- duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	0: OFF 1: ON	OFF

Table 3.3.7.2-1 STATION GROUP— CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
13	CIRC 401 MUSIC SRC (00-37): 01	A Music source is assigned so that calls to the group receive audio from the source in place of ring-back tone. 00: Ring-back, 01: INT Music, 02: EXT Music, 03: VSF MOH, 04~08: SLT MOH1~4, 09~37: VSF MOH2~30	Refer to description	01
14	CIRC 401 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
15	MAILBOX MSG WAIT STA	When a group calls overflows or routes to the VM group, a station number is used to identify the Mailbox for the Circular group messages.	Station	
16	MAILBOX PASSWORD	The password associated with a group Mailbox is defined here. The password is used in conjunction with the Circular group as with a normal station.	12 digits	
17	CIRC 401 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 18 below.1:Station, 2:Station group, 3:VSF Announce, 4:System speed	Refer to description	-
18	FORCED FWD DESTUSAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 17 above.	0: OFF 1: ON	OFF
19	WAIT IF 1STANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
20	GROUP NAME	A hunt group name can be designated.	20 character	
21	CIRC 401 MAX QUE C-CNT (00-99): 99	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99

Table 3.3.7.2-1 STATION GROUP— CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
22	CIRC 401 RING TONE 00-16 (00: NA)	When a call is routed to a group, programmed ring tone is served to the group member.	00-16	0

Table 3.3.7.2-2 STATION GROUP ATTRIBUTES — UCD/ACD GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
DIN	AT I KIDUTE/DISPLAT		KANGE	DEFAULT
1	ACD 403 ANNC 1 TMR(1s) (000 – 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1stAnnouncementTimer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 seconds	015
2	ACD 403 ANNC 2 TMR(1s) (000 – 999) : 000	After the 1stannouncement, a 2ndANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2ndVSF announcement.	000~999 seconds	000
3	ACD 403 ANNC1 LOC VSF ANNC (01–70)	Each Station Hunt Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is a VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	ACD 403 ANNC2 LOC VSF ANNC (01–70)	The Station Hunt Group can be assigned a 2ndannouncement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is a VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	ACD 403 ANNC2 RPT TMR (000 – 999) : 000	The 2ndannouncement can be repeated to calls that remain in queue at intervals of the Announcement 2 RepeatTimer. Note repeating must be "ON" under button 6 below.	000~999 seconds	000

Table 3.3.7.2-2 STATION GROUP ATTRIBUTES — UCD/ACD GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	ACD 403 ANNC2 RPT (1: ON / 0: OFF): OFF	After the 2ndannouncement, if the call remains queued to the group, the 2ndVSF. Announcement can be repeated at the AnnouncementRepeatTimer interval.	0: OFF 1: ON	OFF
7	ACD 403 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will then queue to the group or route to the assigned OverflowDestination. 1:Station, 2:Station group 3:VSFAnnounce, 4:System speed	Refer to description	
8	ACD 403 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain queued to the group or be sent to the assigned OverflowDestination after expiration of the OVERFLOW Timer.	000~600 seconds	180
9	ACD 403 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Hunt Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 seconds	002
10	ACD 403 RPT NO MEMBER (1 : ON/ 0: OFF) : OFF	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to overflow destination.	0: OFF 1: ON	OFF
11	ACD 403 MUSIC SRC (00- 37): 01	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone while in Queue. • 00: Ring-back, • 01: INT Music, • 02: EXT Music, • 03: VSF MOH, • 04~08: SLT MOH1~5, • 09~37: VSFMOH2~30	Refer to description	01
12	ACD 403 ACD WARN TONE (1 : ON/ 0: OFF) : OFF	An ACD supervisor can monitor agent conversations. A warning tone can be provided to the agent and connected party when the supervisor activates the monitor feature.	0: OFF 1: ON	OFF
13	ACD 403 ALTER DEST S/H/SPD (Dial 1-3)	When a call comes into the group and there are no group members available, the call will be routed to the assigned alternate destination. 1:Station, 2:Station group, 3:System speed	Refer to description	

Table 3.3.7.2-2 STATION GROUP ATTRIBUTES — UCD/ACD GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
14	ACD 403 SP-VISOR TMR (000-999): 030	When calls have been in queue longer than the Supervisor Timer, the ACD supervisor is notified by a display of the longest queue time.	000~999 seconds	030
15	ACD 403 SP-VISOR C-CNT (00-99): 00	When the number of calls in queue exceeds the Supervisor Call Counts, the ACD Supervisor is notified by a display of queued calls count.	00~99	00
16	WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
17	ACD 403 MAX QUE C-CNT (00-99) : 99	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
18	ACD 403 SUPERVISOR	Any valid IP Phone can be assigned as a Supervisor, max. 5 ACD Supervisors.	Station	
19	100 110 123 124 0 0 0 0	ACD Group members may be assigned a priority, 0-9. Members with the highest priority are sent calls ahead of lower priority members. This field is the same as PGM 112-button 16.	0~9	0
20	ACD 403 ACD_DND W_TMR (002-200) : 010	ACD agents are placed in the Wrap-up mode for the Wrap-up timer duration after call completion.	002~200 sec	010
21	ACD 403 ICLID USAGE (1:ON/0:OFF) : OFF	Within 5 seconds of a guaranteed announcement, the caller may dial digits as an ICLID. The User dialed digits are compared to the ICLID Table entries, PGM 203 for routing or, for a single dialed digit, to the ACD CCR table PGM 191 BTN 23.	0: OFF 1: ON	OFF
22	GROUP NAME	An ACD group name can be designated.	20 character	
23	ACD 403 CIQ ROUTE PRESS FLEX KEY (01-10)	CCR for ACD Calls-in-queue permits caller to re-route the call by dialing a single digit. The destination is assigned to Flex button 1 ~ 10 for digits 1 ~ 9 & 0.	FLEX1 ~ FLEX10	

Table 3.3.7.2-2 STATION GROUP ATTRIBUTES — UCD/ACD GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
23-1~ 23-10	ACD 403 CIQ ROUTE INPUT 1 : NOT ASSIGNED	When an ACD call is queued and the caller may exit this queue by entering one digit. The queued call can be routed to station, hunt, system-speed bin, or network station. Dial 1: Enter a station number. Dial 2: Enter a hunt group number. Dial 3: Enter a system speed bin. Dial 4: Enter a network station number.	-	-
24	ACD 403 ADDED ATTR PRESS FLEX KEY (01-24)	To select an ACD group "Added Attribute", press flex button 24, then select button 1~24 for the attribute desired.	FLEX1 ~ FLEX24	
24-1	ZAP TONE (1:ON/0:OFF) : OFF	Agents, using a headset can have ACD calls connected to them automatically preceded by a tone (Zap tone).	0: OFF 1: ON	OFF
24-2	MAILBOX MSG WAIT STN	When an ACD call overflows or routes to the VM group, a station number is used to identify the Mailbox for the ACD group messages.	Station	
24-3	MAILBOX PASSWORD	The password associated with an ACD group Mailbox is defined here. The password is used in conjunction with the ACD group as with a normal station.	12 digits	
24-4	CIQ AGENT DISPLAY (1:ON/0:OFF) : OFF	When an ACD call is in queue, the Call in queue information can be displayed on LCD of agent and supervisor telephones.	0: OFF 1: ON	OFF
24-5	FORCED FWD DESTUSAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 24-24 below.	0: OFF 1: ON	OFF
24-6	CIQ #1 THRESHOLD (00-99): 10	If the queued call count exceeds the threshold, the system plays the CIQ #1 Announcement (button 7 below) to the CIQ #1 Page Zone (button 8 below) after the CIQ #1Announcement Delay Timer (button 9 below). Announcements are repeated at intervals of the CIQ #1 Announcement Repeat Timer (button 10 below).	00-99	10
24-7	CIQ #1 ANNC LOC VSF ANNC (00-200)	VSF announcement number for the CIQ #1 Announcement.	00-200	

Table 3.3.7.2-2 STATION GROUP ATTRIBUTES — UCD/ACD GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-8	CIQ #1 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #1Announcement. eMG80/100:00~15 or 00~40, eMG800:0~105	Refer to description	00
24-9	CIQ #1 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #1 Announcement.	000-180	015
24-10	CIQ #1 ANNC REPEAT TMR (000-180) : 045	Interval for repeating the CIQ #1 Announcement.	000-180	045
24-11	CIQ #2 THRESHOLD (00-99) : 20	If the queued call count exceeds the threshold, the system plays the CIQ #2 Announcement (button 12 below) to the CIQ #2 Page Zone (button 13 below) after the CIQ #2 Announcement Delay Timer (button 14 below). Announcements are repeated at intervals of the CIQ #2 Announcement Repeat Timer (button 15 below).	00-99	20
24-12	CIQ #2 ANNC LOC VSF ANNC (00-200)	VSF announcement number for the CIQ #2 Announcement.	00-200	
24-13	CIQ #2 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #2 Announcement. eMG80/100:00~15 or 00~40, eMG800:0~105	Refer to description	00
24-14	CIQ #2 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #2 Announcement.	000-180	015
24-15	CIQ #2 ANNC REPEAT TMR (000-180) : 025	Interval for repeating the CIQ #2 Announcement.	000-180	025
24-16	CIQ #3 THRESHOLD (00-99): 30	If the queued call count exceeds the threshold, the system plays the CIQ #3 Announcement (button 17 below) to the CIQ #3 Page Zone (button 18 below) after the CIQ #3 Announcement Delay Timer (button 19 below). Announcements are repeated at intervals of the CIQ #3 Announcement Repeat Timer (button 20 below).	00-99	30

Table 3.3.7.2-2 STATION GROUP ATTRIBUTES — UCD/ACD GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-17	CIQ #3 ANNC LOC VSF ANNC (00-200)	VSF announcement number for the CIQ #3 Announcement.	00-200	
24-18	CIQ #3 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #3 Announcement. eMG80/100:00~15 or 00~40, eMG800:0~105	Refer to description	00
24-19	CIQ #3 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #3 Announcement.	000-180	015
24-20	CIQ #3 ANNC REPEAT TMR (000-180) : 005	Interval for repeating the CIQ #3 Announcement.	000-180	005
24-21	CIQ MENT ON/OFF (1:ON/0:OFF) : OFF	If enabled, queued callers receive the CIQ message (You are # in queue) after the 1st and 2nd announcement.	0: OFF 1: ON	OFF
24-22	ACD NO ANS TMR (000-180) : 000	Calls to an agent in the group are directed to the station, if unanswered in the NO ANSWER TIMER, the call is routed to another agent.	000-180	000
24-23	ACD 403 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
24- 24-1	ACD 403 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination, if enabled under button 24-5 above. 1:Station, 2:Station group 3:VSF Announce, 4:System speed	Refer to description	-
24- 24-2	ACD Q CALL INDI 0(OFF)1(R/LED)2(LED):0	If there are queued group calls, the queuing indication can be served to group members by Mute Ring and LED button flashing. 0:OFF, 1:RING& LED, 2: LED only	Refer to description	OFF
25	ACD 403RING TONE 00-16 (00: NA)	When a call is routed to a group, programmed ring tone is served to the group member.	00-16	0

Table 3.3.7.2-3 STATION GROUP ATTRIBUTES — RING GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	RING 405 ANNC1 TMR(1s) (000 – 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1stAnnouncement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 seconds	015
2	RING 405 ANNC 2 TMR(1s) (000 – 999) : 000	After the 1stannouncement, a 2ndANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 seconds	000
3	RING 405 ANNC1 LOC VSF ANNC (01–70)	Each Ring Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is a VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	RING 405 ANNC2 LOC VSF ANNC (01–70)	The Ring Group can be assigned a 2ndannouncement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is a VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	RING 405 ANNC2 RPT TMR (000 – 999) : 000	The 2ndannouncement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer. Note repeating must be "ON" under button 6 below.	000~999 seconds	000
6	RING 405 ANNC2 RPT (1: ON / 0: OFF): OFF	After the 2ndannouncement, if the call remains queued to the group, the 2ndVSF announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF

Table 3.3.7.2-3 STATION GROUP ATTRIBUTES — RING GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	RING 405 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group rings at member stations until the Overflow timer expires then the call passes to the assigned Overflow Destination.1:Station, 2:Station group, 3:VSF Announce, 4:System speed	Refer to description	
8	RING 405 OVERFLOW TMR (000 - 600) : 180	A call to a ring group will continue to ring stations in the group or be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 seconds	180
9	RING 405 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Ring Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 seconds	002
10	RING 405 MUSIC SRC (00–37): 01	A Music source is assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone. O0: Ring-back 1: Int music 2: Ext music 3: VSF MOH 4-08: SLTMOH1~5 9-37: VSFMOH2~30	Refer to description	01
11	RING 405 MAX QUE C-CNT (00-99) : 99	When the number of calls queued is reached, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
12	RING 405 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
13	MAILBOX MSG WAIT STA	When a group calls overflows or routes to the VM group, a station number is used to identify the Mailbox for the Ring group messages.	Station	
14	MAILBOX PASSWORD	The password associated with a group Mailbox is defined here. The password is used in conjunction with the Ring group as with a normal station.	12 digits	
15	RING 405 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 16 below. 1:Station, 2:Station group 3:VSF Announce, 4:System speed	Refer to description	-

Table 3.3.7.2-3 STATION GROUP ATTRIBUTES — RING GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 15 above.	0: OFF 1: ON	OFF
17	WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
18	GROUP NAME	A Ring group name can be designated.	20 character	
19	RING Q CALL INDI 0(OFF)1(R/LED)2(LED):1	When a station calls a Ring Group, DSS/BLF buttons assigned for the calling station will flash and muted ring is received.	0:OFF 1: R/LED 2: LED	R/LED
20	RING 405RING TONE 00-16 (00: NA)	When a call is routed to a group, programmed ring tone is served to the group member.	00-16	0

Table 3.3.7.2-4 STATION GROUP ATTRIBUTES — EXTERNAL VM GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VM 407 WRAP-UP TMR (000 – 999) : 002	After terminating any call, the VM port will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 seconds	002
2	VM 407 PUT MAIL INDEX (1 – 4) : 1	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Put Mail" dial code.	1~4	1
3	VM 407 GET MAIL INDEX (1 – 4) : 2	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, which contains the "Get Mail" dial code?	1~4	2
4	VM 407 HUNT TYPE (1 : CIR/ 0 : TERM): TERM	The type of Hunt process applied to the SLT ports connected to the VM can be assigned as Circular or Terminal.	0: TERM 1: CIRC	TERM
5	VM 407 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain queued to the group or be sent to the assigned OVERFLOW DEST after expiration of the OVERFLOW TMR.	000~600 seconds	180

Table 3.3.7.2-4 STATION GROUP ATTRIBUTES — EXTERNAL VM GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	VM 407 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or routes to the assigned OVERFLOW DEST. 1:Station, 2:Station group 3:VSFAnnounce, 4:System speed	Refer to description	-
7	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 8 below.	0: OFF 1: ON	OFF
8	VM 407 FORCED DEST S/H/V/SPD (DIAL 1-4)	Enables the system to redirect group calls to the Forced destination defined under button 7 above.1:Station, 2:Station group 3:VSFAnnounce, 4:System speed	Refer to description	-
9	GROUP NAME	A hunt group name can be designated.	20 character	
10	VM 407 SERVER TYPE (0:IPCR/1:3RD) : 3RD	Server Type can set 3rd or IPCR.	0: IPCR 1: 3RD	3RD
11	VM 407 SERVER NUMBER (01-10) :	Sever Number can set 01 ~ 10 for 237 table.	01-10	
12	VM 407 MEMBER TYPE (0:SIP/1:SLT) : SLT	Server Member can set SIP or SLT.	0: SIP 1: SLT	SLT
13	VM 407 SERVER CAPACITY (001-140) : 000	Maximum number of channels of SIP VM (UMS).eMG80/100:0~140,eMG800:0~1200	Refer to description	0

Table 3.3.7.2-5 STATION GROUP ATTRIBUTES — PICK-UP GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	PICK UP 408 AUTO PICKUP (1 : ON/ 0: OFF) : OFF	If a Pick-Up Group member is ringing, another member of the Pick-Up Group can Pick-Up a call ringing at another member by simply going "off-hook".	0: OFF 1: ON	OFF
2	PICK UP 408 ALL RING (1 : ON/ 0: OFF) : OFF	When a call is offered to a member of the Pick-Up Group in the Tone Ring mode, all members will ring. NOTE)Auto Pickup, Button 1 must be "ON".	0: OFF 1: ON	OFF

Table 3.3.7.2-5 STATION GROUP ATTRIBUTES — PICK-UP GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
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Table 3.3.7.2-6 STATION GROUP ATTRIBUTES — VSF-VM GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VSF-VM409RETENSION(1d) (00 – 99) : 00	When voice messages are stored in the VSF, the system will maintain (store) the message for the maximum number of days set in this program (1 to 99 days). (Not used currently)	00-99 (day)	00
2	VSF-VM 409DIAL TIME (1s) (00 – 99) : 15	This timer determines the inter-digit time employed during a VSF-VM session. If this timer expires while the VSF-VM is awaiting user input, the system will assume the remote party has disconnected and will return the channel to idle.	00-99 (seconds)	15
3	VSF-VM GROUP NAME	A VSF-VM group name can be designated.	20 character	

Table 3.3.7.2-7 STATION GROUP ATTRIBUTES — UMS GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	UMS 410 ANNC 1 TMR(1s) (000 - 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1st AnnouncementTimer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 seconds	015
2	UMS 410 ANNC 2 TMR(1s) (000 - 999) : 000	After the 1st announcement, the 2nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000-999 seconds	000

Table 3.3.7.2-7 STATION GROUP ATTRIBUTES — UMS GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	UMS 410 ANNC1 LOC VSF ANNC (01 – 70)	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is the VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	UMS 410 ANNC2 LOC VSF ANNC (01 – 70)	The Station Hunt Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is the VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	UMS 410 ANNC2 RPT TMR (000 - 999) : 000.	The 2nd announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 RepeatTimer. Note; repeating must be "ON" under button 6 below.	000~999 seconds	000
6	UMS 410 ANNC 2 RPT (1: ON / 0: OFF): OFF	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the AnnouncementRepeatTimer interval.	0: OFF 1: ON	OFF
7	UMS 410 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or routes to the assigned OverflowDestination. 1:Station, 2:Station group 3:VSFAnnounce, 4:System speed	Refer to description	
8	UMS 410 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain at the last station in the group or can be sent to the assigned OverflowDestination after expiration of the OVERFLOW Timer.	000~600 seconds	180
9	UMS 410 NANS TMR(1s) (00 – 99) : 15	Calls to a station in the group are directed to the station, if unavailable or unanswered in the NO AnswerTimer, the call can be routed based on the assigned hunt process.	00~99 seconds	15

Table 3.3.7.2-7 STATION GROUP ATTRIBUTES — UMS GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	UMS 410 PILOT HUNT (1 : ON/ 0: OFF) : ON	A FS VM group can be set so that only calls to the pilot number (station group number) will hunt.	0: OFF 1: ON	ON
11	UMS 410 ALTER DEST STA/HUNT	When a call comes into the group and there are no group members available, the call will be routed to the assigned AlternateDestination.	Station or Group Number	
12	UMS 410 HUNT TYPE (1 : CIRC/ 0 : TERM): CIR	When a call is offered to the group, the Hunt process can be defined for Circular or Terminal hunt group.	0: TERM 1: CIR	CIR
13	UMS 410 WRAP-UP TMR (002 – 999) : 002	After terminating any call, the VM port will be maintained in a busy state for the duration of the WRAP-UP Timer.	002~999 seconds	002
14	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 15 below.	0: OFF 1: ON	OFF
15	UMS 410 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 14 above. 1:Station, 2:Station group 3:VSFAnnounce, 4:System speed	Refer to description	-
16	GROUP NAME	A hunt group name can be designated.	20 character	

Table 3.3.7.2-8 STATION GROUP ATTRIBUTES — UCS SERVER GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	UCS SVR [411] ASSIGNED UC Server 1 (01–16)	UCS Server number, this value must be set to 1.	01-16	1

3.3.7.3 Pick Up Group Assignment – PGM 192

Under Pick-Up Group Assignments members are assigned to the Station Pick Up Group.

PROCEDURE	
PICKUP GRP ASSIGN ENTER GRP NUM(00-49)	Press the [PGM] button and dial 192 and enter group number (Ex. 00). (eMG80/100:00~49/ eMG800:0~199)

PROCEDURE	
PICKUP GRP 00	Use the dial pad to enter the desired Pickup Group. The system will display the member of pickup group.
PICKUP GRP 00	Note for group members, enter a station or station range. For an individual station press the desired Flex button for the position of the station in the group and dial the station number. For a range, enter the first and last station number in the range.
	Press the [Save] button to store the data entry.

3.3.8 ISDN LINE & ICLID ROUTING DATA – PGM 200-206

Each ISDN (Integrated Services Digital Network) Line provides digital services to the end-user. Basic Rate Lines have three (3) channels, 2 B channels and a D channel. The 2 B channels provide 64 Kbps each, a total of 128 Kbps for "Bearer" or voice channels.

The D channel provides a 16 Kbps signaling channel. Primary Rate Lines have 23/30 64 Kbps 'B' channels and 1/2 64 Kbps signaling channels.

For proper operation, entries are required for various attributes in PGM 200 \sim 202 to match the ISDN circuit and services from the PSTN.

3.3.8.1 ISDN Attributes - PGM 200

ISDN attributes define several characteristics of the ISDN interface. ISDN call cost services (Advice of Charge), CLI modification, voice encoding, and other characteristics of the interface are defined.

PROCEDURE	
	Press the [PGM] button and dial 200.
SYSTEM ISDN ATT	Press the Flex button for the desired Attribute; refer to Table 3.3.8.1-1.
PRESS FLEX KEY (1-3)	Use the dial pad to enter the desired Attribute data.
	Press the [Save] button to store the Attribute data entry.

Table 3.3.8.1-1 ISDN LINE ATTRIBUTES (PGM 200)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CO ATD CODE (2DGT)	When the system is set to send the station number with ISDN CLIP or COLP, either the station number or this ATD code will be sent based on PGM 114 button 11.	1~2 digits	
2	CLI PRINT TO SERIAL (1:ON/0:OFF) : OFF	The ISDN Calling Line Id may be included in call records output over the serial port assigned for "Call Information", PGM 175 button 5.	0: OFF 1: ON	OFF
3	DISPLAY DID INFO (1:ON/0:OFF) : OFF	Display DID digit information on LCD and print it to serial port.	0: OFF 1: ON	OFF
4	Print Destination in CLI Print (1:ON/0:OFF) : OFF	If this set to ON, the following destination number is provided with ring Information. • Station Number, Station Group, CCR, Net station, Conference room	0: OFF 1: ON	OFF

3.3.8.2 CLIP/COLP Table - PGM 201

Normally, the system will send the primary Directory Number of the ISDN Line in the ISDN call SETUP and CONNECT messages to identify the caller (CLIP) or the answering (COLP) party respectively.

Under certain circumstances, it may be desirable to provide a secondary or DID number for the ISDN Line. In these cases, the CLIP/COLP Table may be used to define the digits sent.

The number sent is selected based on the index assigned for the ISDN Line under CO/IP Attributes III (PGM 143).

For the CLIP/COLP Table entry, the CLI Station Number (PGM 114) is sent in place of the station number. For all other CLIP/COLP Table entries, the station number is sent as a suffix to the number in the Table.

Note that this number is sent only if CLIR and COLR are disabled under the CLIR Service and COLR Service assignments in the Station ISDN Attributes (PGM 114).

PROCEDURE	
CLIP/COLP TABLE ENTRY ENTER BIN NO (00 –4 9)	Press the [PGM] button and dial 201 and enter the bin number (Ex.00).
CLIP/COLP TABLE 00	Use the dial pad to enter the desired Bin number (00-49) Use the dial pad to enter the desired CLIP/COLP data, maximum 10 digits.
	Press the [Save] button to store the CLIP/COLP data entry.

3.3.8.3 MSN Table - PGM 202

When an ISDN Line assigned for DID operation, receives an incoming call, the call will be routed to a station based on the Flexible DID Table Index in the MSN Table.

PROCEDURE	
MSN TABLE ATT ENTER BIN NO (001 – 500)	Press the [PGM] button and dial 202 and enter the bin number (Ex.121). (eMG80/100:001~500/ eMG800:1~1500)
	Use the dial pad to enter a MSN Table index number.
MSN TABLE 121	Press the Flex button for the desired MSN Table entry; refer to Table 3.3.8.3-1.
PRESS FLEX KEY (1-3)	Use the dial pad to enter the desired Table data.
	Press the [Save] button to store the Table data entry.

Table 3.3.8.3-1 MSN ATTRIBUTES (PGM 202)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	MSN TABLE 121 CO RANGE	CO Line number associated with the MSN.		None
2	MSN TABLE 121 INDEX : NOT ASSIGNED	Index to the Flexible DID Table, PGM 231.	000~999	None
3	TABLE 121 TEL NUMBER	Telephone Number (called number)	23 Digits	None

3.3.8.4 ICLID Route Table – PGM 203

The system can employ ICLID (Incoming Calling Line Id) to determine the routing of incoming external calls. Each CO/IP Line and ACD group may be assigned to employ ICLID routing.

The system will compare the received ICLID to entries in the ICLID Route Table and, if a match is found, will route the call to the destination indicated by the index (bin) number of PGM 204.

PROCEDURE	
ICLID ROUTE TABLE ATT ENTER BIN NO (001-250)	Press the [PGM] button and dial 203 and enter the bin number (Ex.001).
	To program ICLID Route table, dial Bin No (001 – 250).
ICLID ROUTE TABLE 001	Press the Flex button for the desired ICLID Table entry; refer to Table 3.3.8.4-1.
PRESS FLEX KEY (1-4)	Use the dial pad to enter the desired Table data
	Press the [Save] button to store the Table data entry.

Table 3.3.8.4-1 ICLID ROUTE INDEX (PGM 203)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ROUTE TABLE 001 INDEX : NOTASSIGNED	Index to the ICLID Ring Assignment Table PGM 204 that determines the call routing.	001~250	Not assigned
2	TABLE 001 ICLID NUMBER	ICLID (Incoming Caller Id) to match for the index. If the Caller Id matches the Table entry, the index is used to select the route from PGM 204.	24-digits 0 ~ 9 & '*' and '#' as a wild-card.	None
3	TABLE 001 ICLID NAME	ICLID name that is sent by the system to the destination for the ICLID routed call.	12.Character	None
4	TABLE 001 ICLID TONE	If the ICLID Number is matched with CID of caller, the Ring tone is followed this ICLID Tone.	2 digits.01~12	None

3.3.8.5 ICLID Ring Assignment – PGM 204

If the Incoming Caller ID matches an entry in the ICLID Route Table, the index from the Table is used to determine the call routing from the ICLID Ring Assignment Table.

Separate ring assignments are made for Day, Night, and Timed Ring mode for each index, 001 to 250, in this table. When assigned to ring to a VSF announcement, the call can be automatically dropped after the announcement by entering '#' after the announcement number.

When CO Lines are programmed to Ring an external AA/VM, VSF or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

PROCEDURE	
ICLID RING ASN TBL ATT ENTER BIN NO (001-250)	Press the [PGM] button and dial 204 and enter the bin number (Ex.001).
	Use the dial pad to enter the Index or Bin number (001 – 250).
	Press the desired Flex button:
	- Button 1: Day Ring
	- Button 2: Night Ring
PRESS KEY	- Button 3: Timed Ring
	Use the dial pad to select the destination type:
	- Dial 1: Station
DAY NIGHT TIMED-R	- Dial 2: Hunt Group
	- Dial 3: VSF Announcement
	- Dial 4: AA Ring Time
	- Dial 5 : Net number
	Use the dial pad to enter a value for the selected destination type.
	Press the [Save] button to store the data entry.

3.3.8.6 **PPP Attributes – PGM 205**

In addition to remote access via an IP network connection, the system database may be accessed remotely via MODU.

The system will request a user id and password, which must match one of the User Ids and passwords assigned. After matching id and password are entered, the iPECS Home page is provided and Web Admin is available as explained in section 4.

PROCEDURE	
	Press the [PGM] button and dial 205.
PPP ATTRIBUTES	Press the desired Flex button; refer to Table 3.3.8.6-1.
	Used the dial pad to enter desired data, refer to Table 3.3.8.6-1 for
PRESS FLEX KEY (1-7)	appropriate entries.
	Press the [Save] button to store the data entry.

Table 3.3.8.6-1 PPP ATTRIBUTES (PGM 205)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	PPP DEST STA	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination, the system will automatically answer the call and request PPP ID and password.	Station number	None
2	PPP USER ID 1 likppp01	System accepts this PPP ID 1.	12Characte r	likppp01
3	PPP PASSWORD 1 Ipkts01	The password entered is used to authorize PPP ID 1.	12 Character	lpkts01
4	PPP USER ID 2 likppp02	System accepts this PPP ID 2.	12 Character	likppp02
5	PPP PASSWORD 2 lpkts02	The password entered is used to authorize PPP ID 2.	12 Character	lpkts02
6	PPP SERVER IP ADDR 10 .0 .0 .3	Operator can configure PPP Server IP Address with this option. To apply this option, system must be restarted.		10.0.0.3
7	PPP CLIENT IP ADDR 10 .0 .0 .2	Operator can configure PPP Client IP Address with this option. To apply this option, system must be restarted.		10.0.0.2

3.3.8.7 Prefix Dialing Table - PGM 206

With this table, three features can be supported.

- CO Call Charge with NPR metering.
- SIP direct dialing with no wait inter-digit timer.
- ISDN Prefix Call ISDN en-block Dialing with Prefix Call Setup.

If first some digits (up to 8 digits) of outgoing dial number are matched with Prefix Code of each table, this table can start work. By each CO-line (PGM 142 – F20), Table ID (0-6) can be set. This table ID (PGM 142 – F20) is associated with PGM 206 – each table ID.

PROCEDURE	
PREFIX DIALING TABLES ENTER BIN NO (001-500)	Press the [PGM] button and dial 206 and enter the bin number (Ex.001).
PRESS FLEX KEY(01-10)	Use the dial-pad to enter the Table index number (bin).
Refer to Table 3.3.8.7-1 DISPLAY	Press the desired Flex button, refer to Table 3.3.8.7-1 Use the dial pad to enter desired data, refer to Table 3.3.8.7-1
3.6. 2	Press the [Save] button to store the data entry.

Table 3.3.8.7-1 Prefix Dialing Table (PGM 206)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001 PREFIX CODE	Enter the Prefix code. (Max 8 digits)		
2	001 TABLE ID (0 – 6) : 0	Enter Table ID (0-6). 0 means NOT used.	0-6	0
3	001 MIN DIGIT (00 – 30) : 00	Select the minimum dial digits (00-30)	00-30	00
4	001 MAX DIGIT (00 – 30) : 00	Select the minimum dial digits (00-30)	00-30	00
5	001 NUM OF TYPE(0-6) UNKNOWN(0)	Select Number of Type (0~6). O:Unknown 1:International 2:National 3:Network Spec 4:Subscriber 5:Abbreviated 6:Reserved	Refer to description	0

Table 3.3.8.7-1 Prefix Dialing Table (PGM 206)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	001 NUM PLAN(0-6) UNKNOWN(0)	Select Numbering Plan (0~6). O:Unknonw 1:ISDN/Telephony 2:Data numbering 3:Telex 4:National standard 5:Private 6:Reserved	Refer to description	0
7	001 SENDING COMPLETE (1:ON/0:OFF) : OFF	Select Sending Complete option. (On/Off)	0-1	OFF
8	001 CALL TYPE (0-5) UNKNOWN(0)	Call Charge Type (0~5). • 0:Unknown • 1:Local • 2:Long Distance • 3:International • 4:Mobile • 5:reserved	Refer to description	0
9	001 CALL TIMER(sec) (000 – 999) : 000	Call Charge Timer can be assigned. By this timer value Call Metering can be established.	000-999	000
10	001 CALL COST 000000	Call Cost is calculated by CALL TIMER. (ex: timer is 1 min, cost is 000020, then after 3 minute call, total call cost is calculated to 000060)	000000- 999999	000000
11	001 FLAT RATE (1:ON/0:OFF) : OFF	If Flat Rate is ON, Flat Rate is applied by CALL COST per a call	0-1	OFF
12	PREFIX TABLE INIT PRESS [HOLD] TO INIT	Initialize Prefix table.		

3.3.9 TABLES DATA - PGM 220 to 235

3.3.9.1 LCR Assignment Tables - PGM 220 to 223

The LCR Tables provide a mechanism to define the database, which will route outgoing calls, particularly long distance, using the most cost effective route. User dialed digits are compared to table entries and modified appropriately based on time of day, day of week, and assigned routes.

There are four LCR Tables, LCR Control Attributes, LCR Leading Digit Table, LCR Digit Modification Table, and LCR Initialization Table.

3.3.9.1.1 LCR Control Attributes - PGM 220

The LCR Control Attributes, among others items, allows access to the LCR Access Mode assignments. The LCR Access Modes define the user operations that will access the LCR feature.

The LCR Access Modes are:

MODE	DESCRIPTION
Mode 00:	LCR Disabled
Mode 01:	Loop (user dials '9' or CO/IP Group code (8xx) or presses a Loop button)
Mode 02:	Loop and Internal (user dials digits without a CO/IP Access Code prefix)
Mode 11:	Loop and Direct CO Line (user dialed CO Line Access Code, or presses {CO} button).
Mode 12:	Loop, Direct CO Line, and Internal
Mode 13:	Loop, Direct CO Line, Internal and Direct

In addition, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). Table 3.3.9.1.1-1 provides general descriptive information and input ranges.

PROCEDURE	
I LCR CONTROL ATTRIBUTES I	Press the [PGM] button and dial 220. Press Flex button 1~5, refer to Table 3.3.9.1.1-1. For LCR Access Mode and Time Zones, use the dial-pad to enter desired data and proceed to step 5). Refer to Table 3.3.9.1.1-1 for input ranges. For Day Zones press the Flex button 1~7 to select the day of week, Monday: Flex button 1 to Sunday: Flex button 7. For Day Zones, after selecting the desired day of week Flex button, use the dial pad to enter the desired zone, 1~3. Press the [Save] button to store the data entry.

Table 3.3.9.1.1-1 LCR CONTROL ATTRIBUTES (PGM 220)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LCR ACCESS MODE (1-6) (M00) DISABLE LCR	This entry defines the effective LCR modes, the modes by which the user can access LCR.	M00: 1 M01: 2 M02: 3 M11: 4 M12: 5 M13: 6	1

Table 3.3.9.1.1-1 LCR CONTROL ATTRIBUTES (PGM 220)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	DAY ZN 1:1234567 2: 3: M1 T2 W3 T4 F5 SA6 SU7	For each day of the week, a Day Zone (1 to 3) is assigned. The active Day Zone is the Zone assigned to the current day of the week (Flex button 1~7).	Flex 1~7 + 1~3	Zone 1: all days of the week
3	TIME ZONE 1 1:00-24 2: 3:	This entry defines the hours of the day during which Time Zone 1 is active. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
4	TIME ZONE 2 1:00-24 2: 3:	This entry defines the hours of the day during which Time Zone 2 is active.	00~24	00~24
5	TIME ZONE 3 1:00-24 2: 3:	This entry defines the hours of the day during which Time Zone 3 is active.	00~24	00~24

3.3.9.1.2 LCR Leading Digit Table — PGM 221

The Leading Digit Table is used to analyze the user-dialed digits to determine an appropriate Digit Modification Table Index. LDT Tables are provided for 32 LDT Table for iPECS-1200, 10 for the other systems.

The Table is divided into bins. The applicable LCR Access Modes (LCR Type) and the digits (up to the first 12) to be compared with the number dialed by the user are entered in the Leading Digit Table bin.

In addition, indices to the Digit Modification Table are defined for each Time Zone of each Day Zone; refer to LCR Control Attributes PGM 220.

Note the mode used to access LCR must match the LCR Type and must be within the effective LCR Access Mode assigned in PGM 220 to access the Digit Modification Table index. The allowed LCR Types are:

- CO Line or Loop access: User dials CO Line Access Code, CO/IP Group Access Code (8xx), Any CO Line Access Code '9', or presses a CO Line, CO/IP Group or Loop button.
- Internal: User dials outgoing call while receiving Intercom dial tone with no CO/IP access code.
- Both: Both COL and Internal.

In addition, each Leading Digit Table bin has the option to require an authorization code entry. When the userdialed digits match an entry in the LCR Leading Digit Table, the system will check the Authorization option for the LDT Table bin. If the Authorization option is enabled, the user must enter a valid Authorization code to place the call.

PROCEDURE		
LDT TABLE ENTER LDT TBL NO (01-10)	Press the [PGM] button and dial 221 and enter LDT Table number (Ex.01).(eMG80/100:01~10/eMG800:1~32)	
LDT 01 TABLE ENTER LDT BIN (000) Enter the LDT Table number (Ex.000).		
	The system displays the first available bin (000~249) of the Leading Digits Table. To select a different bin, use the dial pad to enter the desired bin number.	
000 BOTH CD:	Press the desired Flex button (1~6), refer to Table 3.3.9.1.2-1. Use the dial pad to enter the desired Leading Digit Table data, refer to Table 3.3.9.1.2-1.	
	Press the [Save] button to store the data entry. Note, as the data is stored, the system sorts the LDT bins in ascending order to allow rapid "look-up" of data. Thus, the bin number will be changed appropriately.	

Table 3.3.9.1.2-1 LCR LEADING DIGITS (PGM 221)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LDT 01/000 : LCR TYPE	This entry defines the LCR modes that will apply to this Leading Digit Table bin. To apply the DMT index, the LCR Type must be part of the LCR Mode defined in PGM 220.	1: Internal 2: CO Line	Both

Table 3.3.9.1.2-1 LCR LEADING DIGITS (PGM 221)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	LDT 01/000 : LCR CODE	Up to 12 digits that, if matched by the user dialed digits, will access the DMT entry for the index assigned for the Day and Time zone below.		
3	LDT 01/000 : DAY 1 DMT INDEX(6DGT):	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 1. The appropriate index will be selected for the current Day and Time Zone. An entry of 6 digits (2 per Time Zone) must be entered.	00~99 3 DMT indices	
4	LDT 01/000: DAY 2 DMT INDEX(6DGT):	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 2. The appropriate index will be selected for the current Day and Time Zone. An entry of 6 digits (2 per Time Zone) must be entered.	00~99 3 DMT indices	
5	LDT 01/000: DAY 3 DMT INDEX(6DGT):	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 3. The appropriate index will be selected for the current Day and Time Zone. An entry of 6 digits (2 per Time Zone) must be entered.	00~99 3 DMT indices	
6	LDT 01/000: CHK PASSWORD (1:ON / 0:OFF) : OFF	If enabled (ON), when the dialed digits match the LDT table digits, the system will send second dial tone to request the user input a valid Authorization code.	0: OFF 1: ON	OFF
7	LDT 01/000: ZONE NO (001-100) : 001	If the LDT Zone Number of a station/co line is equal to this value, this LDT table is available to the station/co line.	001-100	001

3.3.9.1.3 LCR Digit Modification Table — PGM 222

Using the index determined from the analysis of the LCR Leading Digits Table PGM 221, the dialed number is modified in accordance with the Digit Modification Table and sent over the CO/IP group assigned for the index. Digits of the dialed number can be deleted based on the "Removal Position (RP)" and "Number of Remove digits (NR)" and a digit stream can be inserted in the resulting number.

Counting from the first dialed digit, the Removal Position defines the location of the digit where removal begins and, NR defines the number of digits to remove. The "Add Digit Stream" is then inserted in the resulting number at the digit position assigned by the Add Position entry. The resulting number is then dialed over the CO/IP path assigned. If the assigned path is not available, the "Alternate DMT index" is used to determine the number and CO/IP path to be used. Table 3.3.9.1.3-1 provides the displays, descriptions and entry ranges for the Digit Modification Table.

PROCEDURE	
DMT TABLE ENTER DMT BIN (00-99)	Press the [PGM] button and dial 222 and enter DMT bin number (Ex.55).
	Using the dial pad enter the desired Digit Modification Table index.
	Press the Flex button (1~6) for the desired Table entry, refer to Table
55 A:	3.3.9.1.3-1.
RP01 NR00 AP01 CG01 AD	Use the dial pad to enter the desired Digit Modification Table data, refer
	to Table 3.3.9.1.3-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.1.3-1 LCR DIGIT MODIFICATION (PGM 222)

вти	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	DMT 55 ADDED DGT	This entry defines the digit stream to insert in the number after digits are removed. Digits 0~9, '*', '#', and special characters: • [HOLD]: timed Pause • [DND]: Dial tone detect • [FLASH]: Billing station number	25 digits	
2	DMT 55 REMOVAL POSITION (01-12): 01	This entry defines the position of the digit where removal is to begin, starting with the 1st dialed digit (01).	01~12	01
3	DMT 55 NUM OF REMOVE DIGITS (00-12) : 00	This entry defines the number of digits to remove starting at the "Removal Position".	00~12	00
4	DMT 55 ADD POSITION (01-13) : 01	This entry defines the position in the number (after digits are removed) where the Add Digits are inserted.	01~13	01
5	DMT 55 CO/IP GROUP (01-21) : 01	This entry defines the CO/IP Group that the system will attempt to use for the call.	01~21	01
6	DMT 55 ALT INDEX (00-99) :	This entry defines an Alternate Digit Modification Table Index to use if no path is available in the assigned CO/IP Group.	00~99	
7	DMT 55 NET NUM PLAN BIN (000-251) :	This entry defines the Net Number Plan Table bin that the system will attempt to use for the transit out call.	000~251	
8	DMT 55 SMDR CODE	This only used for TNET with CM. This code will be send to CM when the TNET status is changed from Local survival mode to bypass mode.	4 digit	

3.3.9.1.4 LCR Table Initialize — PGM 223

The LCR Table Initialize allows global values to be assigned to the various Digit Modification Table entries. In addition, the LCR Leading Digits and LCR Digit Modification Tables can be initialized, no entries state.

PROCEDURE	
	Press the [PGM] button and dial 223.
INITIALIZE LCR DB	Press the Flex button (1~6) for the desired Table entry, refer to Table
	3.3.9.1.4-1.
PRESS FLEX KEY (1-6)	Use the dial pad to enter the desired LCR data, refer to Table 3.3.9.1.4-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.1.4-1 LCR TABLE INITIALIZES (PGM 223)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENTER DMT INIT VAL(DAY1)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 1.	00~99 3 DMT indices	
2	ENTER DMT INIT VAL(DAY2)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 2.	00~99 3 DMT indices	
3	ENTER DMT INIT VAL(DAY3)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 3.	00~99 3 DMT indices	
4	ENTER CO GRP INIT VAL	This entry permits the global setting of the CO/IP Group to be used for LCR calls.	01~21	
5	ENTER ALT INDEX INIT VA	This entry permits the global setting of the Digit Modification Alternate Index.	00~99	
6	INITIALIZE ALL LCR ?	Pressing [Save] will return the LCR LDT and DMT tables to the default (no entries) setting.		

3.3.9.2 Toll Tables - PGM 224

There are five Toll restriction Tables and each has a pair of Table entries. Each pair consists of an Allow and a Deny entry. Allow and Deny entries for Table 'A' apply to Station and DISA Class of Service 2, 4 and 11.

Allow and Deny entries for Table 'B' apply to Station and DISA Class of Service 3, 4 and 11. Allow and Deny entries for Table 'C' apply to Station and DISA Class of Service 5 and 6.

Allow and Deny entries for Table 'D' apply to Station and DISA Class of Service 8, 10 and 11. Allow and Deny entries for Table 'E' apply to Station and DISA Class of Service 9, 10 and 11.

For each Table, there can be up to 50 separate Allow and Deny entries (total of 100) of up to 20 digits. Entries in the Tables can be any digit (0-9), "#" as a wild card (don't care) digit, or "*" as an end of entry digit.

Based on Table entries, stations or DISA users are allowed or denied dialing specified numbers. The following rules apply to establishing restrictions based on the Table entries:

- If the appropriate Allow/Deny Table pair has no entries and COS is 2 to 4, or 8 to 9, no restrictions are applied. If the COS is 5 or 6, no Long Distance dialing is allowed.
- If entries are only made in the Allow Table, only those numbers entered can be dialed, all other dialed numbers will be restricted.
- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table, the number will be restricted otherwise the number can be dialed without restriction.

number will be restricted otherwise the number can be dialed without restriction.		
PROCEDURE		
TOLL EXCEPTION TABLES PRESS FLEXKEY (01-10)	Press the [PGM] button and dial 224.	
	Press Flex button 1~10:	
	- Button 1: Allow Table A	
	- Button 2: Deny Table A	
	- Button 3: Allow Table B	
	- Button 4: Deny Table B	
	- Button 5: Allow Table C	
	- Button 6: Deny Table C	
ALLOW TABLE A	- Button 7: Allow Table D	
	- Button 8: Deny Table D	
ENTER BIN NO (01-50)	- Button 9: Allow Table E	
	- Button 10: Deny Table E	
	Use the dial-pad to select a bin number (01~50).	
	Use the dial-pad to enter the dialed number desired (up to 20 digits).	
	Use "#" as a wild card to represent any digit and, at the end of an	
	entry, dial "*" to end the entry. To delete a Toll Table entry, press the	
	[SPEED] button.	
	Press the [Save] button to store the data entry.	

3.3.9.3 Emergency Code Table - PGM 226

The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions.

An Emergency Code number may be up to fifteen (15) digits in length.

PROCEDURE	
EMERGENCY SVC CALL ENTER BIN NO (01 - 10)	Press the [PGM] button and dial 226 and enter the bin number (Ex.01).
	Use the dial-pad for the desired Emergency code entry, 01 ~ 10.
EMERGENCY SVC CALL BIN 01: 911	Use the dial-pad to enter the Emergency code number. After entering the number dial "*", the number is displayed with an "E" indicating END of entry.
	Press the [Save] button to store the data entry.

3.3.9.4 Authorization Codes Table – PGM 227

Authorization codes are employed to control access to the system resources and facilities. Walking COS, CO/IP Group access, DISA callers, and certain Call Forward types may require input of a valid Authorization code. Codes up to 12 digits may be entered into the system database.

The station has an associated Station Authorization bin, which can be assigned by the user from the user's telephone. The System Authorization codes are stored in System bins and are entered or deleted only through Admin.

PROCEDURE	
	Press the [PGM] button and dial 227.
	Press Flex button 1 or 2 to select the desired entry:
	- Flex button 1 - Station authorization code
	- Flex button 2 - System Authorization code
AUTHORIZATION CODE F1:STA_AUTH F2:SYS_AUTH	For Flex button 1 enter a station range, enter the same station number
	twice for a single station entry.
	Then press Flex button 1 to set the password and Flex button 2 to set the
	COS (Day, Night and Timed).
	Use the dial-pad to enter the Authorization code or COS.
	Press the [Save] button to store the data entry.

Table 3.3.9.4-1 AUTHORIZATION CODES (PGM 227)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	AUTHORIZATION CODE ENTER STA RANGE	Authorization code for each station can be assigned up to 12 digits in length (enter STA range (Ex. 100110)).		
1-1	STATION AUTHORIZATION 100-110:	Authorization codes for system-wide use can be assigned up to 12 digits in length.	100-239	
2	AUTHORIZATION CODE ENTER BIN NO(001-360)	Selects attribute, code or Class of Service. eMG80/100:001~360,eMG800:1~1200	Refer to description	
	SYSTEM AUTHORIZATION F1:SET_PWD F2:SET_COS	Press Flex button 1 or 2 to select the desired entry: Flex button 1 –Set Password Flex button 2 –Set class of service	Flex button1-2	
2-1	SYSTEM AUTHORIZATION 001:	A password of up to 12 digits is defined.		
2-2	SET COS: F1:DAY F2:NIGHT F3:TIME	Establishes the COS associated with the System Authorization code during Day, Night and Timed Service modes.	Flex button1-3	

3.3.9.5 Customer Call Routing/VSF AA Table – PGM 228

The system incorporates IVR (Integrated Voice Response) capabilities called CCR (Customer Call Routing). After or during a VSF AA Announcement, a caller may dial a digit to select a destination or route for the call.

The CCR/VSF-AA Routing Audio Text Table defines the destination associated with digits dialed by the caller in response to the VSF AA Announcement (001-200).

Up to 200 single-level Audio Text menus may be assigned or, multi-level menu structures (maximum 200 levels) can be established using one menu as a destination for the previous level.

evels) can be established using one menu as a destination for the previous level.		
PROCEDURE		
CUSTOM CALL ROUTING SELECT CCR TABLE (01-70)	Press the [PGM] button and dial 228 and select CCR table (Ex.01).	
CCR TABLE 01 PRESS FLEX KEY (01-14)	Use the dial-pad to select a CCR Table index, 001~200 The index number 001-200 is the VSF Announcement number	
CCR TABLE 01 INPUT 1 : NOT ASSIGNED	Press a Flex button (1~13, 10=0) to assign a route for the associated CCR dialed digit. (11~13 is assigned to busy, no answer, error destinations) - Flex button 01-10 are matched with input dial digit from outside user. The flex key number 10 is matched with dial digit 0. - Flex button 11-13 are related with CCR re-route Busy / Error / No Answer destination – The destination type is Tone / Attendant / Hunt Group / VSF Announcement. - Flex button 14 is CCR One Digit Only option. If this option is set to ON, user can dial only one digit. If this option is set to OFF, user can dial more than one digit. That means CCR or DISA service can be possible. - Flex Button 15 is Temporary Announcement Use option. - Flex Button 16 is Temporary Announcement No setting option. In CCR announcement 3, if Temporary Announcement Use option is ON, Temporary Announcement No is set to 5, then the temporary announcement 5 is played. Temporary announcement can be used in holiday, or emergency case. When Temporary Announcement Usage is set to ON, programmed Temp Announcement is played instead of CCR table announcement. This Temporary Announcement can be set also by Remote Access - by using [Remote Access to Mobile Extension] feature. After access to Mobile Extension, To turn On Temp Announcement, 8 + CCR Announcement Number. To turn Off Temp Announcement, 9 + CCR Announcement Number. - Flex Button 17 is [*] Button Used As. - Flex Button 18 is [#] Button Used As. - Flex Button 18 is [#] Button Used As. There are 3 options available - Repeat First Annc / Repeat Current Annc / Access Voice Mail Remotely Use the dial-pad to enter the Type and Value for Destination, refer to	
CCR TABLE 01	Table 3.3.9.5-1 for Type and value codes.	
INPUT 1 :	Press the [Save] button to store the data entry.	

Table 3.3.9.5-1 CCR DESTINATIONS (PGM 228)

TYPE	DESCRIPTION	
01	Route to a Station	
02	Route to a Hunt Group	
03	Route with System Speed Dial	
04	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)	
05	Route to VSF Announcement	
06	Route to VSF Announcement and disconnect	
07	Route to Networked Station	
08	Conference Room	
09	Internal Page (eMG80/100:1~35 / eMG800:1~100)	
10	External page	
11	All Call Page	
12	Route to voice mail (station group/station number)	
13	Company Directory	
14	Record VM Greeting	
	Room Type Conf Group Join	
15	(Value: system conference group number)	
	(Value Range: eMG80/100(0 or 100~139), eMG800/UCP(0 or 100~259)	
16	UCS system conference group (eMG80/100:100~139 / eMG800:100~259)	

3.3.9.6 Executive/Secretary Table - PGM 229

Stations can be paired as Executive/Secretary pairs so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have only one Secretary however, a Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another however, assignments that form a loop-back are not allowed. In addition, when active, the Secretary can be assigned to receive the Executive's voice messages, refer to Station Attributes III PGM 113 button 10.

PROCEDURE	
EXEC/SEC PAIRS ENTER BIN NO (01-36)	Press the [PGM] button and dial 229 and enter the bin number (Ex.01).
EVEO/OFO DAID 04	Use the dial-pad to enter the desired Executive/Secretary pair bin.
EXEC/SEC PAIR 01	Press the desired Flex button; refer to Table 3.3.9.6-1.
PRESS FLEX KEY(1-7)	Press the [Save] button to store the data entry.

Table 3.3.9.6-1 EXECUTIVE/SECRETARY PAIRS (PGM 229)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	EXEC/SEC PAIR 01 PAIR 1:/	Assigns Executive/Secretary pair stations.		
2	CO CALL TO SEC (1:ON/0:OFF) : OFF	If desired, all incoming CO calls to the Exec. The call is routed to the Secretary's station regardless of the Executive's status.	0: OFF 1: ON	OFF
3	CALL EXEC IF SEC DND (1:ON/0:OFF) : OFF	If the Secretary is in DND, Executive calls can be routed back to the Executive.	0: OFF 1: ON	OFF
4	EXEC GRADE (01-12): 12	Higher (or equal) grade Executives can override the Executive/Secretary Forward feature (5th: ICM call to SEC) to call a lower grade Executive. Highest grade: 01, Lowest grade: 12.	01~12	12
5	ICM CALL TO SEC (1:ON/0:OFF) : OFF	If this option is ON, all internal calls to the executive station (except for calls from higher or same grade executive) are routed to the Secretary's station regardless of the Executive's status.8801 Default value Korea, India, Israel, Turkey, Thailand: ON Otherwise: OFF	0: OFF 1: ON	OFF
6	SEC. AUTO ANS (1:ON/0:OFF) : OFF	When executive call to the secretary who is in 'T' mode. The call will be answered by hands free mode if it is ON.	0: OFF 1: ON	OFF
7	EXEC GROUP (00-50) : 00	If Group is greater than 1, it works that lower grade executive can call to higher grade executive directly when they are same group.	00-50	00

3.3.9.7 Flexible DID Conversion Table - PGM 231

When the received DID digits are converted as in PGM 230, the resulting 4 digit number may be used as an index to the Flexible DID Conversion Table. The Flexible DID Table index is used when DID Line is assigned a Conversion type 2; refer to PGM 145 Flex button 2. Based on the index from PGM 230 and the system mode (Day, Night or Timed) a destination for the DID call is determined. The destination can be a VSF AA Announcement with CCR assigned allowing further routing of the call or can route using the ICLID routing tables.

PROCEDURE:	
FLEX DID CONV TABLE F1:INPUT F2:INIT F3:DEL	Press the [PGM] button and dial 231.
	Select Flex button 1~3:
FLEX DID CONV TBL INPUT	- Flex button 1: Input new data, Flex button 2: Initialize Table,
ENTER BIN NO (0000-9999)	Flex button 3: Delete entry
	Enter the bin number (Ex.0001)
	Use the dial pad to enter a Table index (0000~9999).
	Press Flex button 1~9 to select the desired destination, refer to Table
TABLE BIN 001	3.3.9.7-1.
PRESS FLEX KEY (1-9)	Use the dial pad to enter the desired type and value for the destination,
	refer to Table 3.3.9.7-2.
	Press the [Save] button to store the data entry.

Table 3.3.9.7-1 FLEXIBLE DID CONVERSION (PGM 231)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TABLE 001 NAME	Name associated with the destination.	11 characters	
2	TABLE 001 DAY DEST NONE (01-15)	Destination setting for Day Ring mode.	01-15	
3	TABLE 001 NIGHT DEST NONE (01-15)	Destination setting for Night Ring mode. Table 3.3.9.7-2.	01-15	
4	TABLE 001 TIMED_R DEST NONE (01-15)	Destination setting for Timed Ring mode. Table 3.3.9.7-2.	01-15	
5	TABLE 001 REROUTE DEST NONE (01-15)	Destination setting for Reroute Dest mode. Table 3.3.9.7-2.	01-15	
6	TABLE 001 USE ICLID (1:ON/O:OFF) : OFF	A DID Conversion Table index can be assigned to employ ICLID routing, section 3.3.8.4.	0: OFF 1: ON	OFF

Table 3.3.9.7-1 FLEXIBLE DID CONVERSION (PGM 231)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	TABLE 001 AUTO RING TBL (00-16),16:N/A) : 00	A DID Conversion Table Index can be assigned to employ an Auto ring mode table, section 3.3.9.9.	00-16	00
8	TABLE 001 MOH : (00-37) REFER TO CO HOLD(00)	A Music source is assigned so that calls to the destination receive audio from the source in place of ring-back tone. O0: Refer to CO Hold O1: INT Music O2: EXT Music O3: VSF MOH O4~08: SLT MOH1~5 O9~37: VSF MOH2~30	Refer to Description	Refer to CO Hold
9	TABLE 001 RING TONE (00-16, 0:N/A) : 00	Ring tone of destination is followed this ring tone value.	2 digits. 00~16	00

Table 3.3.9.7-2 FLEXIBLE DID DESTINATION (PGM 231)

TYPE	DESCRIPTION	
01	Route to a Station	
02	Route to a Hunt Group	
03	Route with System Speed Dial	
04	Route as PBX Transfer with System Speed Dial	
	(Flash then dial speed dial digits)	
05	Route to VSF AA Announcement	
06	Route to VSF AA Announcement and disconnect	
07	Route to a Networking Station	
08	08 Conference Room	
09	09 Internal Page	
10	0 External page	
11	All Call Page	
12	Voice Mail Box Group	
12	Voice Mail Box Station	
13	ICLID Ring Assignment Table	
14	14 Company Directory	
15	5 Record VM Greeting	
	Room Type Conf Group Join	
16	(Value: system conference group number)	
	(Value Range: eMG80/100(0 or 100~139), eMG800/UCP(0 or 100~259)	

3.3.9.8 System Speed Zone Table – PGM 232

The System Speed Dial numbers can be grouped into zones. Only stations allowed can access numbers within a zone, allowing System Speed Dials to be partitioned. Each zone can be assigned to apply the appropriate Station and CO Line COS for the Speed Dial number prior to dialing.

PROCEDURE:	
SYSTEM SPEED ZONE PGM ENTER BIN NO (01-10)	Press the [PGM] button and dial 232 and enter the bin number (Ex.01).
	Using the dial-pad, enter the zone number, 01~10.
SYSTEM SPEED ZONE 1	Press Flex button 1~3 for the desired zone characteristic, refer to Table 3.3.9.8-1.
F1:ZN F2:ST F3:TK F4:AK	Using the dial pad, enter the desired data as indicated in Table 3.3.9.8-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.8-1 SPEED ZONE (PGM 232)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENTER NEW ZONE RANGE ZONE 1 : 2200- 4999	Speed Dial Bin range for zone.	2200-4999	eMG80/100:2200~4999, eMG800:2200~9999
2	ENTER STA RANGE ZONE 1 : 100 – 239	Station range for zone.	100-239	eMG80/100:100~239, eMG800:1000~2199
3	SPEED ZONE 1 TOLL CHK (1:ON/0:OFF) : ON	Assignment to apply toll restriction.	0: OFF 1: ON	ON
4	SPEED ZONE 1 AUTH CHK (1:ON/0:OFF) : ON	Speed Dial Authorization Check for zone.	0: OFF 1: ON	ON

3.3.9.9 Auto Ring Mode - PGM 233

The system can automatically select the Ring and COS Mode based on time of day and day of week. Three Ring and COS modes are supported, Day, Night, and Timed modes.

The ring assignments are as defined in CO/IP Ring Assignment - PGMs 144. The COS assignments are defined in the DISA COS - PGM 166.

The start times for Day, Night and start and end times for timed modes are entered for each day of week. When the Timed mode ends, the system reverts to the appropriate mode based on the Day/Night settings and the time-of-day.

The Attendant can override the automatic selection and select the desired system Mode (Day, Night, and Timed). A separate Auto Ring Table can be established for each ICM Tenancy Group - PGM 125 (indices 1 ~ 15) and for the system (index 00).

PROCEDURE:	
WEEKLY TIME TABLE DIAL DIGIT (00-15)	Press the [PGM] button and dial 233 and enter Dial digit (Ex.00).(eMG80/100:00~15/eMG800:00~32)
	Use the dial-pad to enter a tenant Table index or 00 for the system (00~15).
	Press the Flex button 1~7 for the desired day of week (Monday ~Sunday)
WEEKLY TIME TBL 0	followed by Flex button 1~3 for the desired ring mode (Day, Night, Timed),
PRESS FLEX KEY (1-7)	refer to Table 3.3.9.9-1.
	Use the dial-pad to enter a time (military time), 0000 to 2359.
	Press the [Save] button to store the data entry.

Table 3.3.9.9-1 AUTO RING MODE ASSIGNMENT (PGM 233)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	MON DAY-09:00 NITE-18:00 TDS TDE:	Monday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
2	TUE DAY-09:00 NITE-18:00 TDS: TDE:	Tuesday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS: TDE:
3	WED DAY-09:00 NITE-18:00 TDS TDE:	Wednesday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
4	THU DAY-09:00 NITE-18:00 TDS: TDE:	Thursday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS: TDE:
5	FRI DAY-09:00 NITE-18:00 TDS TDE:	Friday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
6	SAT DAY-09:00 NITE-18:00 TDS: TDE:	Saturday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
7	SUN DAY-09:00 NITE-18:00 TDS: TDE:	Sunday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::

3.3.9.10 Voice Mail Dialing Table - PGM 234

When an external Voice Mail system is used that employs in-band signaling, a digit sequencemust be defined for the system to signal various call characteristics to the Voice Mail system. The voice mail uses the sequences to determine appropriate announcements or further callrouting. The Table permits the definition of digits as either a prefix or suffix to other digits (station number for mailbox identification). Sequences are defined for such call characteristics Put Mail, Get Mail, No Answer call, etc.

PROCEDURE:	
	Press the [PGM] button and dial 234.
VOICE MAIL DIALING TBL	Use the dial-pad to enter a table entry (1~9), refer to Table 3.3.9.10-1.
	Use the dial-pad to select Prefix or Suffix and the digit sequence, use the
DIAL DIGIT (1-9)	[MSG/CALLBK] button to enter a Pause, refer to Table 3.3.9.10-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.10-1 VOICE MAIL DIAL (PGM 234)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VOICE MAIL 1 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive call to record a message. Put Mail	1: Prefix 2: Suffix Any digits	P#
2	VOICE MAIL 2 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to playback recorded messages. Get Mail	1: Prefix 2: Suffix Any digits	P##
3	VOICE MAIL 3 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call while the user is busy. Busy Mail	1: Prefix 2: Suffix Any digits	P#*3P
4	VOICE MAIL 4 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call while the user is in DND. DND Mail	1: Prefix 2: Suffix Any digits	P#*4P
5	VOICE MAIL 5 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call when the user did not answer. No Answer Mail	1: Prefix 2: Suffix Any digits	P#*5P
6	VOICE MAIL 6 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call when a dialing error exists. Error Mail	1: Prefix 2: Suffix Any digits	P#*6P
7	VOICE MAIL 7 PREFIX OR SUFFIX (1-2)	It is reserved.	1: Prefix 2: Suffix Any digits	
8	VOICE MAIL 8 PREFIX OR SUFFIX (1-2)	It is reserved.	1: Prefix 2: Suffix Any digits	
9	VOICE MAIL 9 DISCONNECT[DIALDGT_1]	Code sent when the voice mail is to disconnect a call. Disconnect Mail	1: Prefix 2: Suffix Any digits	****

3.3.9.11 Registration & Fractional Module Table - PGM 235

When multiple iPECS eMG are located on the same LAN, it may be desirable to register add-on devices employing the Registration Table.

PROCEDURE:	
REGISTRATION TBL ENTER TBL NO(1-5)	Press the [PGM] button and dial 235 and enter Table number (Ex.1).
	Use the dial-pad to select a Table entry (1~5).
REG TBL 1: NO MAC INFO	Press the desired Flex button; refer to Table 3.3.9.11-1.
MAX PORT: 00, DEV ID:	Use the dial-pad to enter the desired data, refer to Table 3.3.9.11-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.11-1 MAC REGISTRATION (PGM 235)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TBL 1: SET MAC ADDR MAC 1:	Enter the MAC address of the device to register.		
2	TBL 1: SET MAX PORT NO OF PORT : 00	Enter maximum number of ports (channels) for the device. For a 00 entry the system will accept physical port number.	00-99	00
3	TBL 1: DEVICE ID DEVICE ID :	Enter device ID when it has multiple device ID in Board/Gateway.	0-255	0 (N/A)

3.3.9.12 Mobile Extension Table - PGM 236

A mobile phone can be used in conjunction with an iPECS Phone. The Mobile phone can access system resources available to the user's wired phone and will receive ring for incoming iPECS calls. The user may be allowed to enable the Mobile extension and define the mobile number. The system can be defined to employ a specific CO/IP Line Group to place calls to the Mobile phone.

The Mobile Extension Table also defines Notification of new VSF messages. When a new message is received for a user in the VSF, the system will call the assigned 'Tel Number' notifying the user of the new message.

PROCEDURE:	
MOBILE EXTENSION TABLE ENTER STA NUMBER	Press the [PGM] button and dial 236 and enter STA number (Ex.100).
	Use the dial-pad to enter the desired station number.
100 : MOBIL EXT ATTR	Press the Flex button for the desired item; refer to Table 3.3.9.12-1.
PRESS FLEX KEY (01-14)	Use the dial-pad to enter the required data.
	Press the [Save] button to store the data entry.

Table 3.3.9.12-1 MOBILE EXTENSION (PGM 236)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100 : PGM AUTHORITY (1:ON/0:OFF) : OFF	The user may be allowed to activate the mobile extension feature.	0: OFF 1: ON	OFF
2	100 : USAGE DISABLE (0-2)	Mobile extension feature can be enabled and Fail Over to Mobile extension can be included 0: DISABLE, 1: MOBILE EXT, 2: FAIL OVER	Refer to description	DISABLE
3	100 : ACCESS CO GRP CO GRP : 01	CO group used to call (ring) the mobile extension. eMG80/100:1-21, eMG800:1~201	Refer to description	01
4	100 : TEL NUMBER	Telephone number of the Mobile extension.		Not assigned
5	TABLE 001 CLI	When the mobile Telephone number and CLI do not match, the CLI entered here is used to authorize incoming calls from the mobile.		Not assigned
6	100 : HUNT CALL ENABLE (1:ON/0:OFF) : OFF	When the paired station is a member of a hunt group (ACD, Circular or Terminal), group calls can be sent to the active mobile extension.	0: OFF 1: ON	OFF
7	100 : VSF NOTIFY (1:ON/0:OFF) : OFF	Enables outbound notification by the system when the VSF has unheard messages.	0: OFF 1: ON	OFF

Table 3.3.9.12-1 MOBILE EXTENSION (PGM 236)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	100 : NOTIFY RETRY CNT (1~9) : 3	Defines the number of attempts the system will make to complete a notification when receiving busy/no-answer.	1~9	3
9	100 : NOTIFY RETRY INT (1~3) : 3	Defines the time between notification attempts. If a notification fails, the system will retry after the timer expires.	1~3 (Minutes)	3
10	100 : NOTIFY BY MY CLI (1:ON/0:OFF) : OFF	When the system sends CLI to the mobile extension, the CLI can be either the original caller's CLI or the CLI of station.	0: OFF 1: ON	OFF
11	100 : CALL BACK (1:ON/0:OFF) : OFF	If it is set to "ON", incoming mobile extension call will be released before answered and system places a call to mobile extension. After mobile extension answers, the dial tone is provided and mobile extension can make internal or external call.	0: OFF 1: ON	OFF
12	100 : DELAY TIMER (000-255) : 000	Mobile extension call will be placed after delay time.	000~255	0
13	100 : ANNOUNCE (00-200) : 00	It can be announced for remote control.	0~200	0
14	100 : SUFFIX DID TBL T (1:ON/0:OFF) : OFF	It provide flexible DID table index when DID type 2 is used.	0: OFF 1: ON	OFF

3.3.9.13 Hot Desk Attributes - PGM 250

A Hot Desk station allows a user to login for access to the system features and resources. Once logged in, the user is provided access to system features and resources employing the database for the user's assigned station.

PROCEDURE:	
	Press the [PGM] button and dial 250.
HOTDESK ATTRIBUTE	Press the desired Flex button; refer to Table 3.3.9.13-1.
PRESS FLEX KEY (1-3)	Use the dial-pad to enter the appropriate data.
	Press the [Save] button to store the data entry.

Table 3.3.9.13-1 HOT DESK ATTRIBUTES (PGM 250)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NO OF AGENT (000-140) 000	Assign number of hot desk agents.	0-140	000
2	VIEW AGENT RANGE N/A	View the assigned station number for agents.		
3	AUTO LOGOUT TMR (hour) (00-24): 00	A Hot desk station will return to inactive if the logged in user takes no action for the Auto Logout timer.	0~24 Hrs.	00

3.3.9.14 CO Call Rerouting - PGM 252

System can reroute incoming call to CO. If called number matched with compare digits of Table 252, the call are routed to Rerouting number.

PROCEDURE:	
	Press the [PGM] button and dial 252.
CRR ATTRIBUTE	Press the desired Flex button; refer to Table 3.3.9.14-1.
PRESS FLEX KEY (1-3)	Use the dial-pad to enter the appropriate data.
	Press the [Save] button to store the data entry.

Table 3.3.9.14-1 CALL REROUTING ATTRIBUTES (PGM 252)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENABLE CRR (1:ON/0:OFF) : OFF	Enable CRR	0: OFF 1: ON	OFF
2	INIT CRR PRESS [Save] KEY	Initialize all data		
3	CRR ATTRIBUTES ENTER BIN NO (000-169)	If PGM 252-BTN1 is set 'ON', BTN3 is available.(Ex. enter the bin number 000)	000-169	
4	CRR TABLE 000 PRESS FLEX KEY (1-4)	Press the desired Flex button, refer to Table 3.3.9.14-2	Flex button 1-4	

Table 3.3.9.14-2 CRR TABLE ATTRIBUTES (PGM 252)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CRR 000 COMPARE CO GRP GRP NO (01-20) : 01	Enter group number for compare digits in incoming.	01-20	01
2	CRR 000 RECEIVE DGTS	Enter receive digits.		
3	CRR 000 CO+TEL NUMBER	Enter co group (or individual co, access co) plus telephone number.		
4	CRR 000 TYPE	N/A : press digit '0' NET TYPE : '1' for transit out DISA TYPE : '2' for using DISA	0-2	N/A

3.3.9.15 Digit Conversion Tables - PGM 270

The Digit Conversion Table index is assigned to the Station and CO line. And the digit conversion can be applied according to the Apply Time Type (Unconditional, Day/Night/Timed or LCR Day/Time) differently. Each Table includes 200 entries of up to 16 digits; entries in the Tables can be any digit (01–15), or "*", "#". Each Index can be applied by Apply Option. (All/Station/CO line/Disable)

PROCEDURE:	
DIGIT CONVERSION TABLE ENTER TABLE NO (01–15)	Press the [PGM] button and dial 270 and enter the table number (Ex. 01).(eMG80/100 :1-15 / eMG800:1-32)
01 DIGIT CONVERSION ENTER BIN NO (001–200)	Dial Digit Conversion Table Number (01–15) and enter the bin umber (Ex.001).
01/001 DIGIT CONV. PRESS FLEX KEY (01–18)	Dial conversion Bin No (001–200). - Flex 1: Apply Time Type, Flex 2: Dialed Digit - Flex 3: Unconditional Changed Digit - Flex 4–6: Day/Night Timed Changed Digit - Flex 7–15: LCR Time (Day/Time Zone Changed Digit) - Flex 16: Ring mode table - Flex 17: Apply Option - Flex 18: ARS CO Access CO Use the dial–pad to enter the dialed number.
	Press the [Save] button to store the data entry.

Table 3.3.9.15-1 DIGIT CONVERSION TABLE ATTRIBUTES (PGM 270)

	Table 3.3.3.13-1 DIGIT CONVERSION TABLE ATTRIBUTES (1 Gill 270)				
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT	
1	01/001 APPLY T-TYPE (0-2): UNCONDITIONAL	The Apply time type to be applied when the dialed digit is dialed. 0: Unconditional, 1: Follow DNT, 2: Follow LCR		Un conditional	
2	01/001 DIALED DIGIT	The dialed digits	Max. 24 digits		
3	01/001 UNCOND CHANGED	The dialed digits are converted to this digit stream unconditionally.	Max. 24 digits		
4	01/001 DAY CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is DAY.	Max. 24 digits		
5	01/001 NIGHT CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is NIGHT.	Max. 24 digits		
6	01/001 TIMED CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is TIMED.	Max. 24 digits		

Table 3.3.9.15-1 DIGIT CONVERSION TABLE ATTRIBUTES (PGM 270)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	01/001 D1/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 1.	Max. 24 digits	
8	01/001 D1/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 2.	Max. 24 digits	
9	01/001 D1/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 3.	Max. 24 digits	
10	01/001 D2/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 1.	Max. 24 digits	
11	01/001 D2/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 2.	Max. 24 digits	
12	01/001 D2/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 3.	Max. 24 digits	
13	01/001 D3/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 1.	Max. 24 digits	
14	01/001 D3/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 2.	Max. 24 digits	
15	01/001 D3/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 3.	Max. 24 digits	
16	01/001 RING MODE TBL (00–15): 0	The dialed digits are converted according to the auto ring mode time.	00-15	0
17	01/001 APPLY OPTION (0–3): ALL	to the caller	Refer to description	All
18	01/001 ARS CO ACCESS	If a selected path is not available for some reason (All Busy, Line Fault etc.) after digit conversion, Alternative Route Selection (ARS) will connect calls using predefined designated ARS digit in digit conversion table.	Max. 8 Digits	

3.3.10 NETWORKING DATA -PGM 320 to 324

3.3.10.1 Network Basic Attribute - PGM 320

PROCEDURE:	
NET BASIC ATTRIBUTE PRESS FLEX KEY (1-8)	Press the [PGM] button and dial 320.
	Press the Flex button 1~8 for the desired setting, refer to Table 3.3.10.1-1.
	Use the dial-pad to enter the required data.
	Press the [Save] button to store the new data.

Table 3.3.10.1-1 NETWORK BASIC ATTRIBUTE (PGM 320)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NET ENABLE (1:ON/:OFF) :OFF	Enable Networking function	0: OFF 1: ON	OFF
2	NET RETRY COUNT (00-99) :00	Not used.	00-99	00
3	NET CNIP ENABLE (1:ON/:OFF) :ON	The name of calling station is sent to the called system between iPECS eMG. CNIP is displayed at called party stations display based on the programming.	0: OFF 1: ON	ON
4	NET CONP ENABLE (1:ON/:OFF) :OFF	Reserved for future usage.	0: OFF 1: ON	OFF
5	NET SIGNAL METHOD (1:FAC/:UUS) :FAC	Select the information element type for QSIG supplementary service message.	0: UUS 1: FAC	FAC
6	NET CAS ENABLE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF
7	NET VPN ENABLE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF
8	NET CC RETAIN MODE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF

3.3.10.2 Network Supplementary Attribute – PGM 321

	PROCEDURE:	
F		Press the [PGM] button and dial 321.
	NET SUPPLEMENTARY ATTR	Press Flex button 1~9 for the desired setting, refer to Table 3.3.10.2-1.
	PRESS FLEX KEY (1-9)	Use the dial-pad to enter the required data, refer to Table 3.3.10.2-1.
╽┖		Press the [Save] button to store the new data.

Table 3.3.10.2-1 NETWORK SUPPLEMENTARY ATTRIBUTE (PGM 321)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NET TRANSFER MODE (1:RERT/0:JOIN) :REROUT	Select type for Transfer and Call forward – Rerouting or Join	1: RERT 0: JOIN	REROUT
2	TCP PORT FOR BLF (9500-9999) :9500	TCP port for sending BLF message to BLF Manager	0000-9999	9500
3	UDP PORT FOR BLF (9500-9999) :9501	UDP port for sending BLF message to BLF Manager	0000-9999	9501
4	BLF MANAGER IP 0 .0 .0 .0	IP Address of BLF Server used only when iPECS is configured with LDK systems for Voice Networking		0.0.0.0
5	DURATION OF BLF STS (01-99) 100 mm sec : 10	Duration of BLF status message sending to BLF Server.	01-99 (msec)	10
6	MULTI CAST IP 0 .0 .0 .0	IP address of Multicast for BLF service.		0.0.0.0
7	NET TRANS FAULT RCL TMR (001-300)sec : 010	Network transfer fault recall timer to be used when no responses from other systems.	001-300 (seconds)	10
8	VOIP CALL REROUTE CO GR (00-20): 00	SIP outgoing call is rerouted via alternative backup CO line when call is failed or there is no answer during 3 seconds. eMG80/100:1-20, eMG800:1~200	Refer to description	00
9	BLF SERVICE USAGE (1:ON/:OFF) :ON	Enable/disable for BLF manager function.	0: OFF 1: ON	ON

3.3.10.3 Network CO LINE Attribute - PGM 322

PROCEDURE:	
NET COL ATTRIBUTE ENTER CO RANGE	Press the [PGM] button and dial 322 and enter CO range (Ex.0101).(eMG80/100 : 1-74 / eMG800: 1-600)
	Use the dial-pad to enter the CO Range.
01-01 NET COL PGM	Press the Flex button 1~2 for the desired setting, refer to Table 3.3.10.3-1.
PRESS FLEX KEY (1-2)	Use the dial-pad to enter the required data, refer to Table 3.3.10.3-1.
	Press the [Save] button to store the new data.

Table 3.3.10.3-1 NETWORK BASIC ATTRIBUTE (PGM 322)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-01 NET CO GRP (00 – 24) : 00	Networking CO group programming for Networking call.	00-24	00
2	01-01 NET CO TYPE (0:PSTN/1:NET) : PSTN	Select network CO Line Type	0: PSTN 1: NET	PSTN

3.3.10.4 NET Numbering Plan Table - PGM 324

PROCEDURE:	
NET NUM PLAN TABLE ENTER BIN NO (000-251)	Press the [PGM] button and dial 324 and enter bin number (Ex.001).
	Use the dial-pad to enter the 3-digit Table index (bin) number, 000 ~ 251.
001 NET NUM PLAN TBL	Press the Flex button, 1~16 for the desired setting, refer to Table 3.3.10.4-1.
PRESS FLEX KEY (01 – 16)	Use the dial-pad to enter the required data, refer to Table 3.3.10.4-1.
	Press the [Save] button to store the new data.

Table 3.3.10.4-1 NETWORK NUMBERING PLAN (PGM 324)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001 SYSTEM USAGE (0:NET/1:PSTN) : NET	Select system usage	0: NET 1: PSTN	NET
2	001 NUM PLAN CODE	'*' means any digits can be inserted between 0 ~ 9. The digits followed by '#' are an internal station number.	16 digits	
3	001 NUM PLAN CO GRP (00 - 24) :	'00' means an internal net station number	00-24	
4	001 CPN INFORMATION PRESS FLEX KY (1-4)	Flex 1: ISDN CPN INFORMATION Flex 2: (Flex button 1- 4) 1: 00 CPN INFORMATION 01 2: 00 CPN INFORMATION 02 3: 00 CPN INFORMATION 03 4: 00 CPN INFORMATION 04	16 digits	
5	001 ALT SPD BIN (2000-4999) :	Alternative Dial Number (System SPD Bin) when the networking path has a fatal problem. eMG80/100: 2000~4999, eMG800: 2000~9999	Refer to description	
6	DEST SYSTEM IP ADDR 0 . 0 . 0 . 0	IP Address of destination MPB system only when iPECS eMGis configured for Voice Networking.		0.0.0.0
7	DEST SYSTEM PORT NO (0000-9999) : 5588	Port Number of destination system for Networking.	0000-9999	5588
8	001 DIGIT REPEAT (0:NO/1:YES): NO	When the number plan code (Flex 2) is for PSTN call or transit-call, this number code can be enveloped in SETUP message or not whether if this field is set or not.		NO

Table 3.3.10.4-1 NETWORK NUMBERING PLAN (PGM 324)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	001 NET PSTN ENBLOCK (0:NO/1:YES) : NO	Choose "Transit-out Public Line" to Enblock or Over-lap.	0: NO 1: YES	NO
10	001 CO ATD CODE CLI (1:ON/0:OFF) : OFF	Determine whether if Centralized ATD CLI is sent or not when slave system makes transit call.	0: OFF 1: ON	OFF
11	001 FIREWALL ROUTING (1:ON/0:OFF) : ON	Select IP address (Firewall IP address or Non-firewall IP address). If the destination system (VOIB) is in same VPN then Non-firewall IP address should be sent. Otherwise the firewall IP address should be sent. ON: Send firewall IP address The send Non-firewall (Internal) IP address	0: OFF 1: ON	ON
12	001 AUTHO CODE COS USE (0:NO/1:YES): NO	When there's a transit out call request from user of slave system by seizing CO line, apply COS according to the authorization code.	0: NO 1: YES	NO
13	001 SMDR DIAL HIDDEN (0:NO/1:YES): NO	Determine to display dialed digit of transit out call or not at the slave system; it can contain authorization code.	0: NO 1: YES	NO
14	001 NET PSTN CLI (0:NET/1:PSTN): NET	NET: Send network station number for CLI PSTN: Send full CLI (e.g., 02-450-1000)	0: NET 1: PSTN	NET
15	001 SITE NAME	It is comment field to set name of network site.	Max. 12 characters	
16	001 EMERGENCY RERTETMR (00-10): 00	When timer is '0': The reroute emergency call is not work. When timer is set '1'~'10': The reroute emergency call is activated after this timer. This is only work when PGM 112-18th is transit-out CO group.	00-10	00

3.3.10.5 Network Feature Code Table - PGM 325

PROCEDURE:	
NET FEATURE CODE TBL ENTER BIN NO (01-20)	Press the [PGM] button and dial 325 and enter the bin number (Ex.01).
	Use the dial-pad to enter the bin no.
01 NET FEATURE CODE TBL	Press the Flex button 1~2 for the desired setting, refer to Table 3.3.10.5-1.
PRESS FLEX KEY (1-2)	Use the dial-pad to enter the required data, refer to Table 3.3.10.5-1.
	Press the [Save] button to store the new data.

Table 3.3.10.5-1 NETWORK FEATURE CODE TABLE (PGM 325)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE
1	01 NET FEATURE CODE	Networking Feature Code programming for Networking paging call.	16 digits
2	01 NET DEST NONE (1-6)	Select network feature type (1-6) and dial associated number. 1: INT PAGE ZONE: (eMG80/100:01-35/eMG800:1-100) 2: EXT PAGE ZONE: (1-1) 3: ALL CALL PAGE ZONE: 1(INT), 2(EXT), 3(ALL) 4: DOOR OPEN: 1~2 5: Conference Room: (1-9) 6: Call park: (eMG80/100:01-19/eMG800:1-200)	Refer to description

3.3.11 TNET (Centralized Networking) - PGM 330 ~ 336

In a Centralized Control TNET (Transparent Networking), remote devices may be registered to a Central MPB/MPB (CM) and to a Local MPB/MPB (LM).

In this way, the CM maintains control of the remote device. Should the WAN connection between an LM and CM fail (2 second polling error), the LM will initiate operational control of the locally registered devices.

Calls between the systems (CM & LM) can automatically shift to PSTN Modules registered with the LM for Fail-over operation. The configuration and characteristics of LMs and CM are configurable as is Fail-over operation.

3.3.11.1 TNET Basic Attributes - PGM 330

Each MPB in a Central Control network environment must be enabled for TNET operation in order to function as part of the network.

PROCEDURE:	
TNET BASIC ATTRIBUTES PRESS FLEX KEY (1 – 1)	Press the [PGM] button and dial 330.
THET ENABLE	Press Flex button 1.
TNET ENABLE	Use the dial-pad to enable or disable TNET, Central Control networking.
(1:ON/0:OFF) : OFF	Press the [Save] button to store the new data.

3.3.11.2 TNET CM Attributes - PGM 331

Each LM (Local MPB), which is part of a Central Control Network, must be defined with the IP Address of the CM (Central MPB) as well as the LM configuration data that will be sent to the CM at the time the LM registers with the CM.

The port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM must be equal or less than the ports defined in the CM for the LM, see PGM 332, in order to register properly.

PROCEDURE:	
	Press the [PGM] button and dial 331.
TNET CM ATTRIBUTES	Press the Flex button, 1~6 for the desired setting, refer to Table 3.3.11.2-1.
PRESS FLEX KEY (1 – 10)	Use the dial-pad to enter the required data, refer to Table 3.3.11.2-1.
	Press the [Save] button to store the new data.

Table 3.3.11.2-1 TNET CM ATTRIBUTES (PGM 331)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CM REGISTER REQ (1:ON/0:OFF) : ON	This field informs the LM to attempt registration with the CM. This field must be set to ON for proper registration.	0: OFF 1: ON	OFF

Table 3.3.11.2-1 TNET CM ATTRIBUTES (PGM 331)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	CM SERVER TYPE 0:LIK / 1:CM : LIK(0)	This field defines Central Call Manager type. The LIK is eMG/UCP even though the display is LIK.	0:LIK 1: CM	LIK
3	CM1 IP ADDRESS 0 .0 .0 .0	This field defines the IP address of the CM1 that will be used by the LM.	IPv4 address	
4	CM2 IP ADDRESS 0 .0 .0 .0	This field defines the IP address of the CM2 that will be used by the LM.	IPv4 address	
5	CM1 MAC ADDRESS 0000000000000	This field defines the MAC address of the CM1 that will be used by the LM.		
6	CM2 MAC ADDRESS 0000000000000	This field defines the MAC address of the CM2 that will be used by the LM.		
7	CM IPKTS PORT (0001 - 9999) :5588	In the TNET environment, the IP KTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0000- 9999	5588
8	CM TOTAL PORT (000 – 999) : 011	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or less than the port count in the CM for the LM devices.	000-999	000
9	POLLING COUNT (00 – 99) : 05	This field defines the maximum polling failures an LM considers a WAN fault.	00-99	05
10	POLLING INTERVAL (00 – 99) : 02	This field defines the interval time between LM to CM polling attempts.	00-99	02

3.3.11.3 TNET LM ATTRIBUTES – PGM 332

The CM (Central MPB/MPB) must be programmed with the MAC and IP address of each LM (Local MPB) in the Centralized Control network as well as the maximum configuration of each LM.

The port counts define the ports, which are allocated in the CM database for use by devices registered to the LM.

The number of ports defined in the database of each LM, seesPGM 331, must be equal to or less than the ports defined in the CM for the LM, in order to register properly.

VoIP channels are needed to support RTP Packet relay or codec translation between other devices. The CO port count must include any VoIP channels required.

PROCEDURE:	
TNET LM ATTRIBUTES ENTER BIN NO(01-15)	Press the [PGM] button and dial 332.
	Use the dial pad to enter the bin number associated with the LM.
TNET LM(01) ATTRIBUTES	Press the Flex button, 1~4 for the desired setting, refer to Table 3.3.11.3-1.
PRESS FLEX KEY (1-4)	Use the dial-pad to enter the required data, refer to Table 3.3.11.3-1.
	Press the [Save] button to store the new data.

Table 3.3.11.3-1 TNET LM ATTRIBUTES (PGM 332)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LM(01) MAC ADDRESS 00000000000000	This field defines the MAC address of the LM that will be part of the TNET environment and is used by the CM for authorization.	MAC address	
2	LM(01) IP ADDRESS 0 .0 .0 .0	This field displays the IP address of the LM.	IPv4 address	
3	LM(01) IPKTS PORT (0001 - 9999) :5588	In the TNET environment, the IP KTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0000-9999	5588
4	LM (01) TOTAL PORT (000 – 999) : 000	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or more than the available port count in the LM.	000-999	000
5	LM (01) MULTICAST IP 239.20.19.1	This field defines the multicast IP address that could be used in TNET branch site.	IPv4 address	

3.3.11.4 FoPSTN Attributes - PGM 333

The Fail-over function allows the systems in a Centralized Control network (TNET) environment to complete calls from system to system over a PSTN (analog or digital) line should the WAN connection to the CM fail.

A CO Gateway/Board must be registered to the LM for local control and access CO services. Users may call others in the normal manner and the call is routed over CO facilities to the remote CM.

When calls are directed to a DID line at the receiving system, the system will select a line from the assigned CO Group and dial the Tel Number with the station number dialed as the trailing digits.

PROCEDURE:	
	Press the [PGM] button and dial 333.
	Press the Flex button 1~3 for the desired setting, refer to Table 3.3.11.4-1.
	For Flex button 1 enable or disable FO. For Flex button 2, press the [Save]
FoPSTN ATTRIBUTES	button to reset the FO table. For Flex button 3, dial the table bin number to
PRESS FLEX KEY (1-3)	input data.
	For Flex button 3, use the dial-pad to enter the required data, refer to Table
	3.3.11.4-1.
	Press the [Save] button to store the new data.

Table 3.3.11.4-1 FAIL-OVER ATTRIBUTES (PGM 333)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENABLE FoPSTN (1:ON/0:OFF) : ON	This field is used to enable or disable Failover operation from the CM or LM.	0: OFF 1: ON	OFF
2	INIT FoPSTN TABLE PRESS [Save] KEY	This field is used to initialize the FO table.		
3	FoPSTN ATTRIBUTES ENTER BIN NO(000-199)			
3-1	FoPSTN 001 NUM PLAN	Station numbers associated with the remote system. A range can be indicated by using "*" to indicate the range.	Max 8 digits	
3-2	FoPSTN 001 CO GROUP GRP NO (00-21) : 01	This field defines the CO Group of the local system that will be used to place calls to the stations entered in the FO Numbering Plan, should WAN failure occur. eMG80/100:1~20, eMG800:1~200	Refer to description	
3-3	FoPSTN 001 TEL NUMBER	This field defines the telephone number the system should dial to place a call to the stations entered in the FO Numbering Plan, should Wan failure occur. An "*" may be entered as a wild-card to indicate insertion of the dialed station number.		

3.3.11.5 TNET LM External Contact Attributes - PGM 334

Each LM incorporates relay contacts, which can be employed as a Door Lock Release. The contact activates a 3rd party Door Lock Release mechanism activated by dialing the Door Unlock code at a local station. Note assigning other functions to the contact may cause unexpected operation.

PROCEDURE:	
TNET LM EXT CONTACT ENTER BIN NO (01-15)	Press the [PGM] button and dial 334. The range is : eMG80/100 : 1-15 / eMG800: 1-32
	Select LM number
	Select Flex button 1~4 for the desired External Control contact.
	Use the dial-pad to enter desired data.
LM(01) EXT CONTACT	- 1. LBC + station number, (ex. 150)
PRESS FLEX_KEY (1-4)	- 2. Door Lock Release
	- 3. External Page 1 access
	- 4. External Page 2 access
	Press the [Save] button to store the External Contact data entry.

3.3.11.6 TNET LM Music Attributes - PGM 335

The CM does not provide BGM/MOH to an LM. The LM employs local BGM and MOH facilities, which reduces traffic load on the WAN and IP channel processors. The LM uses IP Multicast for local BGM and MOH transport.

PROCEDURE:	
TNET LM MUSIC ATTR ENTER BIN NO (01-15)	Press the [PGM] button and dial 335
MUSIC ASSIGN PRESS FLEX_KEY (1-3)	Select LM number
	Select the desired Flex button; refer to Table 3.3.11.6-1.
Refer to Table 3.3.11.6-1	Use the dial-pad to select the desired Music Source, refer to Table
DISPLAY	3.3.11.6-1.
	To save the Music Source, press the [Save] button.

Table 3.3.11.6-1 MUSIC SOURCES FOR MOH & BGM (PGM 335)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	BGM TYPE (0-37) MUSIC 1 (1)	Assigns the source for BGM. O0: Ring-back O1: Int music O2: Ext music O3: VSF MOH O4~08: SLTMOH1~5 O9~37: VSFMOH2~30	Refer to description	Music 1
2	MOH TYPE (0-37) MUSIC 1 (1)	Assign the source for MOH. Our Ring-back Our Int music Our Ext music Our WSF MOH Our WSF MOH Our WSF MOH Our WSF MOH Our WSF MOH2~30	Refer to description	Music 1
3	INT/EXT1 MUSIC (0:INT/1:EXT1): INT	Assigns the input for source 1 O: Internal 1: Ext. Music 1	Refer to description	Internal

3.3.11.7 TNET LM Alarm Attributes - PGM 336

The LM incorporates circuitry to monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the monitoring circuitry. For the Alarm, the signal to the LM stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates.

PROCEDURE:	
TNET LM ALARM ATTR ENTER BIN NO (01-15)	Press the [PGM] button and dial 336.
	Select LM number
LM(04) ALADMATTD	Press the desired Flex button; refer to Table 3.3.11.7-1.
LM(01) ALARM ATTR	Use the dial-pad to enter desired data for the attribute, refer to Table
PRESS FLEX KEY (1-4)	3.3.11.7-1.
	Press the [Save] button to store the data entry.

Table 3.3.11.7-1 ALARM ATTRIBUTES (PGM 336)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ALARM ENABLE (1:ON/0:OFF) : OFF	This parameter enables the external contact monitoring circuitry.	0: OFF 1: ON	OFF
2	ALARM CONTACT TYPE (1:CLOSE/0:OPEN) : CLOSE	This parameter establishes the contact state that will activate the Alarm, close or open.	0: Open 1: Close	CLOSE
3	ALARM/DOORBELL MODE (1:ALARM/0:BELL): ALARM	The contact can be treated to function as a doorbell instead of an alarm.	0: Bell 1: Alarm	ALARM
4	ALARM SIGNAL MODE (1:RPT/0:ONCE) : RPT	The assigned stations will receive a Repeating signal or single burst (ONCE) of alarm tone.	0: Once 1: Repeat	RPT

3.3.12 Zone Data - PGM 436 - 441, 444

Zone data is a tool employed to easily manage the characteristics of groups of devices under the control of an MPB. Often, devices are installed in groups with common characteristics. Such devices can be grouped to a Zone to define common characteristics including Country Code, DSCP, RTP packet handling, etc. Common attributes are defined at the device, Zone and Inter-zone level. Device settings have priority over Zone settings, while Zone settings have priority over system settings.

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If iPECS devices are separated by a NAPT server or direct peer-to-peer communications is not available, packet relay must be employed to assure communication. In packet relay, RTP packets are received by a local VoIP channel (MPB or VOIB), which is under control of the MPB, and the IP address is translated from a public to the device's private address.

The VoIP channels implement a secure channel using IPSec protocol. Devices can be assigned as part of an "RTP Relay group" to use the same VoIP channels to implement relay of RTP packets. Packet relay groups also provide for conversion of multi-cast packets from the MPB to uni-cast and back again at the group level to multi-cast. Note packet relay requires an MPB or VoIP channel be available locally for each simultaneous call that requires packet relay. Programs 436 to 441 define device zone assignments and zone configurations. These programs are available only in Web admin. Holiday and Vacation assignments for each zone are defined in Program 444.

3.3.12.1 Zone Holiday Assignment - PGM 444

Holidays and vacation day intervals for each zone can be established to define a specified Service mode (Day, Night, and Timed) Up to 40 holidays and 5 vacation intervals can be defined.

PROCEDURE:	
ZONE HOLIDAY ASSIGNMENT ENTER BIN (01-32)	Press the [PGM] button and dial 444 and enter the bin number (Ex.01).
	Use the dial-pad to enter the bin (Zone) number (01~32).
ZONE(01) HOLIDAY ATTR	Press the Flex button, 1 ~ 3, for the desired setting, refer to 3.3.12.1-1.
PRESS FLEX KEY (1-3)	Use the dial pad to enter the required data, refer to Table 3.3.12.1-1.
	Press the [Save] button to save any changes.

Table 3.3.12.1-1 ZONE HOLIDAY ASSIGNMENT (PGM 444)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ZONE(01) RING MODE(0-3) TIMED-R	Enter the desired Service mode for the Holiday or Vacation. 0: DAY, 1: NIGHT, 2: TIMED, 3: N/A	Refer to description	TIMED
2	ZONE(01) VACATION ENTER BIN NO(1-5)	Assign a date range for the vacation entering the start and end dates as yymmdd - yymmdd.	12 digits	None
3	ZONE(01) HOLIDAY ENTER BIN NO(01-40)	Assign a date for the holiday for the Zone as MMDD.		None

3.3.13 GREEN MODE

The system can disable the power of a Digital Phone or SLT (Single Line Telephone) installed in the system at night or during holiday mode. The power On/Off can be controlled by Web Admin manually or automatically according to the assigned power On/Off time.

3.3.13.1 Green mode activation - PGM 500

It is applied for SLIB, DSIB and HYIB. Regarding the exact board related to terminal, refer to iPECS eMG Hardware Description and Installation Manual.

PROCEDURE:	
	Press the [PGM] button and dial 500.
GREEN MODE ACTIVATION	Press the Flex button, 1 ~ 4, for the desired setting, refer to Table 3.3.13.1-1.
PRESS FLEX KEY (1-4)	Use the dial pad to enter the required data, refer to Table 3.3.13.1-1.
	Press the [Save] button to save any changes.

Table 3.3.13.1-1 GREEN MODE ACTIVATION (PGM 500)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	POWER SAVE USAGE (1:EN/0:DIS) : DISABLE	Enable or Disable power usage.	0: Disable 1: Enable	DISABLE
2	POWER ON/OFF (1:ON/0:OFF) : ON	Power ON/OFF manually all of stations in Power Save used board.	0: OFF 1: ON	ON
3	POWER SAVE MODE PRESS SLOT BTN (F1-F6)	Enables or Disables Power Save Usage Mode of each board.	Flex button 1-6	
4	POWER CURRENT STATE CHECK SLOT BTN (F1-F6)	Displays the current status of board power ON/OFF.	Flex button 1-6	

3.3.13.2 Green mode time setting – PGM 501

It is applied for SLIB, DSIB and HYIB. Regarding the exact board related to terminal, refer to iPECS eMG Hardware Description and Installation Manual.

PROCEDURE:	
GREEN MODE TIME ENTER WEEK DAY NO (1-7)	Press the [PGM] button and dial 501 and enter the day from 1 to 7 by dial pad (Ex.1).
	Press the desired Flex button 1 or 2.
(MON) GREEN MODE TIME	Press the Flex button, 1 ~ 2, for the desired setting, refer to 3.3.13.2-1.
F1:ON TIME F2:OFF TIME	Use the dial pad to enter the required data, refer to Table 3.3.13.2-1.
	Press the [Save] button to save any changes.

Table 3.3.13.2-1 GREEN MODE TIME (PGM 501)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	POWER ON TIME (HH:MM) NOT ASSIGNED	Enable power on time		Not assigned
2	POWER OFFIME (HH:MM) NOT ASSIGNED	Enable power off time		Not assigned

3.3.14 INITIALIZATION — PGM 450

The system has been pre-programmed with certain features, which are based on the default database. The defaults are loaded into memory when the system is initialized. The system should always be initialized when installed or the database is suspected of being corrupt. The system can be initialized manually during installation, refer to the **iPECS eMG Hardware Description & Installation Manual**.

This program allows all or any of several distinct portions or the database to be initialized, returned to default.

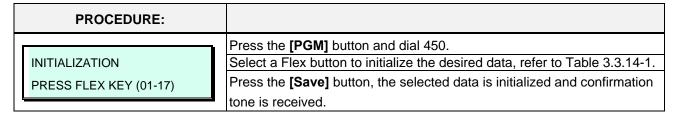


Table 3.3.14-1 INITIALIZATION DATA (PGM 450)

	Table 3.3.14-1 INITIALIZATION DATA (PGM 450)			
BTN	DISPLAY	REMARK		
1	INITIALIZATION FLEX NUM PLAN	It will initialize numbering plan.		
2	INIT STATION DATA STATION DATA(ENT STA RNG)	It will initialize station attributes for selected stations.		
3	INIT COL DATA COL DATA(ENT COL RNG)	It will initialize CO line attributes for selected CO lines.		
4	INIT COL DATA SYSTEM DATA	It will initialize system attributes.		
5	INITIALIZATION STATION GROUP	It will initialize hunt attributes.		
6	INITIALIZATION ISDN TABLES	It will initialize ISDN related attributes. (MSN/Flexible DID, COLP, DID conversion)		
7	INITIALIZATION SYSTEM TIMER	It will initialize system timer attributes.		
8	INITIALIZATION TOLL TABLES	It will initialize toll tables.		
9	INITIALIZATION LCR DATA	It will initialize LCR attributes.		

Table 3.3.14-1 INITIALIZATION DATA (PGM 450)

BTN	DISPLAY	REMARK
10	INITIALIZATION OTHER TABLES	It will initialize miscellaneous tables. (Exec/Sec, CCR, Prefix, Authorization code, Auto ring mode, VM prefix, System SPD Zone, Multicast table, Mobile Extension)
11	INITIALIZATION FLEX BUTTON	It will initialize flexible button and DSS/LSS.
12	INITIALIZATION NET DATA	It will initialize networking attributes.
13	INITIALIZATION ALL DATA	It will initialize all programs.
14	SYSTEM RESTART RESTART NOW	It will restart the MPB.
15	UNUSED	
16	INITIALIZATION PERSONAL GROUP	It will initialize Personal Group.
17	INITIALIZATION Default password *	It will initialize(remove) password if it is *
18	INITIALIZATION HOTEL DATA	

3.3.15 PRINT-OUT DATABASE — PGM 451

The system can output all or portions of the system database in order to provide a 'hard-copy'. The data is output over the appropriate Serial port (Serial 1 or Serial 2).

PROCEDURE:	
	Press the [PGM] button and dial 451.
DATABASE DRINT OUT	Select Flex button 1~22 to output the desired data, refer to Table 3.3.15-1.
DATABASE PRINT OUT PRESS FLEX KEY (01-22)	For Station, Station Flex buttons, and CO/IP line data, use the dial pad to
	enter the desired range for stations or CO/IP lines, or for all skip this step.
	Press the [Save] button, after output, confirmation tone is heard.

Table 3.3.15-1 DATABASE PRINT OUT (PGM 451)

BTN	DISPLAY	REMARK
1	DATABASE PRINT OUT FLEX NUM PLAN	
2	DATABASE PRINT OUT IP SETTING PLAN	
3	DATABASE PRINT OUT STA DATA(ENT STA RNG)	A station range must be entered to output the Station data.
4	DATABASE PRINT OUT COL DATA(ENT COL RNG)	A CO/IP line range (01~21) must be entered to output CO/IP data.
5	DATABASE PRINT OUT SYSTEM DATA	
6	DATABASE PRINT OUT STATION GROUP	
7	DATABASE PRINT OUT ISDN TABLES	
8	DATABASE PRINT OUT SYSTEM TIMER	
9	DATABASE PRINT OUT TOLL TABLES	
10	DATABASE PRINT OUT LCR DATA	

Table 3.3.15-1 DATABASE PRINT OUT (PGM 451)

BTN	DISPLAY	REMARK
11	DATABASE PRINT OUT OTHER TABLES	
12	DATABASE PRINT OUT NATION SPECIFIC	
13	DATABASE PRINT OUT FLX BTN(ENT STA RNG)	A station range must be entered to output the Station Flex button data. Data may be output in 20 or 10 character format, see Flex button 17 below.
14	DATABASE PRINT OUT ALL DATA	
15	DATABASE PRINT OUT LCD PRINT(0-2):NORMAL 24	
16	DATABASE PRINT OUT TO QUIT PRESS [Save]	
17	STRING LENGTH (1:20/0:10): 20(CHAR)	The Station Flex button print out can be provide in a 20 or 10 character format, default is 20 characters.
18	DATABASE PRINT OUT BOARD ATTRIBUTES	
19	DATABASE PRINT OUT NETWORKING TABLE	
20	DATABASE PRINT OUT HOTEL DATA	
21	FLEX BTN LCD PRINT STR LEN(0-1): 20	Print out strings those are used in flexible button to display the content.
22	WORKING LCD PRINT	Print out strings those are used to activate some features.

3.3.16 VIRTUAL TRACE DIP-SWITCH — PGM 452

The Virtual Trace Dip-switch is used to enable and disable traces for various functions as defined in Table 3.3.16-1.

PROCEDURE:	
	Press the [PGM] button and dial 452.
	To enable trace, press the desired trace button 1-9. The Flex button
VIRTUAL TRACE DIP SW	LEDs indicate trace setting, On/Off, press the desired Flex button to
	toggle Trace Enable,
PRESS FLEX KEY (01-22)	- LED on: trace enable
	- LED off: trace disabled.
	To enable selected trace settings, press the [Save] button.

Table 3.3.16-1 VIRTUAL TRACE DIP-SWITCH (PGM 452)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VIRTUAL TRACE DIP SW CALL TRACE : (OFF)	'Call Trace' is enabled for output.	0: OFF 1: ON	OFF
2	VIRTUAL TRACE DIP SW VOIP TRACE : (OFF)	VoIP Trace is enabled for output.	0: OFF 1: ON	OFF
3	VIRTUAL TRACE DIP SW HTTP TRACE : (OFF)	HTTP Trace is enabled for output.	0: OFF 1: ON	OFF
4	VIRTUAL TRACE DIP SW MULTICAST TRACE : (OFF)	Multicast Data (normally registration data between MPB and local mode device) Trace is enabled for output.	0: OFF 1: ON	OFF
5	VIRTUAL TRACE DIP SW CTI TRACE : (OFF)	CTI Device Trace is enabled for output.	0: OFF 1: ON	OFF
6	VIRTUAL TRACE DIP SW RAW DATA TRACE : (OFF)	Detailed Data Trace is enabled.	0: OFF 1: ON	OFF
7	VIRTUAL TRACE DIP SW MPMP TRACE: (OFF)	MPB to MPB Data Trace is enabled for output.	0: OFF 1: ON	OFF
8	VIRTUAL TRACE DIP SW CPU RE TRACE: (OFF)	CPU Redundancy Data Trace is enabled for output.It is not used.	0: OFF 1: ON	OFF
9	VIRTUAL TRACE DIP SW MISU/VMIU TRACE:(OFF)	MISU/VMIU Trace is enabled for output.	0: OFF 1: ON	OFF

Table 3.3.16-1 VIRTUAL TRACE DIP-SWITCH (PGM 452)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	VIRTUAL TRACE DIP SW DSP TRACE (OFF)	DSP Trace is enabled for output.	0: OFF 1: ON	OFF
11	VIRTUAL TRACE DIP SW SIP TRACE (OFF)	SIP Trace is enabled for output.	0: OFF 1: ON	OFF
12	VIRTUAL TRACE DIP SW ISDMR TRACE (OFF)	ISMDR Trace is enabled for output.	0: OFF 1: ON	OFF
13	VIRTUAL TRACE DIP SW SIP MSG TRACE (OFF)	SIP MSG Trace is enabled for output.	0: OFF 1: ON	OFF
14	VIRTUAL TRACE DIP SW FULL SIP TRACE (OFF)	FULL SIP Trace is enabled for output.	0: OFF 1: ON	OFF
15	VIRTUAL TRACE DIP SW HOTEL TRACE (OFF)	Hotel trace is enabled for output.	0: OFF 1: ON	OFF
16	VIRTUAL TRACE DIP SW SIP EXT TRACE (OFF)	SIP EXT Trace is enabled foroutput.	0: OFF 1: ON	OFF
17	VIRTUAL TRACE DIP SW DEBUG TRACE (OFF)	DEBUG Trace is enabled foroutput.	0: OFF 1: ON	OFF
18	VIRTUAL TRACE DIP SW IPATD TRACE (OFF)	IPATD Trace is enabled foroutput.	0: OFF 1: ON	OFF
19	VIRTUAL TRACE DIP SW ISDN TRACE (OFF)	ISDN Trace is enabled for output.	0: OFF 1: ON	OFF
20	VIRTUAL TRACE DIP SW SPI TRACE (OFF)	SPI Trace is enabled for output.	0: OFF 1: ON	OFF
21	VIRTUAL TRACE DIP SW DECT TRACE (OFF)	DECT Trace is enabled for output.	0: OFF 1: ON	OFF
22	VIRTUAL TRACE DIP SW HTTPXML TRACE (OFF)	HTTPXML Trace is enabled for output.	0: OFF 1: ON	OFF

3.3.17 VIRTUAL DIP-SWITCH — PGM 453

The Virtual Dip Switch is employed to change from in-band to SMDI for External Voice Mail communications and manually poll each IP KTS device.

PROCEDURE:	
	Press the [PGM] button and dial 453.
	To enable trace, press desired Flex button 1~6. The Flex button
VIRTUAL DIP SWITCH	LEDs indicates Dip switch setting, On/Off. Press the desired Flex
	button to toggle setting,
PRESS FLEX KEY (1-6)	- LED On: enabled
	- LED Off: disabled
	To enable call trace, press the [Save] button.

Table 3.3.17-1 VIRTUAL DIP-SWITCH (PGM 453)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VIRTUAL DIP SWITCH DEVICE POLLING: (ON)	'Device polling'. If enabled (On), the system will check each registered device, Gateway/Board and iPECS Phone to determine if the device is alive or not.	0: OFF 1: ON	ON
2	VIRTUAL DIP SWITCH SMDI SETTING: (OFF)	SMDI setting is enabled for output.	0: OFF 1: ON	OFF
3	VIRTUAL DIP SWITCH MULTICAST LED: (OFF)	If this value is set, the LED commands from MPB will be sent to Gateway/boards and terminals in the multi-cast mode.	0: OFF 1: ON	OFF
4	VIRTUAL DIP SWITCH AUTO NEGO: (MANUAL)	This field enables negotiation of speed between the LAN switch port and the system.	0: AUTO 1: MANUAL	MANUAL
5	VIRTUAL DIP SWITCH FULL-HALF: (FULL)	The duplex mode of LAN connections can be set according to this field.	0: FULL 1: HALF	FULL
6	VIRTUAL DIP SWITCH 10-100 TX: (100)	The speed of the Ethernet interface is established based on this field, 10 Base T or 10/ 100 Base T.	0: 100 1: 10	100

3.3.18 3.3.18 DECT ATTRIBUTES — PGM 4913

DECT Attributes define functions associated with the DECT equipment and operation. Generally, the entry will turn the feature ON (enable) or OFF (disable).

PROCEDURE:	
	Press the [PGM] button and dial 491.
DECT ATTRIBUTES	Press the Flex button for the desired Attribute; refer to Table 3.3.18-1.
PRESS FLEX KEY (1-4)	Use the dial pad to enter the required data.
	Press the [Save] button to store the data entry.

Table 3.3.18-1 DECT ATTRIBUTES (PGM 491)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	AUTO CALL RLS (1:ON/0:OFF) : OFF	If enabled, when the other party of an active internal call disconnects, GDC-450H/480H/500H returns to idle.	0: OFF 1: ON	OFF
2	BASE FAULT ALARM (1:EN/0:DIS) : DISABLE	If enabled, DECT Base station (GDC-600BE) alarms are sent to the Attendant.	0: Disable 1: Enable	Disable
3	CHAIN FAULT ALARM (1:EN/0:DIS) : DISABLE	Not used.	0: Disable 1: Enable	Disable

4 WEB Service

4.1 General

The iPECS system incorporates a Web Server, which is employed by the system's Web Service. Using a Web browser the system's Web Server can be accessed and the database managed in a user-friendly environment.

In addition to modifying the system database, Web Admin provides for Maintenance such as system file upload, remote upgrade, database download and maintenance functions.

We provide On-line web user guide to a user. You can get the information about the frequent use of features by clicking [User's guide] in the login page.

The default database includes assignment of a private IP address to the system. This address (10.10.10.2) may be used to access the system from the LAN. However, a routable IP address must be assigned for access from a remote location.

To access the iPECS Web Server requires:

- Operating iPECS series system
- IP address assigned in the system and is known
- TCP port assigned for the KSU LAN port and is known
- iPECS system connected to an accessible LAN
- iPECS system password (Keyset Admin, Remote access, and CID) if any, is known

4.1.1 PC/Browser

- MS Explore 10.0, Chrome 24.0, Firefox 18.0 or higher version is recommended (HTML5 support required)
- Windows PC, at least 32MB RAM (64MB or more RAM is recommended)
- NIC (Network Interface Card)

4.1.2 Environment for LAN connection

- IEEE 802.3, 10/100 Base T
- Static/DHCP addressing
- Firewall, requires Network Administrator to allow access.
- Remote access requires a routable IP address for the iPECS system Web Server. This must be assigned to the system prior to access.

4.2 iPECS systemWeb Access & Login

In the browser 'ADDRESS' field, enter the MPB or UCP IP address (default is 10.10.10.2) and TCP port. Select GO; the Web server returns iPECS system Web Services Login page, Figure 4.2.1-1. The Web services include the Admin and Maintenance functions and the Station Program User Portal.

To access the Admin and Maintenance function, User ID and Password should be matched with the assignments in the User Management.

The default Maintenance User ID is 'admin' and the password is '1234'. The system will return the Admin & Maintenance Main page, section 4.3.

To access the Station program, the user must enter their Station number and full Authorization code (station number and Auth code) in Tables Data – Station Authorization Code (PGM 227). The system will return the Station Program Main page as shown in section 4.6.



Figure 4.2-1 iPECS eMG80 Home page



Figure 4.2-2 iPECS eMG100Home page



Figure 4.2-3 iPECS eMG800Home page



Figure 4.2-4 iPECS UCP600Home page

For reference, we explain Admin and Maintenance based on UCP600. The home page is displayed according to eMG80/100, eMG800 & UCP type (UCP100, UCP600, UCP2400).

To access User portal, the user must enter **Station number and full Authorization code** (station number and Auth code) as defined in Tables Data – Station Authorization Codes (PGM 227). The system will go to the user portal Main page as below.For detail information, refer to "User Portal User Guide" provided.

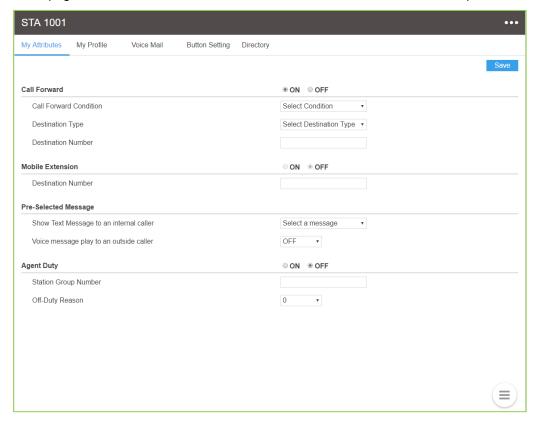


Figure 4.2-2 iPECS User Portal main page

4.3 Web Admin & Maintenance Main Page Overview

In the Web Admin Login screen (see section 4.2), enter the User ID and Password then click the **[Login]** button to access the iPECS Admin & Maintenance Main Page as shown in Figure 4.3-1.

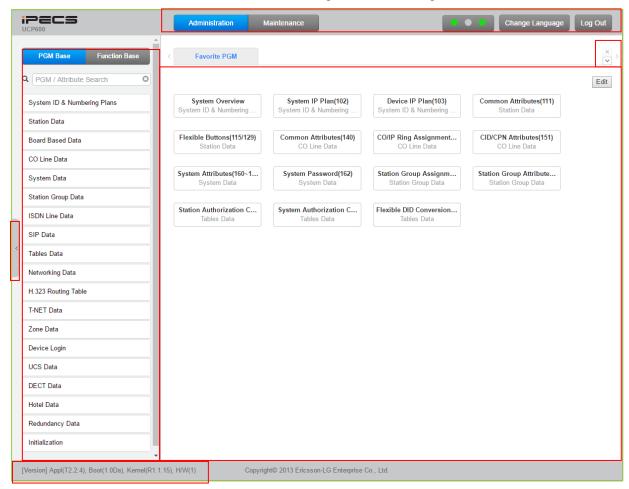


Figure 4.3-1 iPECS UCP Admin & Maintenance Main Page

The Admin & Maintenance Main Page has three sections,

Menu bar – Upper frame

Administration – accesses the system database.

Maintenance – SW upgrade, Database, Multi Language, SMDR, VSF, Voice Mail, Trace, etc.

Change Language— change the desired language.

Log out - log out the web server

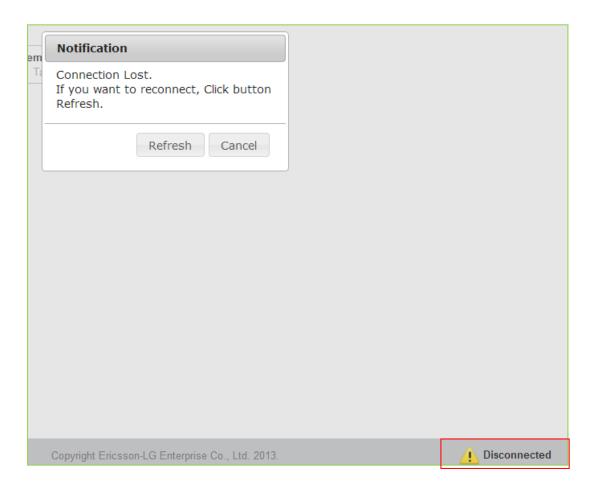
- Search box, PGM Base, Function Base

 Left frame
- Favorite Programs and Entry section Central frame

What is the meaning about Buttons and Text on page?

- Search Box: When user clicks PGM search menu for the first time, it takes 4 seconds to build index. Whenever user types a keyword or PGM number, PGMs that have the keyword will be shown at the left menu. Searched text will be highlighted in green when the PGM window shows. User can search for the related feature easily in Administration and Maintenance.
- 2) Hide menu by clicking the left arrow in the middle of window on left side.

- 3) X button at the top of the page on the right side functions whether the current tab or all tabs are closed or not.
- 4) button will display all PGM by click and check which PGM is using.
- 5) The Application, Boot, and Kernel version can find at the left side of bottom.
- 6) User can check the status indicator at the bottom on the right side of page by displaying the text such Disconnected or Read Only User.
 - Disconnected: disconnected to Web Admin Server without working for a long time. User can connect to Web Admin Server by clicking Refresh button.
 - Read Only User: User who access to Web Admin Sever has no authority to set the function as the maintenance user and just is only for read.



License State Display

If "Installation Period" or the color of SW Maint. is GREEN, system software can be upgraded.

Major version upgrade is possible in "Installation" or "Maintenance" Period but Minor version upgrade is possible in "Warranty" Period. In other states, both upgrade and downgrade are not allowed.



- First LED : SW maintenance
- Second LED: Temporary License
- Third LED: T-Net (eMG & UCP) /Redundancy (UCP only)

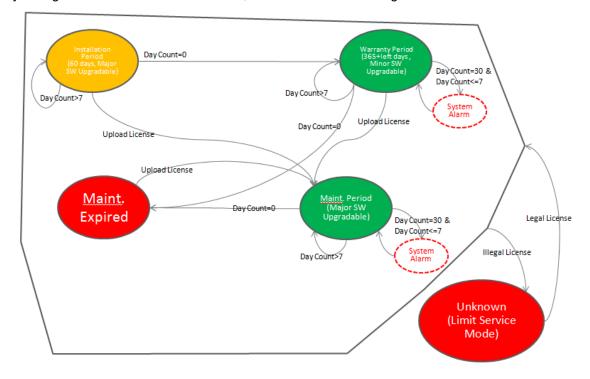
Note)

- To turn off the alarm, Administrator can set 'Alarm Enable' to OFF in System Data > Alarm Attributes (163) > Alarm enable: OFF.For more information, refer to Alarm Attributes.
- To turn off the alarm on Phone, press 'Alarm reset' PGM code *565 to stop. It's a one-time thing.
 Please check the exact alarm reset code in Flexible Numbering Plan (106~109) because the code is different according to the numbering plan.

SW Maintenance State

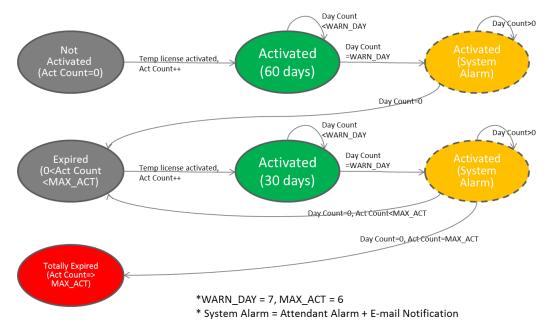
The following figure is SW Maintenance state for SMB. System Alarm (Attenant alarm & E-mail notification) occurs once 30 days before expiration and daily during 7 days before expiration.

If the system goes to the limited service mode, the station COS is changed to 7.



Temp License State

Temp License can be activated totally 6 times. It is valid for 60 days at first activation and is valid 30 days from second activation to the last. System Alarm occurs daily during 7 days before expiration.

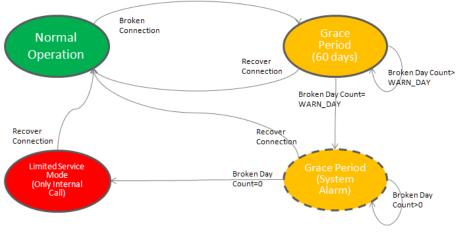


T-Net or Redundancy State

T-Net LCM license is valid for 60 days if the connection is broken. And Redundancy for UCP system is valid for 60 days if System is slave, active state, and the connection is broken.

But the limitation is not applied in Master system. System Alarm occurs daily whenever the broken day coutner is smaller than 7 and the alarm will be stopped if the connection is restored.

- Below cases are always "Normal".
- 1. TNLS license
- 2. Master system when redundancy



^{*}WARN_DAY=7, MAX_ACT=6

^{*} System Alarm = Attendant Alarm + E-mail Notification

4.3.1 Favorite Program Groups

To ease access to frequently used program, the iPECS Admin Main Page displays a Favorite PGM list. The Favorite PGM list buttons, when selected, return the associated Web page. Up to 20 favorites are configured using the Edit button in the upper right of the page.

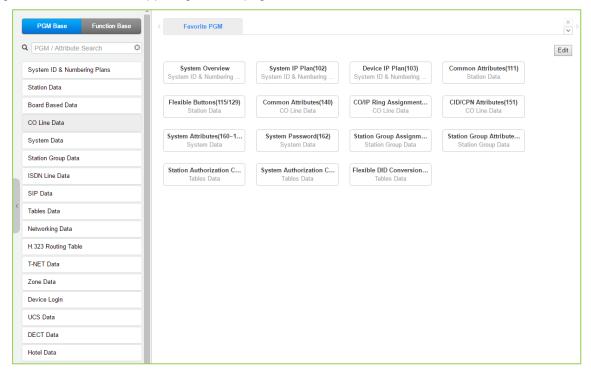


Figure 4.3.1-1 Favorite Program

To register a Favorite program: Click Edit button. The following page will be displayed.

- Clear button: Clears the check box for all programs.
- Save button: Saves the Web page, PGMs with checked boxes are stored as Favorites, up to 20.
- Back button: Returns to the previous page.

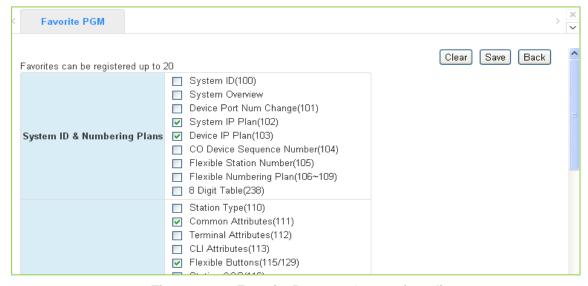


Figure 4.3.1-2Favorite Program Groups for edit

4.3.2 Using Function Base

Function Base is designed to customize the feature or PGM by configuring the Function base so that customer can be easy to use the desired and frequent feature.

There are two buttons: Common Function List and User Function List. The feature or PGM can register up to 20 as Favorite function.

Common Function List

Generally, iPECS system supports the basic function list as default. The available function is 5 (DID Setting Scenario, Network Scenario, SIP Extension Registration, SIP Trunk Configuration, Station Group Scenario). The 5 functions can't be deleted or editable.

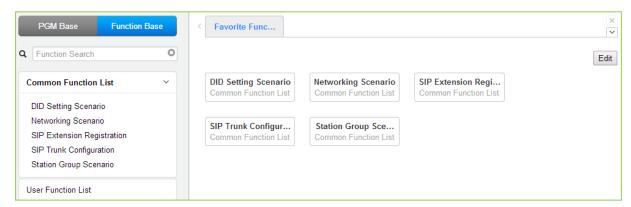


Figure 4.3.2-1 Common Function List

User Function List

To configure the user function list, click Maintenance button and then you can see the Function Program in the left frame and click the sub menu 'User Function Management' as the following figure. On this web page, you can add or delete the function.

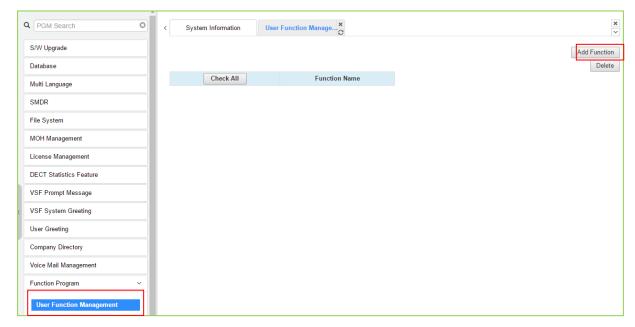
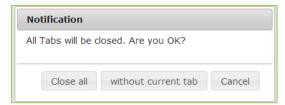


Figure 4.3.2-2User Function Management

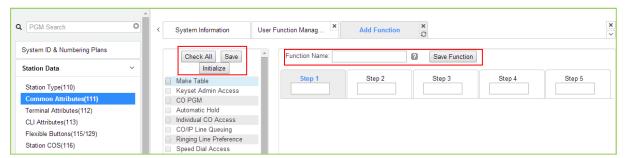
Adding Function

This step is divided into 5 steps and you can make the desired function each step. The following is the guide to make Name and add the function on each step:

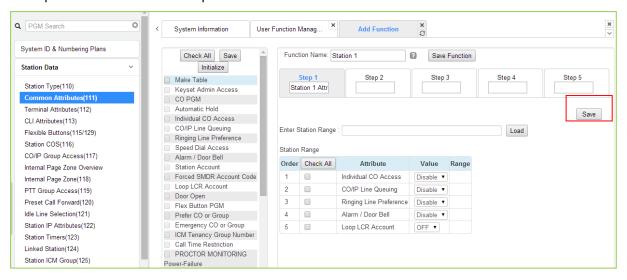
- To enter the function name, English, Numbering, Underscore (_) and Parentheses are available. Function name has to be filled out.
- To enter the step name, English, Numbering, and Special letters except Double quotation marks are available.
- The step name doesn't need to be filled out, but the function has to be configured each step.
- To cancel or close this tab, click the close button (X) and pop up the blow;



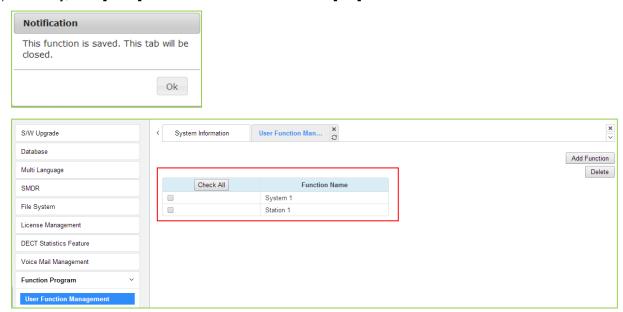
- 1) Click the Add Function button.
- 2) On the below window, click the desired PGM in the left frame. First fill out the function name and step name. To configure the step 1, click the Make table to check the desired function and then click [Save] button.
 - Check All: check all functions
 - Save: Save the checked functions
 - · Initialize: Initialize the checked functions



3) The selected functions are displayed and click **[Save]** button after checking each functions. The rest steps are the same as the step 1.

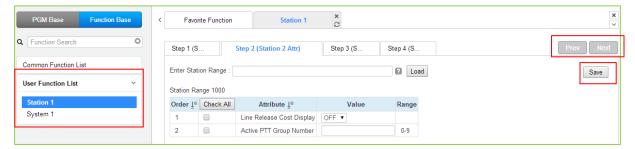


4) Finally, click [Save] Function to save and then click [OK] button.



5) To check the function, click Function Base button in the left frame and User Function List and you will see the following figure.

You can enable or disable the function by checking each function and then click the save after setting Value. Also move to each step by clicking [Next] button or [Previous] button.



Deleting Function

To delete the user function, click Maintenance at the top of window and then click the Function Program -> User Function Management. Check the desired function to delete and click **[Delete]** button.



4.3.3 iPECS Web Page Navigation

The Navigation frame appears in the left after login; refer to Figure 4.3-1. Selecting a Program group from either the Navigation pane or the Favorites list will display the selected Web entry page. Each of the system's data entry Web pages includes a frame for data display and modification. To modify data, click in the data field, either a drop-down menu will appear for entry selection or a cursor will appear in the field and the user may type in the data required. Once all new data for a Web page has been entered, the **[Save]** button must be clicked to send the new page to the system and save the modified data. In some cases, where mentioned, it may be necessary to reset the system. The system can be reset manually as described in the **iPECS Hardware Description and Installation Manual** by selecting the Reset System button on the Initialization Web page or using the reset button.

4.3.4 General Web Page Features

4.3.4.1 Web Page Range Entries

On many of the Web pages for Station, CO Line and Tables Data a range of station, lines or table indices must be entered to display the appropriate data entry page. In this case, a range of devices or indices can be selected by entering the lowest and highest device number separated by a dash. In addition, a comma can be used to enter non-sequential numbers. Note no space characters should be entered before or after the dash or comma. Note the data entry page displays the data for the lowest device or table index entered.

4.3.4.2 Table Check Boxes

Data entry pages that require a range entry, only display the data for the lowest device number or Table index entered in the range. To assure that only the appropriate data is changed for all entries in the range, a check box is located in front of each attribute. When the page is saved, only data for attributes with the box checked are saved for the range while data for unchecked attributes are not modified.

4.3.4.3 Sorting Displayed Data

Charts in the data pages typically allow the data to be sorted based on a given column in either ascending or descending order. In the column header, the sorting symbol displays to indicate the sorting function is available for the column.

4.3.5 Install wizard

After the system is initialized, the first time Web Admin is accessed, the Install Wizard is displayed. The Wizard presents 10 pages in sequence with parameters that should be verified or commonly need modification prior to operation of the system including:

- System Upgrade
- Nation Code
- System Time&Date
- Station Number
- Flexible Numbering Plan
- CO Ring Assignment
- Maintenance ID &Password
- IP Information
- Config Encryption
- License Upload

4.3.5.1 System Upgrade

Click the Select files button and then open the pop-up folder. Select the desired file to upload to the system's memory and click the **[Start]** button. The file is sent to the system's memory, saved and automatically loaded upon a system reset or restart.



4.3.5.2 Nation Code

During initialization, the system employs the Nation Code to establish the default gains and tones for the various interfaces (analog CO Lines, ISDN lines, etc.), as well as the numbering plans for the specific country. The gains, in particular must be set to comply with the local regulatory requirements. Normally, the Nation Code will be set at the factory, however, assure the Nation code matches the system location.

Changing Nation Code

- Dip Switch pole 4 of UCP100 (or UCP600, UCP2400) moves to ON. Dip Switch pole 2 of KSU (eMG) moves to ON.
- 2) Change Nation Code by clicking in the combo box.
- 3) Click [Save] button and then the system start resetting to apply.

In addition, all other data will be initialized, so the Nation Code should be properly set prior to other programming. You can change the numbering plan for your situation. Default UCS License is added.

UCP systems provide built-in UCS licenses. You can select the type of that except for vUCP.



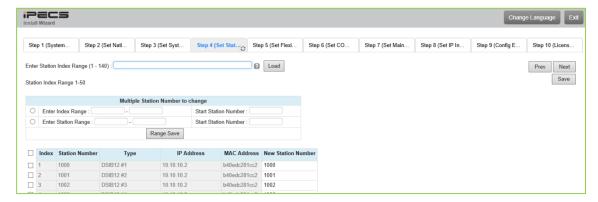
4.3.5.3 Set SystemTime and Date

You can set System time and date in this page.



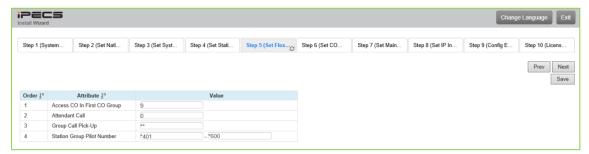
4.3.5.4 Set Station Number

You want to change the current station number to New station number. In this page, you can change the station number.



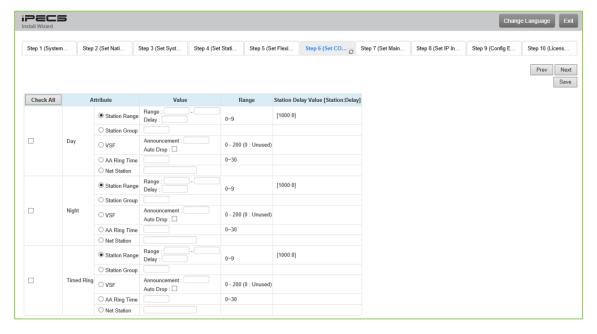
4.3.5.5 Set Flexible Numbering Plan

The Flexible Numbering Plan defines the various digit strings (codes) users may dial to access system resources (outside lines, page zones, etc.) and features. In the wizard, codes for features that commonly may require modification are displayed.



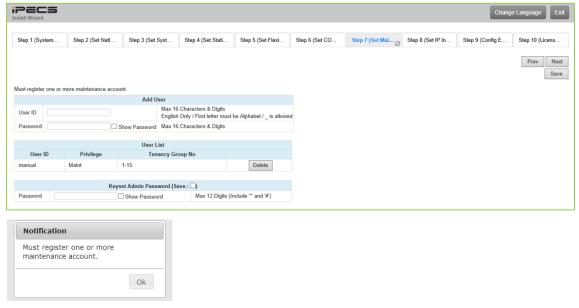
4.3.5.6 Set CO Ring Assignment

CO Ring Assignment establishes how the system will route incoming calls. The wizard assignments cover all CO/IP Lines in the system and the Ring assignments for Day, Night and Timed Ring modes can be established.



4.3.5.7 Set Maintenance ID & Password

The Wizard includes a password entry page. It is strongly recommended that a unique User ID and strong password be entered to minimize the risk of admin and maintenance access by unauthorized personnel. In order to finish the final step, you should register at least a maintenance ID. If not so, the Wizard can't go on to the next. Also, Keyset admin password can be registered in this page.



NOTE)

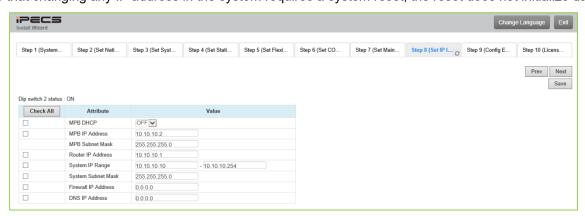
The new information will be in effect immediately upon saving the information. When a new Admin User ID and Password are saved, the Web login screen appears. A new Admin session will be required using the new login credentials. The number of Tenancy group for each system is as below:

UCP100/600/2400	100 groups
eMG800	32 groups
eMG80/100	15 groups

4.3.5.8 Set IP Information

The IP Information page establishes the IP address scheme. DHCP can be enabled or static addressing can be configured. When the system is behind a firewall, the Firewall address must be entered allowing proper operation with remote users, devise and SIP trunks. A DNS (Directory Name Server) for Domain Name resolution should also be entered on this page.

Note that changing any IP address in the system requires a system reset; the reset does not initialize data.



4.3.5.9 Config Encryption

Passphrase is used for DB encryption. If the value is set, the private date in your system will be encrypted. Therefore even if the files which include private data are leaked, they cannot be read. When you don't want to this encryption feature, you have to set the passphrase to blank.

Note that, before the encryption, it is better backup your DB for emergency case and remember the passphrase. Otherwise, you cannot decrypt the system DB.

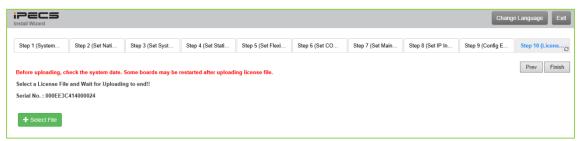
If the passphrase is assigned, the system DB which includes private data will be encrypted. If the passphrase is lost, you cannot change it or decrypted system DBs,



4.3.5.10 Set License Upload

Before License upload, make sure that the date of system is set correctly. Click[Select files] button and then open the pop-up folder. Select availd license file to upload to the system and click the [Start] button.

If the file which is sent to the system is "System License File", it will be saved and automatically applied without restart. The enabled features by uploading license file can be shown in "System Overview" page.



4.4 Web Admin Programming

4.4.1 System ID & Numbering Plans

Selecting the System ID & Numbering Plans expands the Navigation frame to display the available Program groups as shown in the below figure.

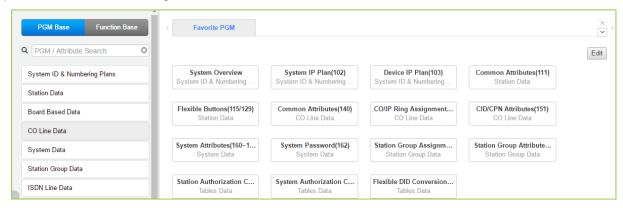


Figure 4.4.1-1 System ID & Numbering Plans sub-menu

4.4.1.1 System ID - PGM 100

Selecting System ID will display the following Input Entry page. Click **[Reset System]** to restart the system after changing Nation code, Site name, Site detail, My area code, Multi area code, Numbering Plan, etc.

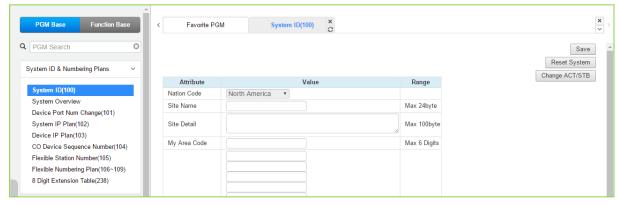


Figure 4.4.1.1-1 System ID

Under System ID, the country is identified using the international dial codes (Nation Code). A twenty-four (24) character Site Name, Site detail and the local My Area Code maybe defined. This information is used to set gain, frequencies and other system characteristics specific to the country and regional regulatory requirements. The Site Name is primarily useful for the installer/programmer as a reference to customer.

Note)

- In case of eMG, to change Nation code, Dip-switch 1 pole # 2 is ON; you cannot change the Nation code while the switch is OFF.
- In case of UCP, to change the Nation Code, the UCP Module "Mode" dipswitch pole 4 must be ON; you cannot change the Nation code while the switch is OFF.
- The rest attributes are additional options for Customer's convenience.
- In case of UCP, the built-in VoIP DSP channels (VOIU) can be disabled allowing use of the DSPs for the Multi-party Conference function.
- In case of UCP100, SLIU channels cab be disabled or enabled.

Numbering Plan

The system employs one of the nine (9) basic Flexible Number Plans as detailed in Appendix B. Individual items from the selected Numbering Plan can be changed under Flexible Numbering Plan in section 4.4.1.7.

Note) The numbering plan on this manual is based on Numbering plan 2. The value (or feature code) may be different according to Numbering plan.

eMG80

Flexible VMIU/VOIU(MPB) channel	VMIU 8 / VOIU 0 ▼
Flexible VMIB/VOIB(VVMU) channel	VMIB 4 / VOIB 8 ▼

Flexible VMIU/VOIU(MPB) channel&Flexible VMIB/VOIB(VVMU) channel

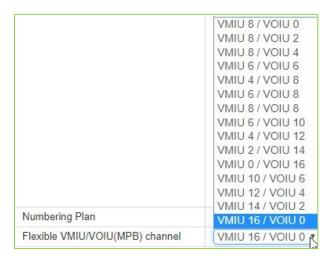
You can select one of the following types according to the current configuration using Voice mail and VoIP channel

Flexible VMIU/VOIU(MPB) channel	Flexible VMIB/VOIB(VVMU) channel
VMIU8 / VOIU0	VMIB8 / VOIB4
VMIU8 / VOIU2	VMIB6 / VOIB6
VMIU8 / VOIU4	VMIB4 / VOIB8
VMIU6 / VOIU6	
VMIU4 / VOIU8	

- 1) Administrator can select the channel capacity of VoIP and Voice Mail in this filed. In case of VMIU8/VOIU0, the default 2 channel of VoIP can't be used.
- 2) VVMU channel field can't be available if VVMU is not installed.
- 3) Select VoIP and Voice mail channel for Built-in (MPB) and VVMU by referring the below chart.

Item		Specification
		Max. 8 Channels
VOIU(MPB)	Built-in VoIP	- 2 Channels (by default)
		- 6 Channels (1 Channel increment by license)
		Max. 8 Channels
VMIU(MPB)	Built-in Voice Mail	- 2 Channels (by default)
		- 6 Channels (1 Channel increment by license)
VOIDAAAA	ValD	Max. 8 Channels
VOIB(VVMU)	VoIP	- 8 Channels (1 Channel increment by license)
\/MID(\/\/MII)	1/21 1/4-11	Max. 8 Channels
VMIB(VVMU)	Voice Mail	- 8 Channels (1 Channel increment by license)

eMG100



Flexible VMIU/VOIU(MPB) channel

You can select one of the following types according to the current configuration using Voice mail and VoIP channel

Flexible VMIU/VOIU(MPB) channel			
VMIU8 / VOIU0	VMIU4 / VOIU12		
VMIU8 / VOIU2	VMIU2 / VOIU14		
VMIU8 / VOIU4	VMIU0 / VOIU16		
VMIU6 / VOIU6	VMIU10 / VOIU6		
VMIU4 / VOIU8	VMIU12 / VOIU4		
VMIU6 / VOIU8	VMIU14 / VOIU2		
VMIU8 / VOIU8	VMIU16 / VOIU0		
VMIU6 / VOIU10			

- Administrator can select the channel capacity of VoIP and Voice Mail in this filed.
 In case of VMIU8/VOIU0 and VMIU16 / VOIU0 default 2 channel of VoIP can't be used.
- 2) Select VoIP and Voice mail channel for Built-in (MPB) by referring the below chart.

Item		Specification	
		Max. 16 Channels	
VOIU(MPB)	Built-in VoIP	- 2 Channels (by default)	
		- 14 Channels (1 Channel increment by license)	
	Built-in Voice Mail	Max. 16hannels	
VMIU(MPB)		- 2 Channels (by default)	
		- 14hannels (1 Channel increment by license)	

eMG800

Flexible VMIU/VOIU channel VMIU 4 / VOIU 8 ▼

Flexible VMIU/VOIU channel

You can select one of the following types according to the current configuration using Voice mail and VoIP channel.

Flexible VMIU/VOIU channel
VMIU8 / VOIU0
VMIU8 / VOIU2
VMIU8 / VOIU4
VMIU4 / VOIU8

<u>UC</u>P

You can set VOIU in this page.

The MCIU (Audio Conference) channel is flexible according to VoIU 'Enable or Disable' and installing the related module as below:

Channel / System		UCP100			UCP600
Channel / System	Channel / System		4BRI	No TDM	No TDM
CO/BRI		4	8	0	0
MISC	MISC		2	2	4
SLT		2	2	2	0
Built-in MCIU	VolU: Enable	6	6	6	6
(Auido Conference)	VoIU: Disable	14	10	18	18
Built-in VoIP channel when VoIU is enabled		4	2	6	6
Built-in VoIP (Switching) by license (8 Ch)		8/16			8/16/24

^{*}VolU: Built-in VolP (DSP).

Speed Numbering'

You can easily memory the system speed dial code and station dial code by selecting the desired type depending on the situation among the following types:

eMG80/100

- 1) Type (0): System speed (2000~4999), Station speed (000~099)
- 2) Type (1): System speed (200~999), Station speed (000~099)
- 3) Type (2): System speed (200~999), Station speed (00~19)
- 4) Type (3): System speed (20~99), Station speed (00~19)
- 5) Type (4): System speed (1000~3999), Station speed (000~099)
- 6) Type (5): System speed (100~999), Station speed (000~099)
- 7) Type (6): System speed (100~999), Station speed (00~09)
- 8) Type (7): System speed (10~99), Station speed (00~09)
- 9) Type (8): System speed (1~9), Station speed (0~0)

^{*}VolU set the default value 'Enable or Disable' in Install wizard or PGM100.

^{*}The number of channel for MCIU is flexible according to using VoIU and Option boards as the above.

eMG800

- 1) Type (0): System speed (2000~9999), Station speed (000~099)
- 2) Type (1): System speed (200~999), Station speed (000~099)
- 3) Type (2): System speed (200~999), Station speed (00~19)
- 4) Type (3): System speed (20~99), Station speed (00~19)
- 5) Type (4): System speed (1000~8999), Station speed (000~099)
- 6) Type (5): System speed (100~999), Station speed (000~099)
- 7) Type (6): System speed (100~999), Station speed (00~09)
- 8) Type (7): System speed (10~99), Station speed (00~09)
- 9) Type (8): System speed (1~9), Station speed (0~0)

UCP

- 1) Type (0): System speed (20000~31999), Station speed (000~099)
- 2) Type (1): System speed (2000~9999), Station speed (000~099)
- 3) Type (2): System speed (200~999), Station speed (000~099)
- 4) Type (3): System speed (200~999), Station speed (00~19)
- 5) Type (4): System speed (20~99), Station speed (00~19)
- 6) Type (5): System speed (1000~9999), Station speed (000~099)
- 7) Type (6): System speed (100~999), Station speed (000~099)
- 8) Type (7): System speed (100~999), Station speed (00~09)
- 9) Type (8): System speed (10~99), Station speed (00~09)
- 10) Type (9): System speed (1~9), Station speed (0~0)

The notifications is displayed 'Speed Numbering type is successfully changed.

Please refresh this page to reload Speed numbering data." According to selecting Speed numbering type, the range of System speed dial and Station speed dial is changed over the related PGM.

Default UCS License'

UCP systems provide built-in UCS licenses. You can select the type of that except for vUCP.



4.4.1.2 System Overview

Selecting System Overview will display the System Overview page. This page displays the systemcapacity, the system license overview related to Application, Device ID list, and Gateway list. Note that data cannot be entered on this page. Especially, you can check the status of software license and Temp license.

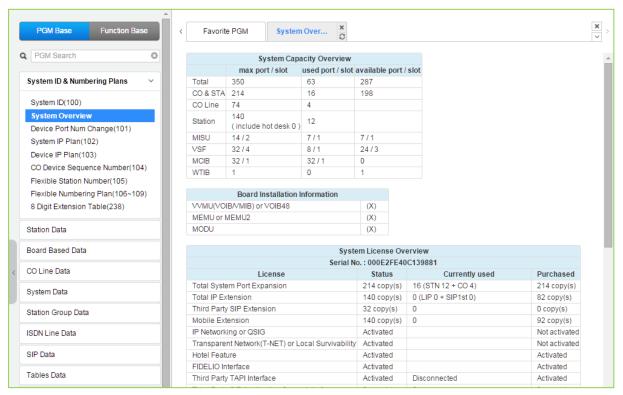


Figure 4.4.1.2-1 eMG80/100System Overview

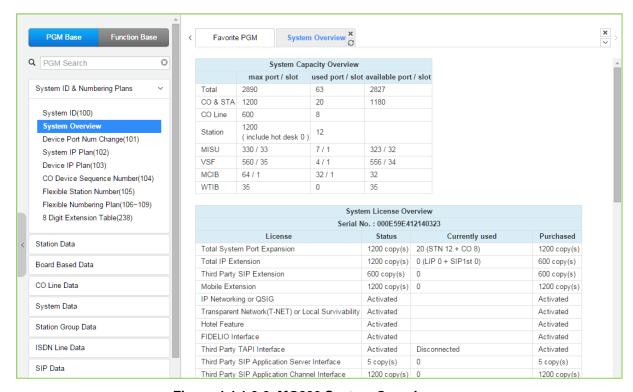


Figure 4.4.1.2-2eMG800 System Overview

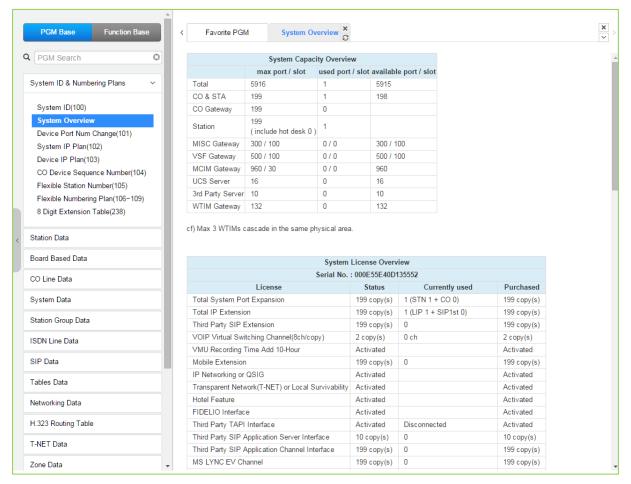


Figure 4.4.1.2-3UCP System Overview

The above information may be different according to installing the related board and license.

Especially UCP is different according to UCP type (UCP100, UCP600, UCP2400).

Note) System overview may show different figure between the below and yours according to installing Module, Device, etc.

4.4.1.3 Device Port Number Change- PGM 101

Selecting Device Port Num Change (101) will display the input entry page.



Figure 4.4.1.3-1 eMG80/100Device Port Num Change



Figure 4.4.1.3-2eMG800 Device Port Num Change

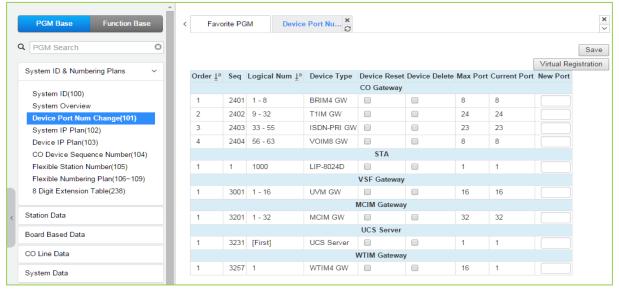


Figure 4.4.1.3-3UCP Device Port Num Change

The system supports changing port count of a device or deleting devices. In this window, the Device ID, Mac address, IP address and port count of the device can be modified.

Also checking the [Device Delete] check box will delete the device.

Devices may be registered through the Virtual Registration page by accessing to "Device Port Number Change" page.

Devices can be registered with or without a MAC address and the number of ports associated with the device may be limited.

This may be useful for example to implement a "partial T1" gateway where only some of the T1 channels are available. Note to virtually register a SIP trunk, use the Device Type of CO and device as VOIM, enter the desired number of channels.

If you want to use virtual MAC address when you register Device, please check the check box in front of MAC address input field. Click [Register] button after finishing the desired value.

Administrator can register 25 devices at one time and can copy/paste/drag like excel.

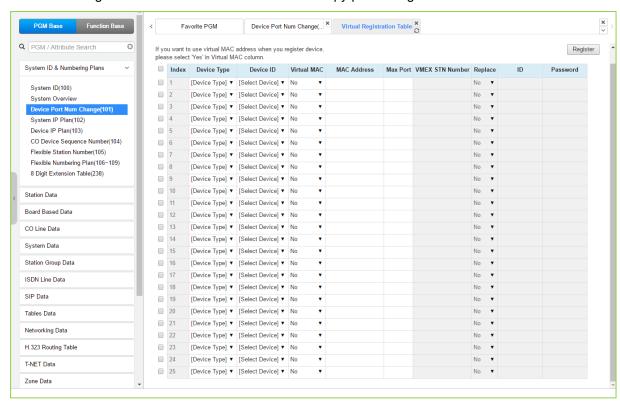


Figure 4.4.1.3-2 Virtual Registration

4.4.1.4 System IP Plan - PGM 102

Selecting System IP Plan will display the following input entry page.

Use the check boxes to indicate which attributes to modify and the data for checked attributes is stored for the entire range of stations when saved.

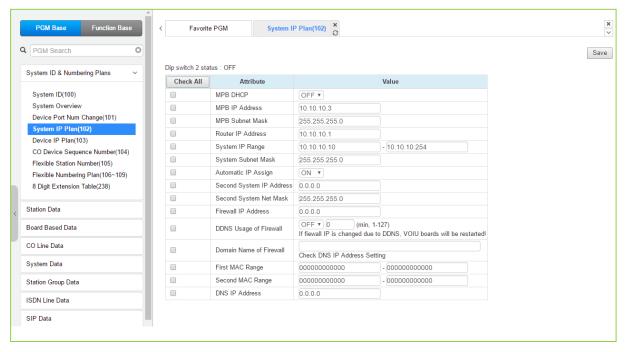


Figure 4.4.1.4-1 eMG System IP Plan

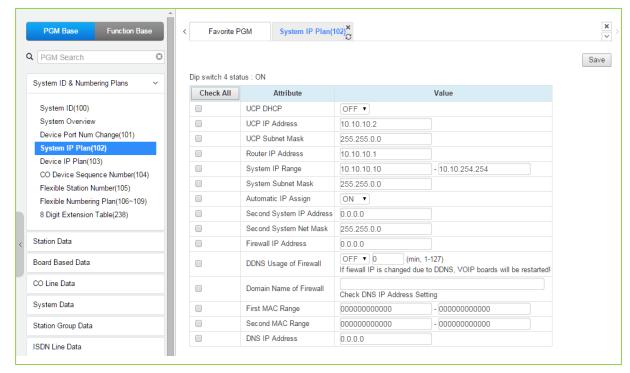


Figure 4.4.1.4-2UCP System IP Plan

The System IP Plan sets several IP addresses including MPB (UCP) IP address that is required for external VoIP calls, the IP address for the router, and the system's internal private IP address Plan.

Note that the LAN and Router addresses must be routable IP addresses for access to an external VoIP network, remote access by an iPECS Phone or remote Web access.

When used, the LAN port of the VVMU(eMG80), VOIB(eMG100/800) or VOIM (Voice over IP device unit) must also have a routable IP address for access to/from an external VoIP network and a remote iPECS device.

When "Automatic IP Assign" is enabled, the system will assign IP addresses to each iPECS IP terminal and gateway Modules including any VOIM using the System IP address range defined. These addresses are used for communications between the system and other VOIMs and terminals.

When "Automatic IP Assign" is enabled, the system will assign IP addresses to each iPECS IP terminal andBoard (Gateway Modules) including any VVMU, VOIB or VOIM using the System IP address range defined. These addresses are used for communications between the system and other VVMU (VOIB, VOIM) and terminals.

The system may be connected to a LAN that is segmented by two separate private IP address schemes. This segmenting technique often used to separate voice and data devices.

However, with this segmenting technique, the system will normally treat the segmented devices such as IP softphones, as remote devices, using valuable WAN bandwidth. Assigning the "Second Sys IP address" with a valid IP address from the second segment permits the system to communicate directly with the devices over the LAN.

iPECS can be installed behind a NAPT server, if the NAPT server provides fixed address translation and port forwarding to the system. In this case, the system will employ the "Firewall IP address" as the fixed IP address for communication with remote devices. This address must be assigned as the "MPB (UCP)" address in the remote device.

Table 4.4.1.4-1 SYSTEM IP ADDRESS PLAN

ATTRIBUTE	DESCRIPTION	DEFAULT
MPB (UCP) DHCP	Controls the DHCP client function for MPB in the KSU or UCP.	OFF
MPB (UCP) IP Address	Public IP Address of the KSU (UCP) LAN port that required for remote user and external VoIP network access. IPv4 format.	10.10.10.2
MPB (UCP) SubnetMask	Defines the system subnet for MPB (UCP) IP addresses.	255.255.255.0
Router IP Address	IP Address of router for external network (WAN) access. Required for shared voice and data LAN, external VoIP and remote Web access.	10.10.10.1
System IP Range	Range for private IP addresses of Modules/Terminals.	
System SubnetMask	Define the system subnet for private IP addresses.	255.255.255.0
Automatic IPAssign	The system automatically assigns IP addresses to modules and terminals (ON) or, when OFF, IP addresses are assigned manually in Device IP Address Table or from the DHCP address assigned to the device.	ON
Second SystemIP Address	When devices have different address schemes on the same LAN, enter an IP address from the second LAN for use by the system.	0.0.0.0

Table 4.4.1.4-1 SYSTEM IP ADDRESS PLAN

ATTRIBUTE	DESCRIPTION	DEFAULT
Second SystemNet Mask	Net mask of the second private IP addresses	255.255.255.0
Firewall IP Address	When the system is installed behind a NAPT server, the fixed IP Address provided by the NAPT server must be assigned here. Also, use this IP address to identify the MPB (UCP) in remote devices.	0.0.0.0
DDNS Usage of Firewall	If the firewall of system has a dynamic IP address, you can use Dynamic DNS by setting 'DDNS Usage of Firewall' and	ON/OFF, 1-127 (Min.)
Domain Name of Firewall	'Domain Name of Firewall'. Note that after IP address of firewall is changed, VOIP (UCP) / VOIU (eMG)board will be restarted.	
First MAC Range	MAC Address Range to register a device if device MAC address is included in range.	000000000000 000000000000
Second MAC Range	MAC Address Range to register a device if device MAC address is included in range.	000000000000 000000000000
DNS IP Address	IP Address of Domain Name Server, which iPECS system will use to resolve a URL to an IP address. The DNS provides the resolution after receiving the name from iPECS.	0.0.0.0
System IPV6 Usage	Usage of IPV6 Address in SIP signaling	No
System IPV6 Address	IPV6 address used for System - User can set Unicast IP or set based on SLAAC Info.	
System IPV6 Router	IPV6 Router used for System - User can set Router IP or set based on SLAAC Info.	
System IPV6 Net Prefix	IPV6 Prefix used for System - User can set Prefix or set based on SLAAC Info.	64

4.4.1.5 Device IP Plan - PGM 103

Selecting Device IP Plan will display the input entry page.



Figure 4.4.1.5-1 eMG Device IP Plan

TDM board is registered with own slot number. It is registered automatically without any configuration.

If the station is assigned to Master or Slave by linked station, the bracket '[M] or [S]' will be displayed by the station number in PGM 101, 103, 105, 124 of Web page.

To register IP device:

As Gateway/board and terminals are registered to the iPECS, a slot number is assigned, which indicates the order of registration.

Also, based on the type of device (CO Gateway/board, Terminal or Station board) the system assigns a logical Sequence Number.

Thus, Sequence Numbers for CO Gateway/board, Terminals are independently assigned based on the type of Gateway/board.

These Sequence Numbers are employed to provide a relationship between the physical MAC address and the logical port numbers of the device.

The system may assign a default private IP address to each Sequence Number. If desired, this program may be used to modify the assigned IP address for each Gateway/board and iPECS Phone.

Each Gateway/board and terminal can be assigned for "Direct Send". With Direct Send enabled, the system will employ the Ethernet MAC address of the device to send iPECS protocol messages to the device. This reduces the overall LAN traffic by eliminating the need for IP address headers in the messages.

The system normally employs IP multi-cast protocol to respond to a registration request from a Gateway/board or terminal.

When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the "Local Device" assignment. When disabled (Off), the system will send an IP uni-cast message to the device in response to a registration request.



Figure 4.4.1.5-2UCP Device IP Plan

This page displays all of the devices registered to the iPECS UCP by grouping into the type of device (CO, STA, etc.).

If the station is assigned to Master or Slave by linked station, the bracket '[M] or [S]' will be displayed by the station number in PGM 101, 103, 105, 124 of Web page.

Selecting the SVC button for a device will toggle the service mode between in and out-of-service. The device type can be modified as well as the MAC and IP address.

Using the SVC check box to place a device out of service, an errant device can be replaced without affecting the database. After placing the device out-of-service, it can be removed, replaced and the MAC address of the new device entered.

The SVC check box is used to bring the new device into service employing the database from the replaced device.

The system may assign a default private IP address to each device. If desired, this program may be used to modify the assigned IP address for each Gateway/board and iPECS Phone.

The device mode, connected to a local or remote LAN, is displayed. Each Gateway/board and terminal can be assigned for "ARP". With ARP disabled, the system will employ the Ethernet MAC address of the device to send iPECS protocol messages to the device.

This reduces the overall LAN traffic by eliminating ARP messages and the need for IP address headers in the messages.

The system normally employs IP multi-cast protocol to respond to a registration request from a Gateway/board or terminal.

When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the "Local Device" assignment.

When disabled (OFF), the system will send an IP uni-cast message to the device in response to a registration request.

4.4.1.6 CO Device Sequence Number - PGM 104

Selecting CO Gateway/board Sequence Number will display the input entry page. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click **[Save]** button after changing Value to apply.

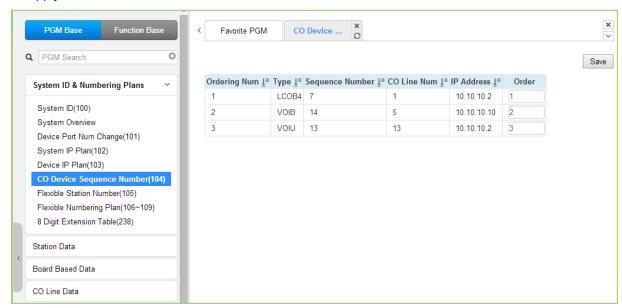


Figure 4.4.1.6-1 eMG CO Device Sequence Number

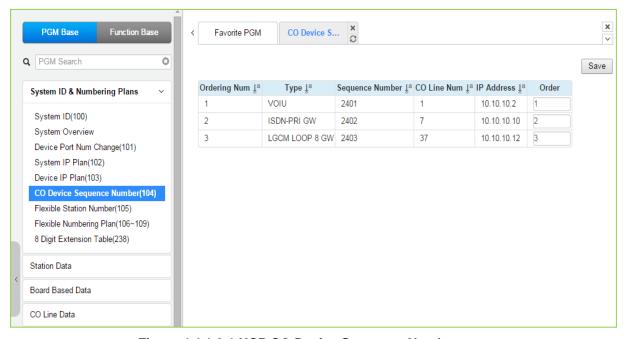


Figure 4.4.1.6-1 UCP CO Device Sequence Number

The system configures the CO/IP Line numbers as discussed in section 2.3. In case of eMG, each slot is assigned the starting CO/IP Line number based on the Order Numbering.

With UCP, each Module is assigned the starting CO/IP Line number based on the registration order.

In place of the default Order Numbering, the "Order" number assigned in this PGM can be used to reorder the CO/IP numbering.

4.4.1.7 Flexible Station Numbering Plan - PGM 105

Selecting Flexible Station Number will return the data entry page. For convenience, the copy, paste, and drag is available to enter or modify data.

This page permits changes in the Station Numbering Plan using one of three methods:

- Enter Station Index Range:eMG80/100: 1-140 / eMG800: 1-1200 / UCP: 1-2400
- Station Index Range: use to change the station numbers associated with a range of "Order Numbers" (the indexes). The "Start Station Number" is assigned to the station with the first index then the station number is incremented by one and assigned to the next station in the range. The process is repeated until the station number with the last index is changed.
- Station Number: enter the station number to search. The station number is displayed and then you can change the new station number as you wish.
- <u>Multiple Station Number to change:</u> there are two ways to search the station number for change; Enter Index Range or Enter Station Range.

You can change station numbers over a range of stations using the "Start Station Number" as the first station number for the range. The station number is incremented by one for each successive station in the range.

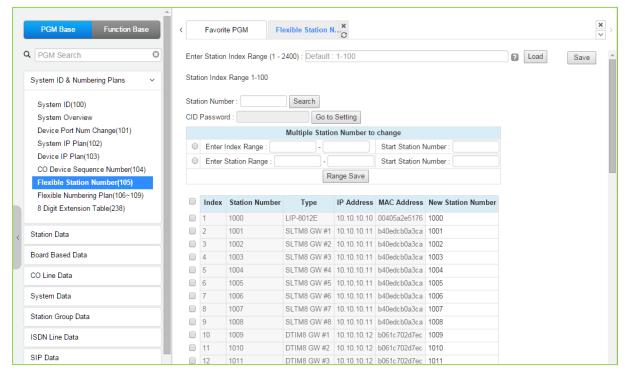


Figure 4.4.1.7-1 Flexible Station Number

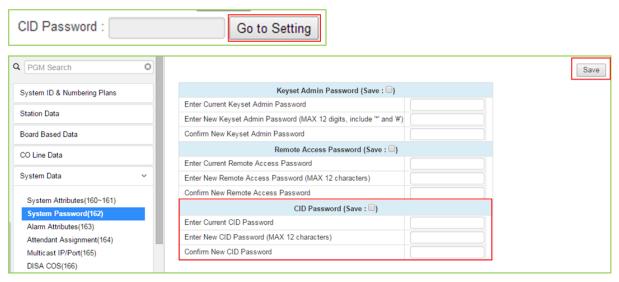
Each iPECS IP and LDP Phone and SLT is assigned a logical order number, shown as the "Index" number on the Web page, during the registration process. The station Index number is incremented from 1 as each terminal device is registered.

At registration, station numbers increment sequentially with the index and are assigned starting at Station 100 for eMG80/100 and at Station 1000 for eMG800/UCP.

The Station Numbering Plan allows the station numbers to be two (2) to eight (8) digits in length as long as the number of digits in the Station numbers is the same.

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the **[Save]** button.



4.4.1.8 Flexible Numbering Plan - PGM 106 ~ 109

Selecting Flexible Numbering Plan will display the input entry page. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click [Save] button after changing Value to apply.

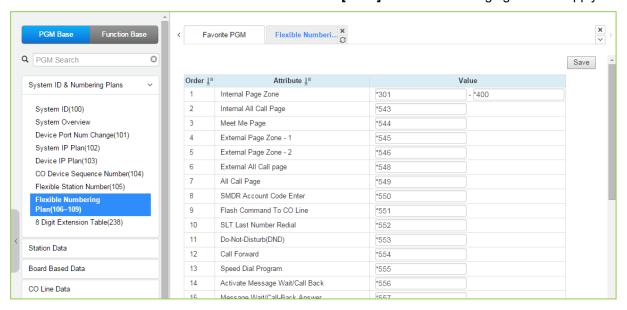


Figure 4.4.1.8-1 Flexible Number Plan

Feature dial codes for the system can be assigned using the system's Flexible Number Plan. Feature codes should be one (1) to four (4) digit in length and must not conflict. For example, Feature codes 53 and 536 represent a conflict. The system will not update the database until correct data is entered. Table 4.4.1.8-1 provides a brief description for each feature and the default codes as they appear in Numbering Plan 2. The default values for other numbering plans, which may be selected on the title "System ID (100)" and other numbering plan is described in Appendix B.

Table 4.4.1.8-1 FLEXIBLE NUMBERING PLAN CODES

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
4	Internal Davis Zara	Internal Page Zone access codes.	Refer to
1	Internal Page Zone	eMG80/100:301~335, eMG800:*301~*400, UCP:*301~*400	description
2	Internal All CallPage	Internal All Call Page access code.	*543
3	Meet Me Page	Meet-Me-Page answer code.	*544
4	External PageZone – 1	External Page Zone 1 access code.	*545
	_	External Page Zone 1 access code only for	
5	External Page Zone – 2	UCP/eMG100.	*546
6	External All CallPage	External All Call Page access code.	*548
7	All Call Page	All Call Page access code.	*549
8	SMDR AccountCode Enter	Dial code to signify the start of an SMDR Account Code.	*550
9	Flash CommandTo CO Line	Dial code to generate a Flash on the active CO Line.	*551
10	SLT Last NumberRedial	SLT Last number redial feature access code.	*552
11	Do-Not-Disturb(DND)	Dial code to activateDo-Not-Disturb.	*553
12	Call Forward	Code to activate Call Forward.	*554
13	Speed DialProgram	SLT Speed Dial programming access code.	*555
14	Activate MessageWait/Call Back	Code to activate Message Wait/Call Back.	*556
15	Message Wait/Call-Back Answer	Code to return Message Wait/Call Back.	*557
16	SLT Speed DialAccess	SLT Speed Dial access code.	*558
17	DND/FWD Cancel	Code to cancel DND/FWD/MSG Wait.	*559
18	SLT CO SystemHold	Code to place a CO Line call on System Hold.	*560
19	SLT ProgramMode Access	SLT user program access code.	*561
20	AttendantUnavailable	Code to make attendant "unavailable".	*562
21	AME Feature	Dial code to assign an Answering Machine Emulation Flex button.	*564
22	Alarm Reset	Code to terminate an Alarm signal.	*565
23	Group CallPick-Up	Group CallPick-up code.	*566
24	Universal NightAnswer	Universal NightAnswer code.	*567
25	Account CodeWith Bin	Dial code forentering anAccount Code.	*568
26	Walking COS	Dial code toactivate WalkingClass-of-Service.	*569
27	ACD Agent ON/OFF Duty	Code to toggleACD SupervisorON and OFF duty.	*571
28	ACD SupervisorLogin	Supervisor log-incode.	*572
29	ACD SupervisorLogout	Supervisor log-outcode.	*573
30	ACD Help Code	Agent &Supervisor code forSupervisor help.	*574
31	ACD Call InQueue Display	Dial code todisplay calls inqueue.	*575
32	ACD SupervisorStatus	Dial code todisplay groupstatus.	*576
33	ACD SupervisorMonitor	Dial code toactivateSupervisormonitor.	*577
34	ACD RerouteQueued CallAnswer	Code to reroutecall after answer.	*578

Table 4.4.1.8-1 FLEXIBLE NUMBERING PLAN CODES

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
35	ACD RerouteQueued Call NoAnswer	Code to reroutecall prior toanswer.	*579
36	Camp-On Answer	Dial code toanswer a CampedOn call.	*621
37	Call ParkLocations	Dial code toplace/retrieve acall in a systemPark Orbit. eMG80/100:#601~#619, eMG800:#601~#800, UCP:#601~#800	Refer to description
38	Station GroupPilot Number	Station group pilotnumber. eMG80/100: *401~*4 40 , eMG800: *401~* 500 , UCP: *401~*500	Refer to description
39	Station User VSFFeatures Access	VSF featureaccess code.	66
40	Call CoverageRing	Code for CallCoverage button.	*76
41	Direct CallPick-Up	Dial code toactivate DirectedCall Pick-up.	*77
42	Access CO Group	Dial code toaccess a CO Linefrom a group.	89
43	Access IndividualCO/IP	Dial code toaccess a specificCO/IPLine.	88
44	Access Held CO/IP	Dial code toaccess the last CO/IPLine from Hold.	8*
45	Access HeldIndividual CO/IP	Dial code toaccess a specificCO/IPLine from Hold.	8#
46	Access CO InFirst CO Group	Dial code to access the 1st available CO/IP Line in any accessible group.	9
47	Attendant Call	Dial code to callMain Attendant.	0
48	VM MSG WaitEnable	Dial code forexternal Voicemail to activateMessage Waitindication.	*8
49	VM MSG WaitCancel	Dial code forexternal VoiceMail to deactivateMessage Waitindication.	*9
50	Door Open	Dial code toactivate Door 1contact.	#*1
51	Door Open	Dial code toactivate Door 2contact.	#*2
52	Door Open	Dial code to activate Door 3 contact only for UCP/eMG100.	#*3
53	Door Open	Dial code to activate Door 4 contact only for UCP/eMG100.	#*4
54	MCID Request	Dial code toactivate MaliciousCaller Id (ExceptUSA version).	*0
55	UnsupervisedConf TimerExtend Code	Dial code toextendunsupervisedconference time.	##
56	PTT GroupLogon/Logoff	Push-To-Talkgroup login andlogout dial code. The station musthave a PTTbutton for properoperation.	#0
57	ACD AgentPrimary Login	ACD AgentPrimary Logincode.	*581
58	ACD AgentPrimary Logout	ACD AgentPrimary Logoutcode.	*582
59	ACD AgentSecondary Login	ACD AgentSecondary LoginCode.	*583
60	ACD AgentSecondary Logout	ACD AgentSecondary LogoutCode.	*584
61	Wrap-up End	ACD AgentWrap-up endcode.	*585
62	T-NET CM LOGIN/OUT	T-NET CM Login/out code	*586

Table 4.4.1.8-1 FLEXIBLE NUMBERING PLAN CODES

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
63	ENTER INTOCONF ROOM	Code for a stationto enter aconference room.	*59
64	ENTER INTOCONF-GROUP	Code for a stationto initiate aconference group.	*68
65	STATION ICR	Code for a stationto activate ICRforward.	*587
66	PICK UP GROUPPICK-UP	Pick Up GroupCall Pick-up dialing code.	*588
67	EMERGENCYPAGE	Code foremergency page.	*589
68	REMOTE MEXCONTROL	Code to controlthe mobileextension settingsremotely.	*580
69	Agent ON/OFFDuty In ALL GRP	Code to changethe state of the Agent ON/Off dutyin all Station groups.	*58*
70	SLT ACNR	Dial code for an SLT to activate ACNR	*58#
71	ACD SupervisorRing Mode	Code to checkand change ACDgroup Ring modeby ACD groupsupervisor.	*570
72	CompanyDirectory Name	Code to checkand record a user's Name greeting for theCompanyDirectory feature.	*563
73	ISDNSupplementaryHOLD	ISDNSupplementaryHOLD NumberingPlan Code.	*57*
74	ISDNSupplementaryConference	ISDNSupplementaryConferenceNumbering PlanCode (Notsupported).	*57#
75	Forced ChannelSeize	Code to disconnect an existing call and seize the CO/IP Line or connect to the station.	*56*
76	Override DND/Forward	Dial code to override DND or Call Forward activated by a station.	*56#
77	Cancel call back	Code to cancel a Callback request.	
78	Transfer to VSF Number	While on a CO/IP Line call, this code may be used to transfer a call to a valid system announcement, [Transfer] + [*55*] + valid system announcement (01-200). The outside party receives the system announcement and DISA service activates.	*55*
79	CCR	It is used in digit conversion.	#2
80	Room Type Conf Group Join	After a UCS client activates a UCS Conference Group, other users may dial this code and the group number to enter the Conference.	5*0
81	Phone Lock/Unlock	Protect a phone from normal call features and allow only making of emergent call features.	47*
82	Flexible Page Prefix	Prefix code to access extended Page Codes.	*7*

4.4.1.9 8Digit Extension Table - PGM 238

Selecting 8 Digit Extension Table will display the input entry page. Click [Save] button after changing Value to apply.

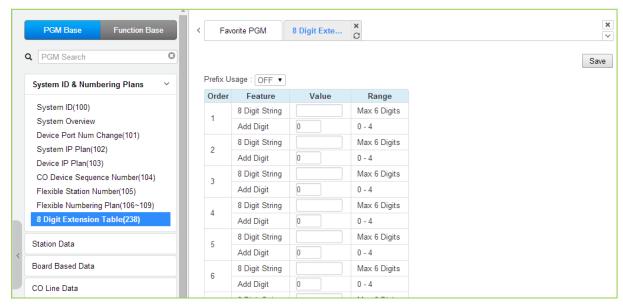


Figure 4.4.1.9-1 8 Digit Table

The iPECS system supports a Station Numbering Plan of up to eight digits. By combining a prefix digit string (8 Digit String) of up to six (6) digits with the Add Digit count (digit count from the Station Numbering assigned in PGM 105), Station Numbering can support up to eight digits. Note that multiple prefixes (8 Digit Strings) with varying ADD Digit counts can be assigned. In addition, in case of a conflict, the Prefix digit string will have priority over the Flexible Numbering Plan thus disabling the feature associated with the digit string but allowing the station to receive calls.

4.4.2 Station Data

Selecting the Station Data group will display the Station Data sub-menu displayed in the left frame as the below figure.

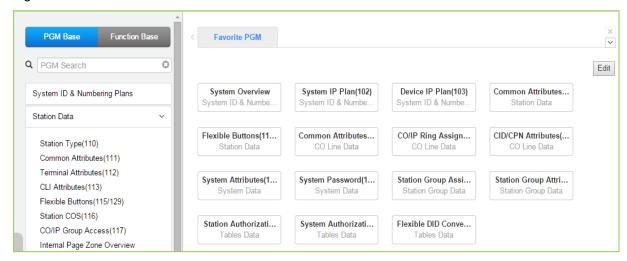


Figure 4.4.2-1 Station Data Main Page

4.4.2.1 Station Type - PGM 110

Selecting Station Type will display the Station Type data input entry page. Enter a valid station range and click **[Load]** to modify the Station Type data. Click **[Save]** button after changing Value to apply.

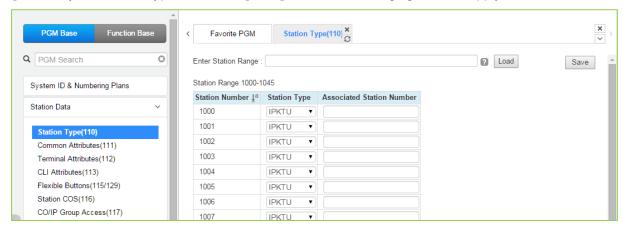


Figure 4.4.2.1-1 Station Type

Each station is assigned a type selected from the "Station Type" drop-down menu. The type is used by the system to recognize the station's capability and set default Flex button configurations. In addition, for standard iPECS DSS/BLF consoles, the 'AssociatedStation Number' is required so the system will recognize the station that is used with the console. Note this is not used with the Serial DSS/BLF Consoles.In case of selecting SLT type, there are 6 types as below:

- SLT (DTMF)
- SLT (Pulse)
- SLT (DTMF VOL-MW)
- SLT (Pulse-MW)
- SLT (DTMF FSK-MW)
- SLT (DTMF POL-MW)

4.4.2.2 Common Attributes - PGM 111

Preference

CO/IP Line button.

Selecting Common Attributes will display the commonattributes data input page. Enter a valid station range and click the **[Load]** button to enter Common Attributes data.

Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations by clicking [Save]button after changing Value.

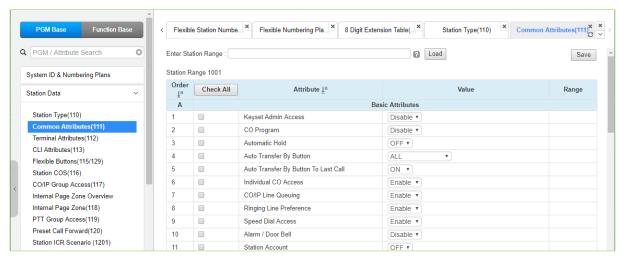


Figure 4.4.2.2-1 Common Attributes

Common Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to the following table for a description of the features and the input required.

Tuble 4.4.2.2 1 Common Attributes				
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Keyset Admin Access	When enabled, the station can access the system Database.	Disable Enable	Enable	
CO PGM	A station can be permitted to change the CO/IPLinenumbers (ports) associated with a Flexible button.	Disable Enable	Disable	
Automatic Hold	Enables Auto Hold for the station. With Auto Holdenabled, the system will place an active external callon hold if the user presses a CO/IP Line or DSS button.	OFF ON	ATD: ON Others:OFF	
Auto Transfer By Button	Transfer a talking call to a new making call by pressingStation(DSS)/CO(Loop)/U-Loop flexible button. OFF, ALL Except CO to CO	Refer to description	ALL	
Auto Transfer By Button To Last Call	Transfer a talking call to only last new making call when use Auto Transfer By Button. Ex) Talking -> press Button A -> press Button B -> On Hook: Talking is transferred to Button B	OFF ON	ON	
Individual CO Access	Permits stations to use dial codes to access individualCO/IP Lines.	Disable Enable	Enable	
CO/IP Line Queuing	Permits the station to queue for the next available Linewhen an All Lines Busy signal is received.	Disable Enable	Enable	
Ringing Line	Enables Ringing Line Preference for the station. Callsthat ring the telephone can be answered by goingoff-hook without selecting the	Disable	Enable	

Table 4.4.2.2-1 Common Attributes

Enable

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Speed Dial Access	Allows the station to access System Speed Dial bins.	Disable Enable	Enable
Alarm/Door Bell	Assigns a station to receive Alarm/Door Bell signal.	Disable Enable	Disable
Station Account	When ON, the station user must enter an authorization code to access CO/IP Lines.	OFF ON	OFF
Forced SMDR Account Code	When On, the user must enter an Account code to place an outgoing call.	OFF ON	OFF
Loop LCR Account	The Station may be required to enter a StationAuthorization code to accessLOOP LCR operation.	OFF ON	OFF
Door Open	Enables use of Door open feature by station.	Disable Enable	Enable
Flex Button PGM	The ability to assign Flexible buttons of the iPECS IP and LDP Phones can be controlled. When allowed here, the user may assign features to Flexible buttons but requires special assignments to configure CO/IP Line buttons.	OFF ON	ON
Prefer CO or Group	The System will seize this CO/IP Line or a Line from the CO/IP group numberwhen the station dials "9" (First available Co accesscode) CO, IP Line, CO Groupnumber	Refer to description	Access code
Emergency CO or Group	This field defines the CO/IP Line or Group employed by the system to place Emergency Assistance calls. CO #, CO Group #	Refer to description	Any CO
ICM Tenancy Group	Assigns stations to an ICM Tenancy Group. eMG80/100:1~15, eMG800:0~32, UCP:0~100	Refer to description	1
Call Time Restriction	All outgoing calls will disconnect at expiration of the Call Restrict Timer. The Cut-Off Timers can be set the time for Station and CO Line. For cut off timer of Station, refer to the title "Station Timers (123)". For CO line, refer to the title "CO Line data: Common Attributes (144)".	OFF ON	OFF
Proctor MonitoringPow er-Fail	Enables use of PABX ANI Link device for E-911support, Only an SLT port can be used for this feature.	OFF ON	OFF
Line Release CostDisplay	When a CO/IP line is released, the disconnect cause or call-cost isdisplayed in the LCD of iPECS IP or LDP Phone.	OFF ON	OFF
Active PTT GroupNumber	A station can be assigned to a PTT (Push-to-Talk) group and thegroup enabled so the station can place and receivePTT announcements for the group.	0~9	
Hot Desk Station	A station (only IP Phone) can be assigned as a Hot Desk phone. Users and agents can login and use resources of the system through the Hot Desk phone.	OFF ON	OFF
SMDR Hidden DialedDigits	If this feature enables, the dialed digit can be hided on SMDR output.	Disable Enable	Disable

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Left Message to Executive	When a call forwards to the Secretary of anExecutive/Secretary pair, messages can be left for theExecutive (ON) or Secretary (OFF).	OFF ON	ON
Station Web Level	Based on this level, the user will be able to view the specified programs within the Station User Web portal. Level 1 can view all programs, Levels 2 and 3 are configured in the title "System data: Station Web Authorization". This is a Web only PGM.	LEVEL 1 ~ LEVEL 3	LEVEL 2
Headset page mode	When a page announcement is received, it is normally played over the Speaker of the iPECS IP or LDP Phone. For headset users, the page can played to the headset or both the headset and speaker.SPKR, HEADSET, BOTH	Refer to description	Speaker
Progress Indication	When employing a non-ISDN terminal, specifically a modem or analog FAX, the ISDN call SETUP message must include this message and "Progress Indication" should be set to "ON".	OFF ON	OFF
3.1 KHz Audio	When an analog device (SLT or FAX) uses an ISDNLine in the system, the Information Element of theISDN SETUP message must indicate the device onlyhas 3.1 KHz audio capabilities. If an SLT or analogFAX will be allowed access to the ISDN Lines, thisparameter must be "ON"	OFF ON	OFF
Pickup by flexible button	When a station receives a call, the DSS/BLF button at other stations will flash and, if allowed, other stations may use the button to answer (pick-up) the call. ON:User can pick up by DSS button. OFF: User can't pickup by DSS button.	OFF ON	ON
Prepaid Call	It is useful feature for user to pay the money within the budget (Prepaid) for outgoing calls. For more information, refer to the below feature "Prepaid money".	OFF ON	OFF
Prepaid Money (0 - 999999) &	An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is	000000 – 999999	0
Used Prepaid Money	often used in small hospitality businesses. The "Used Pre-paid Money" displays the money that has been used.	000000 - 999999	0
SIP USER TABLE INDEX	These fields reference the index to the SIP User ID Attributes Table. The referenced SIP User ID may be employed for several		0
SIP USER TABLE INDEX2	of the SIP headers for outgoing calls and may be employed for incoming call routing as configured in the SIP CO Attributes PGM 133, "ID Assigned Station".	Refer to description	0
SIP USER TABLE INDEX3	Up to three SIP User Id indices can be assigned to each station to permit the use of up to three SIP Trunk service providers. eMG80/100:0~140, eMG800:0~1200, UCP:0~2400		0

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Web Language	User can select the desired language for Station Web. English, Local language	Refer to description	English
Lift Handset for page	If an iPECS IP or LDP Phone user attempts to page using the speakerphone, pre-selection will be activated and the display shows "Lift Handset for Page when Lift Handset for Page is ON". If Lift Handset for Page is OFF, then User can make page on speakerphone without lift handset.	OFF ON	ON
Privacy	If Privacy is ON, then any person could not barge-in to the station and also Attendant can't intrude to Station. Also, if Privacy is ON, any person can't forcefully disconnect the station.	OFF ON	OFF
Collect call block	This option enables each station to block a collect call by setting OFF.	OFF ON	OFF
DSS LED service	This option indicates whether to use the other station by showing LED of DSS button if the other station is assigned to DSS button. If this option is ON, the DSS LED light appears red. If this option is OFF, the LED DSS light is not available even though the station number is assigned to DSS button.	OFF ON	ON
DSS LED service on other station	This option indicates whether DSS LED is updated or not on other station If it is ON then DSS button LED of other station is updated. If it is OFF then DSS button LED of other station is not updated	OFF ON	ON
Stop Emergency page announcement	If this is set to "After announcement", then system will keep playing the announcement regardless of calling party's status. By calling party, After announcement	Refer to description	By calling party
Send LM IP to UC client	If it is set to the available number, then system sends LM IP to UC premium client even though it is connected to CM. It is used for local survival. UCP:1-100, eMG800:1-32,eMG80/100: 1-15	Refer to description	
Media Option	Only audio path is connected when make internal call/answer. Both Audio and Video path is connected when make internal call/answer between LIP-9070/9071. Audio only, Audio & Video	Refer to description	Audio only
Hot Desk Emergency Call Identity	When a Hotdesk station makes an emergency call, the specification of co line seized and caller number(CLI) is used with a stations according to this option. • Follow Logged-in Agent: Use Emergency CO Group and CLI of hotdesk logical user station. • Follow Hot Desk Phone: Use Emergency CO Group and CLI of hotdesk physical phone the user logged-in.	Refer to description	Follow Logged-in Agent
Hot Desk Page Identity	Page identity and page group and zone. • Follow logged-in agent • Hot desk phone	Refer to description	Follow Logged-in Agent

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
DTMF across the Page - DTMF Receive & ACK Allow	For Paged end point - Allow or do not allow the DTMF Receiving and sending of DTMF ACK digit string.	OFF ON	OFF	
	Call Coverage Attributes			
Call Coverage Mode	The Call Coverage feature permits an iPECS IP or LDP Phoneuser to receive ring and answer calls for other stations.	OFF ON	OFF	
Call Coverage Delay Ring	When a covered station rings, the {CALL COVERAGE} button LED will flash at the coveringstation and the station will receive ring (immediate ordelayed by 0 to 15 ring cycles).	0~15	0	
Call Coverage On Busy	OFF: Call Coverage is implemented when a covered station is in the idle state.ON: Call Coverage is implemented when a covered station is on idle or busy state.	OFF ON	ON	
Call Coverage Through Mobile Extension	OFF: Call Coverage Ring is not delivered to Mobile Extension ON: Call Coverage Ring is not delivered to Mobile Extension	OFF ON	ON	
Call Coverage On Busy Range	External Call Only: Call Coverage only for external calls when the covered station is busy External and Internal Call: Call Coverage both for external & internal calls when the covered station is busy	Refer to description	External Call Only	
Call Coverage Delay Ring Method	by Originator: Call Coverage Delay is implemented by the covered station's "Call Cover Delay Ring" delay count' by Member: Call Coverage Delay is implemented by covering station's "Call Cover Delay Ring" delay count'	Refer to description	by Originator	
Call Coverage For Wakeup Ring	OFF: Wakeup Ring to covered station is not covered ON: Wakeup Ring to covered station is covered	OFF ON	OFF	
Call Coverage Ring Type on Member	Silence: No audible ring is presented and the user must press the flashing Call Coverage button to answer the call. Normal Ring: Audible ring is presented and the call can be answered by simply lifting the handset or pressing the Speaker button. Mute ring is only supported in LIP-8000E series. Silence, Normal Ring, Muted(Continuous)-80XXE only, Muted(One Burst)-80XXE only	Refer to description	Normal Ring	
Tone/Ring Attributes				
Call Time Tone	A tone can be sent periodically with indicating the elapsedtime of an outgoing CO/IP call. The Elapsed CallTimerdetermines the period between tones.For more information about Elapsed Call timer, refer to the title "System data: System timer (180~182, 186)".	OFF ON	OFF	

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Camp-on Tone	When the Camp-on feature is enabled for the station, if the station is busy and receives a Camp-on request, the LCD indicates the camped on call. In addition, if Camp-on tone is enabled, the Camp-On tone is sent to the station as an audible signal for the camp-on.	OFF ON	ОИ
ICM Dial Tone Source	One of four dial tone sources can be selected for each station. Dial Tone / Internal music / External music / VSF MOH / SLT MOH1~5 / VSF MOH2~30	Refer to description	Dial Tone
ICM Ring Back ToneSource	One of four ring back tones can be selected for each station. Ring BackTone / Internal music/External music/VSF MOH/SLT MOH1~5/VSF MOH2~30	Refer to description	Ring Back Tone
Off hook ring type	While the station is Off hook ring, the type of ring can be adjusted as a single burst, muted normal ring, system ring or no audible ring signal. BURST, MUTE, Refer to System Attributes, SILENCE	Refer to description	Refer to System attributes
SIP color ring	With a SIP based AA/VM that supports color ring, color ring may be provided to SIP pones. The group number associated with the external AA/VM should be entered as the SIP Color Ring source.		Station number
Gain table index	Selects one of three Tables employ to set the gain from a device to other device types. PGM 410 to 417 under the Maintenance tab set the individual gains.	1-3	1
Tone table index	Selects one of five Tables to determine the tones sent to the Station. The individual tones are configured in PGM 410 to 417 under the Maintenance.	1-5	1
Digit conversion table	One of the Digit Conversion Tables can be configured for use for this CO/IP Line. eMG80/100:1-15, eMG800:1-32, UCP: 1-32	Refer to description	
DTMF tone for Flexible button	If this is enabled, then, system provides DTMF tone when a user presses the flexible button to send DTMF tone to called party.	OFF ON	OFF
	Routing Attributes		
Call Forward	When allowed, Call Forward can be activated by the station.	OFF ON	OFF
DND	Enables DND to be activated by the station. The station can be limited to activate DND for outside calls (CO/IP Only) or for internal calls (ICM only), if desired. OFF, ALL, ICM call only, CO call only	Refer to description	OFF
Off-net Forward	A station must be allowed Off-Net Fwd to forwardexternal incoming calls outside the system orotherwise establish a CO-to-CO connection(Unsupervised Conference). (Except USA version)	Disable Enable	Enable
ACD Group Service	When unavailable, DID/DISA calls to the station can route to the ACD Group to which the station is amember.	OFF ON	OFF
Ring Group Service	When unavailable, DID/DISA calls to the station can route to the Ring Group to which the station is amember.	OFF ON	OFF

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ACD Login Priority	ACD Group members may be assigned a priority, 0-9. Members with the highest priority are sent calls ahead of lower priority members. This field is the same as PGM 191-button 19.	0 ~ 9	0
Prime Line	This feature enables Delayed Prime Line (Idle Line) activation; see the title "Idle Line Selection (121)" and "System data: System timer: Prime LineDelay timer (180~182 & 186)".	HOT WARM	WARM
Auto ACD DND	If an Agent does not answer an ACD call in the ACD No Answer timer, the Agent enters an Unavailable state with the Reason code entered here. The reason code is sent in ACD Event messages.	None #, *, 1~9	NONE
Forward if OOS	If a station is Out-of-Service and has previously forwarded calls, the system will forward the calls to the previous destination if enabled here.	OFF ON	OFF
LDT Table Index	LCR operation for the station will employ the LDT Table index defined by this entry. eMG80/100: 1-10, eMG800:1-32, UCP:1-32	Refer to description	1
LDT Zone number	If the LDT Zone Number of a LDT table (LCR LDT(221)) is equal to this value, the LDT table is available to this station.	1-100	1
Mobile (Web) Client Service	When enabled, the station can activate call back from the Station Web portal.	Disable, Enable	Disable
Click to call service	To use click call application, it should be enabled.	Disable, Enable	Disable
MS Lync RCC service	To use MS Lync RCC, it should be enabled.	Disable, Enable	Disable
MSN Wait	When a call that is corresponding to a MSN Telephone Number comes in to system, the call is basically routed to idle stations that have free MSN button that is assigned for the corresponding Telephone Number. And also the call can be routed to busy stations in the following condition. OFF: if a keyset is in a busy status, cannot receive incoming MSN Telephone Number corresponding call even though it has a free(idle) corresponding MSN LOOP Button ON: if a keyset is in a busy status, can receive incoming MSN Telephone Number corresponding call if it has a free(idle) corresponding MSN LOOP Button.	OFF ON	OFF
DID Restriction	A call routed using DID normally routes to the appropriate station. If desired, a Station can be restricted from receiving DID calls.	OFF ON	OFF
DISA Restriction	A call routed using DISA normally routes to the appropriate station. If desired, a Station can be restricted from receiving DISA calls.	OFF ON	OFF

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Pre-Selected Msg DND	When the user activates Pre-Selected or Custom Messages, the system can automatically activate DND for the station so that the station will not receive ring and the call is routed based on the DND treatment.	OFF ON	OFF
Private Mode for External Mobile or External Forwarded	 This is about presentation of number in display of internal caller's or callee's station in following cases. 1) extension 'A' calls extension 'B' that is forwarded to external number of 'B' ON: extension number or extension name of 'B' is presented in display of extension 'A' OFF: external number of 'B' or SPEED name of the external number 'B' is presented in display of extension 'A' 2) external number that is registered as extension 'B' calls extension 'A' ON: extension number or extension name of 'B' is presented in display of extension 'A' OFF: external number of 'B' or SPEED name of the external number 'B' is presented in display of extension 'A' 	OFF ON	ON
	Voice Attributes		
Page Access	Stations must be allowed Page access to send a page over the system's Paging facilities.	OFF ON	OFF
Forced hands Free Mode	When placing an intercom call, a user can change theICM signaling mode, Tone Ring to Hands free answermode or HF Answer to Tone Ring.	OFF ON	OFF
Group Listening	Enables Group Listen feature, audio is sent to boththe handset and speaker with the handset microphoneactive and speakerphone microphone OFF.	Disable Enable	Enable
Override Privilege	Enables intrusion to gain access to an active CO/IP call.	Disable Enable	Disable
Voice Over	Enables use of Voice Over by the station.	Disable Enable	Enable
Barge In Mode	Barge-in permits an authorized Station to intrudeinto other existing outside/internal calls or to force disconnection existing of an existing call. Disable, Only Monitor, Monitor & Join & Disconnect	Refer to description	Disable
Camp on enable	Station can receive a Camp-on while busy. If 'Camp On Tone' is enabled, the stations receive Camp-on tone, otherwise only the LCD will indicate the camp on call. If the station is not allowed to receive a Camp-On, the calling user receives error tone.	OFF ON	ON

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Video Show on Calling (ex. IP Video Door Phone)	When VoIP video door phone rings to a video-enabled IPKTS handset, the video streaming commences immediately while the IPKTS handset is in the ringing and the video stream continues when answered. OFF: normal implementation (video starts after answer) ON: video stream from this Video Door Phone to the ringing video-enabled LIP Phone even though this is alerting stage. Condition: A VOIU/VOIB channel for RTP-Packet-Relay purpose is required to serve ring-back-tone generation via a DSP channel. That is because system does pre-answer to the Video Door Phone even though the receiving station is on alerting state.	OFF ON	OFF
Silent intercom busy service	It is used to mute automatically when make intercom busy service (intrusion/voice over) and also it override "Ring Group Service"/"ACD Group Service".	OFF ON	OFF
Transfer for uncomplete call	When an user transfers a call to a busy extension, it defines to allow the transfer call. it is not working on SIP phone • Transfer: the call is transferred to busy extension • Recall: the call is recalled to transferring extension	Refer to description	Transfer
Block Transferred Call	When an user transfers a call to a extension, it defines to allow the transfer call. • Allow CO & ICM transfer : Allow CO and ICM call transfer • Block CO & ICM transfer: Block CO and ICM call transfer • Block CO transfer: Block CO call transfer • Block ICM transfer: Block ICM call transfer	Refer to description	Allow CO & ICM transfer
	MOH Attributes		
Default MOH for External Call	Default MOH type that holding party serves for an external call. Refer To Zone or Sys MOH, Internal Music1, External Music2, VSF MOH, SLT MOH1~5, VSF MOH2~30	Refer to description	Refer To Zone or Sys MOH
Default MOH for Internal Call	Default MOH type that holding party serves for an internal call. Refer To Zone or Sys MOH, Internal Music1, External Music2, VSF MOH, SLT MOH1~5, VSF MOH2~30	Refer to description	Refer To Zone or Sys MOH
Override MOH Of External CPN(231)	Default MOH type of holding party can override the MOH of CPN that is programmed in Flexible DID Conversion Table(231).	OFF ON	OFF

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Override MOH Of CO Line(140)	Default MOH type of holding party can override the MOH of CO Line that is programmed in CO Line MOH(140).	OFF ON	OFF
Zone MOH – Follow Holding party Zone	If MOH of device specific (CO or Station) is set to "Refer To Zone or Sys MOH" and Zone MOH type is set to a specific MOH that is not following "Refer To Sys MOH", MOH is type is decided by Zone MOH(P439).	OFF ON	OFF
Sys MOH – Follow Holding party Sys(TNET)	If MOH of device specific (CO or Station) is set to "Follow Zone or Sys MOH" and Zone MOH is set to "Refer To Sys MOH", MOH type decided by System(P171) or TNET(P335) Music Source setting.	OFF ON	OFF

4.4.2.3 Terminal Attributes - PGM 112

Selecting Terminal Attributes will display the Terminal Attributes data input page. Enter a valid station range and click[Load] to enter Terminal Attributes data. Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations by clicking [Save] Button after changing Value.

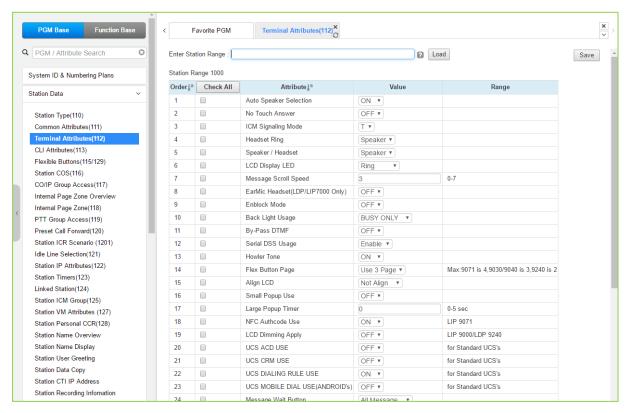


Figure 4.4.2.3-1 Terminal Attributes (PGM 112)

Terminal Attributes define features and functions available to the terminal itself. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to the following table for a description of the features and the input required.

Table 4.4.2.3-1 Terminal Attributes			
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Speak	Enables [SPEAKER] activation when a CO/IP Line, DSS orother	OFF	ON
Selection	feature button is pressed;there is no need to lifthandset.	ON	ON
No Touch Anguer	Enables No-touch answer, which automaticallyconnects	OFF	OFF
No-Touch Answer	transferred calls to the station'sspeakerphone after a short tone.	ON	OFF
ICM signaling	The user may select Hands-free (H), Privacy (P) or Tone Ring (T)	Н,	
Mode	for the ICM Signaling mode.	Τ,	T
Mode	Tor the row digitaling mode.	Р	
	The user can select how to receive Incoming ring signals	Speaker/	
Headset Ring	amongSpeaker, Headset or Both.	Headset/	Speaker
	amongopeaker, rieauset or both.	Both	
Speaker/Headset	The user can select between Speaker and Headset for Call.	Speaker/	Speaker
	The user can select between speaker and neadset for Call.	Headset/	Speaker

Table 4.4.2.3-1Terminal Attributes

Table 4.4.2.3-1Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCD Display LED	The LCD LED, upper left of LCD, may be used forIntercom Call ring Indication or both Message Wait and ringIndication.	MWI/Ring, Ring	MWI/Ring
Message Scroll Speed	The user can adjust the scroll speed on message from 0 to 7.	0 ~7	3
Ear& Mic Headset	The user can use Ear Microphone Headset for Internal or external calls if the phone has the Ear. Microphone headset port.	OFF ON	OFF
Enblock mode	When On, the user-dialed digits are stored at theiPECS IP or LDP Phone until explicitly sent by the user. Whensent, all dialed digits are sent to the system in a block. Enblock mode is only available to iPECS IP or LDP Phones with3-Soft keys.	OFF ON	OFF
Back Light Usage	The backlight of iPECS IP and LDP Phones is assigned to stay off, light only when the station is busy, or light constantly. Please check the phone if the feature is available before setting this option. Always Off, Busy Only, Always On	Refer to description	Busy Only
By Pass DTMF	When detected, DTMF from an SLT may beregenerated by CO/IP Line interface circuitry, the SLT port can by-passdetection so DTMF is not detected.	OFF ON	OFF
Serial DSS Usage	Enables an LIP-8000/LIP-9000/1000i station to have a Serial DSS/BLF Console attached.	Disable Enable	Enable
Howler Tone	Howler tone can be sent to a phone when leftoff-hook.	OFF ON	ON
Flex Button Page	LDP-9240D,LIP-9030/9040(C), LIP-9071, 1020i, 1030i, 1040i, 1050i,1080i has flexible button page in LCD. (Max: LIP-9071,1080i: 4, LIP-9030/9040(C)/1020i/1030i/1040i/1050i : 3, LDP-9240: 2) The Navigation Up/Down button is used to scroll through the Flex buttons pages assigned. Use 1 Page, Use 2 Page, Use 3 Page, Use 4 Page	Refer to description	Use 3 Page
Default flexible button page	The flexible button page automatically go to predefined page when phone go to idle. Use 1 Page, Use 2 Page, Use 3 Page, Use 4 Page	Refer to description	Use 1 Page
Align LCD	For the iPECS LIP-9010/20/30/40, character alignment for messages to the phone can be right or left aligned by the system, or alignment controlled by the phone ("Not Align"). For the other phone, please check if the feature is available before using this option.	Not Align Align Left Align Right	Not Align
Small Popup Use	If this option is set to ON, small popup is displayed on the LCD of LIP-9030/9040/1010i/1020i/1030i/1040i/1050i. If it is set to OFF, top bar is displayed instead of small popup.	OFF ON	OFF
Large Popup Timer	When Large popup timer is set to any value from 1 to 5 except 0, the display of large popup is disappeared after the timer expired and then the large popup information is displayed at top bar.	0~5 (Sec.)	0

Table 4.4.2.3-1Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
NFC Authorization code Use	Ifthis option is ON, User enters Authorization code to use NFC function for LIP-9071.	OFF ON	ON
LCD Dimming Apply	If this option is ON, LCD dimming is available only for LIP-9000 Series and LDP-9240D. LCD is dark when the phone is paused so some light is needed. So we provide the dimmable lights.	OFF ON	OFF
UCS ACD Use	If the ACD (Automatic Call Distribution) option is set to ON, the ACD menu is displayed on Tools of UCS. UCS can use ACD login/logout and ACD On/Off Duty.	OFF ON	OFF
UCS CRM Use	If the CRM (Customer Relationship Management) option is set to ON, the CRM menu is displayed and CRM installation tray icon is displayed on Tools of UCS. UCS can use CRM function after installation CRM integration.	OFF ON	OFF
UCS DIALING RULE USE	UCS client user can use 'Dialing Rule' of UCS client such as CO Access, PBX code, Country Code, Area code, International Call, Long distance call, Add zero setting, etc. by setting ON. But, if this option is OFF, UCS Client user follows 'System Dialing Rule' such as Digit Conversion and LCR.	OFF ON	OFF
UCS MOBILE DIAL USE (ANDROID'S)	This option is only for Android UCS Client. If this option is ON, UCS client user can place a call by using UCS client application. But, if this option is OFF, UCS client user places a call by Mobile Network (Communication networkwhere the last link is wireless).	OFF ON	OFF
UCS PUSH POLLING Use	It is only used for iOS client that is not ringing or long delay to ring when receive PUSH message. If it is ON then system send PUSH polling message, so UCS application will wakeup periodically. so it could consume more batter ON: System send PUSH polling message OFF: System does not send PUSH polling message	OFF ON	OFF
Message Wait Button	User can program MWI (Message Wait Indication) LED according to the following type: • AllMessages: LED is blinking about all calls and Message. • Voice Mail: blinking in case of getting Voice mail. • Missed Call: blinking in case of being Missed call. • SMS: blinking in case of getting Short message • ICM Call Back: blinking in case of Incoming call	Refer to description	All Message
PGM button	If this option is set to Enable, you can access Programming by pressing PGM button.	Disable Enable	Enable
MENU button	If this option is set to Enable, you can access MENU by pressing Menu button. Some phones have no MENU button so that you check if the phone has Menu button or not in advance.	Disable Enable	Enable
Headset button	If this option is set to Enable, you can change Headset mode by pressing Headset button.	Disable Enable	Enable
Key Pad Tone	It is only work with LIP90xx 2.0Aa or later version. Tone off, Dual tone, Single tone	Refer to description	Dual tone

Table 4.4.2.3-1Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
***PHONE Lock Status(Force to Set)	Force to lock or unlock by admin	Unlock / Lock	Unlock
PHONE Auto Lock Usage PHONE Auto	To lock a phone automatically after some minutes of idle state or after some minutes since unlocked Do Not Apply, After Duration of Idle, After Duration fromUnlock	Refer to description 0 - 1430	Do Not Apply
PHONE Lock Action for Hot- Desk	After this duration a Phone goes to locked state Phone Lock/Unlock for Hot-Desk <hr/> <h< td=""><td>Refer to description</td><td>Just Lock Phone</td></h<>	Refer to description	Just Lock Phone

Table 4.4.2.3-1Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Allow to Stop - Flexible Paging	 Permission to stop on-going announce or silent message paging To Stop/Cancel Page initiated by Me> In condition, Allow to Stop Flexible Paging = "Allow to Stop Initiated by Me Only" or "Allow to Stop Initiated by Any One" Dial the Stop/Cancel Code or press One-Touch flex button that has the code : Flexible Page Prefix Code + 00 (ex. *7400) To Stop/Cancel Page initiated by All (including Me)> In condition, Allow to Stop Flexible Paging = "Allow to Stop Initiated by Any One" Dial the Stop/Cancel Code or press One-Touch flex button that has the code : Flexible Page Prefix Code + ** (ex. *7***) Not Allow to Stop, Allow to Stop Initiated by Me Only, Allow to Stop Initiated by Any One 	Refer to description	Not Allow to Stop
Separated Flex Button in Call Control	It is used only IP Attendant No Voice mode log in. If this option is OFF, IP ATD flex button is synchronized with hard phone's flex button. If this option is ON, IP ATD flex button is worked individually.	OFF ON	OFF
	SLT Attributes		
Data Security	Disables override and camp-on tones to the station. This feature is commonly used for an analog modem or FAX to assure tones do not affect received information.	OFF ON	OFF
ECM Faxes in T.38	ECM stands for Error Correction Mode. If you failed to send something via Faxes, you can send it again until it is successful.	Allow, Prevent	Allow
MODEM Enable	When an SLT port is connected to a Modem, the port can be enabled for Modem operation. This will activate Echo Cancellation and disregard any Camp-on/Call Wait to improve modem performance.	OFF ON	OFF
SLT CID TYPE	Caller ID can be sent to an SLT as FSK or DTMF signals.	FSK DTMF	FSK
Send SLT CLI Info	When allowed, the system sends CLI (Calling Line Identification) information to SLT.	OFF ON	ON
SLT Flash Mode	 When an SLT activates a Hook-flash the system will perform one of the following operations: Flash Transfer: the active call placed on hold and the dialtone is returned. Flash-Drop: the active call is dropped. Flash-Ignore: the Hook-flash is ignored, no action is taken. Hold Release: the active call is placed on hold and if the SLT returns to idle the call is dropped. 	Refer to description	FlashTran sfer
SLT configuration	For the South African region, the SLT gain is adjusted based on	Refer to	Default
mode Block Back Call	the SLT Configuration Mode. Default, Short, Long, Far When an SLT attempts to transfer a CO/IP callto another CO/IP Line, the transfer can be blocked and the call released.	description OFF ON	OFF

Table 4.4.2.3-1Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SLT Open Loop	Send open loop signal to SLT port when counter party user	0~9	0
Time	hangs up SLT.	(100ms)	U
Short Modem	If this value of a SLT is ON, the SLT is the modem mode in seizing a CO line. When the CO line is CO board, the {short modem timer} is starting when the SLT seizes the co line. And if the {short modem timer} is expired, the SLT go to the original mode. When the CO line is ISDN, the {short modem timer} is	OFF ON	OFF
	starting after receiving the ISDN connect message. And if the {short modem timer} is expired, the SLT go to the original mode.		
Line Echo	When LKA-200 SLT is used, the echo may be hearing. If this option is set to ON, the echo won't be happen.	OFF ON	OFF

4.4.2.4 CLI Attributes - PGM 113

Selecting CLI Attributes will display the CLI Attributes data input page. Enter a valid station range and click **[Load]** to enter CLI Attributes data.

Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations by clicking **[Save]** Button after changing Value.

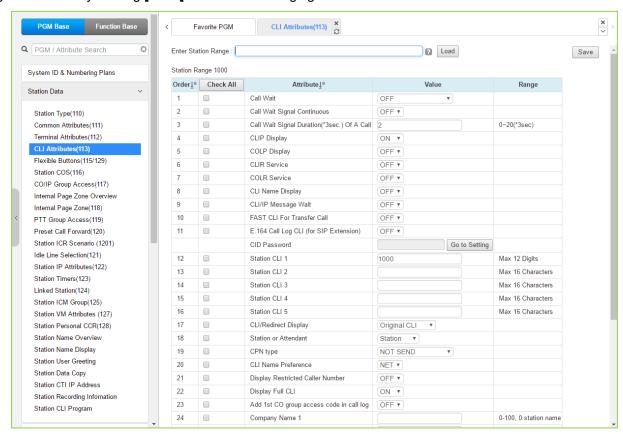


Figure 4.4.2.4-1 CLI Attributes (PGM 113)

CLI Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable) or enter is made in the text box. Refer to the following table for a description of the features and the input required.

Setting CID Password directly

You can set the CID password to click **[Go to Setting]** button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click**[Save]** button.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call Wait	When a busy station receives a call, the call may queue to the station instead of receiving busy treatment. With Call Wait, the caller will hear Ring-back tone and the CO/IP Line LED flashes. Also, the CLI for the new incoming call displays. OFF, For External/Internal, For External, For Internal	Refer to description	For External /Internal

Table 4.4.2.4-1 CLI Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call wait signal continuous	When this filed set On, you will get the indication of Call wait signal continuously without returning to the current conversation. In case of Off, you will return to the current conversation after 1 cycle of Call wait signal indication.	ON, OFF	OFF
Call wait signal duration (*3sec.) of a call	You can set the call wait signal duration of a waiting call: the default is 2 (2*3sec.) and the range is from 0 to 20.	0-20 (*3sec)	2
CLIP Display	CLIP (Calling Line Identification Presentation), a carrier service, sends the number of the calling party to the system in the call SETUP message. If enabled here, the number will be shown in the iPECS Phone LCD.	OFF ON	ON
COLP Display	COLP (Connected Line Id Presentation), a carrier service, sends the number of the answering party to the system in the call CONNECT message. If enabled here, the number will be shown in the iPECS Phone LCD.	OFF ON	ON
CLIR Service	CLIR (Calling Line Identification Restriction), a carrier service, removes calling party ID sent from the ISDN to the called party with a RESTRICT instruction in the SETUP message. If enabled here, the system will send the RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	OFF ON	OFF
COLR Service	COLR (Connected Line Id Restriction), a carrier service, removes connected party ID sent from the ISDN to the calling party with a RESTRICT instruction in the CONNECT message. If enabled here, the system will send the restrict instruction to the PSTN when the station answers an ISDN call.	OFF ON	OFF
CLI Name Display	When the Incoming CLI data from the carrier matches a number in Speed Dial, or Outgoing dial data from a user matches a number in Speed Dial, the system can display the name associated with the Speed Dial bin, if set to ON.	OFF ON	ON
CLI/IP Message Wait	A log of missed calls with caller identification can be maintained for the user, permitting the user to call back the identified party. Up to 1000 entries are maintained in the log, system-wide.	OFF ON	OFF
FASTCLI For Transfer Call	If this option is set to ON, when a transferred call is routed to an SLT or DECT phone, the CLI for the CO/IP call is sent to the SLT or DECT phone instead of transferring station number.	OFF ON	OFF
_	When enabled, the E.164 format CLI is sent to SIP Extensions for an incoming CO/IP call.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station CLI 1	To use this option, 'CLIR Service' or 'COLR Service' is set to OFF. The CLI number is entered up to 12 digits. The entered CLI number as suffix is added to the number set in CLIP/COLP Table (201). Also check 'COLP Table Index', 'CLIP Table Index', and 'Station CLI Type' in CID/CPN Attributes (151). The entered CLI number sends the called party via ISDN call setup or connected message. Default: eMG80/100:100, eMG800:1000, UCP:1000	Max. 12 digits	Refer to description
Station CLI 2	To use this option, 'CLIR Service' or 'COLR Service' is set to		
Station CLI 3	OFF. The CLI number is entered up to 16 digits. The entered		Related
Station CLI 4	CLI number as suffix is added to the number set in CLIP/COLP	Max. 16	with PGM
Station CLI 5	Table (201). Also check 'COLP Table Index', 'CLIP Table Index', and 'Station CLI Type(2~5)' in CID/CPN Attributes (151). The entered CLI number sends the called party via ISDN call setup or connected message.	characters	143 – Station CLI Type
CLI / Redirect Display	When an incoming call is Redirected in the carrier's network, the call SETUP message will contain an original and redirected CLI. This selection determines if the iPECS IP and LDP Phone will display the original or redirected number.	OriginalCLI / RedirectCL I	Original CLI
Station or Attendant	When the system sends a station number with CLIP or COLP, the number can be either the Attendant number or the number of the station.	Station Attendant	Station
CPN Type	NOT SEND: CPN is not sent to S0 interface. STATION NUMBER: Station number is sent as CPN to S0 interface. BYPASS FROM NET: Incoming CPN is sent as CPN to S0 interface.	Refer to description	Not send
CLI Name Preference	NET: If CLI name is provided from network, then it is displayed. If CLI name is not provided from network, the matched Speed name is displayed. SPD: If CLI is matched with Speed bin and it has name, then the matched Speed name is displayed. If CLI is not matched or matched Speed name is not configured, CLI name from network is displayed.	NET, SPD	NET
Display Restricted Caller Number	When {Display Restricted Caller Number} in CLI Attributes(113) of a station is ON, although the caller number is restricted in ISDN message, the ringing station displays the caller number.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Display Full CLI	The system provides CLI information by displaying on LCD. If this option is ON, the full CLI information is displayed on the second line of LCD. If this option is OFF, the CLI information is displayed from the left to the center on the second line partially. It means the CLI information is limited so that the full CLI can't be displayed.	OFF ON	ON
Add 1st CO group access code in call log	To use this option, 'Digit Conv. Table (PGM 111)' must be checked in advance and then set whether to add 1st CO Group access code in call log for Call back by setting ON or OFF.	OFF ON	OFF
Emergency CLI 1 Emergency CLI 2 Emergency CLI 3 Emergency CLI 4 Emergency CLI 5	If Dialed number is matched with Emergency Code Table(PGM226), Emergency CLI is used for CLI.	Max 16 Characters	
Company Name 1 Company Name 2 Company Name 3 Company Name 4 Company Name 5	It is used to send name to ISDN(PRI/BRI) eMG80/100: 1~16, eMG800: 1~100,UCP: 1~1000, (0: Station name)	Refer to description	0 0 0 0
Company Name o	Call Log Attributes		
Call Log usage	Most Phones show the call log. But the way to display the call log is different between System Serve and Phone self. This option is to select which way to display the call log. The available phone type is LIP-8012D/8024D/8040L and LIP-9008/9010/9020/9030/9040/1010i/1020i/1030i/1040i/1050i. Condition For color graphic phones (8050V/9070/9071,1080i), UCS client, and DECT phone: only 'Phone self' automatically regardless of this option. For other phone type except the above LIP and LDP phones: only 'System serve' automatically regardless of this option. System serve, Phone self	Refer to description	System serve
Call Log menu	This option selects the call log menu for a call log type. The call log types have 4: Lost call, All call, Received call, and Dialed call. • ALL: display all calls. • Type:display the call log 4 types and then select the desired type.	All, Type	All

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Answered By Group Member	One of the members can answer the call to the same ring group such as call coverage, linked pair, etc. At that time, the call log can set whether to leave the received call list or not by selecting Answered or Do-Not-Log. But the call log is left in the received call list on the phone even though setting Do-Not-Log. • Answered: the call log is left in the received call list on the same ring group phone. • Do-Not-Log: the call log is left in the received call list only on the phone except other member phones.	Refer to description	Answered
Coverage Call Log	This is option about log of coverage call of a slave station. When gets a coverage ring for a master station, slave station leaves or do not leave log according to conditions in option. All, Except Answered By Other, Only Answered By Me, None	Refer to description	All
Internal Call Log	This option enables the call log to display 'Both (Incoming and Outgoing)' or 'Incoming only' or 'None'. • Both: Incoming and outgoing call. • Incoming only: Show Incoming call only. • None: Don't leave the internal call as call log.	Refer to description	Both
Clear Missed Call Log	When missed call is left in a station, the LOG soft button is indicated as LOG(M), and missed call icon is displayed. When this option is ON and missed call is left, if a user enter call log list by pressing LOG button and go out from call log list, then missed call indication(LOG(M) & missed call icon) is deleted. When this option is OFF and missed call is left, if a user enter call log list by pressing LOG button and go out from call log list, then missed call indication(LOG(M) & missed call icon) is not deleted. In this case, missed call log indication is deleted after checking all missed call.	OFF ON	OFF
Page Call Log	 This is option about log for a receiving page call. None:do not leave log for receiving page All:leave log for all kinds of receiving page Emergency(Including Urgency Level 0) Only: leave log only for receiving an emergency page 	Refer to description	None
Busy/DND/VM Log	If it is On then system call log is left when call is delivered to busy/DND/unconditional forward to VM destination.	OFF ON	OFF

4.4.2.5 Flexible Buttons - PGM 115/129

Selecting Flex Buttons will display the Flex buttons data input page. Enter a valid Station range and click**[Load]** to enter Flex button data. For convenience, the copy, paste, and drag is available to enter or modify data. Please click **[Save]** button after entering or modifying data to apply.

You can set the initial system default value if there is no assignment in Flexible Button Default Table (239) and Preset Flexible Button Default (240) by clicking **[Default Value]**. Otherwise, you can set the flexible button value according to Flexible Button Default Table (239) and Preset Flexible Button Default (240) by clicking **[Default Value]**.

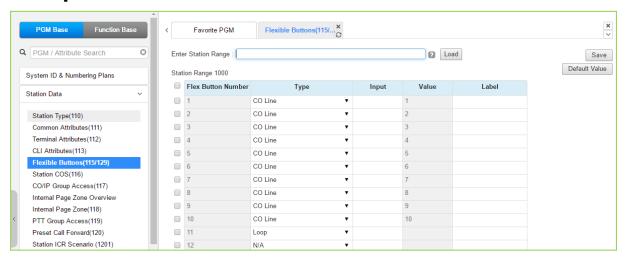


Figure 4.4.2.5-1 Flex Buttons Assignment

Each Flex button for each iPECS IP and LDP Phone and DSS Console can be assigned a function (TYPE) as below. After selecting the Type for a button, enter the value, if required. The types available from the dropdown menu are shown are shown in Table below. In addition, for the LIP Phone models 8040, 8050, 9070, 9071 and the LSS Console models, a label can be assigned that is used as the designation for the button in the LCD of the phone.

Table 4.4.2.3-1 FLEX BUTTON TIPE & VALUE		
TYPE	REMARK	
N/A	Empty (unassigned), may be defined by the user.	
CO Line	Assigns button to access a defined CO/IP line.	
CO Group	Assigns button to access a free line in the CO/IP Group.	
Loop	Assigns button to access a loop line.	
Station Number	Assigns button as DSS/BLF for the assigned station number.	
Programming	Assigned by them to diel a code from the Elevible Numbering Dies, and Assembly continu	
(Numbering Plan)	Assigns button to dial a code from the Flexible Numbering Plan, see Appendix section.	
Programming	Assigns button to perform a User Program function from the Fixed Numbering Plan,	
(PGM)	Appendix section.	
Station Speed	Station Speed Dial bin.	
System Speed	System Speed Dial bin.	
Net Station	Refer to Network Numbering Plan Table - PGM 324.	
U-Loop	U-Loop button for call wait of internal & external call	
Dial Diait	The user can assign the desired number on Flexible button by selecting 'Dial Digit' in the	
Dial Digit	field of Type. The user can make a call by pressing the assigned flexible button.	

Table 4.4.2.5-1 FLEX BUTTON TYPE & VALUE

4.4.2.6 Station COS - PGM 116

Selecting Station COS will display the Station COS data input page. Enter a valid station range and click **[Load]** to enter the Station COS data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.



Figure 4.4.2.6-1 Station COS

In case of PGM 116 is in condition of limited service mode due to License issue, the default value is 7 for all COS type.All stations are assigned a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls, refer to Table 4.4.2.6-1. Separate COS assignments are made for Day, Timed and Night Mode operation. As a default all stations are assigned with a Station COS of 1 for all modes, no restrictions.

The station COS interacts with the CO Line COS to establish overall dialing or Toll restrictions. This interaction and the resulting restrictions are given in Table 'Station/CO COS'.Long distance calls are determined by the first dialed digit ("0" or "1") and the number of digits dialed. If the first digit dialed is a LD code, default "0" or "1", or, if the number of digits dialed exceeds the assigned LD digit counter in 'System Data SMDR Attributes section', the call is considered a Long Distance call and appropriate restrictions applied.

Table 4.4.2.0-1 GTATION GGG			
STATION	RESTRICTIONS		
1	No restrictions are placed on dialing from the station.		
2	The assignments in Exception Table A are monitored for allow and deny numbers.		
3	The assignments in Exception Table B are monitored for allow and deny numbers.		
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.		
E	The leading digit dialed cannot be a Long Distance code, default "0" or "1", and further		
5	denied/allowed based on Exception Table C.		
	The leading digits dialed cannot be a Long Distance code & digit count cannotexceed the LD digit		
6	counter, default 7 digits, and further denied/allowed based on Exception Table C.		
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed		
,	on CO Lines.		
8	The assignments in the Exception Table D are monitored for allow and deny numbers.		
0	The assignments in the Exception Table E are monitored for allow and deny		
9	Numbers		
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.		
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny		
11	numbers.		

Table 4.4.2.6-1 STATION COS

Table 4.4.2.6-1 STATION COS

STATION RESTRICTIONS

Table 4.4.2.6-2 STATION/CO COS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STACOS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 5	Local Call only (LD Code, "1"or"0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1"or"0") and Table C	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STACOS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 9	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STACOS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction

4.4.2.7 CO/IP Group Access - PGM 117

Selecting CO/IP Group Access will display the CO/IP Group Access data input page. Enter a valid station range and click **[Load]** to enter CO/IP Group Access data. Check the appropriate boxes to allow or delete access to each CO/IP Group.Click **[Save]** button after changing Value to apply.

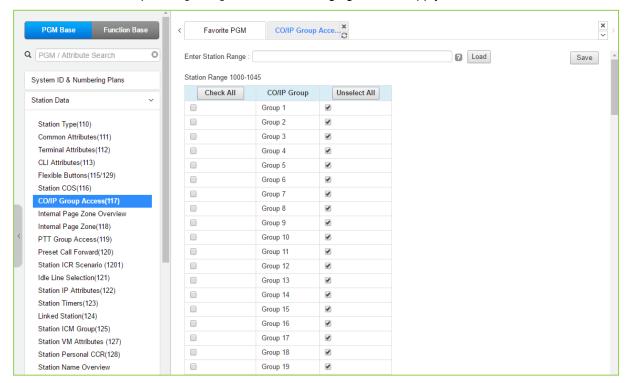


Figure 4.4.2.7-1 CO/IP Group Access

Stations can be allowed or denied access to CO Lines and IP Channels by group (eMG80/100: 20 & eMG800/UCP: 200). As a default, all stations are allowed access to all groups except Private Lines (group 00) and unused CO Lines. The CO Line is assigned as a Private Line by default.

4.4.2.8 Internal Page Zone Access - PGM 118

Selecting Internal Page Zone will display the Internal Page Zone data input page. Enter a valid station range and click **[Load]** to enter the Internal Page Zone Access data. Check the appropriate boxes to allow or delete access to each Internal Page Zone.Click **[Save]** button after changing Value to apply.

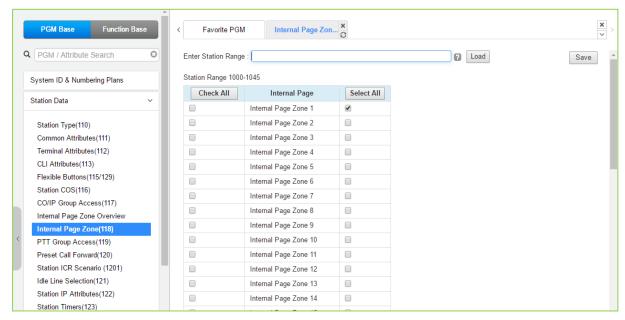


Figure 4.4.2.8-1 Internal Page Zone

Each iPECS IP and LDP Phone is assigned to receive announcements from each Internal Page Zone. A station can be assigned to any, all or no zones. Note a remote station or a station not assigned to any Internal Zone will not receive any page announcements including Internal All Call. As a default, all stations except remote stations are assigned to zone 1.

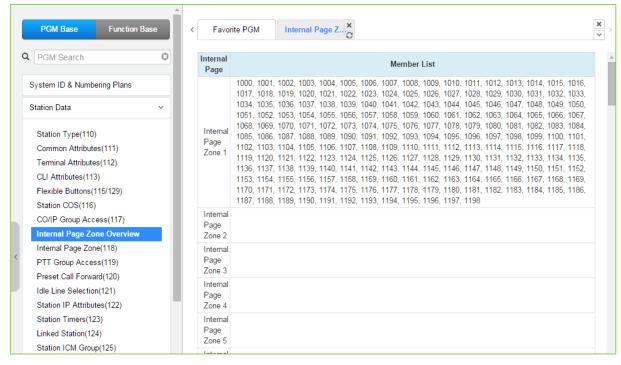


Figure 4.4.2.8-2 Internal Page Zone overview

4.4.2.9 PTT Group Access - PGM 119

Selecting PTT Group Access will display the PTT Group Access data input page. Enter a valid Station range and click **[Load]** to enter the PTT Group Access data. Check the appropriate boxes to allow or delete access to each PTT Group.Click **[Save]** button after changing Value to apply.

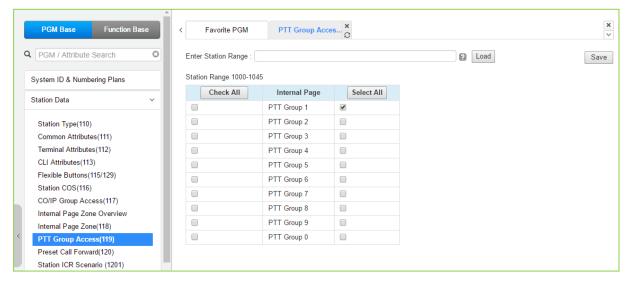


Figure 4.4.2.9-1 PTT Group Access

Each iPECS IP or LDP Phone is assigned to receive PTT announcements from any combination of the ten (10) PTT groups. Note a station not assigned to any group will not receive PTT page announcements including Internal All PTT group page. As a default, all stations except remote stations are assigned to group 1.

4.4.2.10 Preset Call Forward - PGM 120

Selecting Preset Call Forward will display the Preset Call Forward data input page. Enter a valid station range and click **[Load]** to enter the Station Preset Call Forward data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

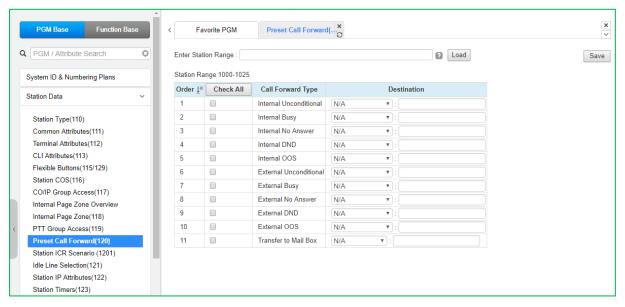


Figure 4.4.2.10-1 Preset Call Forward

Stations can be programmed so that incoming CO/IP and Intercom calls forward to a preset station or station group. This allows an external or internal call to initially ring at a station and forward to a pre-determined destination.

Preset Forward can be separately assigned Internal Unconditional, Internal Busy, Internal No Answer, Internal DND, Internal OOS, External Unconditional, External Busy, External No Answer, External DND, External OOS preset forwarding to any station, Station group, system speed dial bin (off-net) or Station ICR.

As a default, no Preset Call Forward is assigned.For "Transfer Mail-Box" enter the Station Group number of the Voice Mail group (external VM, VSF or Feature Server Voice Mail group). This will permit other users to transfer calls directly to the desired user's Voice Mailbox.

4.4.2.11 Station ICR Scenario - PGM 1201

Selecting Station ICR Scenario displays the input entry page.

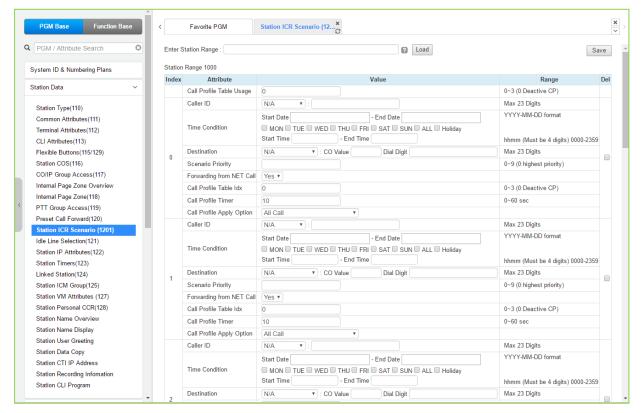


Figure 4.4.2.11-1 Station ICR Scenario

Station ICR is an extension of call forward where the user enters scenarios to define the call forward feature. Each station has ten (10) routing scenarios that define conditions for routing a user's incoming calls.

Each scenario may define time of day, day of week, date, caller ID and destination for incoming calls. In addition, the scenarios may be prioritized; calls are routed to the destination with the highest priority-matching scenario.

Call Profile Table Usage

This option selects Call profile table usage from 0 to 3. O means that Station User doesn't use Call profile usage. Station user can set the ICR Scenario up to 10 (0 to 9) according to the environment by setting many options including 'Call Profile Table Idx (0-3)', 'Call Profile Timer', and 'Call Profile Apply option'.

Anytime Station User can change the call profile table usage by changing the value so that Station user can apply the related station ICR scenario index.

Call Profile Timer

Station user can set the time for applying the call profile. If the station user can set 0 as timer, ICR operate immediately.

Call Profile Apply Option

This option selects the call type for applying ICR. If this option is All Call, ICR apply to all calls. If this option is Direct call (Except CCR, DISA), ICR apply only to DID call.

4.4.2.12 Idle Line Selection - PGM 121

Selecting Idle Line Selection will display the Idle Line Selection data input page. Enter a valid Station range and click **[Load]** to enter the Idle Line Selection data. Check the appropriate radial button and enter the value for the Idle Line Selection. Click **[Save]** button after changing Value to apply.

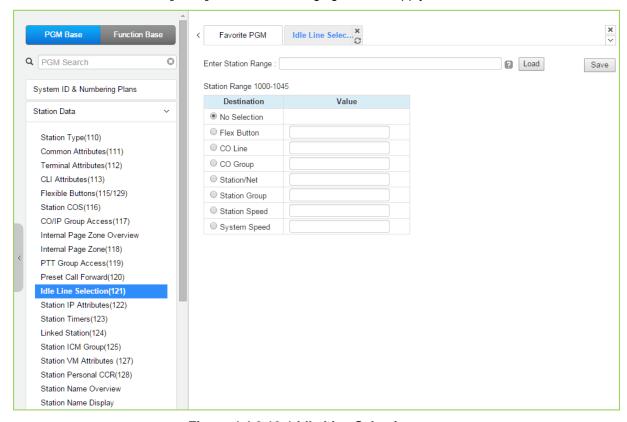


Figure 4.4.2.12-1 Idle Line Selection

When a station goes to an off-hook condition (lifts handset or presses **[SPEAKER]** button), the system normally provides intercom dial tone.

In place of dial tone, the station can be programmed to access a CO Line, CO/IP Group or call a Station or Station Group as described in Table 4.4.2.12-1 when the station goes off-hook.

The Idle Line Selection (Prime Line) can be either immediate or delayed after going off-hook. The immediate/delay selection is based on the Hot/Warm assignment in 'Common Attributes - Prime Line'.

TYPE	DESCRIPTION
No Selection	Returns Intercom dial tone.
Flex Button	Flex button, activates Flex button as if pressed.
CO Line	CO/IP path seizes CO line.
CO/IPGroup	CO/IP Group, seizes CO line from theCO/IP Group.
Station/Net	Station, calls the assigned station.
Station group	Station group, calls the assigned station group.
Station speed	Station speed, calls the assigned station speed.
System speed	System speed, calls the assigned system speed.

Table 4.4.2.12-1 IDLE LINE SELECTION TYPE & VALUE

4.4.2.13 Station IP Attributes - PGM 122

Selecting Station IP Attributes will display the Station IP Attributes data input page.

Enter a valid Station range and click **[Load]** to enter the Station IP Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

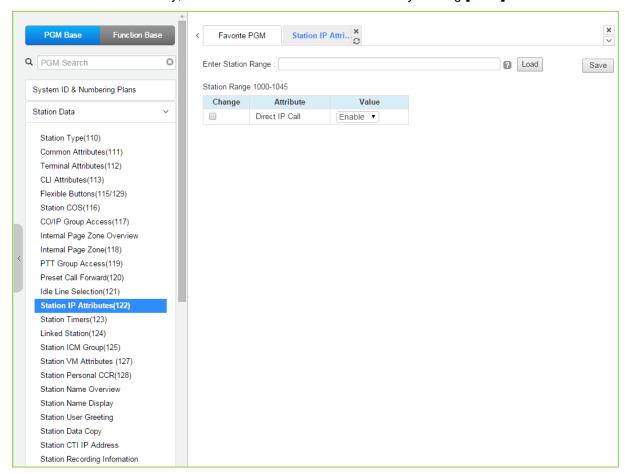


Figure 4.4.2.13-1 Station IP Attributes

Stations are allowed access to the systems VoIP resources based on the Station IP Attributes.

4.4.2.14 Station Timers - PGM 123

Selecting Station Timers will display the Station Timers input page.

Enter a valid Station range and click **[Load]** to enter the Station Timers data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

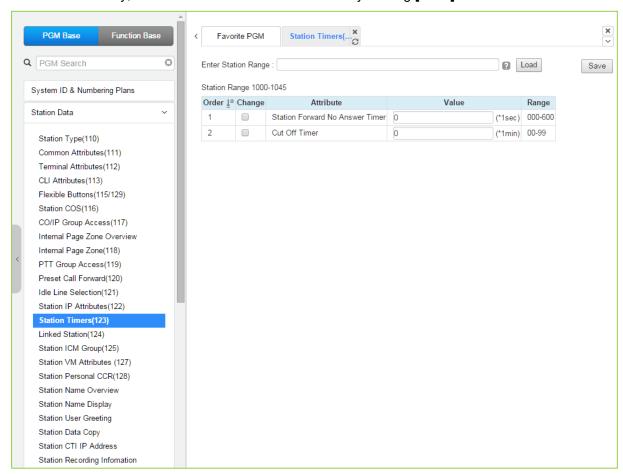


Figure 4.4.2.14-1 Station Timers

Certain timers can be assigned on a station basis. Available timers, description and valid inputs are given in the below table.

	-		
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Forward No	This timer set the duration that the station will ring prior to Ring-No-Answer Forward. This setting affects both manual and 'Preset Call Forward' and overrides 'Call forward No Answer timer in System timer of System data'.	000-600 (seconds)	000
Cut Off Timer	Allowed length of CO/IP calls when station is assigned 'Call Time restriction in Common Attributes of Station data'.	00-99 (minutes)	00

Table 4.4.2.14-1 STATION TIMERS (PGM 123)

4.4.2.15 Linked Station - PGM 124

Selecting Linked Station will display the Linked Station input page. Enter a valid Station range and click **[Load]** to enter the Linked Station data.Click **[Save]** button after changing Value to apply.

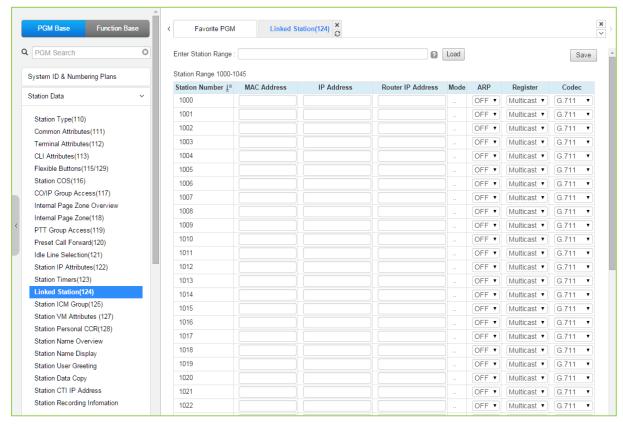


Figure 4.4.2.15-1 Linked Station Pair

For UCS Client, it is recommended that PGM 443 be employed for an unregistered (MAC Linked pair) station. When unregistered station linking is used, the linked station does not reduce the system's capacity.

However, in this case, the linked station must be an iPECS IP Phone. Unregistered linking is allowed only to an iPECS IP Phone. Once UCS Client is linked, it will display in this Web page as well as in PGM 103 and 443.

If the station is assigned to Master or Slave by linked station, the bracket '[M] or [S]' will be displayed by the station number in PGM 101, 103, 105, 124 of Web page.

To link registered stations, the Personal Group feature is used and configured in PGM 260 and 261.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MAC Address	Set MAC address of linked un-registered station, required data. Note the secondary station must not be registered in the system prior to linking. If needed, delete the device from the system prior to linking.		
IP Address	The IP Address of the linked station.	IPv4 address	
Router IP Address	Set the Router IP address for a linked station.	IPv4 address	

Table 4.4.2.15-1 LINKED STATION TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Mode	Display operating mode of the station, remote or local and NAT or NAPT. • Remote:R/NAPT, R/NAT, R/NAP, R • Local remote:LO/NAPT, LO/NAT, LO/NAP, LOLocal, L/NAPT, L/NAT, L/NAP, L	Refer to description	L (Local)
ARP	If set OFF, the system will employ layer 2 switching over the LAN to communicate with the linked station. If set ON, the system will employ ARP (Address Resolution Protocol) to determine the IP address of the device, if required, and communicate using IP.	OFF ON	OFF
Register	Normally, iPECS IP devices register using multi-cast packets. When separated from the system, that is when the device is remote, unicast is used.	Multicast Unicast	Multicast
Codec Type	A specific Codec type can be configured for the station. System, use the codec defined for the system	G.711 G.723.1 G.729	G.711

4.4.2.16 Station ICM Group - PGM 125

Selecting Station ICM Tenancy Group displays the Station ICM Tenancy Group input page. Select ICM Tenancy Group and click **[Load]**, the system will display the ICM Tenancy Group Characteristics. Enter the Station number of the group Attendant and check the appropriate box to allow calling to the group. Click **[Save]** button after changing Value to apply.

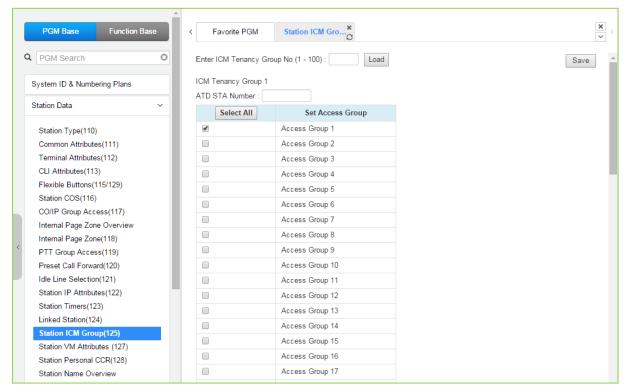


Figure 4.4.2.16-1 Station ICM Group

Stations can be assigned to an ICM group under 'Common Attributes section'. Up to 15 Tenant groups for eMG80/100(up to 32 for eMG800 and up to 100 for UCP)can be defined. Each group is configured to allow or deny placing intercom calls, including transfers, to stations in other groups and an Attendant station can be defined for each group. The Attendant will receive "dial 0" calls and controls Day/Night mode for the group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Tenancy ATD	Attendant station for the ICM Tenant group. ATD receives dial '0' calls and controls Day/Night Service.	Station No.	
Group Access	ICM tenancy groups allowed access by stations of the selected group.	eMG80/100:1~15 eMG800:1~32 UCP:1~100	1

Table 4.4.2.16-1 STATION ICM GROUP ATTRIBUTES

4.4.2.17 Station Voice Mail Attributes - PGM 127

Selecting VM Attributes displays the Station Voice Mail Attributes input page. Enter a valid Station range and click **[Load]** to enter the Station Voice Mail Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

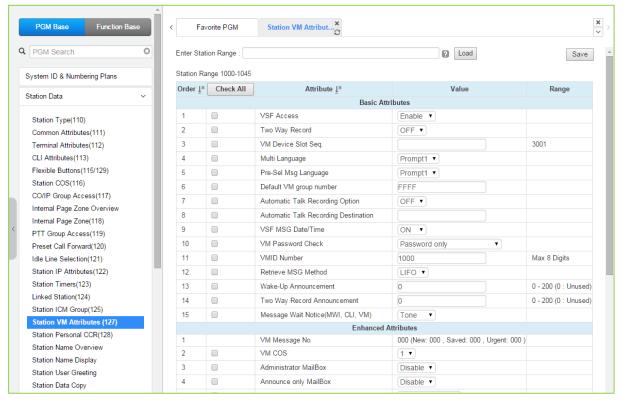


Figure 4.4.2.17-1 Station VM Attributes

The Station VM Attributes are divided into three sub-sections. The Basic Attributes assign general characteristics of the Station's Voice Mail and announcements. Enhanced Attributes assign characteristics including VM COS, notification, cascading and Company Directory Names. The E-Mail Notification section defines various SMTP server data such as the Station and System E-mail account data.

Table 4.4.2.17-1 STATION VIII AT INIDOTES			
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Basic Attributes	<u>-</u>	<u>-</u>
VSF Access	The station must be permitted VSF access to access the built-in Voice Mailbox.	Disable Enable	Enable
Two way Record	When allowed, the station can activate the Two-way record feature to record a conversation.	OFF ON	OFF
VM Device Slot Seq.	The sequence number defines the VMIU or VMIBwhere messages for the station are stored	Seq. No.	
Multi Language	The selected language is employed for prompts played to the user whenaccessing the VSF.	Prompt1~6	Prompt 2
Pre-selected Message Language	The selected language is employed for prompts played to an external CO caller if the called station has activated Pre- selected Message.	Prompt1~6	Prompt 2

Table 4.4.2.17-1 STATION VM ATTRIBUTES

Table 4.4.2.17-1 STATION VM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Default VM group number	When the user has no Voice messages and selects the [Call Back/Msg] button, the "Default VM group number" is called.		
Auto Talk Recording Option	This field enables unconditional recording of all calls placed/received by the station. Recordings, in .wav format, are stored at the UCS Client defined as the Call Recording Station below.	OFF, ALL, CO	OFF
Auto Talk Recording Destination	When Auto Call Recording is defined for a station, the destination for the recording is defined here. The UCS Client Station number, or an IPCR or 3rd party SIP recording server.	Station or Group	
VSF MSG Date/Time	When ON, the data/time the message was received is played to the user prior to the message.	OFF ON	ON
VM Password check	When ON, the user must enter their valid Authorization code to access their VSF Voice Mailbox. The password can be defined as none, the Authorization code only or the normal Station Number and Authorization code. No password, Password only, Station number and password	Refer to description	Password only
VMID Number	When using an adjunct VM, the system can translate the Mailbox number from the user's station number to the assigned VMID. The system sends the station number or VMID, if assigned, to the VM (in-band or SMDI) in order to identify the appropriate Voice Mailbox. Default: eMG80/100:100, eMG800:1000, UCP:1000	Max. 8 digit	Refer to description
Retrieve MSG Method	Messages stored in the VSF may be retrieved in eithera FIFO (first-in-first-out) or LIFO (last-in-first-out) orderbased on this entry.	FIFO/ LIFO	LIFO
Wake-Up Announcement	A VSF system announcement can be recorded to play to the station as a Wakeup Announcement.	0-200	0
Two way record announcement	The two way record announcement can be recorded to play to the station as Announcement.	0-200	0
Message Wait Notice(MWI, CLI, VM)	 When a user has voice mail, system can provides this as voice prompt instead of dial tone according to option based on station. Disable: System provides normal dial tone when a user goes to off hook status. Tone: System provides warning tone instead of dial tone to give indication when a user goes to off hook status. Prompt: System provides message indication as voice prompt when a user goes to off hook status. DECT phone do not support this feature. 	Disable, Tone, Prompt	Tone

Table 4.4.2.17-1 STATION VM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Password Retry Attempts	Password retry count for voice mail box access	Disable 1~5	Disable
	Enhanced Attributes		
VM Message No	Number of Voice Messages in the user's Mailbox.		000
VM COS	Each Voice Mailbox is assigned one of five VM Classes of Service (COS) that determines basic characteristics of the Mailbox such as message retention. The Voice Mail COS attributes are set in PGM 253.	1-5	1
Administrator Mailbox	A Mailbox can be assigned as an Administrator Mailbox permitting broadcast messaging and control of other user mailboxes.	Disable Enable	Disable
Announce Only Mailbox	A mailbox can be configured so that the connected party will hear the greeting but cannot leave a message, Announce Only. After the greeting, the call is routed based on the Announce Only Option.	Disable Enable	Disable
Announce Only Option	This option determines if the caller will be disconnected or returned to the previous menu after hearing the Announce Only Mailbox greeting.	Previous Menu/ Hang Up	Previous menu
Company Directory – First Name	This field is first name of a station for Company Directory feature.	Max. 12 characters	N/A
Company Directory – Last Name	This field is last name of a station for Company Directory feature.	Max. 12 characters	N/A
Message Rewind/Fast-Forward Time	While listening to a message the user may rewind or Fast forward. The Rewind and Fast Forward time are determined by this field.	03 - 99	04
VM Notify retry count	If the notification to the user's mobile repeatedly fails, after the retry count, the system will send the call to the Attendant to complete the notification.	00 - 99	03
VM Notify dial time	When the mobile notification call is placed, the system will terminate the call, considering the call a failed attempt, if no digits are received from the mobile phone user before the timer expires.	00 - 99	15 sec
VM Forward Option	When a left message is forwarded, this option is applied.	Move / Copy	Move
Cascade Mailbox 1	A left message is copied or moved to 1'st mailbox destination station.	Station No	N/A
Cascade Mailbox 2	A left message is copied or moved to 2'nd mailbox destination station.	Station No	N/A
Cascade Mailbox 3	A left message is copied or moved to 3'rd mailbox destination station.	Station No	N/A
Cascade Mailbox 4	A left message is copied or moved to 4'th mailbox destination station.	Station No	N/A

Table 4.4.2.17-1 STATION VM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Cascade Mailbox 5	A left message is copied or moved to 5'th mailbox destination station.	Station No	N/A
Cascade Method	Cascade method is determined. Disable, Copy, Move	Refer to description	Disable
Cascade Message Type	Cascade Message Type is determined. Normal Only, Urgent Only, All	Refer to description	Normal only
Cascade Apply Timer	Cascade Apply Timer is set.	001 ~250 (min)	0
Cascade For Read Message	If this value is set to Enable, the left message can be cascaded to next destination regardless the message is read or not. If this value is set to Disable, cascading action is stopped when the left message is read.	0 : Disable 1 : Enable	Enable
	E-Mail notification		
[Send	Mail] button : click [Send mail] button to send mail for no	otification	
E-Mail Notification Enable	If this option is set ON, the system sends Email as soon as getting Voice mail.	OFF ON	OFF
SMTP Server Address (IP or Domain Name)	This field defines the address or URL of the SMTP mail server for the notification. IP v4 addressor Mail server name	Refer to description	Max. 64 characters
SMTP Port	This field defines the TCP/IP port the system will employ when communicating with the SMTP E-mail server.	1 - 65535	25
SMTP Security Connection	The system can support basic security policies when communicating with the SMTP E-mail server. Note the server must also be configured for the selected security protocol. No Security, SSL, TLS	Refer to description	No Security
E-Mail Account ID	This field defines the account Identification for the system configured in the SMTP server.		
E-Mail Account Password	This field defines the password for the system's E-mail account in the SMTP server.	Max. 64 characters	
Sender E-Mail Address (From)	This field defines the E-mail address used to send the new Voice Message notification via E-mail.	E-mail address	
Receiver E-Mail Address (To)	This field defines the E-mail address to notify when a new VSF message is received for the station.	E-mail address	
Attach Message Option	When E-mail notification is enabled in the VM COS (PGM 253), the E-mail may include the voice mail as a wav file attachment. The proper information must be assigned for the receiver mail and system mail account information.	OFF ON	ON
Delete Message Option	After sending an E-mail notification the system will automatically delete the Voice message from the user's Voice Mailbox if this parameter is ON.	OFF ON	OFF

4.4.2.18 Station Personal CCR Table - PGM 128

Selecting Station Personal CCR displays the Station Personal CCR Table input page. Enter a valid Station range and click **[Load]** to enter the Station Personal CCR Table data. Click**[Save]** button after changing the type or value.

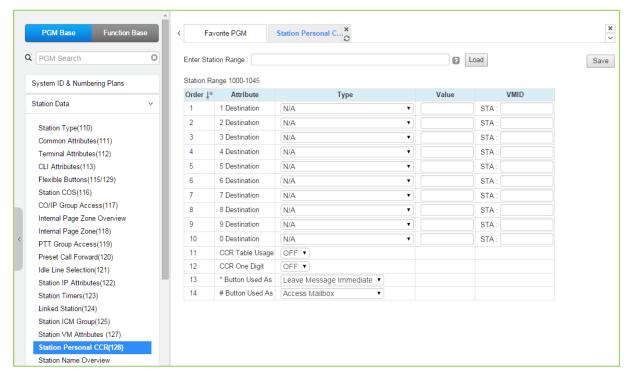


Figure 4.4.2.18-1Station Personal CCR Table

Table 4.4.2.18-1 STATION CCR Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
1-9, 0 Destination	Digit dialed by outside caller. A destination type and value can be programmed by dialed digit.15 kinds destination is available.		NA
CCR One Digit	When ON, the system will analyze the first digit received only, additional digits dialed by the caller are ignored.	OFF ON	OFF
CCR Table Usage	If this option is ON, CCR table can be activated. If this option is OFF, CCR table is not available, instead of that, dialing digits by outside caller can be recognized as DISA dialing.	ON OFF	OFF
*Button Used As	It can be used as the following:	Refer to Description	System Numbering Plan
# Button Used As	It can be used as the following:	Refer to Description	Access Mailbox

Table 4.4.2.18-2STATION CCR DESTINATIONS

DESTINATION TYPES

Route to a Station

Route to a Station Group

Route with System Speed Dial

Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)

Route to VSF Announcement

Route to VSF Announcement and disconnect

Route to Networked Station.

Conference Room

Internal Page

External page

All Call Page

Route to voice mail(station group/station number)

Company Directory

Record VM Greeting

Room Type Conf Group Join

(Value: system conference group number)

(Value Range: eMG80/100(0 or 100~139), eMG800/UCP(0 or 100~259)

4.4.2.19 Station Name Overview & Display

Selecting Station Name Overviewshows the current station name.

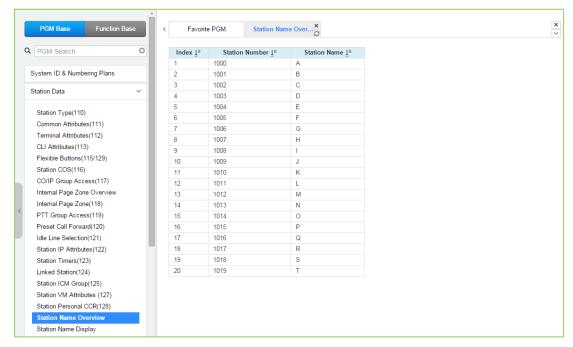


Figure 4.4.2.19-1 Station Name Overview

Each station name will be displayed if the each station has the name. Selecting Station Name Display will display the Station Name input page. Enter a valid Station range and click **[Load]** to enter the Station Name data. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing the type or value.

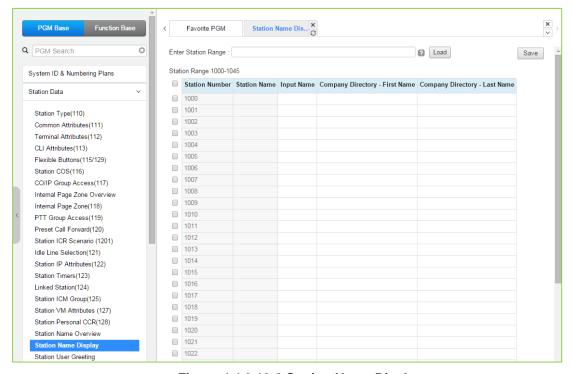


Figure 4.4.2.19-2 Station Name Display

You can fill out the Station name, Input name (up to 20 digits), company directory-First name & Last name for customer's convenience.

4.4.2.20 Station User Greeting

Selecting Station User Greeting will display the Station User Greeting data input page.

Enter a valid Station range and click [Load] to enter the Station Voice Mail Attributes data.

Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

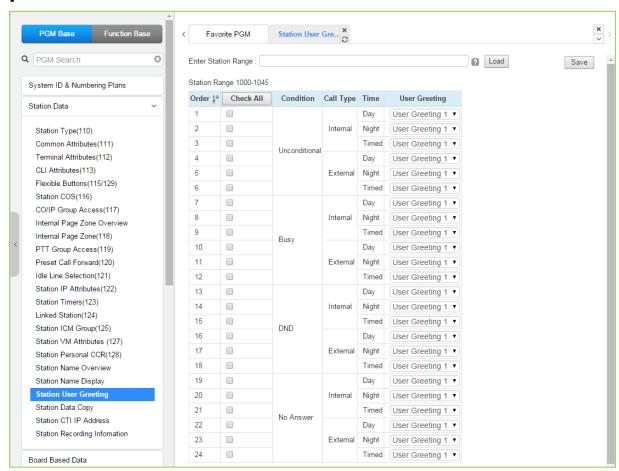


Figure 4.4.2.20-1 Station User Greeting

There are 4 User greeting for each station.

User can select multi user greeting depending on the condition, call type, and time.

Condition: unconditional, busy, DND, No answer

Call Type: Internal, External

Call Time: Day, Night, Timed

4.4.2.21 Station Data Copy

Selecting Station Data Copy will display the Station Data Copy data input page. Enter a valid Source Station, Destination Station Range and click **[Copy]** to copy the station data. Note that this function is not available for an Attendant station.

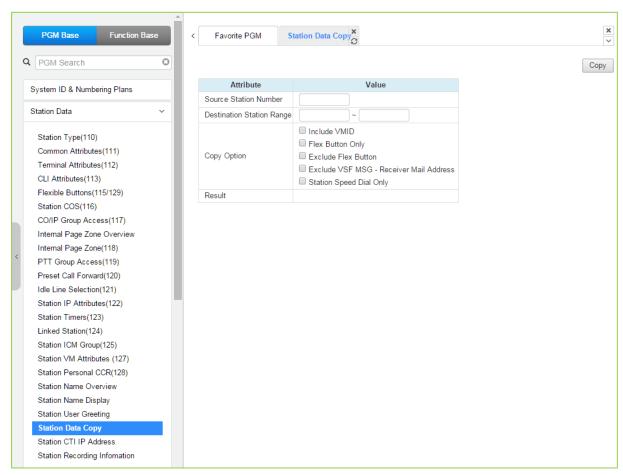


Figure 4.4.2.21-1 Station Data Copy

4.4.2.22 Station CTI IP Address (1st Party TAPI)

Selecting Station CTI IP Address displays the page shown in the following figure. Enter a Station Range and click **[Load]** to display and modify the CTI IP address. Click **[Save]** button after changing the type or value.

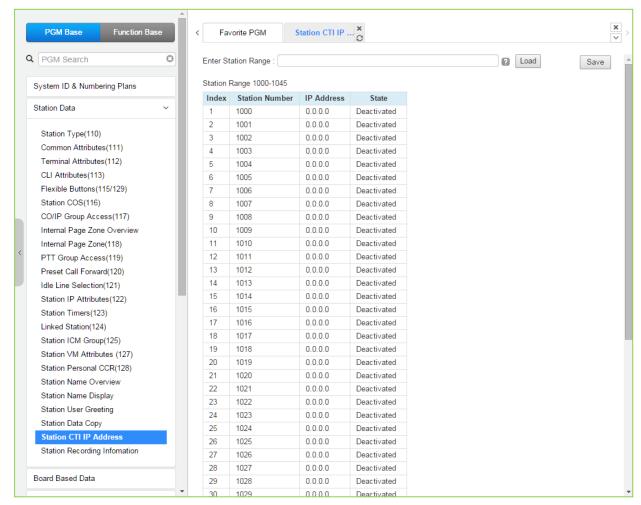


Figure 4.4.2.22-1 Station CTI IP Address

The system supports 1st party TAPI (Telephony Application Programming Interface) for CTI (Computer Telephony Integration). The system will send specific TAPI information to the IP address for activity by the associated Station.

4.4.2.23 Station Recording Information

Selecting Station recording information displays the page shown in the following figure.

Enter a Station Range and click [Load] to display and check the current recording information on each station.

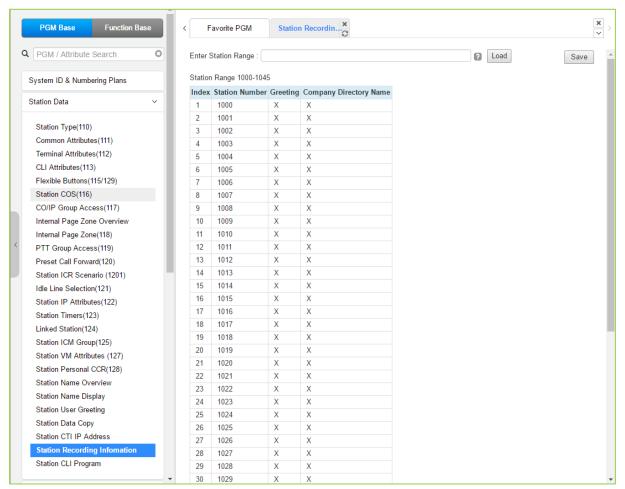


Figure 4.4.2.23-1 Station Recording Information

The {Station Recording information} displays the recording state of voice mail greeting and company directory name with O and X. (O: recorded, X: not recorded)

4.4.2.24 Station CLI Program

Selecting Station CLI Program displays the page shown in the following figure.

Enter a Station Range and click **[Load]** to display and enter the desired Station CLI from 1 to 5.Click **[Save]** button after finishing the value with checking the checkbox.

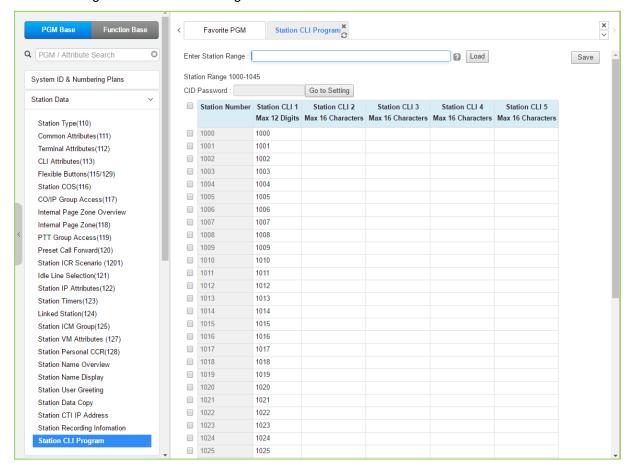


Figure 4.4.2.24-1 Station CLI Program

Station user can set the station CLI up to 5. Station user can send only the CLI number (1~5) or the desired CLI number by applying CLIP/COLP Table (291) to the called party.

Station CLI 1

To use this option, 'CLIR Service' or 'COLR Service' is set to OFF. The CLI number is entered up to 12 digits.

The entered CLI number as suffix is added to the number set in CLIP/COLP Table (201). Also check 'COLP Table Index', 'CLIP Table Index', and 'Station CLI Type' in CID/CPN Attributes (151).

The entered CLI number sends the called party via ISDN call setup or connected message.

Station CLI 2~5

To use this option, 'CLIR Service' or 'COLR Service' is set to OFF. The CLI number is entered up to 16 digits.

The entered CLI number as suffix is added to the number set in CLIP/COLP Table (201). Also check 'COLP Table Index', 'CLIP Table Index', and 'Station CLI Type(2~5)' in CID/CPN Attributes (151).

The entered CLI number sends the called party via ISDN call setup or connected message.

4.4.3 Board Based Data

Selecting the Board Based Data program group returns the sub-menu displayed in the left frameas shown inthe following figure.

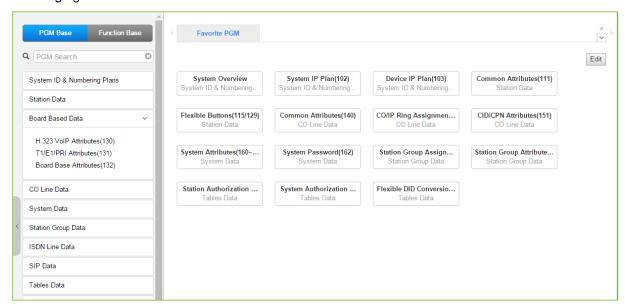


Figure 4.4.3-1 Board Based Data Main Page

4.4.3.1 H.323 VoIP Attributes - PGM 130

Selecting H.323 VoIP Attributes returns the H.323 VoIP Attributes data input page. Enter the VoIP gateway Sequence number (refer to 'Device IP Plan' if you want to find the sequence number) and click**[Load]** to enter VoIP data.Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number: eMG80/100: 1-300 / eMG800: 1-2890 / UCP:1-3688

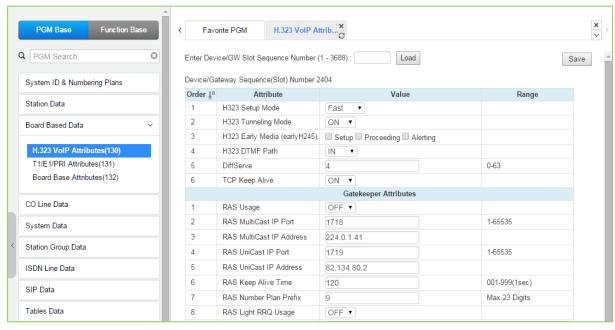


Figure 4.4.3.1-1 H.323 VoIP Attributes

The VOIP channels may be used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned. The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

Also for H.323 support, a RAS (Registration, Admissions and Status) channel can be defined. The RAS channel IP addresses (uni-cast and multi-cast) as well as the IP port Numbering Plan and other H.323 set-up characteristics are defined.

This page also allows setting the IP TOS bit for Diffserv, a commonly recognized packet prioritization protocol. Higher priority packets are given priority in the Default gateway or Layer 3 Switch queue. However, they are the first to be discarded in the event of long queue delays, which may cause excess packet loss and poor voice quality.

Refer to the following tablefor a description of the features and the input required.

Table 4.4.3.1-1 H.323 VOIP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
H323 Setup Mode	IP calls can be set-up using the H.323 normal or Fast Start Normal/ mode.		Fast
H323 Tunneling Mode	IP calls can be set-up using the H.245 encapsulation OFF (Tunneling). ON		ON
H323 Early Media (early H245)	 This feature is the ability of two user endpoints to communicate before call is actually established in normal call mode. This feature is not used when 'H323 Setup Mode' is 'Fast'. Setup: Caller party tries to open early media on receiving the Setup message. Proceeding: Calling party tries to open early media on receiving the Proceeding message. Alerting: Calling party tries to open early media on receiving the Alerting message. 	Refer to description	
H323 DTMF Path	During a call, DTMF can be sent in-band or out-of-band (H.245) Out-band, In-band, 2833	Refer to description	In-band
DIFFSERV	This parameter sets DiffServ pre-tagging for Voice packet. Note high values may cause high packet discard levels.	0~63	4
TCP Keep-Alive	TCP Keep-Alive The system will send a polling message every 75 seconds to assure the status of the TCP connection.		ON
	Gatekeeper Attributes		
RAS Usage	When this feature is ON, the VoIP channel is used as the Gatekeeper.	OFF ON	OFF
RAS Multicast IP Port	This field defines the Multicast TCP/IP Port for RAS Information of Gatekeeper.	TCP/IP Port	1718
RAS Multi-cast IP Address	This field defines the Multicast IP address for RAS Information of Gatekeeper.	IP Address	224.0.1.41
RAS Uni-cast IP Port	This parameter defines the Unicast IP Port for RAS Information of Gatekeeper.	TCP/IP Port	1719

Table 4.4.3.1-1 H.323 VOIP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
RAS Uni-cast IP Address	This parameter defines the Unicast IP address for RAS Information of Gatekeeper.	IP Address	82.134.80.2
RAS Keep Alive Time	To maintain a connection, the system and GateKeeper must exchange RAS Information prior to expiration of this timer.	001-999 (seconds)	120
RAS Number Plan Prefix	The numbering plan for Calling Number in RAS Setup.	Max. 23 digit	9
RAS Light RRQ Usage	The system can be assigned to use the simple RRQ (Registration Request) message (ON) or the full RRQ message (OFF).	OFF ON	OFF
RAS Gateway ID	The Gatekeeper ID.	128 characters	
Fail Over Usage	If an H.323 call fails to set-up in the 'Call Setup No Response time' below, the system will attempt to place the call on the Failover CO/IP group also defined below.	OFF ON	OFF
Call Setup No Response Time	When Failover is enabled, the system places the fail-over call if this timer expires before the system receives a response to setup messages.	0, 3-15 Sec.	5
Failover CO Group Number	The system will place the Fail-over call employing a CO/IP line from the assigned CO/IP Line Group. eMG80/100:1-21, eMG800:1~201, UCP:1~201	Refer to description	
	VOIP(VOIU) GW Port Usage		
Q.931 Port Range	IP-Binding H.323 signaling option: Q.931 TCP Port Range.	TCP port	2048-2559
H.245 Port	Range IP-Binding H.323 signaling option: H.245 TCP Port Range.	TCP port	2560-3071
RAS Port Range	IP-Binding H.323 signaling option: RAS UDP Port Range.	UDP port	2048-3071
Media Port Range	IP-Binding media option: Media UDP Port Range. Default: eMG80/100:6000-7036, eMG800:6000-14400, UCP:6000-19972	UDP port	Refer to description
Data Sharing Port Range	IP-Binding option: Data Sharing TCP Port Range.	TCP port	8500-8548
	External CODEC Priority Configuration		
External CODEC Priority Configuration	The system supports five Codecs and, for negotiating purposes, the priority of each can be defined. Codecs not assigned a consecutive priority are not available during negotiations with the host.	None/ g.711-u/ g.711-a/ g.723.1/ g.729/ g.729a	None

4.4.3.2 T1/E1/PRI Attributes - PGM 131

Selecting T1/E1/PRI Attributes returns the T1/E1/PRI Attributes data input page.

Enter the Device Sequence number (refer to 'Device IP Plan' if you want to find the sequence number) and click **[Load]** to enter T1/E1/PRI data.Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number:eMG80/100: 1-300 / eMG800: 1-2890 / UCP:1-3688

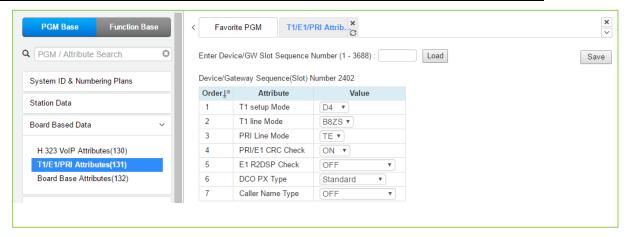


Figure 4.4.3.2-1 T1/E1/PRI Attributes

Each T1/E1/PRI module can be assigned for various attributes of the interface.

The T1 interface framing and line coding can be selected and, for the PRI, TE or NT operation can be selected. Refer to the following table for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
T1 Setup Mode	Select T1 Setup mode D4 frame: Using In-Band Control Protocol. ESF: Using Data link Message.	ESF/ D4	D4
T1 Line Mode	Select T1 line coding (AMI/B8ZS).	AMI/ B8ZS	B8ZS
PRI Line Mode	Select TE/NT Mode.	TE/NT	TE
PRI /E1 CRC Check	Enable CRC (Cyclical Redundancy Check).	OFF ON	OFF
E1 R2DSP check	Used for R2-E1 Device or E1 Device.	OFF/ ON	OFF
DCO PX Type	Reserved for future usage for R2 E1 Device. S1240, TDX1B, STANDARD, CONGES_DIS	Refer to description	STANDARD
Caller Name Type	(USA only) If the caller has a name, the Caller Name is sent to the network according to the option Facility message, Display message, OFF	Refer to description	OFF

Table 4.4.3.2-1 T1/E1/PRI ATTRIBUTES

4.4.3.3 Board Base Attributes - PGM 132

Selecting Board Base Attributes will display the Board Base Attributes data input pag.

Enter the Sequence number (refer to 'Device IP Plan' if you want to find the sequence number) and click **[Load]** to enter attribute values.

Use the check boxes to indicate which attributes to modify; data for checked attributes is stored for the entire range of devices when saved. Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number: eMG80/100: 1-300 / eMG800: 1-2890 / UCP:1-3688

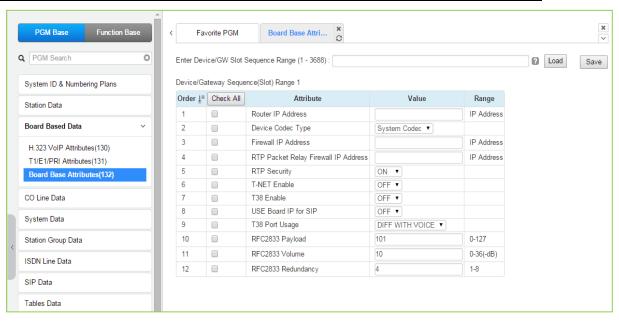


Figure 4.4.3.3-1 Board Base Attributes

Appliances (Devices and IP Phones) can be connected to the iPECS over a managed WAN without the need to employ a VoIP channel.

In this case, the system does not implement security (IPSec) or QoS treatment over the link. To implement the managed WAN connectivity, the iPECS must be assigned with the IP address of the router for all appliances that may attempt a point-to-point connection over the managed WAN, including devices on the iPECS LAN.

Note that if the device's Router IP address is not defined, the system will use the Router IP address defined in System & Device IP Address Plan.

The default codec employed by each device can be specifically defined as G.711, G.729, G.723, G.722, or the system default codec assigned.

Appliances include support for SRTP (Secure Real-Time Protocol), which employs Advanced Encryption Standard (AES) to secure RTP packets. If RTP security is enabled then IPSEC or SRTP is implemented for RTP packet.

Table 4.4.3.3-1 BOARD BASE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
IP Address	Device IP address		Read only
IPv6 Address	Device IP v6 address		Read only
Router IP Address	Enter the Default gateway (Router) IP address associated with the selected devices.		
Device Codec Type	Select the CODEC type for each device. G.711, G.723.1, G.729, G.722, SYSTEM CODEC	Refer to description	SYSTEM CODEC
Firewall IP Address	Enter the Firewall IP address of the selected devices.		0.0.0.0
RTP Packet Relay Firewall IP Address	Enter the Firewall IP address associated with the Remote Phone or Gateway if there a dual broadband connection for SIP trunks and Remote phones (using a VOIB/VOIM).		0.0.0.0
RTP Security	SRTP implements AES (Advanced Encryption Standard) for packets between other devices with RTP Security enabled. To reduce bandwidth use or to use an external VPN, this parameter must be OFF.	OFF ON	ON
TNET Enable	When a module or station is to be connected in a Centralized Control network (TNET), the device must be enabled for TNET operation. eMG80/100:ON, eMG800:OFF, UCP: OFF	OFF ON	Refer to description
T38 Enable	FAX over IP Lines is supported when T38 mode is ON.	OFF ON	OFF
USE Board IP for SIP	When the VoIP channels of a VOIB/VOIM are used for SIP, such as a SIP Trunk, the IP address of the VOIB/VOIM must be used for the SIP messages (ON).	OFF ON	OFF
T38 Port Usage	The TCP/IP port employed for T38 packets is negotiated and the system can allow the port to be the same as or different from the preceding Voice packets. The system can also employ NAT to determine the port. Different from Voice, Same as Voice, NAT Triggering	Refer to description	Different from Voice
RFC2833 Payload	Payload value for RFC2833	0~127	101
RFC2833 Volume	Volume(Gain) of RFC2833 payload	0~36(-dB)	10
RFC2833 Redundancy	Sending time of end packet of RFC2833	1~8	4
Web Connection	Setting for Web connect.	OFF ON	ON
Telnet Connection	Setting for Telnet connect.	OFF ON	OFF

4.4.4 CO Line Data

Selecting the CO Line Data program group returns the sub-menu displayed in the left frameas shown in the following figure.

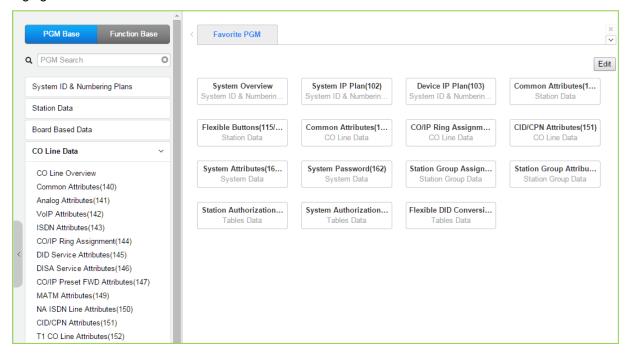


Figure 4.4.4-1 CO Line Data Main Page

Selecting CO Line Overview will show the current overview of CO line. The information may vary depending on installed modules.

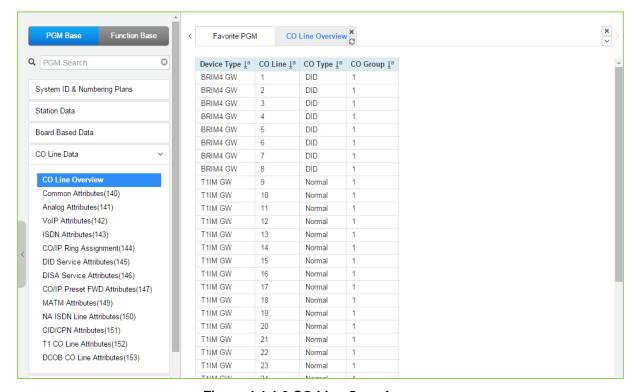


Figure 4.4.4-2 CO Line Overview

4.4.4.1 Common Attributes - PGM 140

Selecting Common Attributes will display the Common Attributes data input page. Enter a valid CO range and click **[Load]** to enter the Common Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

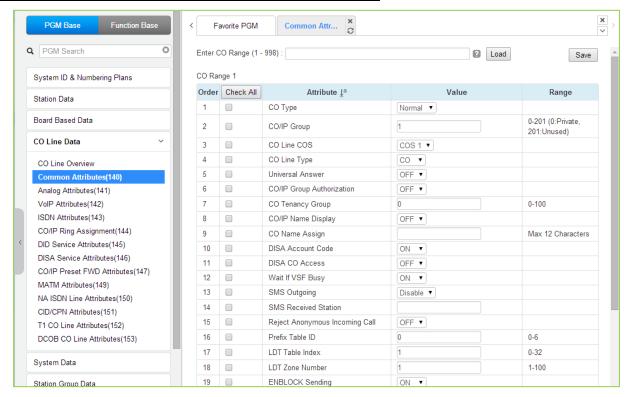


Figure 4.4.4.1-1 Common Attributes

Common Attributes define various characteristics of CO lines facilities under control of the system. Most characteristics require an On/Off setting; refer to the following table. Specific descriptions for Class-of-Service and CO line Call Metering tones are provided in Table 4.4.4.1-3.

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
СО Туре	Each CO Line is assigned a type, Normal, DID or TIE Line. Normal, DID, TIE, Unused	Refer to description	Normal
CO/IP Group	Each CO/IP Line is assigned to a group; grouping should be based on the Line type, technology and COS. 0-21(eMG80/100), 0-201(eMG800), 0-201(UCP)	Refer to description	1
CO Line COS	Each CO/IP Line is assigned a Class-of-Service that interacts with the Station COS, refer to Table 4.4.4.1-2 CO COS 1: Station COS applies CO COS 2: Exception Table A governs CO COS 3: Exception Table B governs CO COS 4: Restricts LD calls & Exception Table C CO COS 5: Overrides Station COS 2~6 with norestrictions.	COS 1~5	COS 1

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Line Type	Each CO/IP Line can be assigned as connected to a CO Line or a PBX/CTX Line.		со
Universal Night Answer	Universal Night Answer (UNA) allows any station user to answer a OFF call on the CO/IP line by dialing the UNA code.		OFF
CO/IP Group Authorization	Each CO/IP Group can be assigned to require the user enter an Authorization Code.	OFF ON	OFF
CO Tenancy Group	Only stations in the assigned Tenancy group are permitted access to the defined CO Line. 0-15(eMG80/100), 0-32(eMG800), 0-100(UCP)	Refer to description	0
CO/IP Name Display	The IP Phone display can indicate the CO line/IP channel number or the twelve (12) character name, if assigned below.	OFF ON	OFF
CO Name Assign	Each CO Line and IP group can be assigned a twelve (12)-character name for display purposes.	Max. 12 characters	
DISA Account Code	With DISA Account Code "ON", users are required to enter a DISA Authorization code. Codes are entered in 'Authorization Code Table section'.	OFF ON	ON
DISA CO Access	When enabled, DISA users may access the VoIP facilities of the system.	OFF ON	OFF
Wait If VSF Busy	When a DID/DISA call assigned to receive a VSF announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or route to the DID/DISA Destination -PGM 167	OFF ON	ON
SMS Outgoing	Each CO line can be assigned to support PSTN SMS.	Disable Enable	Disable
SMS Received Station	When a PSTN SMS is received, the system delivers the message to the assigned station.	Station	
Reject Anonymous Incoming Call	When REJECT ANONYMOUS is enabled, incoming calls without Caller ID are rejected.	OFF ON	OFF
Prefix Table ID	When the Prefix Dialing Table (PGM 206) feature is used, this Prefix Table ID is employed. If this value is set to 0, the Prefix Table feature is disabled.	0 – 6. 0(Disable)	0
LDT Table Index	When LCR is configured, this LDT Table index is referenced for outgoing calls on this CO/IP Line. 0-10(eMG80/100), 0-32(eMG800), 0-32(UCP)	Refer to description	1
LDT Zone Number	If the LDT Zone Number of a LDT table (LCR LDT(221)) is equal to this value, the LDT table is available to this CO Line.	1-100	1
ENBLOCK Sending	This entry determines if the system sends dialed digits to the ISDN line as they are received (OFF), or collects all digits and forwards them in a block. (ON).	OFF ON	ON
DID preserve Name	For DID lines, the CLI is normally displayed only during ringing. If enabled here, the CLI will be displayed for the entire call duration.	OFF ON	OFF

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Burst Tone to Caller	When DID Call Wait is assigned for the station, the system can send audible off-hook signals as a short burst of tone for DID calls from this CO/IP Line.	OFF ON	OFF
Collect Call Blocking	This parameter defines the type of Collect Call Blocking supported for E1 CO lines with R2 signaling. (Intended for Brazil only) Disable, Double Answer, Double Answer w/Indication	Refer to description	Disable
Collect Call Answer Timer	These parameters determine treatment of an incoming call when Collect Call Blocking Double Answer is assigned. In this case, the	1-250 (100ms)	10
Collect Call Idle Timer	system answers the call and maintains the connection for the Call Answer time then, the system will disconnect for the Call Idle time before finally reconnecting the call.	1-250 (100ms)	20
Gain table index	One of three Gain tables can be configured for TDM connections.	1-3	1
Tone table index	One of the five Tone table can be configured for use with the CO/IP Line.	1-5	1
Digit conversion table index	One of the Digit Conversion Tables can be configured for use for this CO/IP Line. 1-15(eMG80/100), 1-32(eMG800), 1-32(UCP)	Refer to description	1
Prepaid Call	The Pre-paid Call feature must be enabled for use by a station. User can set the budget for the station call charge in advance.	OFF ON	OFF
Prepaid Money (0-999999) & Used Prepaid Money	An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses. The "Used Pre-paid Money" displays the money that has been used.	0-999999	0
Automatic call recording destination	When desired, the IP CR server can be used to record calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper operation.		
ICLID Usage	An incoming call can be routed to the destination based on Calling Name. • Disable - ICLID feature is disabled • CLI - ICLID feature is operated with CLI • Name, CLI - ICLID feature is operated with Name and CLI	Refer to description	CLI
PBX Code Insertion for Emergency call	System can insert PBX code automatically if pre-configured when a user make an emergency call. Disable, PBX code1~4	Refer to description	Disable
	Timer Attributes		
Cut Off Timer	When the Station is assigned Call Time restriction is assigned, this timer defines the allowed call duration.	00-99 00 = disable	0

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DISA Delay Timer	Once answered, the system attaches a DTMF receiver to the DISA call to receive caller-dialed digits. This timer introduces a delay before attaching the DTMF receiver to the CO line. (Intended for Russia only)	0-9 seconds	0
DISA Answer Timer	When a call is received on a CO line with DISA service, the system will answer the call when the DISA Answer Timer expires. (Intended for Russia only)	0-9 seconds	0
	Tone Attributes		
CO Line MOH	A held call can be connected to one (1) of ten (10) possible audio sources while on Hold as Music-on-Hold (MOH). Refer to Sys Hold, Internal Music, External Music, VSF MOH, SLT MOH1~5, VSF MOH2~30	Refer to description	Refer to Sys Hold
CO Dial Tone		OFF ON	ON
CO Ring Back Tone	ISDN Lines may provide a digital signal rather than actual tones. In this case, the iPECS can provide the tones. If the ISDN	OFF ON	OFF
CO Error Tone	provides the tone, the Tone is "ON", for an iPECS system- generated tone, the tone is set to "OFF".	OFF ON	OFF
CO Busy Tone		OFF ON	OFF
CO Line Dial Tone Source	One of eleven sources can be defined as dial tone for use by the CO line. Dial Tone, Internal Music, External Music, VSF MOH, SLT MOH1~5, VSF MOH2~30	Refer to description	Dial Tone
CO Ring Back Tone Source	One of eleven sources can be defined as ring back tone for use by the CO line. Ring Back Tone, Internal Music, External Music, VSF MOH, SLT MOH1~5, VSF MOH2~30	Refer to description	Ring Back Tone
COL Ring Tone	One of sixteen Ring Tones can be configure for use by this CO Line.	00-16 0: NA	0

Table 4.4.4.1-2 STATION/CO LINE TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STACOS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") & Table C	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 6	Only Local Call (LD code/counter) & Table C	Only Local Call (LD code/counter) & Table C	Only Local Call (LD code/counter) & Table C	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STACOS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 9	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STACOS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction

Table 4.4.4.1-3 CALL METERING FUNCTION

ENTRY	CALL METERING TYPE
00	- None
01	- 50 Hz
02	- 12 KHz
03	- 16 KHz
04	- Singular Polarity Reverse (SPR)
05	- Plural Polarity Reverse (PPR)
06	- No Polarity Reverse (NPR)

4.4.4.2 Analog Attributes - PGM 141

Selecting Analog Attributes will display the Analog Attributes data input page.

Enter a valid CO range and click [Load] to enter the Analog (PSTN) Attributes data.

Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

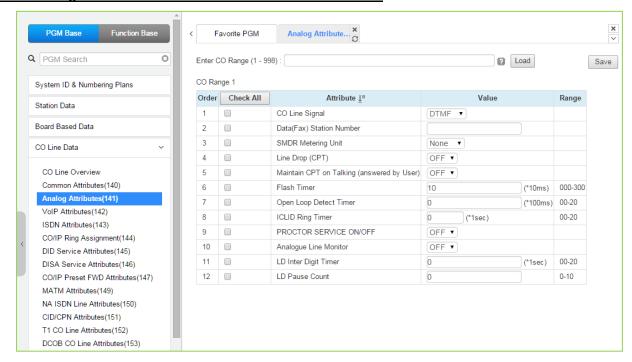


Figure 4.4.4.2-1 Analog Attributes

Analog Attributes define various characteristics of AnalogCO Lines under control of the system.

Most characteristics require an On/Off setting; refer to the following table.

Specific descriptions for CO Line (SMDR) Call Metering tones are provided in the second following table.

ATTRIBUTE DEFAULT DESCRIPTION RANGE Each analog CO Line can be assigned to send either DTMF or DTMF CO Line Signal **DTMF** Pulses for dialed digits to the PSTN. Pulse Data(Fax) Station Each CO line can be assigned to recognize a FAX call when a Station Number specified station answers. Number SMDR Metering This field selects the call-metering signal from the PSTN to None Unit indicate call cost, refer to the following table. OFF Each CO Line can be programmed to disconnect if error tone Line Drop (CPT) OFF is detected. ON Maintain CPT on The system can continuously monitor the CO Line during a call OFF talking (Answer by OFF and, if error tone is detected, drop the call. ON User)

Table 4.4.4.2-1 Analog ATTRIBUTES

Table 4.4.4.2-1 Analog ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Flash Timer	This time sets the flash time.	000-300 (*10 msec)	50
Open Loop Detect timer	This entry sets the duration of open loop that will be recognized as a "Disconnect Signal".	00-20 (*100 msec)	04
ICLID Ring Timer	When a call is received, the system may use ICLID (Incoming Caller ID) to route the call. The system will delay routing a call for this duration while awaiting ICLID. Enter a 00 to disable ICLID routing.	00-20 (*Sec)	4
Proctor Service	Each analog CO line can be assigned to send the station number as DTMF digits for Proctor service.	OFF ON	OFF
Analog Line monitor	The system can monitor and report faults on an analog CO Line.	OFF ON	ON
LD Inter Digit Timer	This time is for setting the duration between digits for LD (Long Distance) call.	00-20 (*1sec)	0
LD Pause count	This count sets the number of Pause for Long distance call.	0-10	0

Table 4.4.4.2-2 CALL METERING FUNCTION

ENTRY	SMDR METERING UNIT TYPE
00	- None
01	- 50 Hz
02	- 12 KHz
03	- 16 KHz
04	- Singular Polarity Reverse (SPR)
05	- Plural Polarity Reverse (PPR)
06	- No Polarity Reverse (NPR)

4.4.4.3 VoIP Attributes - PGM 142

Selecting VoIP Attributes will display the Analog Attributes data input page.

Enter a valid CO range and click **[Load]** to enter the VoIP Attributes data.

Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

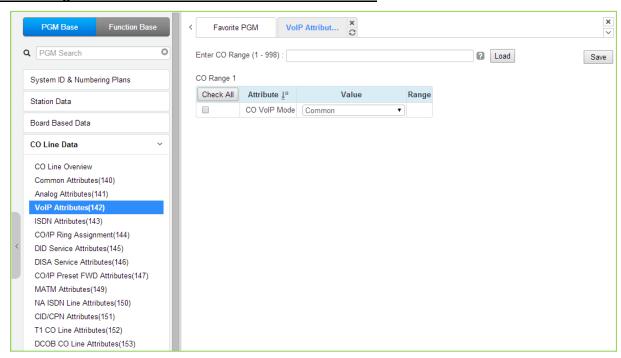


Figure 4.4.4.3-1 VoIP Attributes

Table 4.4.4.3-1 VoIP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO VoIP Mode	The VoIP channels can support iPECS, H.323 or SIP protocols. This field defines the protocol for the VoIP channel(s). COMMON H323 only SIP only RTP-Packet-Relay only H323 & RTP-Packet-Relay SIP & RTP-Packet-Relay	Refer to description	COMMON

4.4.4.4 ISDN Attributes - PGM 143

Selecting ISDN Attributes will display the ISDN Attributes data input page. Enter a valid CO range and click **[Load]** button to enter the ISDN Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

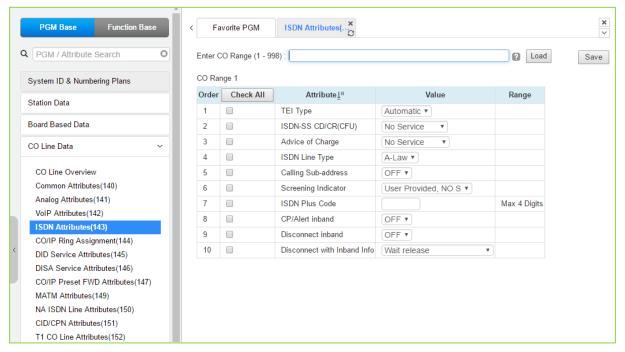


Figure 4.4.4.4-1 ISDN Attributes

PGM 143 assigns attributes associated with ISDN lines in the entered range.

Table 4.4.4.4-1 ISDN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
TEI Type	The TEI (Terminal Endpoint Identifier) is a unique identifier for each device attached to the ISDN line. When the system shares an ISDN connection with other devices, the TEI should be automatic to assure no conflict with the other attached devices. Otherwise, the Fixed identifier option should be employed.	Fixed/ Automatic	Automatic
ISDN – SS CD/CR(CFU)	Permits a user to access to ISDN Supplementary Call Deflection Service. (Except USA version). No Service, Call Deflection, Call Rerouting	Refer to description	No Service
Advice of Charge	When assigned, the system will analyze the Advice of Charge information in the Facility Message according to the ETSI specifications with appropriate regional protocol support. No AOC, Italy & Spain, Finland, Australia, Belgium, ETSI STD	Refer to description	No AOC
ISDN Line	The system will encode voice using the A-law or u-law PCM format to match the installed ISDN back bone.	μ-Law/ A-Law	A-Law
Type Calling Sub- address	For outgoing calls, the user's station number may be included in the ISDN call SETUP message Sub-address field.	OFF ON	OFF

Table 4.4.4.4-1 ISDN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Screening indicator	 The ISDN Screening Indicator can be configured. User Provided, No Service User Provided, Pass User Provided, Fail Network Provided. 	Refer to description	User Provided, No Service
ISDN PLUS Code	When the incoming CLI starts with "+", this value will be inserted in place of the "+" sign.	0000-9999	-
CP/Alert inband	Send progress indication with in-band information in Call proceeding and Alerting messages.	OFF ON	OFF
Disconnect inband	Send progress indication with in-band information in Disconnect message.	OFF ON	OFF
Disconnect with Inband Info	When system receives DISCONNECT message with Inband information from PSTN, the following option can be applied: • Ignore Inband information: Line is disconnected • Bypass Inband information: Progress Information is transferred • Wait Release: System wait to send Release message till the other party is disconnected	Refer to description	Wait Release
ISDN Clock Sync	ISDN clock synchronization is working when "Network Time & Date" (PGM195) is set to "ISDN CLOCK" and "ISDN Clock Sync" (PGM143) is ON. It could be controlled by CO line base.	OFF ON	ON

4.4.4.5 CO/IP Ring Assignment - PGM 144

Selecting CO/IP Ring Assignment will display the CO/IP Ring Assignment data input page. Enter a valid CO range and click **[Load]** to enter the CO/IP Ring Assignment data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

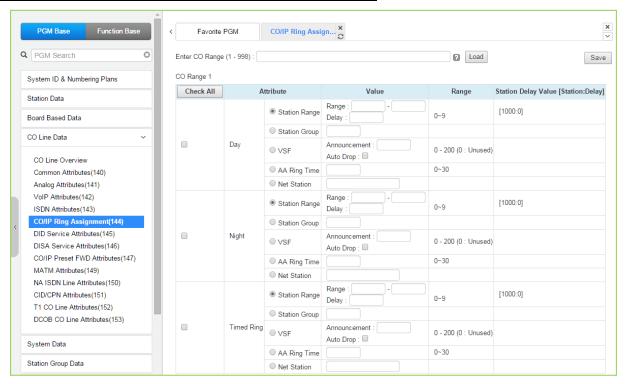


Figure 4.4.4.5-1 CO/IP Ring Assignment

Each "Normal" CO/IP line is assigned to signal a station, station group or VSF Announcement for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring mode. A delay from 1 to 9 Ring cycles can also be assigned, based on this assignment, the station/Station group will receive audible ring after a delay of the number of Ring cycles entered. In addition, when assigned to ring a VSF Announcement, the system can be programmed to disconnect after the announcement, 'Auto Drop'.

When CO/IP Lines are programmed to ring the built-in Auto Attendant, a delay of 0 to 30 seconds can be assigned as the AA Ring Time. The delay allows stations to be assigned Ring and to answer prior to signaling the AA. At expiration of the AA Ring Time, the call is sent to the assigned VSF announcement or announcement 1 when no VSF announcement is assigned.

4.4.4.6 DID Service Attributes - PGM 145

Selecting DID Service Attributes will display the DID Service Attributes data input page. Enter a valid CO range and click **[Load]** button to enter the DID Service Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

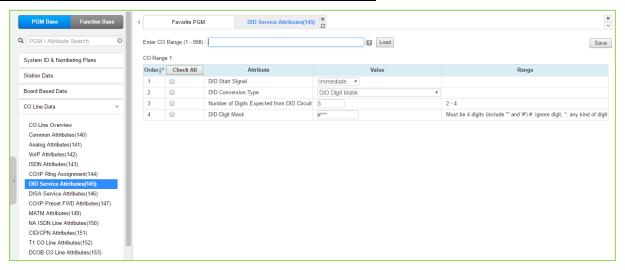


Figure 4.4.4.6-1 DID Service Attributes

DID lines can be assigned the type of "Start" signaling and treatment of received digits. Digits can be used "as is" to route the call within the system, digits can be converted and used to route the call, or digits can be converted to a Table index to determine the call routing from a Table look-up. Refer to the following table for additional description of attributes and values.

Table 4.4.4.6-1 DID SERVICE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DID Start Signal	Assigns the type of DID start signaling, Immediate, Wink or Delayed for the CO/IP Line. Immediate, Wink, Delayed	Refer to description	Immediate
DID Conversion Type	The received DID digits can be treated to determine call routing, simple conversion (Convert), use "as is" (no treatment), or modify using Flexible DID Conversion Table (Look-up). • DID Digit Mask • Use 'as is' • Modify using Flexible DID conversion table	Refer to description	DID Digit Mask
Number of Digits Expected from DID Circuit	The number of digits expected from the PSTN DID circuit.	2~4	3
DID Digit Mask	DID digit modification sequence: "#", "*", a digit (0~9) replaces the digit. The modification is based on the position of the digit (1~4) in the received number. It must be 4 digits including #,*. (0~9, *, #)"#": ignored digit,"": any kind of digit	Refer to description	#***

4.4.4.7 DISA Service Attributes - PGM 146

Selecting DISA Service Attributes will display the DISA Service Attributes data input page.

Enter a valid CO range and click **[Load]** to enter the DISA Service Attributes data.

Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

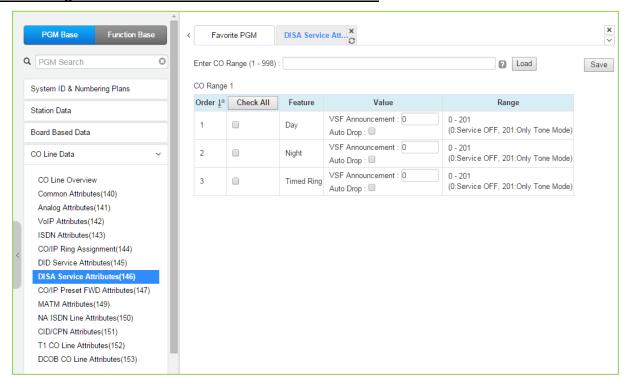


Figure 4.4.4.7-1 DISA Service Attributes

DISA Service can be enabled on CO lines based on the system operation mode (Day, Night, and Timed).

DISA calls may be routed to dial tone and await user dialing (simple routing) or through a multi-layered Audio Text menu assigning a VSF Announcement and a Customer Call Route (CCR) Table Index.

The system can be programmed to disconnect after the announcement, 'Auto Drop', or follow the CCR Table routing with a user-recorded announcement requesting specific inputs from the user.

4.4.4.8 CO/IP Preset Forward Attributes - PGM 147

Selecting CO/IP Preset Forward Attributes will display the CO/IP Preset Forward Attributes data input page.

Enter a valid CO range and click [Load] to enter the CO/IP Preset Forward Attributes data.

Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

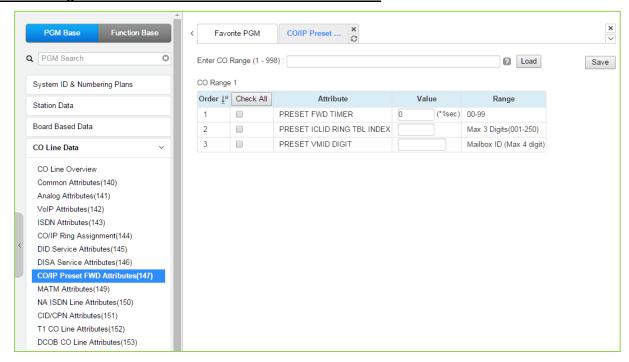


Figure 4.4.4.8-1 CO/IP Preset Forward Attributes

The CO/IP Preset Call Forward feature enables a CO line to initially ring at multiple stations and forward to a pre-determined destination. A separate timer can be defined for each CO/IP line for no-answer.

The destination can be any index to the ICLID Ring Table in section 4.4.7.5 or a Voice Mailbox. The VMID field allows selecting a specific mailbox when the CO line call forwards to an external VM group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Preset FWD Timer	An incoming call, which remains unanswered for this timer, is routed as defined in the 'ICLID Ring Table Index section'.	00-99 (Sec.)	00
Preset ICLID Ring Table Index	If an incoming call remains unanswered after the Preset Fwd time above, the call is routed as defined in the 'ICLID Ring Table index' defined here.	001-250	
Preset VMID Digit	Each CO/IP line can be assigned a VMID (Voice Mail Id) that is sent to the external VM group to identify the desired Mailbox for the call.	Mailbox ID (Max. 4 digits)	

Table 4.4.4.8-1 CO/IP PRESET FORWARD ATTRIBUTES

4.4.4.9 MATM Attributes - PGM 149

Selecting MATM Attributes will display the MATM Attributes data input page. Enter a valid CO range and click **[Load]** to enter the MATM Attributes data. Use the check boxes to indicate which attributes to modify; data for checked attributes is stored for the entire range of CO/IP Lines when saved.

Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button. These attributes are available for Country code 82.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

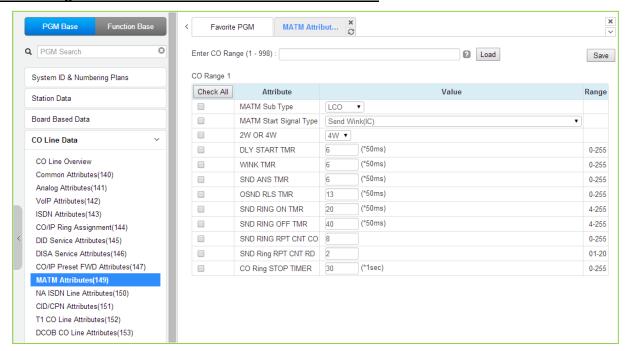


Figure 4.4.4.9-1 MATM Attributes

Table 4.4.4.9-1 MATM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MATM Sub Type	This is the analog trunk type for the MATM option board. COIU: LCO RDIU: RD (ring down, only for national army) LDIU: LD (loop dial, only for national army) EMC: E&M continuous EMD: E&M discontinuous LCO,RD,LD,EMC,EMD,Unused	Refer to description	LCO
MATM Start Signal Type	This is the signal type for the analog trunk. This should be set with alternate trunk type. These can be set by testing with available values. Send Wink (IC), Wait Seize Ack(OG) Send Wink (IC) & Wait Seize Ack(OG) Send Sub Answer (IC) & Wait Sub Answer(OG) Send Wink and Send Sub Answer(IC) Wait Ack and Wait Sub Answer(OG) Send Wink and Send Sub Answer(IC) & Wait Wink and wait sub answer(OG) Unused Type	Refer to description	Send Wink (IC)

Table 4.4.4.9-1 MATM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
2W or 4W		2W/	4W
	the line.	4W	
DLY Start Timer	This is timer value for analog signaling.	0~255	6
Wink Timer	This is timer value for analog signaling.	0~255	6
SND ANS	This is times value for analog signaling	0.055	6
Timer	This is timer value for analog signaling.	0~255	
OSND RLS	This is timer value for analog signaling	0~255	13
Timer	This is timer value for analog signaling.		
SND RING ON	This is timer value for analog signaling	4~255	20
Timer	This is timer value for analog signaling.		
SND RING	This is timer value for analog signaling	4~255	40
OFF Timer	This is timer value for analog signaling.		
SND RING	This is timer value for analog signaling	0~255	8
RPT CNT CO	This is timer value for analog signaling.		
SND RING	This is times value for analog signaling	04 20	
RPT CNT RD	This is timer value for analog signaling.	01~20	2
CO Ring STOP	This is timer value for analog signaling	0.255	30
Timer	This is timer value for analog signaling.	0~255	

4.4.4.10 NA ISDN Line Attributes - PGM 150

Selecting NA (North America) ISDN Line Attributes will display the NA ISDN Line Attributes data input page.

Enter a valid CO range and click **[Load]** to enter the NA ISDN Line Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

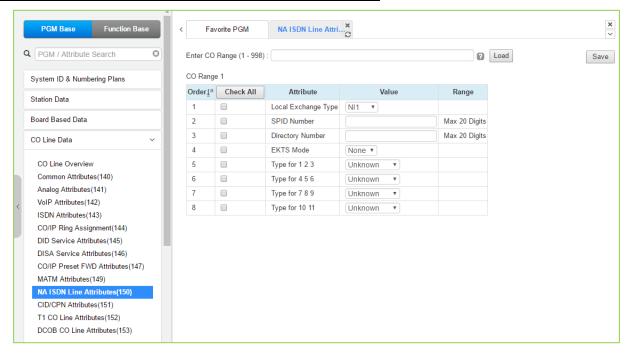


Figure 4.4.4.10-1 NA ISDN Line Attributes

To comply with the North American ISDN standards, certain attributes must be defined for the system. These include Directory (telephone) Number and Service Profile Id (SPID) for the device.

Note that this programming is required only for "Country Code" 1, USA installations. Refer to Table 4.4.4.10-1 for information on individual attributes.

ATTRIBUTE DESCRIPTION RANGE DEFAULT The type of ISDN determines several specifics of the protocol and Local Exchange Refer to is required for proper operation. NI 1 Type description NI 1, NI 2, 5 ESS, Nortel The Service Profile Identifier (SPID) is a number assigned to a fully initializing ISDN terminal and enables the Stored Program Control switching System (SPCS) to identify the ISDN terminal at layer 3 of the D-channel signaling protocol. The SPID is a free-**SPID Number** 20 digits formatted numeric string composed of 9 to 20 numeric {0-9} and International Alphabet (IA5) characters. The SPID uniquely identifies a particular set of subscription parameters assigned to a TSP. Initializing terminals are required to store a 7-digit DN in order to Directory perform the compatibility checking procedures that are part of call 20 digits Number termination.

Table 4.4.4.10-1 NA ISDN LINE ATTRIBUTES

Table 4.4.4.10-1 NA ISDN LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
EKTS Mode	The EKTS (Electronic Key Telephone Service) terminal permits a user to operate those features that are specific to EKTS, as well as voice features that may function distinctly in the EKTS environment. EKTS allows a DN to be shared by more than one terminal, on the same or on different interfaces.	NONE/ EKTS	NONE
Type for 1/2/3	ISDN CALLED NO uses the International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 1~3digits. • Unknown • International • National • Network • Subscriber • Abbreviated	Refer to description	Unknown
Type for 4/5/6	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 4~6 digits. • Unknown • International • National • Network • Subscriber • Abbreviated	Refer to description	Unknown
Type for 7/8/9	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 7~9 digits. • Unknown • International • National • Network • Subscriber • Abbreviated	Refer to description	Unknown
Type for 10/11	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials more than 10 digits. • Unknown • International • National • Network • Subscriber • Abbreviated	Refer to description	Unknown

4.4.4.11 CID/CPN Attributes - PGM 151

Selecting CID/CPN Attributes will display the CID/CPN Attributes data input page. Enter a valid CO range and click **[Load]** to enter the CID/CPN Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

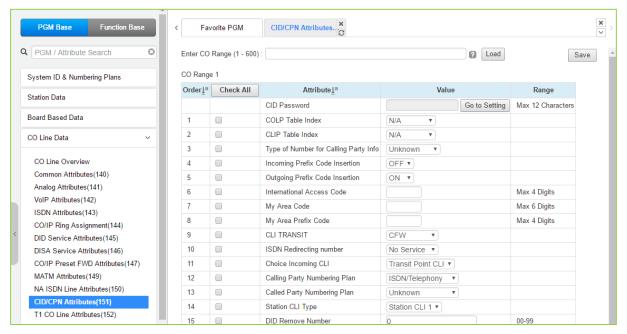


Figure 4.4.4.11-1 CID/CPN Attributes

- COLP: Connected Line Presentation
- CLIP: Calling Line Identification Presentation

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

Refer to Table 4.4.4.11-1 for information on individual attributes.

Table 4.4.4.11-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
COLP Table Index	When an incoming call on an ISDN Line is answered, the system will send caller id using the number from the CLIP/COLP Table (section 4.4.7.2) entry defined by this parameter. The station number is included as a suffix of the caller id. For "Using Station's COLP Attribute", the Station CLI type entered below will be used in place of the station number.	N/A 0-49 Station CLI	N/A
CLIP Table Index		N/A 0-49 Station CLI	N/A

Table 4.4.4.11-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Type of Number for Calling Party Info	For outgoing calls on an ISDN Line, this parameter defines the "Type of Number Plan" provided in Calling Party Information Element of the ISDN call SETUP message. Unknown, International, National, Unused, Subscriber	Refer to description	Unknown
Incoming Prefix Code Insertion	Regional ISDN providers may use the Local Area Prefix code for special services. In cases where the code is not provided in the incoming call SETUP message, the system can insert the My Local Prefix and My Area Code below in SMDR, LNR, displays, etc.	OFF ON	OFF
Outgoing Prefix Code Insertion	Regional ISDN providers may use the Local Area Prefix code for special services. The system can insert the "My Area Code" and "My Local Prefix Code" in the Connect message as defined in those items below.	OFF ON	ON
International Access Code	When an incoming call includes the international Country code in the ISDN call SETUP message, the Country code can be included in the station display. To include the Country code, Incoming Prefix insertion, and CLI display in StationData must be ON.	Max. 4 digits	-
My Area Code	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Area Code in the call SETUP messages defined under the Incoming/Outgoing Prefix Code Insertion entries above.	Max. 6 digits	-
My Area Prefix Code	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will use this code for insertion of the Local Prefix Code in the call SETUP messages if Local Prefix Insertion is enabled above.	Max. 4 digits	-
CLI Transit	When the system must send CLI to the ISDN for an off-net call, the CLI can be either the original caller's CLI or the CLI of the Offnet forwarding/transferring station.	ORI/ CFW	CFW
ISDN Redirecting Number	When the system needs to send a Redirecting number to the ISDN for an off-net call, the Redirecting number can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station. If it is no service then system will not send this information. If it is configured for OGR CLI (original CLI) then system will send original CLI that is received from incoming CO line. If it is CFW CLI then system will send the redirecting CLI that is the CLI of the off-net call forwarding station. NO SERVICE, ORG CLI, CFW CLI	Refer to description	NO SERVICE
Choice incoming CLI	Incoming CLI Choice – When ISDN setup message has two CLIs (Transit Point CLI / Original CLI), this option determines the CLI the system will recognize. Original CLI, Transit PointCLI	Refer to description	Transit point CLI

Table 4.4.4.11-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Calling party numbering Plan	ISDN Calling Party Numbering Plan can be configured. Unknown, ISDN/Telephony, Data/Numbering, Telex, National Std, Private, Reserved	Refer to description	ISDN/ Telephony
Called party numbering Plan	ISDN Calling Party Numbering Plan can be programmable. Unknown, ISDN/Telephony, Data/Numbering, Telex, National Std, Private, Reserved	Refer to description	Unknown
Station CLI Type	When the Station CLI is used with the CLIP or CLOP, one of five Station CLIs as defined in PGM 114 section 4.4.7.2 is used for this CO/IP Line as selected here.	Station CLI 1 –CLI 5	Station CLI
DID Remove Number	When a DID call is received on an ISDN Line, this entry determines the number of digits that will be removed starting at the first received digit.	00~99	00
One Digit Remove	Selects one digit remove mode in ISDN Called Digits for Italy DID.	Enable Disable	Disable
CID mode	The type of CID signal can be assigned according to the type of CID from the carrier. Disabled, FSK, DT-AS(TAS) FSK, DTMF, RCID	Refer to description	DT- AS(TAS) FSK
RCID detect	Russia CID Detect Mode.	LOCAL/ ALL	ALL
RCID request	Russia CID Request Mode.	USER/ AUTO	AUTO
RCID Request First Delay Timer	Russia CID First Delay Timer.	010–150 (10msec)	30
RCID No- Answer Timer	Russia CID NO-Answer Timer.	001–300 (Sec.)	20
RCID Digit Number	Russia CID Digit Number.	04–10	07
RCID Request Count	Russia CID Request Count.	1–3	1
RCID Request Retry Delay Timer	Russia CID Retry Delay Timer.	10–30 (10msec)	10
LD DIGIT COUNT	To use LD(Long Distance) Digit Count, 'My Area Prefix code' must set in advance. This option enables the call log to add 'My Area Prefix Code' If Incoming CLI is shorter than 'LD DIGIT COUNT' and is not matched with Multi Area Code or without change if Incoming CLI is equal to or longer than 'LD DIGIT COUNT'. The default is 11 for North America and 0 for other countries.	00-23	11

Table 4.4.4.11-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LOCAL DIGIT COUNT	To use this option, 'My Area Prefix code' must set in advance. This option enables the call log to add 'My Area Code' by setting ON for 'ADD MY AREA CODE' If Incoming CLI is equal to or shorter than 'LOCAL DIGIT COUNT'. The default is 7 for North America and 0 for other countries.	00-23	7
ADD MY AREA CODE	To use this option, 'My Area Prefix code' must set in advance. This option selects My Area Code usage by setting ON. This option is related to 'LOCAL DIGIT COUNT'. ** As we mentioned the rule of 'LD DIGIT COUNT' and 'LOCAL DIGIT COUNT', the incoming CLI is followed the above rule. But in case of the other cases, the system compare the incoming CLI with Multi Area Code (PGM 100) and then My Area Prefix Code will be added to the call log.	OFF ON	OFF

4.4.4.12 T1 CO Line Attributes - PGM 152

Selecting T1 CO Line Attributes will display the T1 Line Attributes data input page. Enter a valid CO range and click **[Load]** to enter the T1 Line Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.



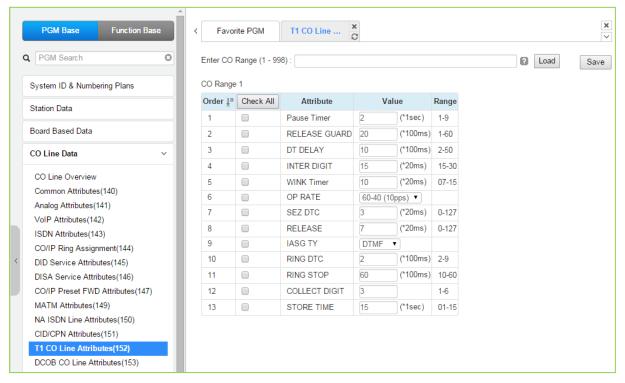


Figure 4.4.4.12-1 T1 CO Line Attributes

North American T1 standards require that the T1 terminating device, in this case iPECS system, include various "adjustable" timers and counters as described below.

Table 4.4.4.12-1 T1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Pause Timer	A timed pause may be included in a Speed Dial number, in which case, the pause time is defined by this entry.Not currently implemented.	1~9 (seconds)	2
RELEASE GUARD	The release guard timer defines the length of time the system will maintain a Line as busy after the call has been terminated to assure the PSTN has sufficient time to 'clear down' the circuit. Not currently implemented.	01~60 (100 ms)	20
DT DELAY	The DT (Dial tone) Delay timer defines the duration dial tone must be received for DT recognition. Not currently implemented.	02~50 (100 ms)	10
INTER DIGIT	The Inter Digit timer defines the duration between digit transmissions.Not currently implemented.	15~30 (20 ms)	15
WINK Timer	For TIE or DID Lines the Wink timer defines the length of time the 'wink' (T1 TIE line circuit reversal) will last.	7~15 (20 ms)	10

Table 4.4.4.12-1 T1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
OP RATE	For Pulse signaling, defines the duration and make/break ratio of each pulse. 60-40(10pps), 66-33(10pps), 60-40(20pps), 66-33(20pps)	Refer to description	60-40 (10pps)
SEZ DTC	This timer defines the length of a valid 'line seizure' signal.	0~127 (20 ms)	3
RELEASE	For Ground Start, this timer defines the minimum length of time ground will not be applied to the TIP side from the PSTN.	0~127 (20 ms)	7
IASG TY	Incoming Address Signaling Type defines the type of signaling (DTMF or Pulse) expected.	PULSE/ DTMF	DTMF
RING DTC	The Ring DTC (detect) timer defines the minimum acceptable length of the Ring-on time during a ring cycle.	2~9 (100 ms)	2
RING STOP	The Ring Stop timer defines the maximum Ring-off time during a ring cycle.	10~60 (100 ms)	60
COLLECT DGT	Collect DGT (digits) defines the number of digits expected on a DID line.	1~6	3
STORE TIME	For DID lines, this timer defines the maximum delay between incoming DID digits.	1~15 (second)	15

4.4.4.13 DCOB CO Line Attributes - PGM 153

Selecting DCOB CO Line Attributes will display the DCOB Line Attributes data input page. Enter a valid CO range and click **[Load]** button to enter the DCOB Line Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

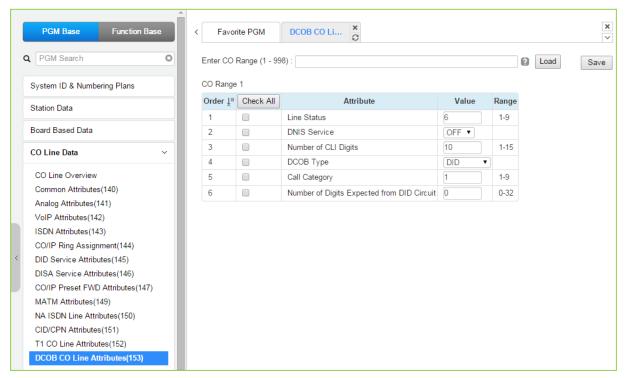


Figure 4.4.4.13-1 DCOB CO Line Attributes

Table 4.4.4.13-1 DCOB LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Line Status	This parameter defines the code that the system will send to indicate idle line status in accordance with E1R2	1~9	6
DNIS Service	In R2, this field determines whether system will send caller information to PX or not.	OFF ON	OFF
Number of CLI Digits	This parameter defines the number of digits expected as the Calling Line Identification from digital CO lines.	01~15	10
DCOB Type	According to this type, the line can be restricted to the type of service, incoming DID and outgoing calls (DOD).	DID/DOD, DOD, DID	DID
Call Category	This parameter defines the code sent in response to a call category request from the network in accordance with E1R2 specifications.	1~9	1
Number of Digits Expected from DID circuit	This parameter defines the number of digits expected as DID digits from digital CO lines. If set to "0", the number of digits defined in PGM 145 is used.	0~32	0

4.4.5 System Data

Selecting the System Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

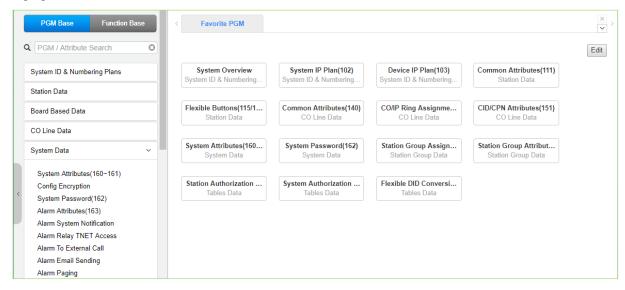


Figure 4.4.5-1 System Data Main Page

4.4.5.1 System Attributes - PGM 160 & 161

Selecting System Attributes will display the System Attributes data entry page. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click [Save] button after changing Value.

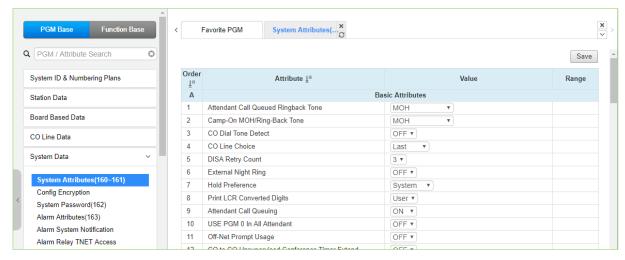


Figure 4.4.5.1-1 System Attributes

System Attributes define settings that affect system wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 4.4.5.1-1 for a description of the Attributes and the data entries required.

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

Table 4.4.5.1-1 SYSTEM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Attendant Call Queued Ring Back Tone	When Attendant is busy with receiving call, the system will provide either Ring-back tone or Background music (MOH). If MOH is selected, the Music Source must be defined in 'Music source – PGM171'.	MOH/ Ring- BackTone	МОН
Camp-On MOH/Ring-Back Tone	When Camp-On is used, the calling station will receive either ring-back tone or MOH. If MOH is selected, a source must be defined in Music source – PGM171'.	MOH/ Ring-Back Tone	МОН
CO Dial Tone Detect	The system can use dial-tone detection or a timed pause for speed dial numbers that contain a Pause.	OFF ON	OFF
CO Line Choice	CO Lines are selected by the system from groups using either the LAST used, FIRST or ROUND robin method.	LAST FIRST ROUND	LAST
DISA Retry Count	A DISA user is allowed to retry erroneous authentication code entries. This entry sets the number of retries before the system disconnects.	1~9	3
External Night Ring	CO/IP calls, which are assigned UNA, can activate the Loud Bell Contact. While in the Night mode, an incoming call will activate the contact.	OFF ON	OFF
Hold Preference	A single depression of the [Hold] button during CO call places the call on the preferred hold, System or Exclusive.	System/ Exclusive	System
Print LCR Converteddigits	SMDR will output the number dialed by either the system's LCR or the user.	LCR/ USER	User
Attendant Call Queuing	The system can be configured to queue incoming calls to a busy Attendant.	OFF ON	ON
USE PGM_0 IN ALL ATD	This field allows Main Attendants to activate Day/Night mode and otherSystem Attendant menusexcept PGM 06 – Record system announcement. (Not available in USA version.)	OFF ON	OFF
Off-net Prompt Usage	When a call is routed to a destination external to the iPECS, the Off Net routing prompt can be played. (Not available in US version)	OFF ON	OFF
CO to CO Unsupervised Conference Timer Extend	When an Unsupervised Conference is established with DISA, Off-Net Fwd, etc., the Unsupervised Conference timer determines the allowed duration of the call. If enabled here, the user may extend the allowed duration.	OFF ON	OFF
ACD Manager Print	When the optional ACD Event messages are required, the system must be enabled here to send the events.	OFF ON	OFF
Repeat DTMF tone	If enabled, the system will repeat DTMF tones to the caller's station when the call is routed to an off-net location.	OFF ON	ON
Off-Hook Ring Type	Off-hook ring can be a single tone burst or muted normal ring.	MUTE/ BURST	MUTE
Page Warning Tone	A warning tone can be sent prior to a page announcement.	OFF ON	ON

Table 4.4.5.1-1 SYSTEM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Automatic Privacy	Automatic Privacy can be disabled, allowing stations to join an active CO/IP call. A warning tone can be provided, see Privacy Warning Tone below.	OFF ON	ON
Privacy Warning Tone	If desired, a warning tone can be provided when privacy is overridden.	OFF ON	ON
ACD Print Enable	ACD statistics can be periodically sent to the assigned serial port. To provide periodic reports, this feature must be ON.	OFF ON	OFF
ACD Print Timer	This entry defines the time, in 10-second increments, between the periodic ACD reports assigned above.	001~255 (1 sec)	10
CALLTRACKING Enable	It transfers the tracking information to 3rd Party VM SIP.	OFF ON	OFF
Clear ACD Database	When a periodic report is sent, the ACD database can be cleared automatically, if "ON".	OFF ON	OFF
Override 1st CO Group	When a user dials '9', the system can search all CO/IP Groups for the first available CO/IP line.	OFF ON	OFF
Codec Type	The default codec can be defined as G.711, G.729, G.722 or G.723.1 for decreased bandwidth needs. The selected codec will be used on all internal communications as well as for remote iPECS devices.	G.729/ G.723.1/ G.711/ G.722	G.711
G.711 Packetization	The G.711 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.711 codec is used.	10/20/30 (1 msec)	020
G.723 Packetization	The G.723.1 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.723.1 codec is used.	30/60 (1 msec)	030
Network Time/Date	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. ISDN sync is not available in USA version.	Disable/ ISDN/ NTP	Disable
Incoming Toll Check	The system can invoke COS dialing restrictions when a user dials while connected to incoming call.	OFF ON	OFF
Web Server Port/TLS for Web	This field determines the TCP port employed to access the system WEB server. This field also enables Transport Layer Security (TLS) for access to Web Admin. 00001-65535/Enable or Disable	Refer to description	443/ Enable
REST API Service Port	The REST API Service Port is TCP port for REST API service. It will be started with web admin server after refreshing when you assign or change the port. 0(Unused) , 1024-65535	Refer to description	o
REST API Session Timeout	The REST API Session Timeout value means duration for REST API service after login with ID and Password. After the timeout value, the session will be expired if there are any requests from user.	1-60 (1 min)	2

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auth Retry Count	When an Authorization code is required, the user may attempt to enter a Valid code up to the maximum value defined in this field.	1-9	3
Simple Auth Code Usage	System Authorization codes are entered by the user as "*" and the code (ON) or "*"+ the Auth code index and the code (OFF).	OFF ON	ON
COS 7 when Auth Fail	If a user fails to enter a valid Authorization code in the number of attempts assigned in Auth Retry Count above, the station is disconnected or the Station COS is changed to COS 7. In the latter case, the user must employ COS Restore in Station User PGM 2 to return the station to the normal COS.	OFF ON	OFF
Unified Message Format	System Integration Messages are sent out the defined serial or TCP channel.	OFF ON	OFF
Conference Room CO Tel Number	ISDN DID number an external party must dial to enter a Conference room.	Max. 15 digits	
Record warning tone	When call recording is active, a tone can be sent to all connected parties to indicate the conversation is being recorded.	OFF ON	ON
UCP (MPB) DIFF SERVE	Diff-Serv Code Point applied to packets fromLAN port of the UCP (iPECS eMG LAN port of the MPB). TOS:Route(0),Priority(8),Immediate(16),Flash(24),Flash Override(32),Critic(40),Internetwork Control(48),Network Control(56)	00-63	4
Device Upgrade Mode	Transfer mode for upgrades from MPB to an iPECS device.	FTP TFTP	FTP
CO Transfer Tone	When a CO call is transferred to a busy extension, Ring Back Tone or Music On Hold will be played to the CO Line. MOH, Ring-Back Tone	Refer to description	Ring-Back Tone
Conference Warning Tone	When a new member joins a conference room, the system provides warning tone to conference members.	OFF ON	ON
Dummy Dial Tone	When a CO line does not provide dial tone, the system can provide dummy dial tone.	Unused/ Use	Unused
SIP Station Mode	SIP phones may set-up a point-to-point RTP connection (PTP) or to assure a controlled connection, RTP can be routed via a VoIP channel (RTD).	RTD/ PTP	Routed
SMS Center Number	When the PSTN will be used to send SMS, the phone number of the Short Message Service Center must be entered.	Max. 23 digits	
SMS Center CLI	When the CO/IP Line will be used to receive SMS, the Caller Id expected from the Short MSG Service Center must be defined.	Max. 23 digits	
SMS Protocol	The Short Message Service Protocol must be selected to support SMS. None, ETSI-P1, ETSI-P2, KT-LivingNet, SIP-Text, SIP-XML, KT IP-PBX, SKN IP-PBX, KT XML	Refer to description	NONE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
G.722 Packetization	The G.722 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.722 codec is used.	10/20/30 (1 msec)	020
Transit-out security	The system will check the IP address for transit-out calls in the master system. If not valid the transit-out call is denied.	Unused/ Use	Use
Emergency call attendantNotify	The Attendant can be notified when another user in the system dials emergency number.	Unused/ Use	Use
3-Way Conference Preference	When 3-way conference calling, the system uses the selected device to establish the conference mixing. When "Local" is assigned, the device, such as a SIP phone, must provide the mixing. This option is available only for UCP.	Local/ MCIM	Local
First digit * in SPD	Normally, when "*" is the first digit in a Speed Dial number, the Display Security feature is activated so that the number is not shown in the LCD of iPECS IP or LDP Phones. Otherwise, the "*" is sent as the first digit to the carrier. Display Security, Digit *	Refer to description	Display Security
Use Strong Password	When enabled, passwords in PGM 162 must be longer than 10 digits and include both numbers and characters.	OFF ON	ON
Station password minimum length	If strong password is ON, then "minimum station password length" is used. If input station password length is less than "minimum station password length", then it is not saved.	01~12	6
VSF SMTP port	SMTP port used for the VSF and UVM gateway (VMIU/VMIB).	00001~ 65535	25
CTI IP	When assigned, the system will accept 3rd party TAPI messages only from assigned IP address.		0.0.0.0
Intercom busy service	When busy, an intercom call may use Off-hook Voice-Over, intrusion, or multi barge in room to connect to the called intercom party. Voice-over, Intrusion, Barge in (Monitoring), Barge in(Conference)	Refer to description	Voice over
Auto save new message	After listening to a voice message, if the user takes no action, the system can automatically save the message or leave the message in the new message category.	Unused/ Use	Unused
IGMP query usage	The system employs multi-cast packets for registration and certain general functions such as MOH. With some multicast snoop enabled Layer 2 switches, multicast packets are not forward unless an IGMP query device exists in the network. This entry enables the IGMP query option and system sends periodic IGMP query message to avoid multicast blocking.	OFF ON	OFF
IGMP query interval timer	This timer defines the interval for each IGMP query message.	0~3600 (Sec.)	180

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
IGMP query all host	IGMP queries are sent to all IP hosts (ON) on the network or to iPECS devices only. For All Hosts, IP address 224.0.0.1 is used otherwise the iPECS specific 239.20.19.50 IP address is used. If problems occur with MOH, the "All Hosts" may correct the issue.	OFF ON	ON
IGMP query generic	This entity specifies a group addresses being queried. If ON is selected, all multicast group are queried. If OFF is selected, iPECS registering device group (239.20.19.50) is queried only. This should be ON when there is a MOH problem.	OFF ON	OFF
Restrict star and pound	If enabled, calls using * or # as the first digit are prohibited by the system.	OFF ON	ON
Restricted Dialing Display After Answer	If a restricted number is called, the system will output an SMDR record for the call after the call is answered.	OFF ON	ON
IP BIND USAGE	If It's ON, VOIU/VOIB/VOIM will apply IP-Binding with information in PGM130 / PGM133 (Media port).	OFF ON	OFF
New 5 Wake Up Usage	With the "New Wake-Up" option, the user can assign five alarm notification times, otherwise only one Wake-Up time can be set.	OFF ON	OFF
Easy 5 Wake Up Usage	If this value is set to ON, and New 5 Wake Up Usage is also set to ON, each station user can enter his/her wake up time without entering wake up type and wake up index.	OFF ON	OFF
Station VM Feature Usage	If this option is set to ON, Station VM feature (PGM 127) can be used. Enhanced features of the VSF/UVM can be disabled. Features controlled by this setting include as below: Company Directory Remote Announcement Recording Administrator Mailbox Distribution List Mark a Message as Private, Urgent or Delivery Confirmation Record Greeting through CCR Voice Mail Class of Service	OFF ON	OFF
End code(#) usage in System Auth Code	If this option is set to ON, End code (#) must be entered when system Auth code is entered.	OFF ON	OFF
Remote VM Access	If this value is OFF, the user cannot access to VSF mailbox via DID, DISA CO call and so on (i.e. through CO line channel).	OFF ON	ON
Transfer Tone Usage	If this value is ON, Warning tone is served to the [transfer to] station. This is only applied to screened transfer case.	OFF ON	OFF
CID Password Usage	If this value is ON, a user must enter the CID password to modify an admin value about CID setting.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCR Dial Tone Detect	If this value is set to ON, the system first checks dial tone in case on analog CO Lines then LCR dialing is completed. If no dial tone is detected, the call is rerouted to Alternate DMT Index. If LCR type is set to M13, LCR dial tone detect option is not applied.	OFF ON	OFF
Mobile Phone Presence Service port	This is for an interface between eMG and external server that sends http/xml data. Currently the first usage of this port is 'mobile phone presence' service. If set to a valid port the presence service will be implemented and the system will await messages for presence from the external server.	00001~ 65535	00000
Mobile Phone Presence State Sync	When the system receives presence information for a mobile extension from external server, the system synchronizes the station's call state with this presence information. A busy presence will set the station to busy. OFF, DSS LED only, Station Status	Refer to description	Station Status
Mobile Phone Presence Force Idle Timer	The system will return a station's state to idle if there is no updated presence information from external server for the duration of this timer.	0~3600 (Sec.)	0
Attendant Password Usage	If this value is set to ON, system requests a password: When a user enters Attendant program ([PGM] + 0, When an Attendant enters Speed program, When a user assigns attendant program code ([PGM] + 0) to Flexible button,	OFF ON	OFF
Picked-up station name usage	Name of picked up station is display when pickup internal call.	OFF ON	OFF
Display LCR mode	Display "LCR MODE" when LCR is activated.	OFF ON	ON
VM Notify to Mobile Extension over CO	If this value is set to ON, an analog Loop Start CO Line can be used for the VM notification call to the Mobile Extension.	Disable Enable	Disable
MODEM Associated Station/CO line	When a call is received by the assigned CO Line, the call is routed to the system's built-in modem. This option is available only for eMG80/100& eMG800. eMG80/100: STA/239, eMG800: STA/ 2199	CO/STA	Refer to description
Display {MEET ME} Soft button	If this value is set to OFF, {MEET ME} soft button is not displayed during a paged.	OFF ON	ON
Number of CLI Wait List	The system check the status of each device with a polling message periodically using this timer.	0-255	0
Emergency Mailbox Station	When an Emergency Mailbox Station is assigned, an emergency call placed by a station is recorded automatically to the assigned mailbox.		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MSVC XML Port	The XML port used to support Web callback, call-through and iPECS ClickCall application for MSVC (Mobile Service) must be defined.	00001~ 65535	7878
Security (option for MSVC XML Port)	It is security option for MSVC XML Port. (7878) If it is "TLS1.2" then system accepts only TLS 1.2. Other TLS1.1(or below) and SSL will be rejected. "Default" option is used for application compatibility as below. UCS version that can support TLS1.2: UCS Win Client: 6.1.5 UCS Mac Client: 6.1.3 UCS Android Client: 6.1.6 UCS iOS Client: 6.1.3 iPECS Click Call version that can support TLS1.2: 1.0Ar 2.0Ac Report plus, CCS that can support TLS1.2: (TBD: it will be supported in 2019 Q2) So, if both UCS and report plus are used then "Default" should be used before new report plus/CCS package is released.	DEFAULT TLS 1.2	DEFAULT
IPCR Announce for recording warning	When ON, the IPCR server Call Recording notification announcement is played to the caller in place of the warning tone.	OFF ON	OFF
IPCR Announce for only incoming	User can select IPCR Announce only when it's incoming by	OFF ON	OFF
Mobile EXT CO Access Password Check	When a mobile extension places an external call using an iPECS CO/IP Line, the user may be required to enter a valid Authorization code to place the call.	OFF ON	OFF
Hold key usage on paging	When ON, the Hold key is used for paging.	OFF ON	ON
Device Info Request Interval	The system checks the status of each device with a polling message at intervals of this timer.	15 ~ 255 (seconds)	15
Dial By Name List	The Dial by Name feature can allow stations in any ICM tenancy groups to call a station any in ICM Tenancy group. When desired, Dial by Name can be limited to function within allowed Tenancy calling groups, PGM 125. All, Accessible ICM Group only	Refer to description	ALL
Dial By System Speed Name List	If this value is set to "Accessible System Speed Zone Only", the system speed dial number of Accessiblesystemspeedzone (System Speed Zone (232)) is displayed in {Dial by Name}. All, Accessible System Speed Zone Only	Refer to description	ALL

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Default Web Language	The user can select the display language used in the Web pages. Either English or the "Local" language can be selected. Note the "Local Language" must be entered in the Multi-Language file in Maintenance section. English, Local language	Refer to description	English
No Range Load Limit on Web Admin	OFF: Limited index range will be accepted (e.g. 1-100) ON: No limitation of table index (e.g. 221, 222, 270, etc)	OFF/ON	ON
Forward limitation by caller COS	Caller(internal station) call to a station offnet forwarded. It can be forwarded by caller COS if it's ON.	OFF/ON	OFF
No CLI Call Log	Leave system Call log even though there is no CLI information if it is ON. Otherwise Call log is not leaved.	OFF ON	OFF
Remote VM Forward Access	If the value is ON, Call Forwarding setting from remote access is enabled. If the value is OFF, Call Forwarding setting from remote access is disabled.	OFF ON	ON
DB Backup to USB monthly	System downloads the database to USB periodically. The user can access, copy and delete files in USB drive via web admin.So you can back up DB by choosing the specific date for	N/A, 1, 15	N/A
DB Backup to USB weekly	Monthly or Weekly. vUCP/eMG100 is not available for this feature.	N/A, Mon ~ Sun.	N/A
SLT Line Monitor	SLT line supervision is to be supported to check the line connection/disconnection periodically as programmed - daily or programmed time. When the line is disconnected, alarm call/message notification is provided to pre-defined destinations like other alarms. System will send e-mailnotification according to "Common SMTP Attributes" and "Alarm Attributes". This is to provide more reliability for mission-critical services for hospitality or health care solutions (i.e. bath alarms using SLT line).	OFF ON	OFF
SLT Line Monitor	 Conditions Normal SLT service is not available during detection period since the detection takes several seconds. Ringer test determines the presence of appropriate ringer terminations on the line. The measured impedance must be within the defined limits: 1.4 kΩ (5 REN) ~ 40 kΩ (0.175 REN). Otherwise the test fails, which means that normal SLT device can be detected, but if simple device which does not provide the proper ringer impedance is connected, then we cannot detect it properly. Supported system options: UCP/eMG80/100/800 with Unified 2.1 software Supported G/W & Boards: UCP-SLTM, UCP100 SLTU, eMG80/100/800 SLIB 	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SLT Line Monitor	The system monitors if SLT Line functions correctly at a preset time in this field.	0-23	0
UCS Ring ACK Count	UCS Client can be checked by Ring ACK Message. If the Ring ACK message is sent and get no ACK message, System set the state of UCS Client onOOS(Out of service) after the set of Ring ACK count. If the Ring ACK Count is 0, the UCS Client goes to OOS (Out Of Service) after 1 time. If the count is 2, UCS Client can goto OOS (Out Of Service) at 3 times. UCS Client is ringing before expiring the Ring ACK timer set on System Timers 'UCS Ring ACK Timer' and afterwards will hear Error tones.	0-9	0
Dial Back to Caller from Remote VM Access	A user accesses to voice mail from remote, the user can make a call to the caller of the voice mail like below. If 'Toll Free' is selected, the user can make a call to the caller of the voice mail. If 'toll check' is selected, Station COS will be applied. If 'Rejected' is selected, the user can't make a call to the caller of the voice mail. Toll Free, Toll Check, Rejected	Refer to description	Toll Free
Web Admin Login Failure count to block	For security, administrator can set the limited count to log in Web admin from 5 to 63.	5-63, 0(unused)	5
Web Admin Hacking Block Period	This setting time is the duration of blocking the access to Web admin if Web admin login fails.	5-60 minutes	5
Web Admin Hacking Block Email Notification	If this option is enable, System send the notification by email about blocking the web admin. The email address is following the below 'Alarm Receiver E-Mail Address(To) & Notification Receiver E-Mail Address(To)'.	Disable, Enable	Disable
RTP/SRTP SSRC filtering	It is used to remove noise by SSRC filtering. LIP phone could be lockup ifLIP-9002/9008/9008G version is lower than 1.2Aa when it is enable.	Disable, Enable	Disable
USB serialusage	It should be enabled when USB terminal is used. vUCP/eMG100 is not available for this feature.	Disable, Enable	Disable
Display Forward Reason	This option shows the forward reason and the original station number for external call on the upper part of LCD by setting ON.The related PGM are as below: • The normal forward from Station to Station. • The value 'Attendant' is checked in 'DID/DISA Destination (167)'. • The type 'Attendant' is selected in 'CCR Table (228)'. • 'Reroute Destination' is selected 'Station' in 'Flexible DID Conversion (231)'.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Conference room expansion	If this option is set to ON, conference room no is increased. • OFF: Conference room 1~9 • ON:Conference room 1-100(eMG80/100), Conference room 1-200(eMG800,UCP)	OFF ON	OFF
SLT conference hook switch time	It is used to make conference call on SLT. User has to make hook flash two times within this time.	2 – 9	AUS,NZ: 3 Others: 2
IPDECT Message Server Port	This port is used to send/receive message with IPDECT. Setting must be changed in IPDECT Base.	0, 1024- 65535	0(Unused)
XSI Service Port	This port is used to search directory through Braodsoft XSI(Extended service interface) protocol Setting must be changed in IPDECT Base.	0, 1024- 65535	0(Unused, Web Reload)
ICM Hold Preference	Depression of the [Hold] button during ICM call places the call on the preferred hold, System or Exclusive.	System/ Exclusive	Exclusive
DTMF across the Page - Usage	This is for Telephone event of DTMF sending and ACK functionalit during a Page. DTMF functionalit flow: A Page caller can send DTMF to Paged end points. A Paged end point can send DTMF ACK to Page caller. The Page is stopped and a confirm tone or announcement is played to the Page caller.	Disable Enable	Disable
DTMF across the Page - DTMF ACK codes	DTMF ACK digit codes programmed for comparision.	[empty], 0- 9, *, #	[empty]
DTMF across the Page - DTMF ACK functionality	Selection of following action after receiving of DTMF ACK digit string.	No action, Disconnect Page followed by Confirm Tone, Disconnect Page followed by Announce ment	No action
DTMF across the Page - DTMF following Announcement	DVU Announcement number that is used for DTMF ACK following action.	[empty], 1- 200	[empty]
SMDR/ACD/Alarm Mail Attribute			
	Common SMTP Attributes		
SMTP Server IP Address	SMTP server IPv4 address to receive the SMDR E-mail reports.	12-digits	0.0.0.0

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SMTP Server Domain Address	SMTP Mail server Domain address to receive the SMDR e-mail		
SMTP Port	reports.Check DNS IP address setting. This field defines the TCP/IP port that the system will employ when communicating with the SMTP E-mail server.(It is moved to web admin PGM 160-161)	1-65535	25
SMTP Security Connection	The system can support basic security policies when communicating with the SMTP E-mail server. Note the server must also be configured for the selected security protocol. No security, SSL, TLS	Refer to description	No security
E-Mail Account	This field defines the user's ID for SMTP server. If the user's ID and password is assigned, SMTP server will check the validity of the user ID and password.	Max.64char acters	
E-Mail Account Password	This field defines the user's password for SMTP server. If the user's ID and password is assigned, SMTP Mail server will check the validity of user ID and password.	Max.64 characters	
Sender E-Mail Address (From)	E-Mail address used by the system as the "From" address when sending Database, SMDR, ACD, and Alarm reports.	Max.64char acters	
Sender System Domain Name	Domain name of SMTP Mail server to receive SMDR reports. This field is used in place of SMTP Mail Server IP Address above.	Max. 18 characters	
	Database Attributes [Send Mail]		
[S	end Mail] button is used for sending the mail after filling out the be	elow menu	
Database Mail Send Monthly Set	Sets day of month for Database to be sent on a monthly basis (NA for no monthly reports, select the day for 1 or 15).	NA/ 1/ 15	NA
Database Mail Send Weekly Set	Sets day of week to send Database weekly.	Day-of week	N/A
Database Type	Select the desired database type: All database, System speed, Station speed, LCR, etc.		All Database
Database Receiver Mail Address	E-mail address to receive the Database E-mail reports.	Max. 64 characters	
	SMDR Attributes		
[S	end Mail] button is used for sending the mail after filling out the be	elow menu	
SMDR Mail Send Weekly Set	Sets day of week to send SMDR data weekly.	NA, Monday to Sunday	N/A
SMDR Mail Send Daily Set	Sets time-of-day for SMDR data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day).	00-23	
SMDR Mail Auto Send Set	If the SMDR buffer is full, the system can automatically send a notification by E-mail.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SMDR Mail Auto Delete Set	Delete SMDR records after sending E-mail.	OFF ON	OFF
SMDR Receiver Mail Address	E-mail address to receive the ACD E-mail reports.	Max.64char acters	
	ACD Attributes		
[S	end Mail] button is used for sending the mail after filling out the be	low menu	
ACD Mail Send Weekly Set	Sets day of week to send ACD statistic data weekly.	NA, Monday to Sunday	N/A
ACD Mail Send Daily Set	Sets time-of-day for ACD statistic data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day).	00-23	N/A
ACD Database Delete After Mail Send	Delete ACD statistic data after sending E-mail	OFF ON	OFF
ACD Receiver Mail Address	E-mail address to receive the ACD E-mail reports.	Max.64char acters	
	Alarm Attributes		
[S	end Mail] button is used for sending the mail after filling out the be	low menu	
Alarm Receiver E-Mail Address(To) & Notification Receiver E-Mail Address(To)	The system will send email to saved E-Mail Address when system alarm is occurred or system restarts and UCP System sends the information by email when changing to ACT mode during Redundancy.	Max.64char acters	
	L DAD Overvey On this year		
Server Display Name	When the UCS Client requires access to an LDAP server, the system will provide the LDAP server information to the client. The server name is defined in this field.	15 characters	LDAP Server
Server IP	When an LDAP server is employed, the IP address of the server must be defined.		0.0.0.0
Server Port	When an LDAP server is employed, the TCP/IP port of the server must be defined.	0001- 65535	
Require Login	The UCS Client ID and Password may be required for log in to the LDAP server.	OFF ON	ON
Use SSL	When supported by the server, the client can employ SSL (Secure Sockets Layer) for added security.	OFF ON	OFF
Search Base	Server base means Search option. You can get the search option from LDAP Server manager. For example, if OU (Organization Unit) is OC and DC (Directory Company) are ucapp and com, you can give the option "OU=OC, DC=ucapp, DC=com" in this field. You will get the desired directory.	Max. 100 characters	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LDAP User ID			
LDAP User	ID and Password must be required to connect to LDAP Server.	All	
Password		characters	
	Resource Monitoring		
Resource monitor	ing is a software function to log the over usage events of some CF	PU resources	. This
function is implem	nented to find out the root cause of unwanted system reboot by hig	h CPU load.	The log data
by resource monit	toring is built in system DB file and checked by using maintenance	CLI 'smblog	view'.
Resource		OFF	
Monitoring	This option determines whether to turn on/off a function.	ON	OFF
Process		ON	
	This value specifies an interval time of event log when same		
Event Log	event is detected consecutively. The purpose is to avoid CPU	10-3600sec	60
Interval Time	overhead from logging events frequently. A minimum value can	10-30005ec	00
	be programmed is 10 seconds.		
Reboot on	By software bug, file open leak problem can happen and user		
Detecting	can't connect to web page or system can't work correctly if this	OFF	OFF
because of File	type of leak happens, System will be rebooted if this field is	ON	OFF
Open Overflow	configured to ON after log event.		
Reboot on			
Detecting	The existency will usbe set by itself when meaning over your	OFF	
because of	The system will reboot by itself when memory over usage	OFF	OFF
Memory Usage	happens. Up to now this function is not implemented.	ON	
Overflow			
Free Memory	This value specifies a threshold value to detect memory leakage	KB, 1-	4096
Threshold	event.	65535	4096
Reboot on			
Detecting	The system will reboot by itself when CPU over usage happens.	OFF	OFF
because of CPU	Up to now this function is not implemented.	ON	OFF
Usage Overflow			
CPU Usage	This value specifies the threshold value to detect CPU		95
Threshold	overusage event.		90
Reboot on			
Detecting	The system will reboot by itself when a busy network usage		
because of	(receiving side) happens. Up to now this function is not		OFF
Network Busy	implemented.		
Traffic			
Received Packet	This value specifies the threshold value to detect the busy		
Count Threshold	Ethernet traffic (receiving side). The value is packets count per		40000
Count The Shoid	second.		
	This value specifies the threshold value to detect the busy		
Received Octet	Ethernet traffic (receiving side). The value is bytes count per		0
Count Threshold	second. When both Packet and Octet count values are		
	specified, packet count is used for detecting.		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
IPDECT	This port is used to cond/receive manage with IDDECT	1024-	
Message Server	Setting must be changed in IPDECT Base	65535,	
Port		0(Unused)	
	This port is used to search directory through Braodsoft	1024-	
XSI Service Port	XSI(Extended service interface) protocol	65535,	
	Setting must be changed in IPDECT Base.	0(Unused)	

4.4.5.2 Config Encryption

Passphrase is used for DB encryption. If the value is set, the private date in your system will be encrypted. Therefore even if the files which include private data are leaked, they cannot be read. When you don't want to this encryption feature, you have to set the passphrase to blank.

Note that, before the encryption, it is better backup your DB for emergency case and remember the passphrase. Otherwise, you cannot decrypt the system DB.

If the passphrase is assigned, the system DB which includes private data will be encrypted.

If the passphrase is lost, you cannot change it or decrypted system DBs,

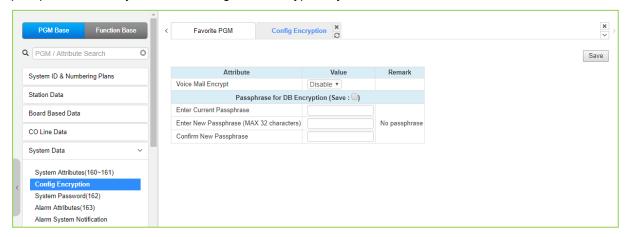


Figure 4.4.5.2-1 Config Encryption

Table 4.4.5.2-1 Config Encryption

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Voice Mail Encrypt	VM recording message (user message wait) is encrypted if it is ON. The e-mail attached file is not encrypted. so "Attach Message Option" in PGM127 should be OFF if user does not want to send unencrypted recording file. ON:VM recording file is encrypted. OFF: VM recording file is not encrypted.	OFF ON	OFF
Passphrase for DB Encryption	System DB that has personal information is encrypted if Passphrase is assigned. It could not be changed if Passphrase is lost (there is no way to change/remove it)	max 32 characters	Not assigned

4.4.5.3 System Password - PGM 162

Selecting System Password will display the System Password data entry page. Use the check boxes to indicate which attributes to modify; data for checked attributes is stored for the Keyset Admin, Remote Access Password, or CID password when saved.Click **[Save]** button after changing Value.

It is important to use strong password for lowering overall risks of a security breach. The best way to choose good password are designed to make passwords less easily discovered by intelligent guessing.

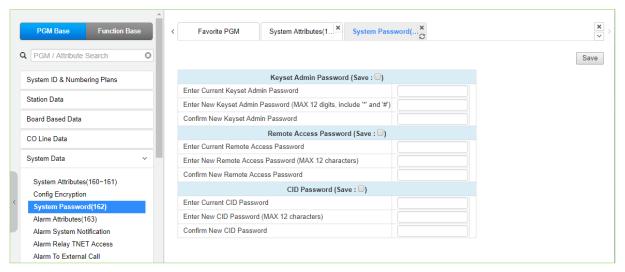


Figure 4.4.5.3-1 System Password

Access to the system database and maintenance functions can be protected by passwords up to twelve (12) digits. Three passwords can be defined, Keyset Admin, Remote Access and CID.

Check the save box and enter the password and click the save button.

The following success message is displayed if the password is correct and saved successfully.

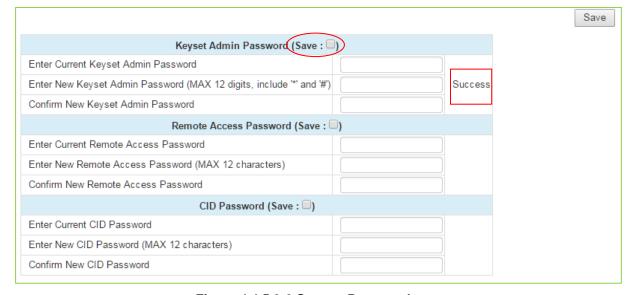


Figure 4.4.5.3-2 System Password

4.4.5.4 Alarm Attributes - PGM 163

Selecting Alarm Attributes will display the Alarm Attributes data entry page. Click **[Save]** button after changing Value.



Figure 4.4.5.4-1 Alarm Attributes

The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the external contact. For the Alarm, the signal to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates. Refer to Table 4.4.5.3-1 for a description of the features and the data entries required for each attribute.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Alama Enable	This cutur, and her dischlar the contest monitoring circuitm.	OFF	OFF
Alarm Enable	This entry enables/disables the contact monitoring circuitry.	ON	OFF
Alarm Contact	This parameter establishes the contact state that will activate the	Close/	Class
Туре	Alarm, close or open.	Open	Close
Alarm Mode	The contact can be treated to function as a doorbell or an alarm.	Alarm/	Alarm
Alami Mode		Door-Bell	Alailli
Alarm Signal	The assigned stations will receive a Repeating signal or single	Repeat/	Popost
Mode	burst (Once) of alarm tone.	Once	Repeat
	In case of eMG100/UCP600/2400, {Alarm 1 Display} and {Alarm		
Alarm 1 Display	2 Display} are added. Otherwise, {Alarm Display} is added.		
	When alarm port 1 is activated, the string of {Alarm 1 Display} or		
	{Alarm Display} is displayed in assigned stations.		
Alarm 2 Display	When alarm port 2 is activated, the string of {Alarm 2 Display} is		
	displayed in assigned stations.(eMG100/UCP600/2400)		

Table 4.4.5.4-1 Alarm Attributes

4.4.5.5 Alarm System Notification

Selecting Alarm Attributes will display the Alarm Notify Condition data entry page. Click [Save] button after changing Value. Alarm signal is provided to internal/external/e-mail/page.

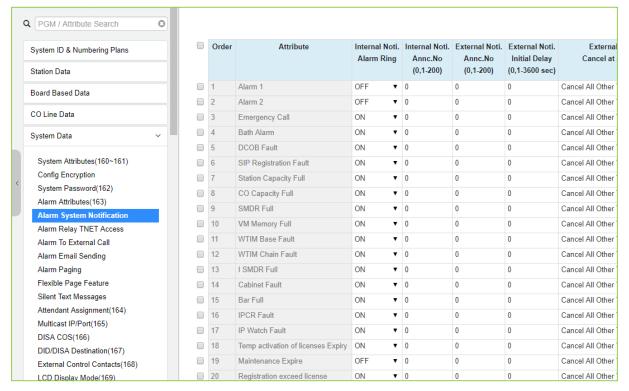


Figure 4.4.5.5-1 Alarm System Notification

System Notification			
Emergency Call Notify	This entry enables/disables the Emergency call notification.		
DCOB Fault Notify	This entry enables/disables DCOB Fault notification.		
SIP Registration Fault Notify	This entry enables/disables SIP Registration Fault notification.		
Station Capacity Full Notify	This entry enables user to get the notification as alarm when Station Capacity is over the capacity.		
CO Capacity Full Notify	This entry enables user to get the notification as alarm when CO Capacity is over the capacity.		
SMDR Full Notify	This entry enables user to get the notification as alarm when SMDR is over the capacity.		
VM Memory Full Notify	This entry enables user to get the notification as alarm when the memory of Voice Mail is full.		
WTIM (WTIB) Base Fault Notify	This entry enables user to get the notification as alarm when WTIM (WTIB) base gets the fault.		
WTIM (WTIB) Chain	This entry enables user to get the notification as alarm when WTIM (WTIB) chain		
Fault Notify	gets the fault.		
I SMDR Full Notify	This entry enables user to get the notification as alarm when I SMDR is over the capacity.		
Cabinet Fault Notify	This entry enables user to get the notification as alarm when the cabinet has fault only for eMG800 & UCP.		
Bar Full Notify	This entry enables user to get the notification as alarm when Bar is full.		
IPCR Fault Notify	This entry enables user to get the notification as alarm when IPCR gets the fault.		
IP Watch Fault Notify	This entry enables user to get the notification as alarm when IP Watch has fault only for eMG800 & UCP.		
Bath Alarm Notify	This entry enables user to get the notification as alarm about Bath Alarm.		
Temp activation of all license Expiry Notify	This entry enables user to get the notification as alarm before Temp activation of all license expires.		
Maintenance Expire Notify	This entry enables user to get the notification as alarm before Maintenance license expires.		
Excessive Registration over license Notify	This entry enables user to get the notification as alarm in case of the excessive registration over License.		
Geo-Slave/Survival Mode (T-NET LCM) Expire Notify	This entry enables user to get the notification as alarm before Geographical slave/Survival mode (T-NET LCM) license expires.		
TAPI Disconnected Notify	This entry enables user to get the notification as alarm when TAPI is disconnected.		
Mitel PMS Link Down Notify	This entry enables user to get the notification as alarm when Mitel PMS links down.		
UCS Server Link Down	UCS Server is disconnected		
PUSH Server Link Down	PUSH Server is disconnected		
System Act on Slave	Alarm Notification on CPU Redundancy is Act on Slave UCP • Slave/Act - Slave UCP Activated : Alarm and Email • Master/Act - Master UCP Activated : Email		

WEB API SMDR Full	This entry enables user to get the notification as alarm when WEB API SMDR is
WED ALTOWDICT dil	over the capacity.
Timeslot Full	This entry enables user to get the notification as alarm when timeslot is full on
TITIESIOL FUII	eMG800.

Below alarm notify condition can be set for each alarm type.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Internal Noti. Alarm Ring	Alarm ring to alarm ring enabled stations. Alarm enabled stations: system-attendant, Alarm / Door Bell Enabled Stations, Emergency Call Notification Stations, DCOB Fault Notify Station, Stations who have Alarm Ring Coverage button(s) Alarm coverage button assignment: [Trans/PGM] + Flex button + 76 + ## + Alarm Type(0-22) Alarm Type: All(0), Emergency(1), DCO Fault(2), SIP Reg Fail(3), BATH(4), DOOR-Bell(5), Alarm-Bell(6), Station Overflow(7),CO Overflow(8), SMDR(9), VM FULL(10), WTIM Base fail(11), WTIM Chain fail(12), I-SMDR full(13), CABINET alarm(14), BAR full(15), IPCR fault(16), IPWATCH fail(17), Temp License Expire(18), License Expire(19), License Overflow(20),TNET License Expire(21), TAPI fail(22), PMS fail(23)	ON/OFF	ON
Internal Noti. Alarm Ring	To stop an alarm: alarm stop is supported only by alarm ringing station or external called party after answer. So, at least one of station for alarm internal ring needed to be assigned and "Internal Noti. Alarm Ring = ON" is strongly suggested currently • By dial "alarm reset" code on a station who has the alarm ring • By press "stop" soft button on a station who has the alarm ring • By press "alarm coverage" button and select '1(me)/0(all)' on a station who has the alarm ring • By dial [alarm reset code] by external party after answer the alarm ring	ON/OFF	ON
Internal Noti.Annc No.	Play & Repeat VSF announcement when a station answers an alarm-to-internal ring. 0(not assign), 1-200	Refer to description	0
External Noti. Annc No.	Play & Repeat VSF announcement when an external party answers an alarm-to-external ring Even without a valid announcement, external ring is implemented. 0(not assign), 1-200	Refer to description	0
External Noti. Initial Delay	Duration of delay before external ring starts 0(immediate), 1-3600 sec	Refer to description	0

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
External Noti. Cancel at Answer	 Option to cancel simultaneous ring or cancel on-going failover scenario when an external party answers the alarm ring Do not Cancel Other Trying Calls: leave all of on-going ring or retying calls Cancel All Other Trying Calls: cancel all of on-going ring or retying calls except answered calls Cancel All Except Prior Trying: cancel all except on-going ring or retying calls in prior Priority and answered calls 	Refer to description	Cancel all other trying calls
External Noti.Next Prio. On Failover	Option for condition to start of failover scenario to next priority (from 0 to 9) • Immediately Go To Next: immediately implement next(less) priority at first busy/error/unanswered status of previous(prior) calls • After Retry All Counts: implement next(less) priority after previous(prior) calls are all (re)tried and stopped by failure(busy/error/unanswered).	Refer to description	Immediate ly go to next
External Noti.Next Prio. On Answer	Normally failover scenario is not implemented anymore if anybody answers the alarm ring.But if this timer is set(1-3600 sec.) then failover scenario is started/resumed after this duration even after somebody answers the alarm ring. 0(immediate) , 1-3600 sec	Refer to description	0
Page Noti. Annc No.	Play & Repeat VSF announcement to page group(s) Without a valid announcement, paging is not implemented 0(not assign), 1-200	Refer to description	0
Page Noti. Initial Delay	Duration of delay before paging starts 0(immediate), 1-3600 sec	Refer to description	0
Page Noti. Page Urgency Level	'0' is highest and '255' is lowest level Privilege to override other on-going page Case 1) page group busy - If page group is occupied by other paging, higher level page will override the lower page, so the previous on-going page will be stopped Case 2) page member busy - If a station is receiving a lower paging then it is overrided by a higher level paging, so the station will hear new paging Emergency, SoS pages are fixed to level '0' Normal page are fixed to level '255' Alarm page are programmable from level '0' to '255'	0-255	0
Page Noti. Override By Urgency	Override paging call only or override all calls. Override paged call only/ Override all calls	Refer to description	Override paged call only
Page Noti. Override DND	Override DND/Pre-selected-msg. status of a station	ON/OFF	OFF
Page Noti. Page Repeat Count	Repeat count of paging Total Play count : default(1) + repeat count(0-99)	0-99	2

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Page Noti. Page Repeat Interval	Interval of paging repeat	0-255	10
Page Noti. Annc Repeat Count	Repeat count play announce per one repeat of paging Total Play count : default(1) + repeat count(0-99)	0-99	2
Page Noti. Next Prio. on Failover	Option for condition to start of failover scenario to next priority (from 0 to 39) Immediately Go To Next: immediately implement next(less) priority at first busy status of previous(prior) paging After Retry All Counts: implement next(less) priority after previous(prior) paging are all (re)tried and stopped by failure(busy)	Refer to description	Immediate ly go to next
"	Normally failover scenario is not implemented anymore if a page to a group is played to external page or listened by at least one station internally. But if this timer is set(1-3600 sec.) then failover scenario is started/resumed after this duration even after paging is done successfully. 0(immediate), 1-3600 sec	Refer to description	0

4.4.5.6 Alarm Relay TNET Access

Selecting Alarm – External Relay Control will display the following page. Click **[Save]** button after changing Value.



Figure 4.4.5.6-1 Alarm Relay TNET Access

By associating an alarm type with an external relay port, system can control an external circuit connected to the relay. The association will create a hardwired signaling externally when an alarm condition is initiated.

Operation

1) Assign Target system of T-NET including my system.<Alarm – External Relay Control>

	Alarm Port1	Alarm Port2	Emergency Call	DCO Fault	
My System	On/Off	On/Off	On/Off	On/Off	On/Off
CM	On/Off	On/Off	On/Off	On/Off	On/Off
LM 1	On/Off	On/Off	On/Off	On/Off	On/Off
LM 2					
LM 3					

2) Set usage to 'Alarm' for external control contact port(s) and mark alarm types for association <External Control Contacts (168)><T-NET Control Contact (334)>

association. <external (168)="" contacts="" control=""><1-NET Control Contact (334)></external>	
External Control Contact	Usage
	(x) Unused
	(x) LBC
	(x) Door Open
	(x) External Control Device 1
First	(x) External Control Device 2
	(O) Alarm
	[Mark]
	Alarm Port 1, Alarm Port 2
	911, DCO, SIO, STA, CO,STA, CO,
Second	
Third	
Fourth	

4.4.5.7 Alarm To External Call

Selecting Alarm External Destinationwill display the following page. Click [Save] button after hanging Value.

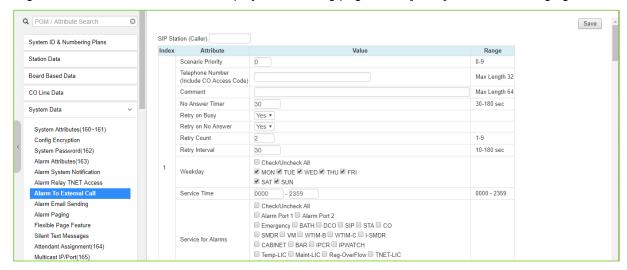


Figure 4.4.5.7-1 Alarm To External Call

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SIP Station (Caller)	 Registration of a Third Party SIP Extension > License: "Third Party SIP Extension" It is a virtual Extension without a physical phone New Registration Refer to "Flexible Station Number (P.105)" and get an unused Station Number Input the Station Number to "SIP Station (Caller)" and press [Save] A new Third Party SIP Extension will be registered automatically Replace of an exist Third Party SIP Extension Refer to "Device IP Plan (P.103)" and get an used Third Party SIP Station Number Input the Station Number to "SIP Station (Caller)" and press [Save] The Third Party SIP Extension will be re-registered as a virtual Extension mode automatically Delete the virtual Third Party SIP Extension Empty the "SIP Station (Caller)" and press [Save] The Third Party SIP Extension will be automatically removed from system Replace of the previous virtual Third Party SIP Extension Input different Station number in the "SIP Station (Caller)" and press [Save] The previous Third Party SIP Extension will be removed from system automatically and the input is (re)registered as the virtual Third Party SIP Extension automatically. 	Station Number	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	'0' is highest, '9' is lowest priority		
Scenario	For single destination: anything of 0-9 (meaningless)	0-9	0
Priority	For multiple destinations for simultaneous ring : same priority value	0 is highest	U
	For failover (busy/error/unanswered) scenario : different priority		
Telephone	Mandatory input	Max.32	
Number	Without this, no service	character	
Comment	Just for memorization by naming	Max.64	
Comment	Just for memorization by naming	character	
No Answer	Unanswered duration of the external call, after this timer the	30-180	20
Timer	external is disconnected if not answered	second	30
	Retry to make the external call if calling is disconnected by busy	Yes No	Yes
Retry on Busy	cause. If called party system serves 'busy prompt' after connect the		
	call, it is not regarded as busy cause but is regarded as answered.		
Retry on No	Retry to make the external call if call is disconnected after 'No	Yes	Yes
Answer	Answer Timer'.	No	res
Retry Count	Additional to first trial, system will try to make call till this count on	1-9	2
Relly Count	fail (busy/error/unanswered) condition.	1-9	2
Retry Interval	Pausa duration par a ratrial	30-180	30
Relly Illerval	Pause duration per a retrial	second	
Maakday	Monday to Sunday	Refer to	All
Weekday	AII, MON, TUE, WED, THU, FRI, SAT, SUN	description	All
Service Time	'start time' to 'end time' (start time can be bigger than end time, etc.	0000-2359	0000-2359
	2300 - 0559)	0000-2359	0000-2359
Service for Alarms	Selection of alarm types to serve by this table		
	Mandatory input		
	Without selection of an alarm type, the alarm type is served		

4.4.5.8 Alarm Email Sending

Selecting Alarm EmailDestinationwill display the following page. Click [Save] button after hanging Value.

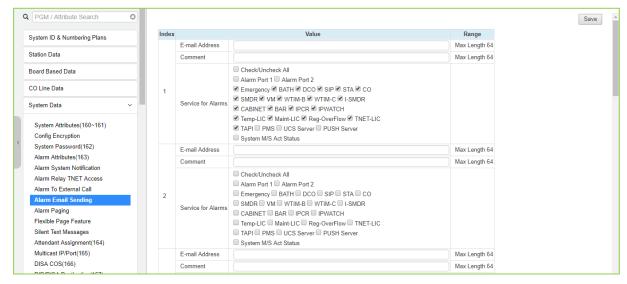


Figure 4.4.5.8-1 Alarm Email Sending

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
E-mail Address	Mandatory input	0-9	0
L-mail Address	Without this, no service	0 is highest	O
Comment	Just for memorization by naming	Max.64	
		character	
Service for Alarms	Selection of alarm types to serve by this table		
	Mandatory input		
	Without selection of an alarm type, the alarm type is served		

4.4.5.9 Alarm Paging

Selecting Alarm PagingDestinationwill display the following page. Click [Save] button after hanging Value.

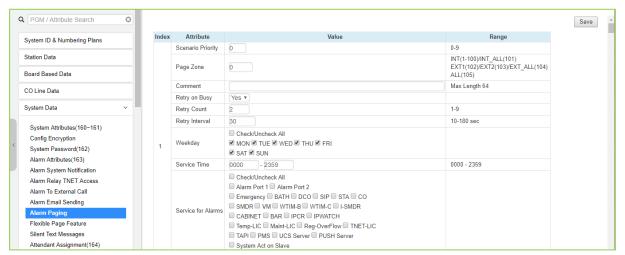


Figure 4.4.5.9-1 Alarm Paging Table 4.4.5.9-1 Alarm Paging

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Scenario Priority	'0' is highest, '39' is lowest priority For single destination:anything of 0-39 (meaningless) For multiple destinations for simultaneous paging: same priority value For failover (busy) scenario: different priority	0-9 0 is highest	0
Page zone	Mandatory input Without this, no service 0 (not assign), INT(1-100), INT_ALL(101), EXT1(102), EXT2(103), EXT_ALL(104), ALL(105)	Refer to description	0
Comment	Just for memorization by naming	Max.64 character	
Retry on Busy	Retry to make paging If page group is occupied by other paging. Or, all of page receiving member stations are not on valid state to receive page	Yes No	Yes
Retry Count	Additional to first trial, system will try to make paging till this count		2
Retry Interval	Pause duration per a retrial	30-180 second	30
Weekday	Monday to Sunday All, MON, TUE, WED, THU, FRI, SAT, SUN	Refer to description	All
Service Time	'start time' to 'end time' (start time can be bigger than end time, etc. 2300 - 0559)	0000-2359	0000- 2359
Service for Alarms	Selection of alarm types to serve by this table Mandatory input. Without selection of an alarm type, the alarm type is served		

4.4.5.10 Flexible Page Feature

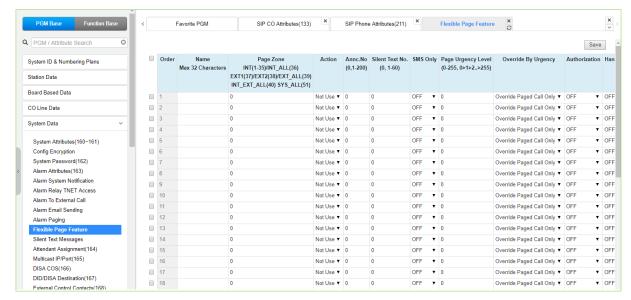


Figure 4.4.5.10-1 Flexible Page Feature

Table 4.4.5.10-1 Flexible Page Feature

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Name	Subject (Identity) of the Page that is used for display of Paging on paged station.	Max.32 character	
Page zone	Page zone is page group number. It is mandatory attributes to be a valid page code. Range of each System as below • eMG80/100: INT(1-35) / INT_ALL(36) / EXT1(37) / EXT2(38) / EXT_ALL(39) / INT_EXT_ALL(40) / SYS_ALL(51) • eMG800/UCP: INT(1-100) / INT_ALL(101) / EXT1(102) / EXT2(103) / EXT_ALL(104) / INT_EXT_ALL(105) / SYS_ALL(106)	0 (not assign)/ Refer to the Description	0
Action	Actionis page source. It is mandatory attributes to be a valid page code. Not Use, Live Voice, Announce Play, Silent Message	Refer to the Description	Not Use
Annc. No	It is announcementplay related attribute. Annc. Nois system announcement # recorded.	0,1-200	0
Silent Text No.	It is silent message related attributes. Silent Text No. is index # of silent text messages.	0,1-60	0
SMS Only	It is silent message related attributes. It sends both of Paging and SMS or send SMS only.	OFF ON	OFF
Maintain Text Display	It is used to maintain display of silent text paged forever till meet any of user's physical action.	OFF ON	OFF
Page Urgency Level	It is common attributes. Page Urgency Levelis resolution for conflict of page zone# between on-going pages and making page with higher level urgency overrides on-going page with lower level urgency.	0-255 0 is highest	0

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Override By Urgency	It is common attributes and emergency oriented attribute. Override Paged Call Only, Override All Call Only	Refer to the Description	Override Paged Call Only
Authorization	It is common attributes. It ask station password before paging.	OFF ON	OFF
Hands Free	It is live voice related attributes. It asks handset off-hook before paging.	OFF ON	OFF
Page Repeat Count	It is announce play related attributes. How many times to repeat the announce page.	0-99	0
Page Repeat Interval	It is announce play related attributes. Pause interval between the page repeat counting.	5-255(sec)	5
Annc. Repeat Count	It is announce play related attributes. How many times to repeat play of announcement at one repeat of announce page.	0-99	0
Do Not Prompt Paging EXT	It is used to do not play "extension XXX" in front of a flexible announce play pageprompt.	OFF ON	OFF
ANNC Play Start Delay	A safety time to give a wait for voice path connection between devices before start of playing announcement. This is used to guard full audible playing of announcement. If you need immediate start of playing announcement right after user input then set this time to '0'.	0-5(sec)	3

4.4.5.11 Silent Text Messages

Pre-defined silent text messages to serve by SMS sending when user conduct a Silent Paging. 60 messages in System Data > Silent Text Messages.

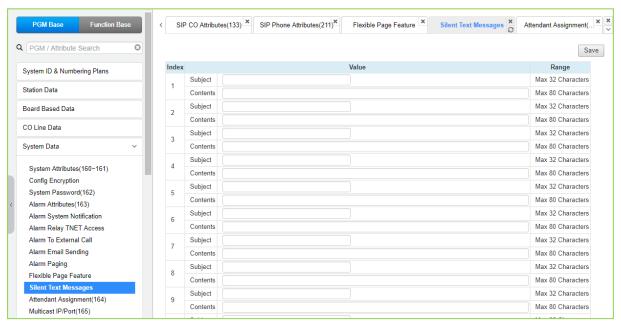


Figure 4.4.5.11-1 Silent Text Messages

	<u> </u>		
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Subject	Normally, just dummy(not used). Backup for 'Name' of Page (Used instead of 'Name' of the Flexible Page if it is empty). Backup for 'Contents' (Used instead of 'Contents' of a Silent Text message if it is empty).	Max. 32 character	
Contents	Used for SMS message.	Max. 80 character	

Table 4.4.5.11-1 Silent Text Messages

4.4.5.12 Attendant Assignment - PGM 164

Selecting Attendant Assignment will display the Attendant Assignment data entry page. Click **[Save]** button after changing Value.

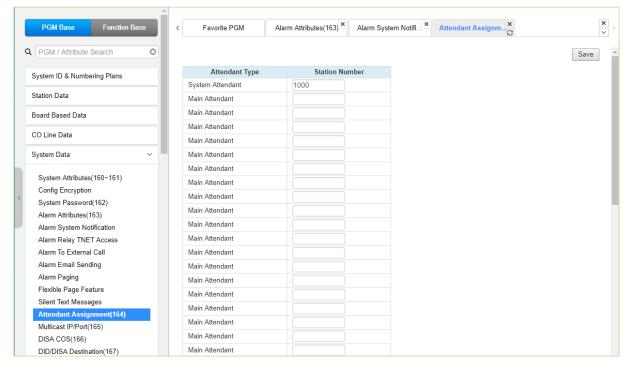


Figure 4.4.5.12-1 Attendant Assignment

The eMG80/100 is consist of 1 System attendant and 3 Main attendant. eMG800 is consist of 1 System attendant and 4 Main attendant. UCP is consist of 1 System attendant and 49 Main attendant.

The System Attendant has higher priority in call handling and system management functions. As a default, the System Attendant is assigned Station 100 for eMG80/100& Station 1000 for eMG800/UCP. Main Attendants are not assigned by default.

4.4.5.13 Multi-cast IP/Port - PGM 165

Selecting Multi-cast IP/Port will display the Multi-cast IP/Port data entry page.Click **[Save]** button after changing Value.

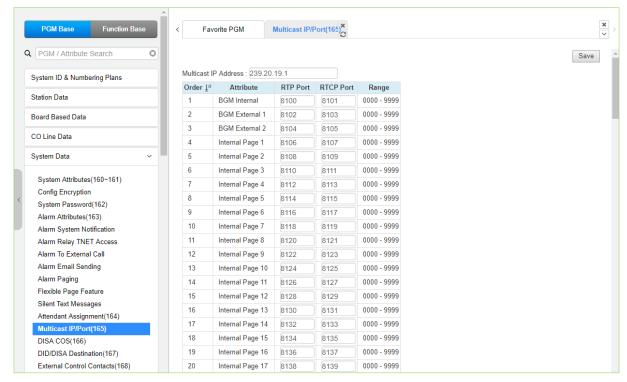


Figure 4.4.5.13-1 Multi-cast IP/Port

Multi-cast is employed by the system to send BGM, MOH, paging and Push-To-Talk packets.

Employing a single multi-cast packet reduces the overall LAN traffic. In some cases, specifically when multiple systems are connected to the same default gateway (router) it may be advantageous to define different IP ports for each system.

14510 4110110 10111000/1001110211 0/101 11/1 011				
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
BGM Internal	RTP and RTCP ports for internal BGM.	0000-9999	8100 (8101)	
BGM External 1	RTP and RTCP ports for external BGM 1.	0000-9999	8102 (8103)	
BGM External 2	RTP and RTCP ports for external BGM 1.	0000-9999	8104 (8105)	
Internal Page 1	RTP and RTCP ports for Internal Page 1.	0000-9999	8106 (8107)	
Internal Page 2	RTP and RTCP ports for Internal Page 2.	0000-9999	8108 (8109)	
Internal Page 3	RTP and RTCP ports for Internal Page 3.	0000-9999	8110 (8111)	
Internal Page 4	RTP and RTCP ports for Internal Page 4.	0000-9999	8112 (8113)	

Table 4.4.5.13-1eMG80/100MULTI-CAST IP/Port

Table 4.4.5.13-1eMG80/100MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Internal Page 5	RTP and RTCP ports for Internal Page 5.	0000-9999	8114 (8115)
Internal Page 6	RTP and RTCP ports for Internal Page 6.	0000-9999	8116 (8117)
Internal Page 7	RTP and RTCP ports for Internal Page 7.	0000-9999	8118 (8119)
Internal Page 8	RTP and RTCP ports for Internal Page 8.	0000-9999	8120 (8121)
Internal Page 9	RTP and RTCP ports for Internal Page 9.	0000-9999	8122 (8123)
Internal Page 10	RTP and RTCP ports for Internal Page 10.	0000-9999	8124 (8125)
Internal Page 11	RTP and RTCP ports for Internal Page 11.	0000-9999	8126 (8127)
Internal Page 12	RTP and RTCP ports for Internal Page 12.	0000-9999	8128 (8129)
Internal Page 13	RTP and RTCP ports for Internal Page 13.	0000-9999	8130 (8131)
Internal Page 14	RTP and RTCP ports for Internal Page 14.	0000-9999	8132 (8133)
Internal Page 15	RTP and RTCP ports for Internal Page 15.	0000-9999	8134 (8135)
Internal Page 16	RTP and RTCP ports for Internal Page 16.	0000-9999	8136 (8137)
Internal Page 17	RTP and RTCP ports for Internal Page 17.	0000-9999	8138 (8139)
Internal Page 18	RTP and RTCP ports for Internal Page 18.	0000-9999	8140 (8141)
Internal Page 19	RTP and RTCP ports for Internal Page 19.	0000-9999	8142 (8143)
Internal Page 20	RTP and RTCP ports for Internal Page 20.	0000-9999	8144 (8145)
Internal Page 21	RTP and RTCP ports for Internal Page 21.	0000-9999	8146 (8147)
Internal Page 22	RTP and RTCP ports for Internal Page 22.	0000-999	8148 (8149)
Internal Page 23	RTP and RTCP ports for Internal Page 23.	0000-9999	8150 (8151)
Internal Page 24	RTP and RTCP ports for Internal Page 24.	0000-9999	8152 (8153)
Internal Page 25	RTP and RTCP ports for Internal Page 25.	0000-9999	8154 (8155)

Table 4.4.5.13-1eMG80/100MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Internal Page 26	RTP and RTCP ports for Internal Page 26.	0000-9999	8156 (8157)
Internal Page 27	RTP and RTCP ports for Internal Page 27	0000-9999	8158 (8159)
Internal Page 28	RTP and RTCP ports for Internal Page 28	0000-9999	8160 (8161)
Internal Page 29	RTP and RTCP ports for Internal Page 29	0000-9999	8162 (8163)
Internal Page 30	RTP and RTCP ports for Internal Page 30	0000-9999	8164 (8165)
Internal Page 31	RTP and RTCP ports for Internal Page 31	0000-9999	8166 (8167)
Internal Page 32	RTP and RTCP ports for Internal Page 32	0000-9999	8168 (8169)
Internal Page 33	RTP and RTCP ports for Internal Page 33	0000-9999	8170 (8171)
Internal Page 34	RTP and RTCP ports for Internal Page 34	0000-9999	8172 (8173)
Internal Page 35	RTP and RTCP ports for Internal Page 35	0000-9999	8174 (8175)
Internal Page All	RTP and RTCP ports for Internal All Call Page	0000-9999	8176 (8177)
External Page 1	RTP and RTCP ports for External Page 1.	0000-9999	8178 (8179)
External Page 2	RTP and RTCP ports for External Page 2.	0000-9999	8180 (8181)
External Page All	RTP and RTCP ports for External All Call Page.	0000-9999	8182 (8183)
Page All	RTP and RTCP ports for All Call Page.	0000-9999	8184 (8185)
PTT 1	RTP and RTCP ports for PTT group 1.	0000-9999	8186 (8187)
PTT 2	RTP and RTCP ports for PTT group 2.	0000-9999	8188 (8189)
PTT 3	RTP and RTCP ports for PTT group 3.	0000-9999	8190 (8191)
PTT 4	RTP and RTCP ports for PTT group 4.	0000-9999	8192 (8193)
PTT 5	RTP and RTCP ports for PTT group 5.	0000-9999	8194 (8195)
PTT 6	RTP and RTCP ports for PTT group 6.	0000-9999	8196 (8197)

Table 4.4.5.13-1eMG80/100MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PTT 7	RTP and RTCP ports for PTT group 7.	0000-9999	8198
	Trana tror poits for FTT group 7.	0000-9999	(8199)
PTT 8	RTP and RTCP ports for PTT group 8.	0000-9999	8200
1110	Terr and terr ports for the group c.	0000 0000	(8201)
PTT 9	RTP and RTCP ports for PTT group 9.	0000-9999	8202
	Transfer pone for the group of	0000 0000	(8203)
PTT All	RTP and RTCP ports for PTT group ALL	0000-9999	8204
,	Terr and terr posterior in group / LE	0000 0000	(8205)
BGM Internal VSF	RTP and RTCP ports for VSF BGM	0000-9999	8206
Dom mornar voi	Terr and terror pone for you be m	0000 0000	(8207)
SLT MOH 1	RTP and RTCP ports for SLT MOH1	0000-9999	8208
021 M011 1	TYTT dild TYTOT porto for GET WOTT		(8209)
SLT MOH 2	RTP and RTCP ports for SLT MOH2	0000-9999	8210
021 M0112			(8211)
SLT MOH 3	RTP and RTCP ports for SLT MOH3	0000-9999	8212
021 M0110	Terr and terror pond to the terror	0000 0000	(8213)
SLT MOH 4	RTP and RTCP ports for SLT MOH4	0000-9999	8214
OLI MOTT	Terr and refer policies of the internal		(8215)
SLT MOH 5	RTP and RTCP ports for SLT MOH5	0000-9999	8216
OET MOTTO	Terr und terror porto for GET MOTIO		(8217)
VSF MOH2	RTP and RTCP ports for VSF MOH2	0000-9999	8218
VOI WOTIZ	Terr und terror porto for vor Moriz		(8219)
VSF MOH3	RTP and RTCP ports for VSF MOH3	0000-9999	8220
	Title and it for poins for voi morio		(8221)
VSF MOH4~30	RTP and RTCP ports for VSF MOH4~30	0000-9999	8222~8328
			(8223~8329)

Table 4.4.5.13-2eMG800 MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
BGM Internal	RTP and RTCP ports for internal BGM.	0000-9999	8100
DGW IIILEITIAI	KTF and KTCF ports for internal BGIVI.	0000-9999	(8101)
BGM External 1	RTP and RTCP ports for external BGM 1.	0000-9999	8102
DGIVI External 1	The and Kitch poils for external BGM 1.	0000-9999	(8103)
BGM External 2	RTP and RTCP ports for external BGM 1.	0000-9999	8104
DGIVI EXTERNAL Z			(8105)
Internal Page 1-100	RTP and RTCP ports for Internal Page 1.	0000-9999	8106-8304
internal rage 1-100			(8107-8305)
Internal Page All	RTP and RTCP ports for Internal All Call Page	0000-9999	8306
Internal Fage All			(8307)
External Page 1	RTP and RTCP ports for External Page 1.	0000-9999	8308
			(8309)
External Page 2	RTP and RTCP ports for External Page 2.	0000-9999	8310

Table 4.4.5.13-2eMG800 MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
			(8311)
External Dago All	PTD and PTCD parts for External All Call Page	0000-9999	8312
External Page All	RTP and RTCP ports for External All Call Page.	0000-9999	(8313)
Page All	RTP and RTCP ports for All Call Page.	0000-9999	8314
rage All	KTP and KTCP poils for All Call Page.	0000-9999	(8315)
PTT 1-9	DTD and DTCD parts for DTT group 1	0000 0000	8316-8332
F11 1-9	RTP and RTCP ports for PTT group 1.	0000-9999	(8317-8333)
PTT All	RTP and RTCP ports for PTT group ALL	0000-9999	8334
FITAII			(8335)
BGM Internal VSF	RTP and RTCP ports for VSF BGM	0000-9999	8336
DGW Internal VOI			(8337)
SLT MOH 1-5	RTP and RTCP ports for SLT MOH1	0000-9999	8338-8346
SET WOR 1-5			(8339-8347)
VSF MOH2-3	RTP and RTCP ports for VSF MOH2	0000-9999	8348-8350
VSF WONZ-3			(8349-8351)
VSE MOH4 20	RTP and RTCP ports for VSF MOH4~30	0000-9999	8352~8458
VSF MOH4~30			(8353~8459)

Table 4.4.5.13-3 UCP MULTI-CAST RTP/RTCP

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
BGM Internal	RTP and RTCP ports for internal BGM.	0000-9999	8100
	'		(8101)
BGM External 1	RTP and RTCP ports for external BGM 1.	0000-9999	8102
BOW External 1	Terriand terror ports for external bolin 1.	0000-9999	(8103)
DOME : LO	DTD IDTOD I (I I DOM (8104
BGM External 2	RTP and RTCP ports for external BGM 1.	0000-9999	(8105)
Internal Description	DTD and DTOD name for lateral Days 4	0000 0000	8106~8304
Internal Page 1 ~ Page 100	RTP and RTCP ports for Internal Page 1.	0000-9999	(8107~8305)
Laternal Danie All	DTD and DTOD and for lateral All Call Days	0000-9999	8306
Internal Page All	RTP and RTCP ports for Internal All Call Page		(8307)
E (anal Dana A	RTP and RTCP ports for External Page 1.	0000-9999	8308
External Page 1			(8309)
E / 1D 0	RTP and RTCP ports for External Page 2.	0000-9999	8310
External Page 2			(8311)
E tanal Dana All	RTP and RTCP ports for External All Call Page.	0000-9999	8312
External Page All			(8313)
B. A.II	RTP and RTCP ports for All Call Page.	0000-9999	8314
Page All			(8315)
DTT 4	DTD		8316
PTT 1	RTP and RTCP ports for PTT group 1.	0000-9999	(8317)
PTT 2	RTP and RTCP ports for PTT group 2.	0000-9999	8318
			(8319)

Table 4.4.5.13-3 UCP MULTI-CAST RTP/RTCP

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PTT 3	RTP and RTCP ports for PTT group 3.	0000-9999	8320 (8321)
PTT 4	RTP and RTCP ports for PTT group 4.	0000-9999	8322 (8323)
PTT 5	RTP and RTCP ports for PTT group 5.	0000-9999	8324 (8325)
PTT 6	RTP and RTCP ports for PTT group 6.	0000-9999	8326 (8327)
PTT 7	RTP and RTCP ports for PTT group 7.	0000-9999	8328 (8329)
PTT 8	RTP and RTCP ports for PTT group 8.	0000-9999	8330 (8331)
PTT 9	RTP and RTCP ports for PTT group 9.	0000-9999	8332 (8333)
PTT All	RTP and RTCP ports for PTT group ALL	0000-9999	8334 (8335)
BGM Internal VSF	RTP and RTCP ports for VSF BGM (VSF MOH)	0000-9999	8336 (8337)
SLT MOH 1	RTP and RTCP ports for SLT MOH1	0000-9999	8338 (8339)
SLT MOH 2	RTP and RTCP ports for SLT MOH2	0000-9999	8340 (8341)
SLT MOH 3	RTP and RTCP ports for SLT MOH3	0000-9999	8342 (8343)
SLT MOH 4	RTP and RTCP ports for SLT MOH4	0000-9999	8344 (8345)
SLT MOH 5	RTP and RTCP ports for SLT MOH5	0000-9999	8346 (8347)
VSF MOH2	RTP and RTCP ports for VSF MOH2	0000-9999	8348 (8349)
VSF MOH3	RTP and RTCP ports for VSF MOH3	0000-9999	8350 (8351)
VSF MOH4~30	RTP and RTCP ports for VSF MOH4~30	0000-9999	8352~8458 (8353~8459)

4.4.5.14 DISA COS - PGM 166

Selecting DISA COS will display the DISA COS data entry page. Click [Save] button after changing Value.

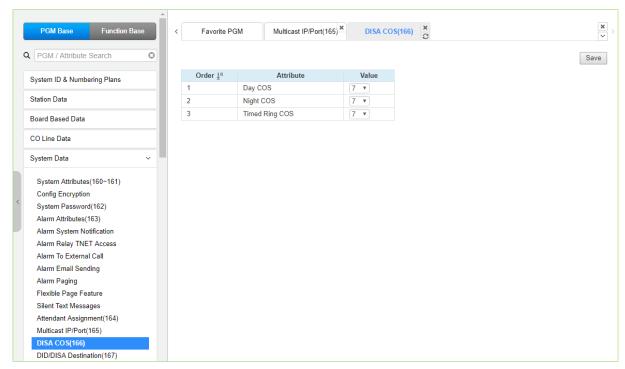


Figure 4.4.5.14-1 DISA COS

A DISA user is subject to the dialing restrictions assigned in the DISA Class-of-Service (COS). The restrictions applied are the same as with the corresponding Station COS levels 1~11 and interact with the CO/IP COS in the same manner. An assignment is made for Day, Timed and Night Ring mode of system operation. The default for all three modes (Day, Night, Timed ring) of DISA COS is 7, allowing internal calls only.

4.4.5.15 DID/DISA Destination - PGM 167

Selecting DID/DISA Destination displays the Tenant Group input page. Select Tenant Group, the system will display the DID/DISA Destination Attributes. Click **[Save]** button after changing Value.

Enter ICM Tenancy group: eMG80/100: 0-15 / eMG800: 0-32 / UCP: 0-100

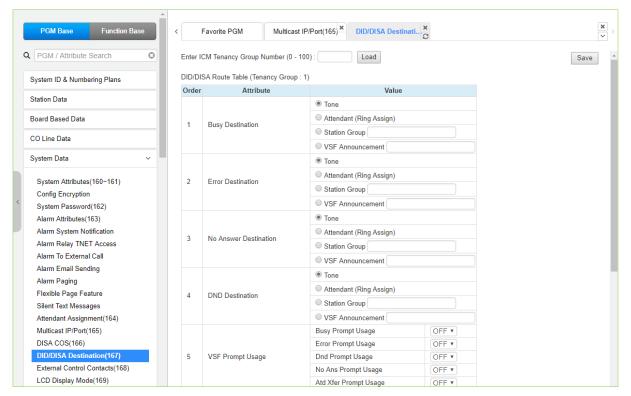


Figure 4.4.5.15-1 DID/DISA Destination

When a DID line or DISA user dials an invalid/vacant or busy station number the caller will be sent to the assigned destination that is selected according to the CO Tenancy group of the DID/DISA line.

The destination is separately defined for invalid, busy, and No Answer conditions and can be defined as the Attendant, busy tone, a Station Group or a VSF Announcement.

For calls on a DID line to a busy station, DID Call Wait can be assigned, refer to 'Common Attributes section', and the call will queue for the station for the No-Answer time. After the No-answer time, the call routes to the DID/DISA Destination unless forwarded.

Also, for DID calls only, announcements (prompts) can be sent from the VSF or UVM gateway (in case of UCP) to the caller for various conditions, busy, error, DND, No Answer, or Attendant Transfer.

4.4.5.16 External Control Contacts - PGM 168

Selecting External Control Contacts will display the External Control Contact data entry page. Click **[Save]** button after changing Value.

The number of External Control Contact: 2 (eMG80/100), 2 (eMG800), 4 (eMG100/UCP)

The vUCP is not available for this feature.

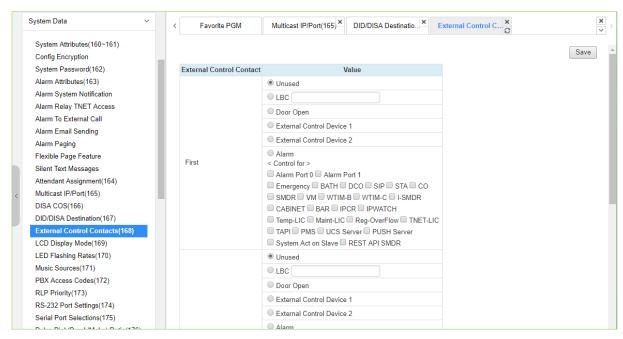


Figure 4.4.5.16-1 External Control Contact

The system includes a programmable contact, which can be used to control external devices. Refer to the table 'System capacity' for number of available contacts. Each contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station or group receives an external call. For LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UNA (Universal Night Answer) calls and will ignore any station assignment. The contact may alternatively activate as a Door Lock Release contact, when External Page Zone 1 is accessed or when External Page Zone 2 is accessed.

In case of setting Alarm, you can select the desired alarm type each contacts.

4.4.5.17 LCD Display Mode - PGM 169

Selecting LCD Display Mode will display the data entry page. Click [Save] button after changing Value.

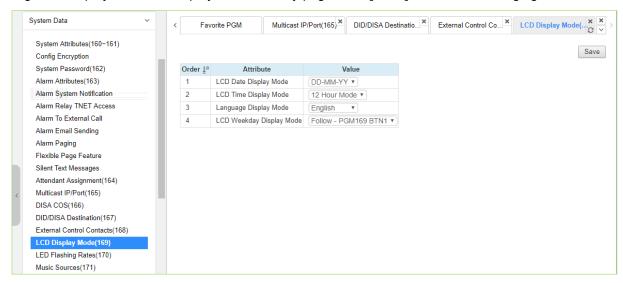


Figure 4.4.5.17-1 LCD Display Mode

The LCD display mode sets the time (12/24 hr.), date (day/month order) and language. Refer to Table 4.4.5.10-1 and Table 4.4.5.10-2 for a description of the modes and the data entries required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCD Date	Sets the Date display as month/day or day/month.	Refer to	DD-MM-
Display Mode	DD-MM-YY, MM-DD-YY	description	YY
LCD Time	Sets the Time display mode as 12 hour or 24-hour (military) time.	Refer to	12 Hour
Display Mode	12 Hour Mode, 24 Hour Mode	description	Mode
Language	Sets the Language used in the display; refer to Table 4.4.5.10-2		English
Display Mode	below.		English
LCD Weekday Display Mode	Sets the Day-of-Week (DoW) display mode: No DoWdisplay mm/dd/DoW,alpha month display, overrides setting of button 1above.display mm/dd/DoW, numeric month display, overrides setting of button 1 above. • Follow - PGM169 BTN1 • Type1(MM/DD WDY) • Type2(MM DD WDY)	Refer to description	Follow - PGM169 BTN1

Table 4.4.5.17-1 LCD DISPLAY MODES

Table 4.4.5.17-2 LCD LANGUAGE SELECTION

English	Swedish	German	Korean	Polish
Italian	Danish	French	Estonian	Greek
Finnish	Norwegian	Portuguese	Russian	Arabic
Dutch	Hebrew	Spanish	Turkish	

4.4.5.18 LED Flashing Rate - PGM 170

Selecting LED Flashing Rate will display the data entry page. Click [Save] button after changing Value.

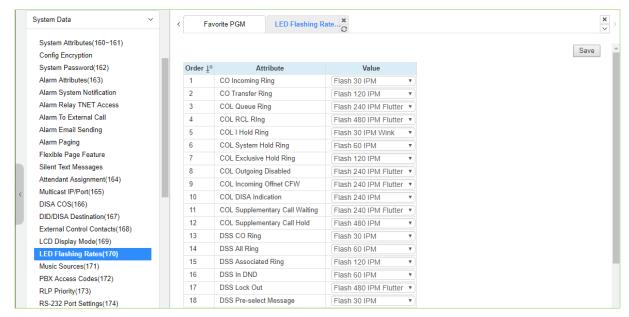


Figure 4.4.5.18-1 LED Flashing Rate

The LED flash rate for various functions and states can be assigned any one of the system's 15 signals. The various functions and states are shown in the following table. The 15 flash signals available in the system are shown in the table 'LED flash rate'.

Table 4.4.5.18-1 LED INDICATION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
CO Incoming Bing	CO button Incoming ring floobing rate	00-14	FLASH 30	
CO Incoming Ring	CO button Incoming ring flashing rate.	00-14	IPM(2)	
CO Transfer Bing	CO button transfer ring fleehing rate	00-14	FLASH 120	
CO Transfer Ring	CO button transfer ring flashing rate.	00-14	IPM(10)	
COL Queue Ring	CO button queue call back ring	00-14	FLASH 240	
COL Queue King	flashing rate.	00-14	IPMFLUTTER(6)	
COL RCL Ring	CO button recall ring flashing rate.	00-14	FLASH 480	
COL KCL King	CO buttorrecall ring hashing rate.	00-14	IPMFLUTTER(8)	
COL I Hold Ring	CO button I hold flashing rate.	00-14	FLASH 30	
COLTTION KING			IPM WINK(12)	
COL System Hold	CO button system hold flashing rate.	00-14	FLASH 60	
Ring	CO button system note hashing rate.	00-14	IPM(3)	
COL Exclusive Hold	CO button exclusives hold flashing	00-14	FLASH 120	
Ring	rate.	00-14	IPM(10)	
COL Outgoing	CO button outgoing disabled flashing	00-14	FLASH 240	
Disabled	rate.	00-14	IPMFLUTTER(6)	
COL Incoming Off-net	CO button incoming off-net call	00-14	FLASH 240	
CFW	forward flashing rate.	00-14	IPMFLUTTER(6)	
COL DISA Indication	CO button DISA indication flashing	00-14	FLASH 240	
COL DISA INGICATION	rate.	14	IPM(5)	

Table 4.4.5.18-1 LED INDICATION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
COL Supplementary	CO button supplementary call waiting	00-14	FLASH 240
Call Waiting	flashing rate.	00-14	IPMFLUTTER(6)
COL Supplementary	CO button supplementary hold flashing	00-14	FLASH 480
Call Hold	rate.	00-14	IPM(8)
DSS CO Ring	DSS button CO ring flashing rate.	00-14	FLASH 30
D33 CO King	D33 button CO fing hashing rate.	00-14	IPM(2)
DSS All Ring	DSS button ICM ALL ring flashing rate.	00.14	FLASH 60
D33 All Killy	D33 button felvi ALL fing hashing rate.	00-14	IPM(3)
DSS Associated Ring	DSS button ICM ring associate device	00-14	FLASH 120
DOS ASSOCIATED INITIG	flashing rate.	00-14	IPM(10)
DSS Incoming Ring	DSS button station is in DND.	00-14	FLASH 60
Doo incoming King	DOS DUITON STATION IS IN DIVID.	00-14	IPM(3)
DSS Lock Out	DSS button station is in lock out.	00-14	FLASH 480
DOS LOCK OUL	D33 Duttori Station is in lock out.	00-14	IPMFLUTTER(8)
DSS Pre-select	DSS button station is in pre-selected	00-14	FLASH 30
Message	message.	00-14	IPM(2)
DSS camp on ICM	DSS button station is in ICM hold.	00-14	FLASH 60
Hold	D33 buttori station is in icivi noid.	00-14	IPM(3)
DSS Other	DSS button station is in other state.	00-14	FLASH 120
DSS Offici	D33 buttori station is in other state.	00-14	IPM(10)
ACD Queue Ring 2	CIQ #1 Threshold.	00-14	FLASH 60
ACD Queue King 2	CIQ #1 Tilleshold.	00-14	IPM(3)
ACD Queue Ring 6	CIQ #2 Threshold.	00-14	FLASH 120
ACD Queue King 6	CIQ #2 Tilleshold.	00-14	IPM(10)
ACD Queue Ring 7-X	CIO #3 Throshold	00-14	FLASH 240
ACD Queue King 7-X	CIQ #3 Tilleshold.	00-14	IPM(5)
ACD DND (Off Duty)	ACD an agent is off duty (ACD DND).	00-14	FLASH 120
ACD DIND (Oil Duty)	ACD an agent is on duty (ACD DND).	00-14	IPM(10)
ACD Warning	ACD warning tone.	00-14	FLASH 120
ACD Warning	ACD warning tone.	00-14	IPM(10)
ACD Help	ACD help request/response.	00-14	FLASH 120
ACD Help	ACD help request/response.	00-14	IPM(10)
Feature Record	FEATURE voice record button.	00-14	FLASH 240
realure Record	PEATORE Voice record button.	00-14	IPM(5)
Feature Message	FEATURE massage weit	00.44	FLASH 30
Wait	FEATURE message wait.	00-14	IPM(2)
DSS Out-of-service	DSS button a station is in out-of-	00.14	FLASH OFF
state	service state.	00-14	(00)
On-demand Ring	DND led of attendant station for ring	00.14	FLASH 60
mode	mode.	00-14	IPM(3)
Night Ding mode	DND led of attendant station for ring	00.14	EI AQLI Qtoody
Night Ring mode	mode.	00-14	FLASH Steady

Table 4.4.5.18-1 LED INDICATION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Timed Ding made	DND led of attendant station for ring	00.14	FLASH 240
Timed Ring mode	mode.	00-14	IPM(5)
Auto Ring mode	DND led of attendant station for ring	00-14	FLASH 480
Auto King mode	mode.	00-14	IPM(8)
Dogo Hold Button	HOLD LED for paging.	00-14	FLASH 60
Page Hold Button			IPM(3)
DSSStation DND(off	DSC hutton station in Station DND	00.14	FLASH 120
duty)	DSS button station in Station DND.	00-14	IPM(10)
Message Wait (Call	Magazaa wait	00-14	FLASH 30
Back)	Message wait.	00-14	IPM(2)
DSS in use	DSS button station is in use.	00-14	Steady On
DOO III USE		00-14	(1)

Table 4.4.5.18-2 LED FLASH RATE TABLE

Flash Rate	DESCRIPTION
1	Steady On
2	30 ipm flash (30% On)
3	60 ipm flash (30% On)
4	60 ipm double wink (30% On-Off-On-Off & 70% On)
5	240 ipm flash (30% On)
6	240 ipm flutter (30% On-Off-On-Off-On & 70% Off)
7	480 ipm flash (30% On)
8	480 ipm flutter (30% On-Off-On-Off-On & 70% Off)
9	15 ipm flash (30% On)
10	120 ipm flash (30% On)
11	120 ipm flutter (30% On-Off-On-Off-On & 70% Off)
12	30 ipm double flash (30% On-Off-On & 70% Off)
13	480 ipm double wink (30% On-Off-On-Off & 70% On)
14	480 ipm double flash (30% On-Off-On & 70% Off)

4.4.5.19 Music Sources - PGM 171

Selecting Music Sources will display the Music Sources data entry page. Click **[Save]** button after changing Value.

The vUCP is not available for this feature.

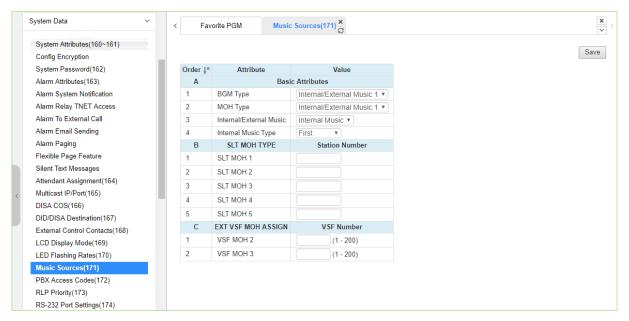


Figure 4.4.5.19-1 Music Sources

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. Up to thirtyVSF announcements may be recorded and played as MOH to the connected caller. The "VSF MOH" selection employs System announcement number 201, and for the VSF MOH 2~30 selections, any unused announcement can be employed. In addition, up to five SLT ports may be used as MOH to the held caller.

4.4.5.20 PBX Access Codes - PGM 172

Selecting PBX Access Codes will display the PBX Access Codes data entry page. Click **[Save]** button after changing Value.

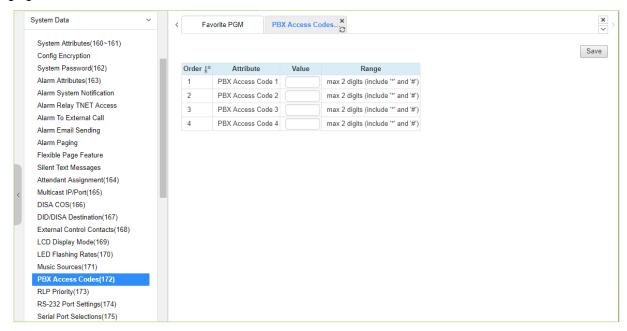


Figure 4.4.5.20-1 PBX Access Codes

When the system is used "behind" a PBX/CTX, the system needs to recognize the PBX/CTX Trunk access codes to implement proper dialing restriction, tone detection sequences and Flash timing. A maximum of four (4) Trunk Access Codes of one (1) or two (2) digits can be entered.

4.4.5.21 Ringing Line Preference Priority - PGM 173

Selecting Ring Line Preference Priority will display the Ringing Line Preference Priority data entry page. Click **[Save]** button after changing Value.

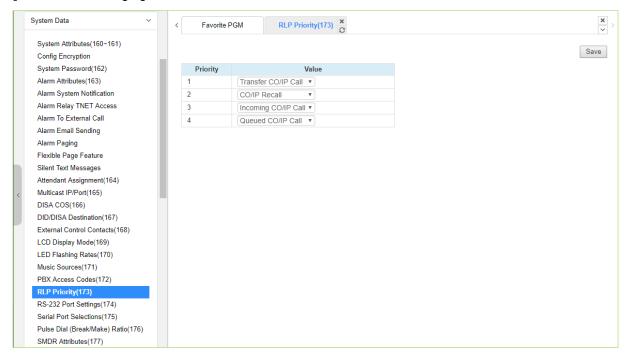


Figure 4.4.5.21-1 Ringing Line Preference Priority

When multiple calls are ringing at the same time to a station assigned Ringing Line Preference, the order of preference is based on the type of call: CO/IP Transfer, CO/IP Recall, Incoming call, CO/IP Queue. A queued CO/IP callis always assigned the lowest priority.

4.4.5.22 RS-232 Port Settings - PGM 174

Selecting RS-232 Port and USB 1&2 port Settings will display the RS-232 Port and USB 1&2 port Settings data entry page. Click **[Save]** button after changing Value.

The vUCP is not available for this feature.

eMG100 does not support USB serial feature.

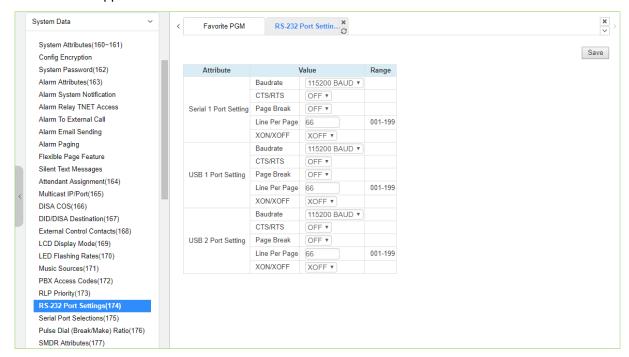


Figure 4.4.5.22-1 RS232 Port and USB 1&2 port Settings

Certain characteristics of each port are programmable including baud rate, RS 232 control, and page settings. Refer to the following table for a description of the settings and the data entries available.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Baud Rate	This entry establishes the BAUD rate for the RS-232 serial port. Unknown, 9600, 19200, 38400, 57600, 115200	Refer to description	115200
CTS/RTS	The system's RS232 port can support Clear-to-Send (CTS) and Ready-to-Send (RTS), control leads.	OFF ON	OFF
Page Break	The system can send a page break command over the serial port at the end of each page. See Lines per Page below for page length set-up.	OFF ON	OFF
Line Per Page	This entry sets the page length, the number of lines the system will send before sending the page break.	001~199	66
XON/XOFF	This entry enables/disables XON/XOFF protocol.	XON/ XOFF	XOFF

Table 4.4.5.22-1 RS232 PORT and USB 1&2 port Settings

4.4.5.23 Serial Port Selections - PGM 175

Selecting Serial Port Selections will display the Serial Port Selections data entry page. For each function select the desired output using the drop-down menu and, if a TCP channel is assigned, enter the TCP port.Click **[Save]** button after changing Value.

The vUCP is not available for this feature.

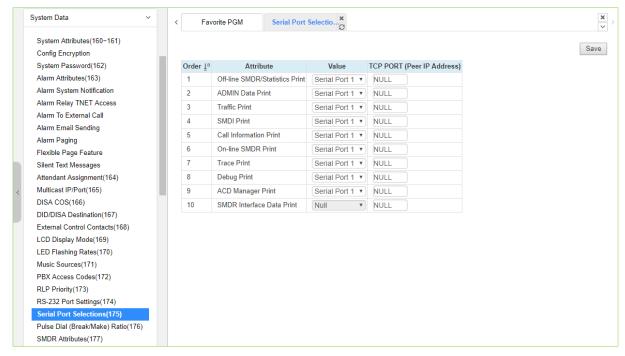


Figure 4.4.5.23-1 Serial Port Selections

The system has six (6) serial ports (1 RS232, 3 TCP Channels and 2 USB serial). A serial port is assigned to each function that requires aserial output.

4.4.5.24 Pulse Dial (Break/Make) Ratio - PGM 176

Selecting Pulse Dial (Break/Make) Ratio will display the Break/Make Ratio data entry page.Click **[Save]** button after changing Value.

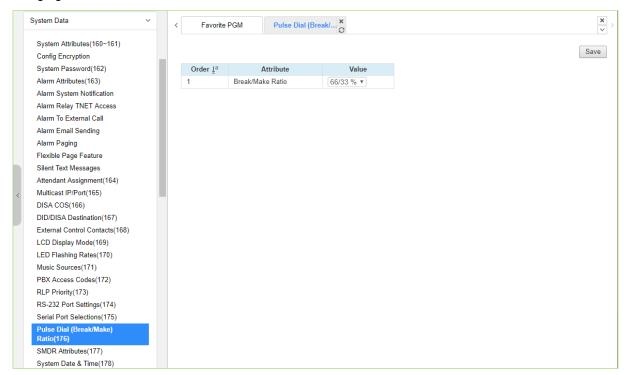


Figure 4.4.5.24-1 Break/Make Ratio

For Pulse dial CO Lines, the system supports 10pps and break/make ratios of 60/40% or 66/33%.

4.4.5.25 SMDR Attributes - PGM 177

Selecting SMDR Attributes will display the SMDR Attributes data entry page. Click **[Save]** button after changing Value.

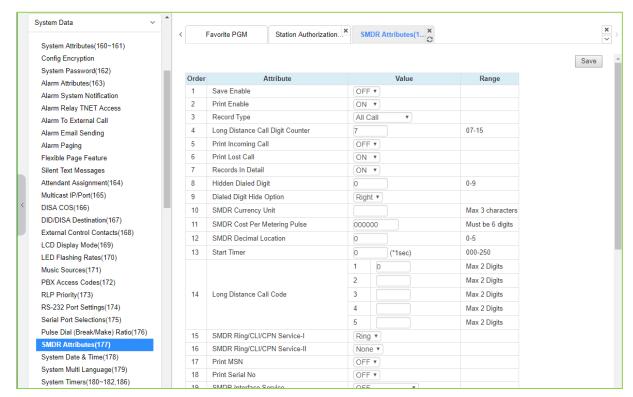


Figure 4.4.5.25-1 SMDR Attributes

Station Message Detail Recording (SMDR), which is output over an RS 232 port or TCP channel, contains details on both incoming and outgoing calls. Various SMDR attributes can be assigned including; output records for all calls or LD only, call cost per pulse when using call metering, etc.

Refer to the following table for a description of each Attribute and the data entries required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Save Enable	The system can output all outgoing call records (ON) or, to allow for PSTN call set-up times, only records for calls that exceed the SMDR Timer (OFF). For SMDR Timer settings refer to "Start Timer" as the below.	OFF ON	OFF
Print Enable	The system can output SMDR records automatically as they occur (real-time) or only when requested. When this attribute is ON, SMDR is sent at call completion.	OFF ON	ON
Record Type	The system can record all outgoing calls or only long distance calls. Long distance calls are identified by the LD digit count and LD codes assigned in "Long Distance code".	Long Distance/ ALL calls	Long Distance
Long Distance Call Digit Counter	Dialed numbers, which exceed the assigned LD digit count are considered long distance calls for SMDR and COS purposes.	07-15	07

Table 4.4.5.25-1 SMDR ATTRIBUTES

Table 4.4.5.25-1 SMDR ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Print Incoming Call	The system can output records for Incoming calls as well as outgoing calls. If enabled, incoming as well as outgoing calls are recorded.	OFF ON	OFF
Print Lost Call	When incoming call records are enabled, the system can also provide records for unanswered incoming (abandoned) calls.	OFF ON	ON
Records In Detail	The system can output detailed call records (ON) or summary call information (total number of calls, cost and cost for each station).	OFF ON	ON
Hidden Dialed Digit	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. The Dialed Digit Hide Option below defines whether leading or trailing digits are hidden The station must be assigned for SMDR Hidden digits in 'Common Attributes section'.	0~9	0
Dialed Digit Hide Option	When "HIDDEN DIALED DIGIT" is enabled, above, this field determines if leading or trailing digits are hidden.	Right/ Left	Right
SMDR Currency Unit	The unit of currency used for call cost can be identified with 3-characters for easy reference.	Max. 3 characters	
SMDR Cost Per Metering Pulse	When call metering is provided by the PSTN, the cost per metering pulse can be assigned.	6-digits	000000
SMDR Decimal Location	This value determines the position of the decimal in the Cost per Pulse entry above, starting from the right most digits.	0~5	0
Start Timer	To allow for call set-up times through the PSTN, a "Valid call timer" can be set.	000~250 (msec)	0
Long Distance Code	For SMDR and COS purposes, five (5) Long Distance codes of up to two (2) digits each can be assigned. If dialed as the 1st digits, the call is considered an LD call. 5 two digit LD codes,use * as wild card(any digit)	Refer to description	
SMDR CLI or Ring Service I	For incoming calls, the system will send the defined data item for "Field I". The data item may be CLI, CPN or Ring Service Time. Note the User dialed number is always provided for an outgoing call.	RING/ CLI/ CPN	RING
SMDR Ring/CLI/CPN Service II	For incoming calls, the system will send the defined data item for "Field II". The data item may be CLI, CPN or Ring Service Time.	RING/ CLI/ CPN/ None	None
Print MSN	For an ISDN call involving an MSN number, the MSN number Information can be included in the SMDR Record.	OFF ON	OFF
Print Serial No	Each SMDR Record can include a record number starting at 1 and incrementing until the records are deleted. The record number will reset to 1 when SMDR capacity is reached or SMDR Mail Auto Delete Set is enabled under System Attributes.	OFF	ON

Table 4.4.5.25-1 SMDR ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SMDR Interface Service	When enabled, the system stores SMDR data to send to applications including NMS (Network Management System) upon request. OFF, CO CALL, CO & ICM CALL	Refer to description	OFF
SMDR ICM Save	When enabled, intercom call data is stored as part of the SMDR data.	OFF ON	OFF
SMDR ICM Print	When enabled, intercom call data is printed as part of the Online SMDR.	OFF ON	OFF
SMDR Disconnect Cause	When enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.	OFF ON	OFF
Long time call	To monitor long duration external calls, a "Long Time Call" can be set. If CO call duration exceeds this value, a notification will be sent to NMS server and alarm. If set to "000" the feature is disabled.	000 ~ 144 (10 min.)	0
Print SMDR from any CO to NET call	When a CO call is transferred to a Net transit-out CO, the local SMDR record is deleted.	OFF ON	OFF
Transfer Call Charge Rate	 When a call is transferred by a station, the SMDR record can be charged based on the following options. Individualstation: When a call is transferred to another station, the transferred call is charged both stations based on the time on the call. Integrate transferring station: When a call is transferred to another station, the call is charged to the transferring station. Integrate transferred station: When a call is transferred to another station, the call is charged to the station receiving the transfer. 	Refer to description	Individual station
Attendant Transfer Charge Rate	 When a call is transferred by a station, the SMDR record can be charged based on the following options. Individual charging: When the Attendant places an outgoing call and transfersthe call to a station, the Transfer Call Charge Rate above. Attendant station charging: When Attendant places an outgoing call and transfers this call to a station, the call is charged to the Attendant. Transferred station charging: When the Attendant places an outgoing call and transfers this call to a station, the call is charged to the receiving station. 	Refer to description	Individual charging
International Access Code	The system will recognize the digits assigned as the International access code digit sequence when dialed as the first digits.	Max. 4 digits	
Mobile Access Code	The system will recognize the digits assigned as the Mobile network access code digit sequence when dialed as the first digits.	Max. 4 digits	

Table 4.4.5.25-1 SMDR ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Voicemail indication	Calls to the Voice Mail may be shown as I (Incoming call) or V(New indication) for Voice Mail in the SMDR record. I (Incoming call), V (New indication)	Refer to description	I
Display Nxxxx for Net number	An "N" can be included in the SMDR to identify the call as a Network call.	OFF/ ON	OFF
Outgoing call type	 Select SMDR type for outgoing call. All call: SMDR can be provided for all outgoing call. Answered call: SMDR can be provided in case the called party is answered. 	Refer to description	All Call
Print Dialed number	According to this option, you can print the dialed number. Dialed digits to PSTN, Dialed digits by user	Refer to description	Dialed digits to PSTN
SMDR REST API Service	When enabled, the system stores SMDR data to send to REST API application.	OFF ON	OFF
SMDR ICM Ring Info	When enabled, intercom call data has additional information about ringing duration. With this option disabled, cannot disfferentiate calls if they are answered or unanswered because TIME field is used for both of talking and ringing durations. With this option enabled, TIME is only for talking duration, and RING duration is presented separately as it is presented for CO call data.	OFF ON	OFF
SMDR ICM CPN Info	When enabled, intercom call data has additional information about original dialed digits. With this option disabled, always only the last talking or ringing station is specified as called party. With this option enabled, the original dialed number is presented separately in CPN field.	OFF ON	OFF

4.4.5.26 System Date & Time - PGM 178

Selecting System Date & Time will display the System Date & Time and DST data entry page. Click **[Save]** button after changing Value.

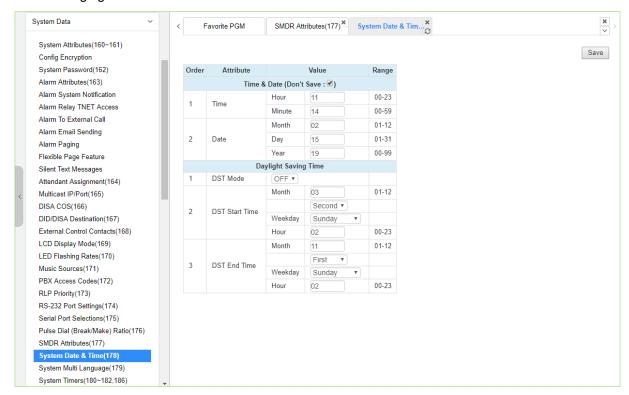


Figure 4.4.5.26-1 System Date & Time

The System Date and Time are established by the [Time & Date] menu. The date and time are employed for several features and functions including; LCR, LCD displays, SMDR outputs, Auto Ring mode Selection, Wake-up Alarm, etc.

If Daylight Savings Time is enabled the system time will be adjust one-hour forward and back at the DST start and end times, respectively.

4.4.5.27 System Multi Language - PGM 179

Selecting System Multi Language will display the System Multi Language data entry page. Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number: eMG80/100: 1-300 / eMG800: 1-2890 / UCP: 1-3688

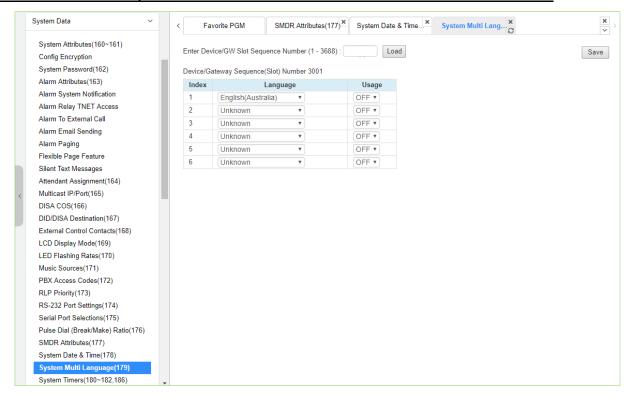


Figure 4.4.5.27-1 System Multi-Language

The VSF (VMIU, VMIB, UVM) supports multiple languages (19 languages); up to six languages may be supported simultaneously.

Once the prompts are downloaded to the VMIU and VMIB, the caller receives the Language selection announcement for DISA and CCR calls as well as preceding a Station Group announcement or DID error announcement.

The language selection announcement will only affect the language prompts enabled for use with the device indicated by the Sequence number.

4.4.5.28 System Timers - PGM 180 ~ 182 & 186

Selecting System Timers will display the System Timers data entry page.Click **[Save]** button after changing Value

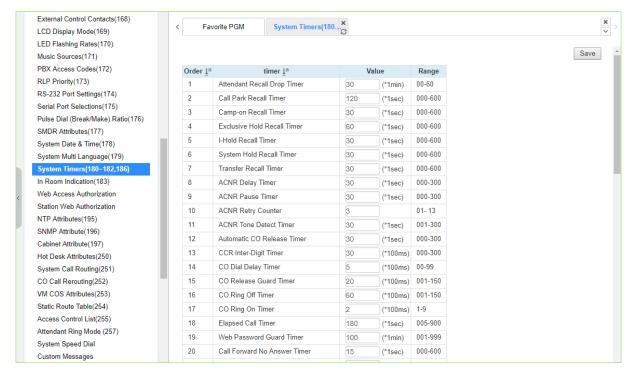


Figure 4.4.5.28-1 System Timers

A number of timers can be assigned to control and affect many features and functions. Refer to the following table for a description of the timers and the input required.

ATTRIBUTE DESCRIPTION **RANGE DEFAULT** Attendant Recall Enter the desired time that Attendant receives recall after the 00~60 30 **Drop Timer** system will disconnect the call. (minutes) Call Park Recall Enter the desired recall time for call park. Parked call will 000~600 120 Timer recallthe station at a specified time. (seconds) When a call is transferred using Camp-On, this field determines Camp-on Recall 000~600 the desired recall time for Camp-on. The station receives the call 030 Timer (seconds) again with a specified time. Exclusive Hold Enter the desired time for Exclusive hold. The station receives 000~600 060 Recall Timer the call again after a specified time. (seconds) I-Hold Recall Enter the desired time for Hold recall. The station receives the 000~600 030 Timer call again after a specified time. (seconds) System Hold Enter the desired time for System hold recall time. The station 000~600 030 Recall Timer receives the call again after a specified time. (seconds) Transfer Recall Enter the desired time for transferring the call again to the 000~600 030 Timer receiving station. (seconds)

Table 4.4.5.28-1 SYSTEM TIMERS

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ACNR Delay Timer	If the ACNR Pause Timer expires and no CO/IP Line is available for ACNR recall, in this filed, you can set the delay time before ACNR attempts to access a CO/IP line again. This feature doesn't affect the ACNR retry counter.	000~300 (seconds)	030
ACNR Pause Timer	Enter the desired time for pause between ACNR recall attempts.	000~300 (seconds)	030
ACNR Retry Counter	Enter the number of ACNR retry attempts. ACNR will finish after a specified times. Regarding CIS country, the range is from 1 to 9.	1~13	03
ACNR Tone Detect Timer	If call progress tones are not available for ACNR, the system will wait the specified time after dialing before considering the called party as "busy/no answer".	001~300 (seconds)	30
Automatic CO Release Timer	If a user accesses a CO/IP Line and takes no action, the system will automatically release the CO/IP Line when the specified time is over or expired.	000~300 (seconds)	030
CCR Inter-digit Timer	Inter-digit timer used with Customer Call Routing function.	000~300 (seconds)	030
CO Dial Delay Timer	To prevent dialing when CO/PBX has slow response, dialing by the system can be delayed using this timer.	00~99 (minutes)	05
CO Release Guard Timer	When a CO/IP Line is returned to idle, the system will deny access for the specified time to assure the PSTN returns the CO/IP Line circuitry to be idle.	010~150 (seconds)	020
CO Ring Off Timer	This timer sets the maximum 'OFF' duration of the incoming ring cycle for the Ring Detect circuitry of the system to detect an abandoned call.	001~150 (seconds)	060
CO Ring ON Timer	This timer sets the 'ON' time of the incoming ring cycle for the Ring Detect circuitry of the system to recognize an incoming call.	1~9 (100 msec)	2
Elapsed Call Timer	Users can receive a periodic tone indicating the length of an outgoing call. This timer sets the time before and between the tones. Note CO Warning Tone must be enabled for the station in Station Data in 'Station Data section'.	005~900 (seconds)	180
Web Password Guard Timer	If no data packet is received during a Web connection, after the guard time a password check will be initiated by the system.	001~999 (minutes)	5
Call Forward No Answer Timer	When a user activates No-Answer Forward, calls will ring for this duration before being forward. The Station No-Answer Forward timer section will take precedence.	000~600 (seconds)	15
DID/DISA No Answer Timer	A DID/DISA call to a busy station will forward to the DID/DISA Destination assigned under section should this timer expires.	000~255 (seconds)	20
VSF User Maximum Record Timer	This timer sets the maximum duration allowed for the User Greeting in the system's VSF.	000~999 (seconds)	60
VSF Valid User Message Timer	This timer sets the minimum duration allowed for a User Greeting.	0~9 (seconds)	4

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Door Open Timer	This timer sets the minimum time required to activate the contact assigned as a door open contact.	00~99 (100 msec)	20
ICM Dial Tone Timer	If a user goes off-hook to receive Intercom dial tone and takes no action for this timer, the user will receive error tone.	001~255 (seconds)	10
Inter Digit Timer	This timer sets the maximum time allowed between each user- dialed digit. At expiration, the user will receive error-tone.	01~20 (seconds)	5
MSG Wait Reminder Tone Timer	An iPECS IP or LDP Phone user will receive periodic reminder tones of a message waiting at intervals of this timer.	00~60 (minutes)	00
Paging Timeout Timer	Determines the maximum duration of a page after which the caller and Page Zone are released.	000~255 (seconds)	15
Pause Timer	A Timed pause of this duration is used in speed dial and during other automatically dialed digits sent to the PSTN.	1~9 (seconds)	1
Soft auto RLS Timer	When a Soft Key is used on the 6000 or 7000 series iPECS IP or LDP Phone, after expiration of this timer, the display will return to the previous display.	1-30 (seconds)	10
VM Pause Timer	When the system sends a "Pause" to Voice Mail using in-band signals, this timer defines the Pause duration. (Not available in the USA.)	1-90 (ms)	30
SLT Hook Switch Bounce Timer	This timer determines the duration the system considers an actual state change in the hook-switch and not a spurious contact bounce.	01~25 (100 msec.)	1
SLT Maximum Hook Switch Flash Timer	This timer sets the maximum time an SLT user can depress the hook-switch for a Flash signal.	01~25 (100 msec.)	1
SLT Minimum Hook Flash Timer	This time sets the minimum time an SLT user must depress the hook-switch for a Flash signal.	000~250 (10 msec.)	4
Station Auto Release Timer	For an internal call, the system will return a station to idle if the call remains unanswered for this duration.	000~300 (seconds)	60
Unsupervised Conference Timer	This timer determines the duration of an "Unsupervised Conference" before the station is recalled or the conference is dropped. 00 means 10 minutes.	00~99 (minutes)	10
Prime Line Delay Timer	This timer sets the delay (no action duration) for delayed (Warm) Prime Line operation.	01~20 (seconds)	5
Wink Signal Timer	This timer sets the duration of the "Seize Acknowledge Signal" (Wink) sent to the PSTN on a DID line.	010~200 (10 msec.)	10
En-block Inter Digit Timer	When an ISDN Line is assigned to send digits En-block, CO Attribute section, the system will send digits if the user dials "#" or this En-block inter-digit timer expires.	01~20 (seconds)	5
DTMF Duration Timer	This timer establishes the duration of DTMF tones sent on an analog CO line.	04~99 (10 msec.)	10

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Flex DID Timer	The system will receive DID digits for this timer. After the timer expires, the system will use the last 2 to 4 digits received as DID digits.	01~99 (100 msec)	10
R2 Out Manage Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 In Manage Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 Disappear Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 Pulse Timer	Reserved for future usage for R2 timers.	01~30 (*20ms)	7
R2 Ready Timer	Reserved for future usage for R2 timers.	000~500 (*200ms)	7
Dial Tone Delay Timer	Reserved for future usage for R2 timers.	01~30 (*20ms)	20
Wake Up Fail Timer	At expiration of this timer, the system will notify the Attendant when a user does not respond to a Wake up alarm.	00~99	20
VSF Cut Error Tone Timer	The duration of Voice Messages in the built-in Voice Mail are reduced by this timer to remove error tone that may be sent by the carrier after disconnect.	00~90 (seconds)	0
On Hook Auto Idle Timer	When an iPECS IP or LDP Phone receives a disconnect message or signal from CO line the phones goes to idle after this timer.	00~99 (seconds)	0
IP Watch Timer	When Local redundancy is implemented, should the LAN cable fail, both call servers may attempt to be active. To protect against this "dual active" case, the system can periodically check for an active back-up module.	0~250 (1 sec.)	0
Prepaid Call Drop Warning Timer	When the Prepaid funds are exhausted, the user will receive a warning tone indicating the call will be dropped after this timer expires.	00-99	10
Emergency retry timer	System try to make emergency call according to the CO access rule/Prefer CO/CO group if system could not seize predefined emergency Co line within this timer.	00~99 (seconds)	0
Record Warning Repeat Timer	If record warning tone is set and this timer is set greater than 1, it works periodically when it's recorded.	000~999 (seconds)	0
Error Tone Timer	This timer sets the duration for Error Tone.	5~180 (seconds)	30
Howling Tone Timer	This timer sets the duration for Howling Tone.	0~180 (seconds)	30
VM Notify Play Delay Over CO Timer	When VM notification to the mobile uses an analog loop start Line, system will treat the call as the answered after this timer and play the new message prompt.	1~99 (1 sec.)	10

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Fax Detect timer	It is maximum fax tone detection time to deliver FAX call to fax destination.	1~20 (1 sec.)	10
Auto Pause Release timer	IPCR Mute function will be released by this auto pause released timer.	0~255 (1 sec.)	0
UCS Ring ACK Timer	UCS Client is ringing before expiring the Ring ACK timer and afterwards will hear Error tones.	0~20 (seconds)	0
Short Modem Timer	If {Short modem} of a SLT is ON, the SLT maintains the modem mode for this time.	01~60 (1 sec.)	10
Button Idle Timer	When a button is pressed, auto idle timer is added.A button is pressed in idle state, It goes to a menu list state(not calling state).In menu list state, this auto idle timer is applied. The button that is applied this timer is as below. Transfer / PGM. Speed. Menu. Directory. Message. Call Log. Condition The ButtonIdle timer is supported only below phones. LIP-90xx series(9010/20/30/40) LIP-80xxE series(8012E/24/40E) LDP phones. Firmware of LIP-90xx & LIP-80xxE series should be upgraded. LIP-90xx: A.0Eb or later version LIP-80xxE: A.1Fn or later version The DECT phone and LIP-9070 do not support the Button Idle timer.	00, 10-99 (1 sec.)	0
CCR No Digit Error Timer	'CCR No Digit Error Timer' is the specific time when digit is not entered after announcement. After CCR no digit error timer, the call is routed to 'Error destination' that set in CCR Table (228).	01-99 (100ms)	50
Fax No Answer Timer	When Data(Fax) station number is defined in the analog CO line, the incoming call is answered by system automatically to detect the Fax tone. If the fax tone is not detected, the call is routed to the ring assigned destination. If the destination does not answer the call, it is disconnected after fax no answer timer is expired.	10-99 (1 sec.)	30

4.4.5.29 In-Room Indication - PGM 183

Selecting In-Room indication will display the In Room data entry page. Click **[Save]** button after changing Value.

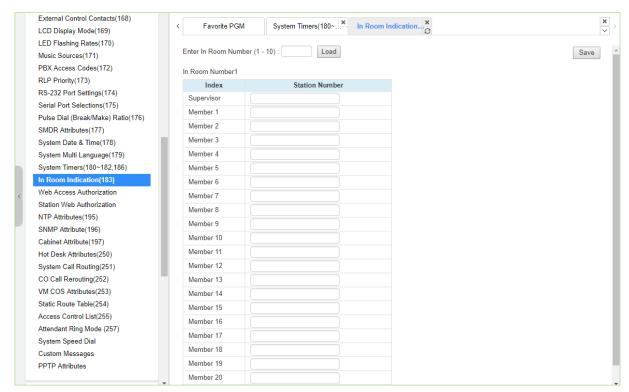


Figure 4.4.5.29-1 In-Room Indication

The Supervisor Station can set the In-Room Indication for all members in the In-Room indication group. Up to 10 Supervisors (groups) can be configured can be programmed, and each can have up to 20 members in the group, excluding the Supervisor.

ATTRIBUTE DESCRIPTION		RANGE	DEFAULT
Supervisor	This entry assigns the Station number for the In-Room Group Supervisor.	Station number	
Member 01~20	This entry assigns stations as members of the In-Room Group.	Station number	

4.4.5.30 Web Access Authorization

Selecting Web Access Authorization will display the Web Access Authorization data entry page. This page is only displayed when a password is defined.Click **[Save]** button after changing Value.

A user can select three authorization option (N/A, Read, Read/Write) only in Web Access & Station Web Authorization PGM of Web Admin.

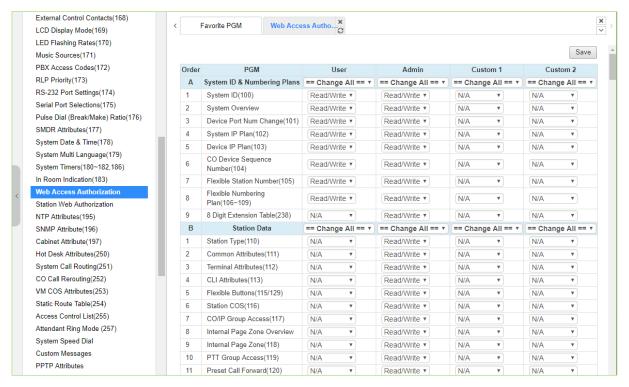


Figure 4.4.5.30-1 Web Access Authorization

Three different passwords can be assigned for the access to the iPECS Web administration so that the different levels of access to the program fields can be allowed. Four levels (User, Administrator, Custom1, and Custom2) have access to the assigned fields in this page by selecting N/A, Read, Read/Write. The Maintenance password has access all the programming fields and the maintenance fields including trace settings, device log view, gain & cadence control, lock key install and device delete feature. In addition, the Maintenance level user can assign the authorities of the other user levels.

In the Maintenance menu, the Database, SMDR, and Voice Mail Delete fields can be chosen by User level or Admin Level.

4.4.5.31 Station Web Access Authorization

Selecting Station Web Authorization will display the Web authorization data entry page. Click **[Save]** button after changing Value.

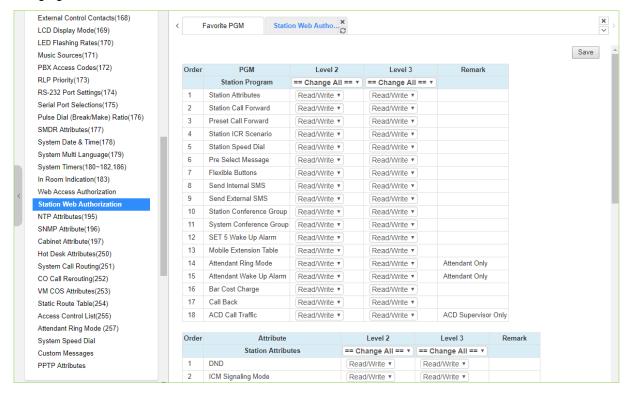


Figure 4.4.5.31-1 Station Web Access Authorization

Three access levels can be assigned to each station for access to the Station Web pages in Station Data (Common Attributes (111): 'Station Web Level'). Level 1 has access to all Station pages and attributes. The pages and attributes for Levels 2 and 3 are programmable.

4.4.5.32 NTP Attributes - PGM 195

Selecting NTP Attributes will display the System NTP Attributes entry page.

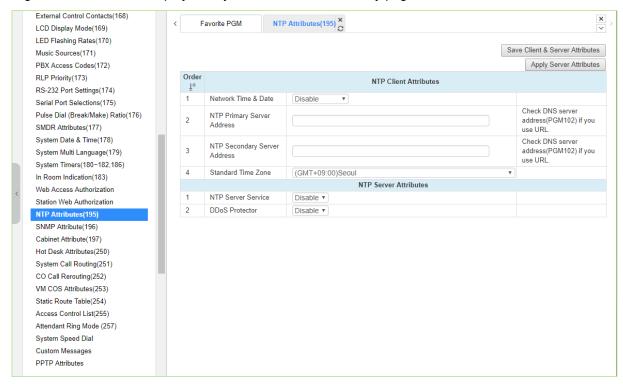


Figure 4.4.5.32-1 NTP Attributes

The system can employ the Network Time Protocol (NTP) to synchronize the system time with an NTP time server. The system requests the time from the NTP server at 10-minute intervals and then determines the time differential. If the system time is more 2 seconds off the NTP time, the system time is adjusted to synchronize with the NTP server time.

4.4.5.33 SNMP Attribute - PGM 196

Selecting SNMP Attribute will display the SNMP Attributes entry page. Click **[Save]** button after changing Value.

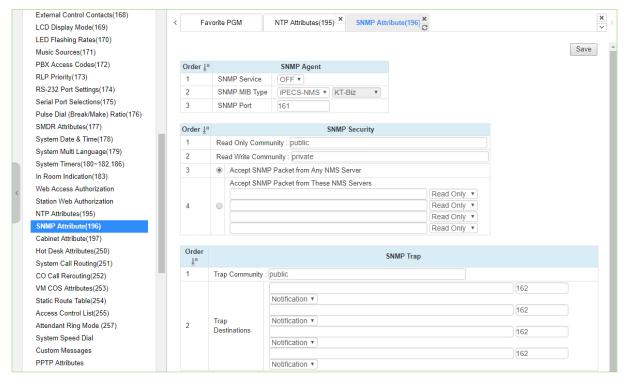


Figure 4.4.5.33-1 SNMP Attribute

SNMP Attributes, as shown on the screen, are divided into three categories: SNMP Agent, SNMP Security, and SNMP Trap. The SNMP Service field enables the SNMP agent running in the iPECS call server. The SNMP port field defines the UDP port used for communications from iPECS system for SNMP messages. This port should not be changed.

In SNMP Security are the Read Only and Read Write SNMP Community fields, 4 to 16 characters. The SNMP community designates an SNMP communication group to which an SNMP message belongs, and is a logical relationship between the SNMP agent (iPECS system) and SNMP manager (iPECS NMS). The SNMP community settings must be the same for the iPECS system and the iPECS NMS server.

- Read Only Community (default=Public)—Defines a community string used when theiPECS NMS reads data from iPECS system.
- Read Write Community (default=Private)—Defines the community string used wheniPECS NMS reads or writes data to iPECS system.

Although iPECS system can accept packets from any SNMP manger such as iPECS NMS, for improved security, the IP address of specific servers can be defined and allowed Read only or Read Write access. It is recommended that the system be assigned with the IP address of a specific NMS server with Read Write access.

The SNMP Trap configuration defines the Trap Community, and the Trap Destination, which includes the IP Address of the SNMP manager, iPECS NMS, and the .message type. The Trap Community designates a communication group to which a Trap message belongs, and is a logical relationship between the SNMP agent (iPECS system) and SNMP manager (iPECS NMS).

This 4 to 16 character string should be the same as the Trap community string defined in the iPECS NMS. The Trap community should be the same for all iPECS systems registered to an iPECS NMS server whereas the SNMP community may be defined with different strings for each iPECS system.

The Trap Destination defines the IP address of the iPECS NMS server and the port, 162. Enter the IP address of the NMS server but, the port should not be changed. The pull down menu next to the address is used to define the message type. Three values are available:

- Trap message type is defined in SNMPv1, but because iPECS-NMS and iPECS system use SNMPv2, the Trap type message is not recommended.
- Notification message type sent from the SNMP agent once without checking thereception of the message.
- Inform message type requires an acknowledgement from the SNMP manager. If theagent does not
 receive a response, the message is resent. Inform messages are intended for use in environments with
 high packet loss however, use of the Informmessage type may detrimentally affect iPECS system
 performance.

The iPECS SNMP attributes are defined here. Refer to Table 4.4.5.26-1 for description and values that can be entered.

Tahla 1	A 5 33_	1 SNMP	ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SNMP service	SNMP Service field is used to set the SNMP agent in the iPECS ON or OFF.	OFF ON	OFF
SNMP MIB Type	Select SNMP MIB specification. U-CEMS is KOREA telecom speciation.	iPECS-NMS/ U-CEMS	iPECS-NMS
SNMP Port	SNMP Protocol port number.		161
Read Only Community	Read only community should be used when SNMP manager (NMS) is trying to read data from SNMP agent (eMG)	4 ~ 16 characters	public
Read Write Community	When the SNMP manager (NMS) needs to read and write data to the agent (iPECSsystem). This attribute should be enabled.	4 ~ 16 characters	private
Trap Community	For the SNMP agent (eMG/UCP), this field defines the destination IP address to receive trapped messages (Alarm/fault events).	4 ~ 16 characters	public
Trap Destination	IP address of iPECS NMS server, port 162 should not be changed.	IP address	Public
Message Type	Defines how the agent sends the Message.	Notification/ Inform/ Trap	Notification

4.4.5.34 Cabinet Attribute for UCP - PGM 197

Selecting Cabinet Attribute will display the Cabinet Attributes entry page. Click **[Save]** button after changing Value.

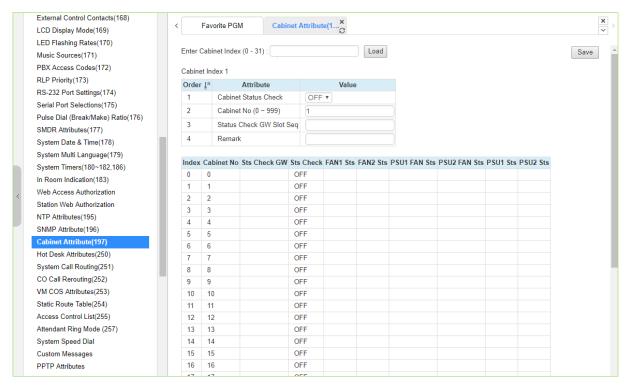


Figure 4.4.5.34-1 Cabinet Attribute

This Web page displays system cabinet configurations and alarm status.

4.4.5.35 Hot Desk Attributes - PGM 250

Selecting Hot Desk Attributes will display the Hot Desk Attributes data entry page. Click **[Save]** button after changing Value.

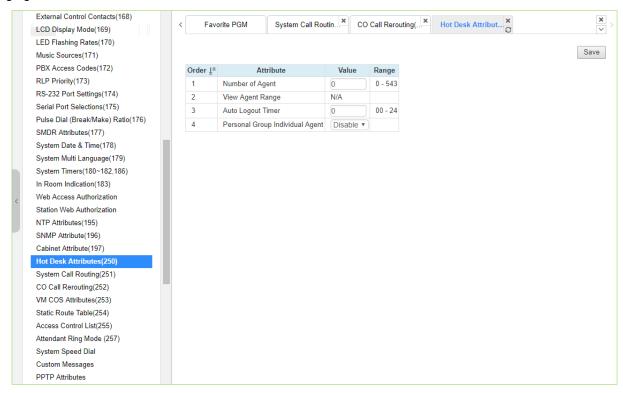


Figure 4.4.5.35-1 Hot Desk Attributes

Hot Desk feature is available only for LIP phone, NOT for Digital phone and LIP-8002/2E.

A Hot Desk station allows a user to login for access to the system features and resources. Once logged in, the user is provided access to system features and resources employing the database for the user's assigned station.

User station numbers, which are used as the Agent ID, are assigned automatically by the system. The system assigns station numbers to each agent starting at the highest station number available.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Number of Agent	Assign number of Hot desk agent.	eMG80/100: 0-100 eMG800: 0-300 UCP:0-1200	0
View Agent Range	View the assigned station numbers for agents.		N/A
Auto Logout Timer	A Hot desk station will return to inactive if the logged in user takes no action for the Auto Logout timer.	00~24 Hrs.	00
Personal Group Individual Agent	If this is enabled then Hot desk login/logout will work individually. To use UCS call control then it should be enabled.	Enable/Disable	Disable

Table 4.4.5.35-1 HOT DESK ATTRIBUTES

4.4.5.36 System Call Routing - PGM 251

Selecting System Call Routing will display the System Call Routing data entry page. Enter a valid Index range and click **[Load]** to enter Call Routing data. Click **[Save]** button after changing Value.

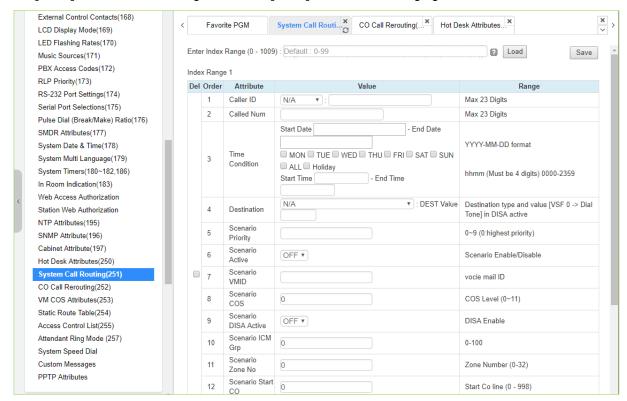


Figure 4.4.5.36-1 System Call Routing

System Call Routing establishes scenarios with criteria to route calls. Criteria include time 0f day, day of week, Caller and Called numbers, etc. System Call Routing takes precedent over other system based call routing. However, Station and CO Call Routing scenarios take precedence over System Call Routing scenarios.

RANGE DEFAULT ATTRIBUTE DESCRIPTION Max. 23 N/A Caller ID This field defines the Caller Id for the scenario. Digits Max. 23 Called Num This field defines the Called number for this scenario. Digits Time condition (Start Day and End The time and day for activation of the scenario can be defined. Refer to Day, weeks, start YYYY-MM-DDhhmm(Must be 4 digits) description time and end time) This field defines the destination type and value for call routing when the scenario criteria are met. Destination (Type Refer to N/A, STA, Station Group, SPD, PABX, VSF, VSF(#), Net N/A and Value) description Station, Company room, INT Page, EXT Page, All Page, VM, ICLID Table 0-9 Each scenario can be assigned a priority. The highest priority (Highest Scenario Priority scenario meeting the criteria is used to route the call.

Table 4.4.5.36-1 System Call Routing Attributes

priority)

Table 4.4.5.36-1 System Call Routing Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Scenario Active	A scenario must be active to be employed. If not active the scenario is ignored.	ON OFF	OFF
Scenario VMID	A Voice Mail Id can be associated with the scenario for routing to a Voice Mailbox.	Voice mail ID	
Scenario COS	If DISA is active for the scenario, the COS can be assigned for the call. 0-11(COS level)	Refer to description	0
Scenario DISA Active	The scenario can employ DISA for the incoming call routing.	OFF/ ON	OFF
Scenario ICM Group	The scenario can route calls to a specific Tenancy group. eMG80/100:0-15, eMG800:0-32, UCP:0-100	Refer to description	0
Scenario Zone No.	A zone can be assigned so that only CO calls to a CO/IP Line in the Zone will route based on the scenario.	0-32	0
Scenario Start CO and End CO	This field defines a range of CO/IP Lines that will employ to the scenario. eMG80/100:0-74, eMG800:0-600, UCP:0-998	Refer to description	0
Scenario Group: this is used for scenario group by attendant.	Scenarios can be group allowing the Attendant to select a group of scenarios to route calls. • eMG80/100: Group number(01~15/ 00: unused), • eMG800: Group number(01~32/ 00: unused), • UCP: 0-100	Refer to description	0
Zone Holiday	A Zone can be assigned for routing calls using the scenario during Holiday periods defined for the Zone.	0-32	0

4.4.5.37 CO Call Rerouting - PGM 252

Selecting CO Call Rerouting will display the CO Call Rerouting data entry page. Enter a valid Index range and click **[Load]** to enter Call Routing data.Click **[Save]** button after changing Value.

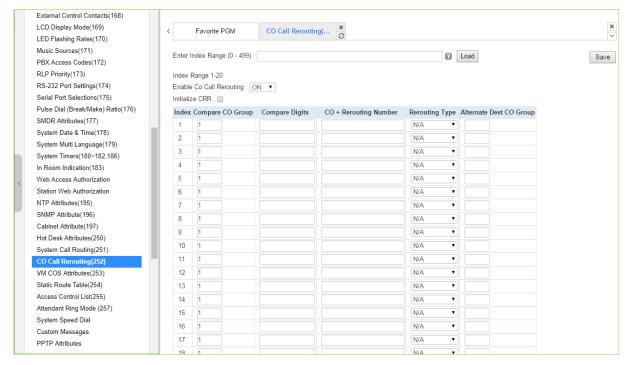


Figure 4.4.5.37-1 CO Call Rerouting

CO Call Rerouting establishes routing for CO/IP calls with a specified caller id on CO/IP Lines from a specified group. The rerouting sends calls out over another CO/IP Line or group, a network destination, a DISA call or to another station. The incoming CO group and compare digits determine if the call should be rerouted and the destination is determined by the CO code and Telephone number, which is dialed when the incoming group and compare digits are matched. The routing type determines if the call is routed normal (N/A) or if the call is routed over a network or employs DISA. The example CRR chart is as below

Index	Incoming CO group	Compare Code	CO Code + Tel number	Routing Type
0	1	454	88005123456	N/A
1	2	456**	8901123456	N/A
2	1	42*555	9123456	N/A
3	5	353	8901123456	NET Type
4	5	401		DISA Type

- Index 0: If an incoming call on a CO/IP Line from group has digits "454" then seize CO 5 and send digit 123456.
- Index 1: If an incoming call on a CO/IP Line from group 2 has digits "456**" then seize CO group 1 and send digit 123456.
- Index 2: If an incoming call on a CO/IP Line from group1 has digits "42*555" then seize the first CO/IP Line and send digit 123456.
- Index 3;ifan incoming call on a CO/IP Line from group 5 has digits "353" then seize CO group 1 and send digit 123456 as atransit-out call over the Network.
- Index 4: If an incoming call on a CO/IP Line from group 5 has digits "401" then activate DISA and await digits from the caller.

4.4.5.38 VM COS Attributes - PGM 253

Selecting VM COS Attributes will display the VM COS Attributes data entry page. Select a valid VM COS and click **[Load]** to enter VM COS data.Click **[Save]** button after changing Value.

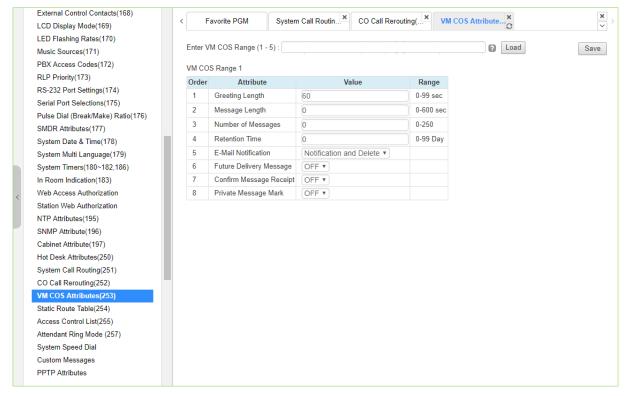


Figure 4.4.5.38-1 VM COS Attributes

VM COS establishes various common characteristics of the user's Voice Mailbox including greeting and message length, E-mail notification, message retention, etc.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT		
Greeting Length	This defines maximum user greeting length.	0- 99(Seconds)	60		
Message Length	This defines maximum user message recording time.	0- 600(Seconds)	0		
Number Of Messages	This defines maximum number of voice mail message.	0-250	0		
Retention Time	Voice mail messages will be automatically deleted after this number of days.	0-99Days	0		
E-Mail Notification	E-mail notification can be enabled or disabled and, if enabled, the message can be deleted after notification. Disable, Notification Only, Notification & Delete	Refer to description	Notification & Delete		
Future Delivery Message	Future Delivery of messages can be enabled or disabled.	OFF ON	OFF		
Confirm Message Receipt	Confirm message receipt can be enabled or disabled.	OFF ON	OFF		
Private Message Mark	Private message mark can be enabled or disabled.	OFF ON	OFF		

Table 4.4.5.38-1 VM COS ATTRIBUTES

4.4.5.39 Static Route Attributes - PGM 254

Selecting Static route Attributes will display the static route attributes data entry page. Click **[Save]** button after changing Value.

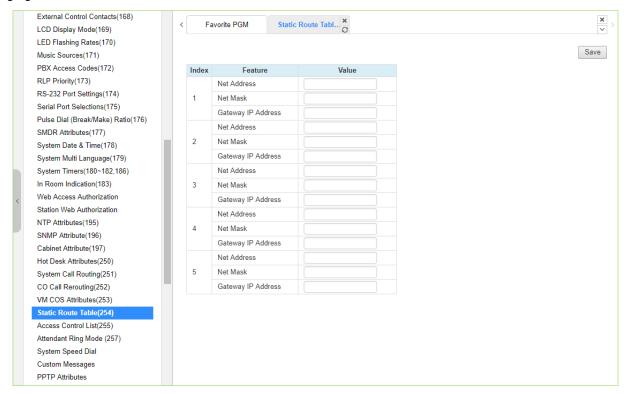


Figure 4.4.5.39-1 Static Route Table Attributes

Table 4.4.5.39-1 STATIC ROUTE TABLE ATTIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net address	Network IP address	IP address	
Net mask	Net mask		
Gateway IP address	Gateway(route) IP address	IP address	

4.4.5.40 Access Control List - PGM 255

Access Control List will display the access control attributes data entry page. Enter a valid index range and click **[Load]** to enter ACL data.Click **[Save]** button after changing Value.

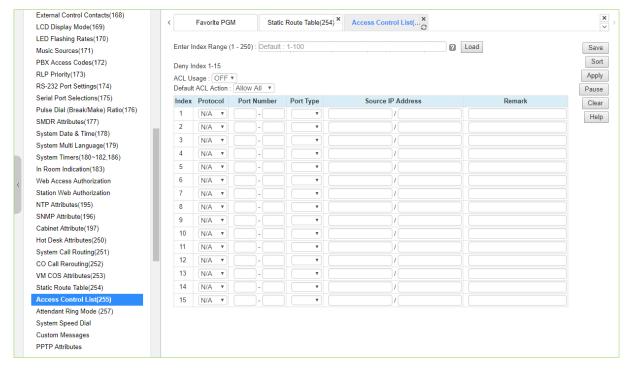


Figure 4.4.5.40-1 Access Control List

Access Control determines the Source IP addresses that can access the system for specific protocols.

defined by this field.

This is a general remark field.

Remark

ATTRIBUTE DESCRIPTION RANGE DEFAULT This field definesthe accessing protocol type. Refer to Protocol N/A N/A, ALL, TCP, UDP, ICMP description Port number This field further defines the protocol TCP/IP port number. DEST/ The port number can be configured as either the source or Port type destination port number. SRC The allowed source IP address and net mask allowed access is Source IP address

Table 4.4.5.40-1 ACCESS CONTROL LIST

4.4.5.41 Attendant Ring Mode – PGM 257

Selecting Attendant ring mode will display Attendant ring mode entry page. Click **[Save]** button after changing Value.

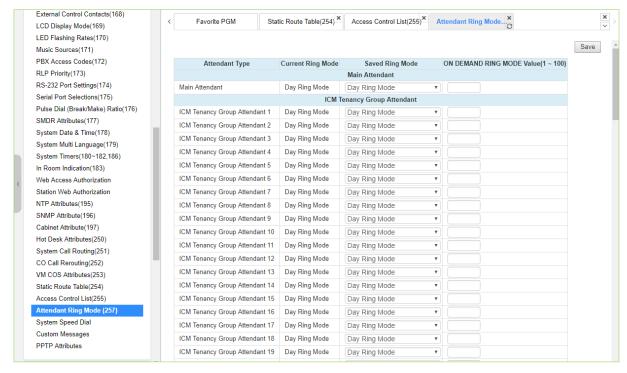


Figure 4.4.5.41-1 Attendant Ring Mode

Administrator assigns the ring mode to 1 Main attendant and 15 ICM Tenancy Group Attendant.

Five ring modes are supported as Day, Night, Timed, Auto, On demand ring mode (eMG80/100: 1~15/eMG800: 1~32/UCP: 1~100).

The Attendant controls the system Ring mode changing from Auto ring Mode to Day, Night, Timed or On demand ring mode. Based on the ring mode selected in the field of Saved Ring Mode, different ring assignments, COS (Class of Service) and answering privileges are invoked for the system users.

In case Main attendant select the other ring mode of Day ring mode in the field of Saved Ring Mode, ICM Tenancy group attendant controls the system ring mode instead of Main attendant. So Current Ring Mode and Saved Ring Mode of ICM Tenancy group attendant may be different.

4.4.5.42 System Speed Dial

Selecting System Speed Dial will display the System Speed Dial entry page. Enter a valid range of System Speed Dial numbers and click **[Load]** to enter Speed Dial data. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

The index range is flexible according to selecting Speed Numbering' in 'System ID (100)'.

Enter Index range: eMG80/100: 2000-4999 / eMG800: 2000-9999 / UCP: 20000-31999

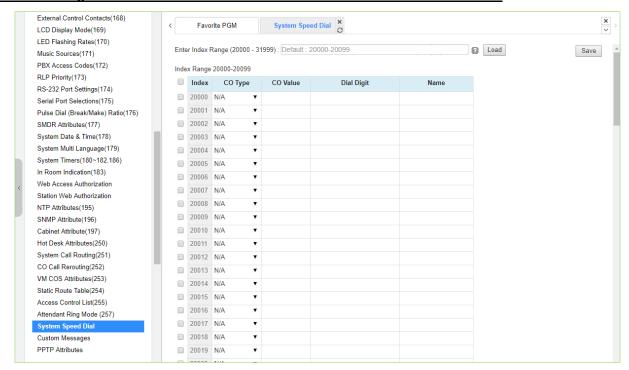


Figure 4.4.5.42-1 System Speed Dial List

The eMG80/100 (eMG800/UCP) has memory for 3000(8000/12,000) Speed Dial numbers of up to 25 digits each. Each System Speed bin (index) is assigned the CO/IP Line for the Speed Dial, the number to be dialed and a name for Dial-by-Name.

Administrator can assign each index to the desired speed number by entering CO Type, CO value, Dial Digit, and name. In the field of CO Type, there are many types; N/A, CO Line, CO Group, Loop, Transit-out, and Net Station. According to the CO type, you can fill out CO Value, Dial digit, and Name.

Network station number can be saved in speed dial that could be used for Dial by Name.It is used to use dial by name feature for networking number.

4.4.5.43 Custom Messages

Selecting Custom Messages will display the Custom Message Table data entry page. Click **[Save]** button after changing Value.

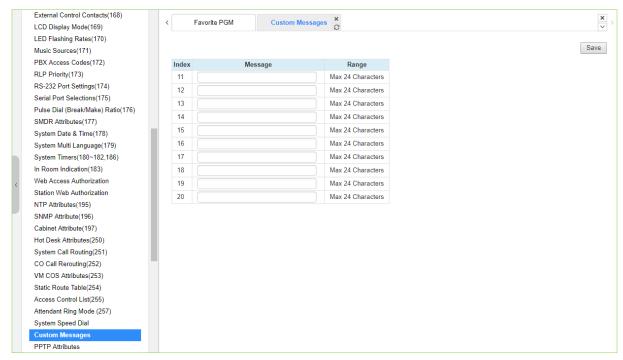


Figure 4.4.5.43-1 Custom Message

The system's 10 Custom messages can be defined with up to 24 characters each

4.4.5.44 PPTP Attributes

Selecting PPTP Attributes will display the PPTP Attributes Table data entry page. Click **[Save]** button after changing Value.

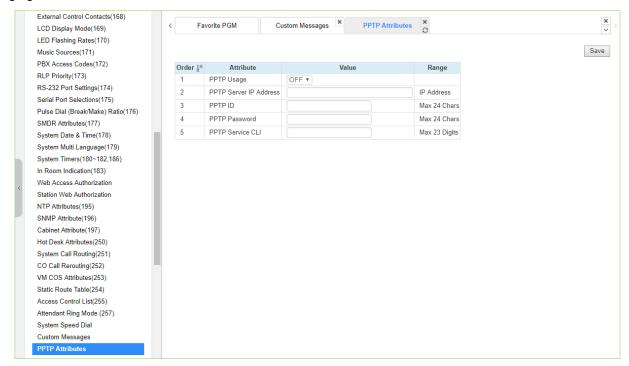


Figure 4.4.5.44-1 PPTP Attributes

When required, the system supports Point to Point Tunneling Protocol (PPTP). PPTP must be enabled and values for the PPTP server IP address, Id and password must be entered and a server name may be entered.

4.4.5.45 PPP Attributes for eMG- PGM 205

Selecting PPP Attributes will display the PPP Attributes data entry page. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

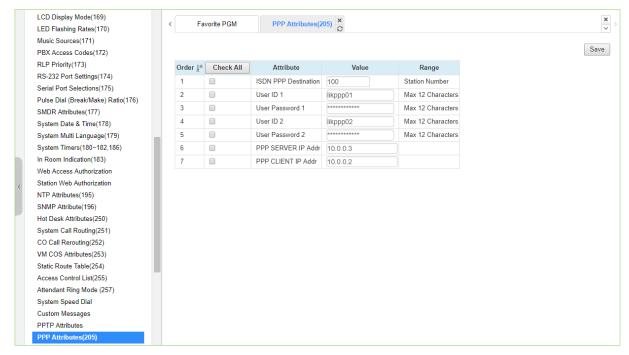


Figure 4.4.5.45 PPP Attributes

In addition to remote access via an IP network connection, the system database may be accessed remotely via an ISDN connection. Placing a call over an ISDN Line to the designated PPP Station will provide a connection to the system database. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After a matching id and password are received, the iPECS Login Home page is provided.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ISDN PPP Destination	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination, the system will automatically answer the call and request PPP ID and password.	Station number	
User ID 1	The System accepts this PPP ID 1 as valid.	Max. 12 characters	likppp01
User Password 1	The password entered is used to authorize PPP ID 1.	Max. 12 characters	lpkts01
User ID 2	The System accepts this PPP ID 2 as valid.	Max. 12 characters	likppp02
User Password 2	The password entered is used to authorize PPP ID 2.	Max. 12 characters	lpkts02
PPP Server IP Address	When configured, the PPP Server IP Address must match this entry. To apply this option the system must be restarted.	IP Address	
PPP Client IP Address	When configured, the PPP Client IP Address must match this entry. To apply this option the system must be restarted.	IP Address	

4.4.6 Station Group Data

Selecting the Station Group Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

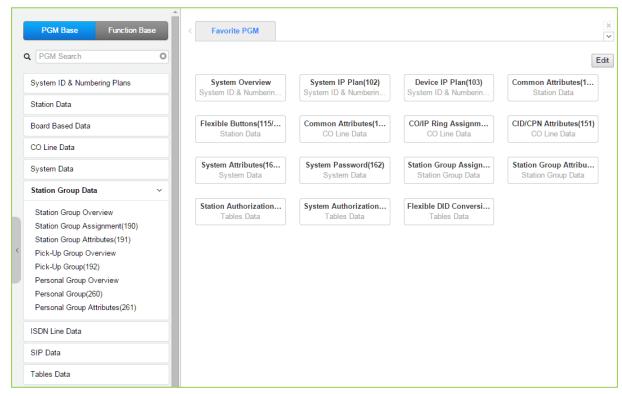


Figure 4.4.6-1 Station Group Data

Stations can be grouped so that incoming calls will search (Station) for an idle station in the group. The system allows assignment of three Station processes, Circular, Terminal and ACD. In addition, there are eight (8) functional groups available: ACD (Automatic Call Distribution) based on ACD station, Ring, Call Pick-Up, External Voice Mail (SLT connected), VSF-Voice Mail, iPECS Feature Server Voice Mail and Network Voice Mail, and UCS Groups.

Certain types of groups can incorporate announcements, which are given to the calling party. The system's VSF can store up to two hundreds (200) announcements for use with Station Groups.

Note that a station can belong to multiple groups if the groups are all of the same type. Also note that when a station group is assigned to a group type (Circular, Terminal, ACD, VM, FS VM, VSF-VM, Net VM, UCS and Ring), the group attributes are initialized to the default values.

4.4.6.1 Station Group Overview

Selecting the Station Group Overview item will return the Station Group Overview page. This page displays the Station Group attributes (type, pick-up attribute, Member list, and Group name) for all the Station Groups.

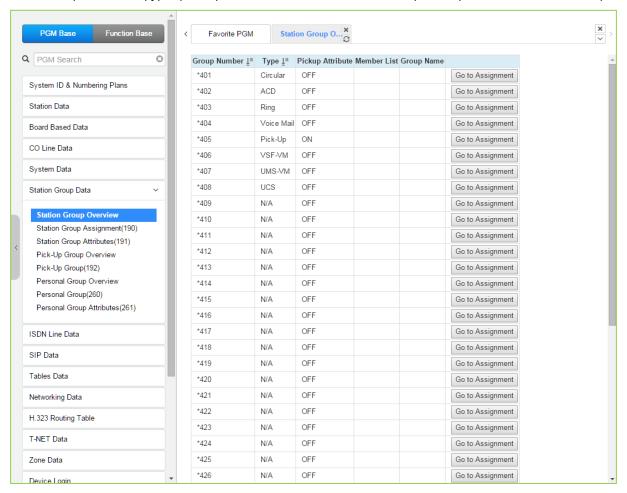


Figure 4.4.6.1-1 Station Group Overview

All information of each group will be displayed and changed the assignment on this page.

Each Group can be assigned Type, Pickup attributes, Member list, and Group name by clicking "Go to Assignment" on this page. Station Group Assignment (190) will be displayed and directly go to Station Group Attributes (191) of the group by clicking "Go to Attributes".

4.4.6.2 Station Group Assignment - PGM 190

Selecting Station Group Assignment will display the Station Group data entry page. Enter the desired Station Group number and click **[Load]** to display the Group Assignment.

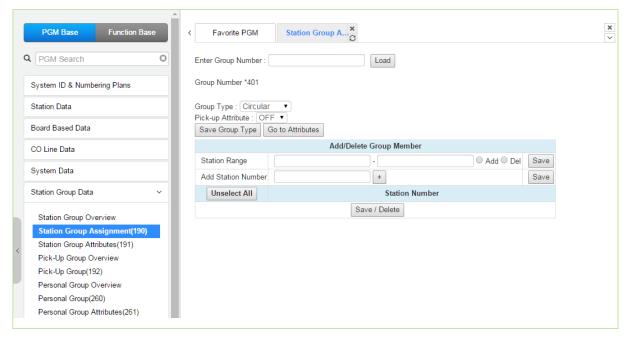


Figure 4.4.6.2-1 Station Group Assignments

Under Station Group Assignments the type, members and Pick-Up attributes are assigned to the Station Group. Note for the Net VM group, the network number must be assigned as the Net VM group member station.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Group Type	Defines the type of station group. N/A, Circular, Terminal, ACD, Ring, Voice Mail, Pick-Up, VSF-VM, UMS VM, NET VM, UCS	Refer to description	N/A
Pick-up Attribute	Stations can pick-up group calls ringing at other stations in the group. This does not apply to the VM groups.	OFF ON	OFF
Member	Assigns stations as members of a station group or, for the Net VM group type, defines the Net Number of the group.		-

Table 4.4.6.2-1 STATION GROUP ASSIGNMENT

4.4.6.3 Station Group Attributes - PGM 191

Selecting Station Group Attributes will display the Station Group Attributes data entry page. Enter the Station Group number and click **[Load]**, the Web page for the selected group will be displayed as in Figure 4.4.6.3-1 to Figure 4.4.6.3-8 based on the Group type.

Each type of group has a different set of available attributes relating to announcements, timers, overflow, etc. Table 4.4.6.3-1 through Table 4.4.6.3-8 provides descriptions for the attributes and data entries required. Note that the attributes for the Circular and Terminal Station groups are given in Table 4.4.6.3-1 and the UCD attributes include the ACD functions Table 4.4.6.3-2.

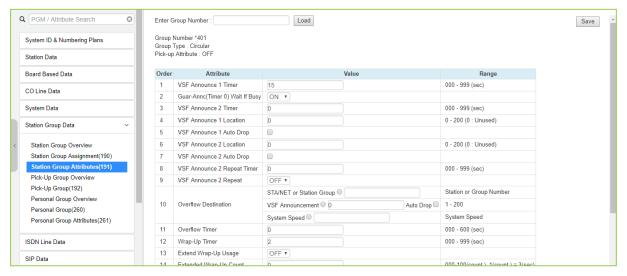


Figure 4.4.6.3-1 Terminal & Circular Group Attributes

Table 4.4.6.3-1 TERMINAL & CIRCULAR GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the station process (guaranteed announcement).	000~999 (seconds)	015
Guar-Annc(Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement (OFF).	OFF ON	ON
VSF Announce 2 Timer	After the 1st announcement, the 2nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is the VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	

Table 4.4.6.3-1 TERMINAL & CIRCULAR GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 2 Location	The Station Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is the VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement.	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to callers that remain in queue at intervals of the Announcement 2 Repeat Timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the Announce 2 Repeat Timer interval, defined above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or route to the assigned overflow destination. If VSF Announcement is selected, Auto Drop can be checked.STA/NET or Station Group, VSF Announcement, Auto Drop, System SPD	Refer to description	
Overflow Timer	A call to the group will remain at the last station in the group or can be sent to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
Wrap-Up Timer	After terminating a group call, a Group member will be maintained in a busy state for the duration of the Wrap-Up timer.	000~999 (seconds)	002
Extend Wrap-Up Usage	Sometimes, special wrap-up duration is required for an agent to allow the agent to do follow-up actions after hold or park a call connected. The basic wrap-up duration is not enough to care for an agent to allow some more extended interval before receiving a new incoming ring. • Following rings are protected for the agent in wrap-up duration. • New incoming Station Group call • Queued call or indication ring • New incoming normal internal or external call • Following rings are not protected by the wrap-up duration. • Directly transferred call to the agent • Recalling ring	OFF ON	OFF
Extended Wrap- Up Count	In every 1 count (3 seconds), system checks the status of a held/parked Station Group call. If none of held/parked Station Group call remained then system clears the wrap-up status for the agent automatically.	000-100 (count),	0
Extended Wrap- Up Count	If any of held/parked Station Group call remained then system continues the wrap-up status during next 1 count(3 seconds) till the max count of this input.	1(count) = 3(sec)	0

Table 4.4.6.3-1 TERMINAL & CIRCULAR GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
No Answer Timer	Calls to a station in the group are directed to the station, if unavailable or unanswered in the No Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
Pilot Station Group	A circular/terminal Station group can be set so that only calls to the pilot number (station group number) will hunt.	OFF ON	ON
REPT No Member	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	OFF ON	OFF
Music Source	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone. Ring back tone, Internal Music, External Music VSF MOH, SLT MOH1~5, VSF MOH2~30	Refer to description	Internal Music
Allow Forward Member	A member activating Call forward may be placed in an unavailable state for Station group calls (ON). When OFF, group calls are sent to the member as normal (OFF).	OFF ON	ON
Mailbox Message Wait Station	When a call overflows or routes to the VM group, a station number is used to identify the Mailbox for the group messages.	Station Number	
Mailbox Password	The password associated with a group Mailbox is defined here. The password is used in conjunction with the group Mailbox as with a normal station.	Max. 12 digits	
Forced Forward Destination	Calls to a Station group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled. STA/NET or Station group, VSF Announcement, Sys. Speed	Refer to description	
Forced Forward Destination Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A name can be designated for the group.	Max. 12 characters	
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF Announcement 1, if assigned, is played.	00-99	99
Ring Tone	When a call is routed to a group, programmed ring tone is served to the group member.	00-16 (00:N/A)	0
Group Ring Back Tone	 When group member is ringing for group, The ring back tone can be provided to the caller according to ring back tone for group. Ring back tone: ring back tone is provided when the member for gropu is ringing MOH: MOH is provided when the member for group is ringing. MOH (after connection): MOH is provided when system answered the call 	Refer to description	Ring back tone

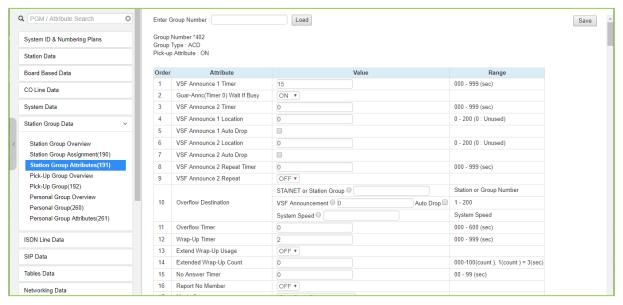


Figure 4.4.6.3-2 ACD Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
Guar-Annc (Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement. (OFF)	OFF ON	ON
VSF Announce 2 Timer	After the 1st announcement, a 2nd timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	Each Station Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement		
VSF Announce 2 Location	The Station Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the VSF Announce 2 Repeat Timer. Note repeating must be "ON" under VSF Announce 2 Repeat below.	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce 2 Repeat Timer interval.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will queue to the group or route to the assigned Overflow Destination. If VSF Announce is assigned, Auto Drop is available. • STA/NET or Station Group, • VSF Announcement, • Auto Drop, • System SPD	Refer to description	
Overflow Timer	A call to a group will remain queued to the group or be sent to the assigned Overflow Destination after expiration of the Overflow Timer	000~600 (seconds)	180
Wrap-Up Timer	After terminating a group call, a Station Group member will be maintained in a busy state for the duration of the Wrap-Up timer.	000~999 (seconds)	002
Extend Wrap-Up Usage	Sometimes, special wrap-up duration is required for an agent to allow the agent to do follow-up actions after hold or park a call connected. The basic wrap-up duration is not enough to care for an agent to allow some more extended interval before receiving a new incoming ring. Following rings are protected for the agent in wrap-up duration. New incoming Station Group call Queued call or indication ring New incoming normal internal or external call Following rings are not protected by the wrap-up duration. Directly transferred call to the agent Recalling ring	OFF ON	OFF
Extended Wrap- Up Count	In every 1 count (3 seconds), system checks the status of a held/parked Station Group call. If none of held/parked Station Group call remained then system clears the wrap-up status for the agent automatically. If any of held/parked Station Group call remained then system continues the wrap-up status during next 1 count(3 seconds) till the max count of this input.	000-100 (count), 1(count) = 3(sec)	0
ACD No Answer Timer	Calls to an agent in the group are directed to the station, if unanswered in the NO ANSWER TIMER, the call can be routed another agent	00-99 (seconds)	00

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
REPT No Member	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the	OFF	OFF
	overflow destination.	ON	
	A Music source can be assigned so that calls to the group will		
	receive audio from the assigned source in place of ring-back		
	tone while in queue.		
Music Source	• Ring back tone,	Refer to	Internal
Music Source	• Internal Music,	description	Music
	External Music, VSE MOH		
	V SI IVIOTI,		
	• SLT MOH1~5,		
	VSF MOH2~30 An ACD supervisor can monitor agent convergations. A warning.		
ACD Warning	An ACD supervisor can monitor agent conversations. A warning	OFF	OFF
Tone	tone can be provided to the agent and connected party when the	ON	OFF
	supervisor activates the monitor feature.		
	When a call comes into the group and there are no group		
Alternate	members available, the call will be routed to the assigned	Refer to	
Destination	Alternate Destination.	description	
	STA/NET or Station, Group, System SPD		
	When calls have been in queue longer than the Supervisor	000~999 (seconds)	
Supervisor Timer	Timer, the ACD supervisor is notified by a display of the longest		030
	queue time.	(SCCOTIGS)	
Supervisor Call	When the number of calls in queue exceeds the Supervisor Call		
Count	Count, the ACD Supervisor is notified by a display of queued	00~99	00
Count	calls.		
Marrian or Orona d	When the number of calls queued to the group match this		
Maximum Queued	parameter, new calls will receive error tone and be disconnected	00-99	99
Call Counter	after the VSF Announcement 1, if assigned, is played.		
	Any valid iPECS IP or LDP Phone with display can be assigned		
Supervisor 1 to 5	as a Supervisor, max. 5 ACD Supervisors.	Station	
	This parameter sets the duration a station will receive ring		
ACD DND Wrap	before the system places the station in ACD DND and	002~200	
Timer	unavailable for group calls. A setting of '00' disables automatic	(Sec.)	010
	ACD DND.		
	Within 5 seconds of a guaranteed announcement, the caller may		
Entered Caller ID	dial digits as an ICLID. The user-dialed digits are compared to	OFF	
ICLID Usage	the ICLID Table entries, for routing or, for a single dialed digit, to	ON	OFF
10212 Coago	the ACD CCR table below.		
	A member activating Call Forward may be placed in an		
Forward Member Calls	unavailable state for Station group calls (ON). When OFF, group	Refer to	
	calls are sent to the member as normal.		ON
		description	
	OFF : no FWD, ON : FWD	Max. 12	
Group Name	An ACD group name can be designated.	characters	
		unaracters	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CIQ Route 1			
CIQ Route 2	When an ACD call is queued, the caller may be allowed to dial a digit to exit the queue and route to another destination. The		
CIQ Route 3			
CIQ Route 4	alternate destination is based on the user-dialed digit and can be a station, Station group, system-speed bin, or network station.		
CIQ Route 5	Dial the digit below for the type of destination and enter the		Not
CIQ Route 6	value associated with the destination.		selected
CIQ Route 7	1: Enter a station number.		
CIQ Route 8	2: Enter a Station group number.		
CIQ Route 9	3: Enter a system speed bin.		
CIQ Route 0	4: Enter a network station number		
ZAP Tone	Agents using a headset can have ACD calls connected to them automatically preceded by a tone (Zap tone).	OFF ON	OFF
CIQ	If enabled, queued callers receive the CIQ message (You are #	OFF	0==
Announcement	in queue) after the 1st and 2nd announcement.	ON	OFF
Mailbox Message Wait Station	When an ACD call overflows or routes to the VM group, a station number is used to identify the Mailbox for the ACD group messages	Station number	
Mailbox Password	The password associated with an ACD group Mailbox is defined here. The password is used in conjunction with the ACD group Mailbox as with a normal station.	Max. 12 digits	
CIQ Display To	When an ACD call is in queue, the Call in queue information is	OFF	OFF
Agent - Mode	displayed in the LCD of agent and supervisor phones.	ON	OFF
CIQ Page VM Slot	If the queued call count exceeds the threshold, the system plays the CIQ Alert Announcement. You can fill out the sequence number of UVM module for CIQ Alert Announcement in case of being CPU Redundancy. The sequence number of UVMU is used for CIQ Alert announcement by default, but the UVMU is out of service during Redundancy so that the sequence number of UVM is needed for happening Redundancy.	VM Sequence number	0
CIQ #1 Page Alert -Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #1 Announcement to the CIQ #1 Page Zone after the CIQ #1 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #1 Announcement Repeat Timer.	00-99	10
CIQ #1 Page Alert -Announcement Location	VSF announcement number for the CIQ #1 Announcement.	00-200	0
	Page Zone to receive CIQ #1 Announcement. eMG80/100:00~15 or00-40, eMG800:0~105, UCP:0~105	Refer to description	00
CIQ #1 Page Alert -Delay Time	Delay timer for CIQ #1 Announcement	000-180	015

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CIQ #1 Page Alert -Repeat Time	Interval for repeating the CIQ #1 Announcement.	000-180	045
CIQ #2 Page Alert -Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #2 Announcement to the CIQ #2 Page Zone after the CIQ #2 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #2 Announcement Repeat Timer.	00-99	20
CIQ #2 Page Alert -Announcement Location	VSF announcement number for the CIQ #2 Announcement.	00-200	0
CIQ #2 Page Alert – Page Zone	Page Zone to receive CIQ #2 Announcement. eMG80/100:00~15 or00-40, eMG800:0~105, UCP:0~105	Refer to description	00
CIQ #2 Page Alert -Delay Time	Delay timer for CIQ #2 Announcement	000-180	015
CIQ #2 Page Alert -Repeat Time	Interval for repeating the CIQ #2 Announcement.	000-180	025
CIQ #3 Page Alert -Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #3 Announcement to the CIQ #3 Page Zone after the CIQ #3 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #3 Announcement Repeat Timer.	00-99	30
CIQ #3 Page Alert -Announcement Location	VSF announcement number for the CIQ #3 Announcement.	00-200	0
CIQ #3 Page Alert – PageZone	Page Zone to receive the CIQ #3 Announcement. eMG80/100:00~15 or00-40, eMG800:0~105, UCP:0~105	Refer to description	00
CIQ #3 Page Alert -Delay Time	Delay timer for the CIQ #3 Announcement	000-180	015
CIQ #3 Page Alert -Repeat Time	Interval for repeating the CIQ #3 Announcement.	000-180	005
Forced Forward Destination	Calls to a Station group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled. • STA/NET or Station group, • VSF Announcement, • Sys. Speed	Refer to description	
Forced Forward Dest.Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Ring Mode	Reference table of Auto Ring Mode Table Time for ACD Group Ring Mode.When Manual Change is selected, the Group supervisor can change the ACD group ring mode manually with ACD Group Ring Mode flexible number. Manual Change eMG: Table 0 ~ 15, UCP: Table 0 ~ 100	Refer to description	Manual Change
Day Destination	When the ACD Ring Mode Table schedule is in the Day mode, ACD group calls route to the destination defined here. Normal Service, STA/NET or Station group, VSF Announcement, Sys. Speed	Refer to description	Normal Service
Night Destination	When the ACD Ring Mode Table schedule is in the Night mode, ACD group calls route to the destination defined here. Normal Service, STA/NET or Station group, VSF Announcement, Sys. Speed	Refer to description	Normal Service
Timed Destination	When the ACD Ring Mode Table schedule is in the Timed mode, ACD group calls route to the destination defined here. Normal Service, STA/NET or Station group, VSF Announcement, Sys. Speed	Refer to description	Normal Service
ACD Group Queuing Call Indication	If there are queued group calls, the queuing indication can be served to group members by Mute Ring and LED button flashing. OFF, ON (RING and LED), ON (LED only)	Refer to description	OFF
Route Alternative Dest by ACD DND	Call is deilvered to ACD altenative destination if all ACD member is in AND DND state.	OFF ON	ON
Ring Tone	When a call is routed to a group, programmed ring tone is served to the group member.	00-16 (00:N/A)	0
Group Ring Back Tone	 When group member is ringing for group, The ring back tone can be provided to the caller according to ring back tone for group. Ring back tone: ring back tone is provided when the member for gropu is ringing MOH: MOH is provided when the member for group is ringing. MOH (after connection): MOH is provided when system answered the call 	Refer to description	Ring back tone

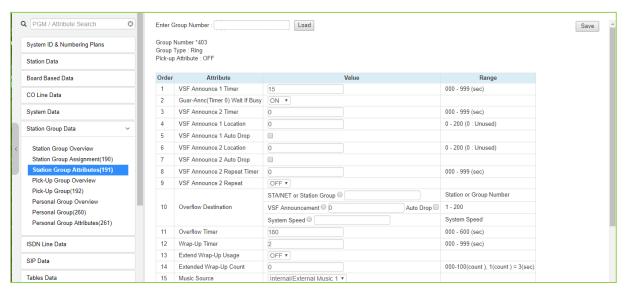


Figure 4.4.6.3-3 Ring Group Attributes

Table 4.4.6.3-3 RING GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
Guar- Ann(Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement. (OFF)	OFF ON	ON
VSF Announce 2 Timer	After the 1st announcement, a 2nd announcement Timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	Each Ring Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	
VSF Announce 2 Location	The Ring Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF announce Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement	Check box	

Table 4.4.6.3-3 RING GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF	The 2nd announcement can be repeated to calls that remain in	000~999	
Announce 2	queue at intervals of the VSF Announce 2 Repeat Timer. Note		000
Repeat Timer	VSFAnnounce 2 Repeat below must be "ON".	(seconds)	
VSF	After the 2nd announcement, if the call remains queued to the group,	055	
Announce 2	the 2nd VSF announcement can be repeated at the VSF Announce 2	OFF	OFF
Repeat	Repeat Timer interval, defined above.	ON	
	A call to the group will continue to ring group member stations until		
	answered. The call will remain at the last station or routes to the		
	assigned Overflow Destination. If VSF Announce is assigned, Auto		
Overflow	Drop is available.	Refer to	
Destination	STA/NET or Station Group,	description	
	VSF Announcement,		
	Auto Drop,		
	System SPD		
Overflow	A call to a group will remain in the group or route to the assigned	000~600	180
Timer	Overflow Destination after expiration of the Overflow Timer.	(seconds)	100
Wrap-Up	After terminating group call, a Station Group member will be	000~999	002
Timer	maintained in a busy state for the duration of the Wrap-Up Timer.	(seconds)	002
	Sometimes, special wrap-up duration is required for an agent to allow		
	the agent to do follow-up actions after hold or park a call connected.		
	The basic wrap-up duration is not enough to care for an agent to		
	allow some more extended interval before receiving a new incoming		
Extend Wrap-	ring.Following rings are protected for the agent in wrap-up duration.	OFF	
Up Usage	New incoming Station Group call	ON	OFF
op osage	Queued call or indication ring	011	
	New incoming normal internal or external call		
	Following rings are not protected by the wrap-up duration.		
	Directly transferred call to the agent		
_	Recalling ring		
	In every 1 count (3 seconds), system checks the status of a		
	held/parked Station Group call.	000-100	
Extended	If none of held/parked Station Group call remained then system	(count),	
Wrap-Up	clears the wrap-up status for the agent automatically.	1(count) =	0
Count	If any of held/parked Station Group call remained then system	3(sec)	
	continues the wrap-up status during next 1 count(3 seconds) till the		
	max count of this input.		
	A Music source can be assigned so that calls to the group will receive		
	audio from the assigned source in place of ring-back tone.		
Music Source	Ring back tone	Defect	lata : : -!
	Internal Music	Refer to	Internal
	• External Music	description	Music
	• VSF MOH		
	• SLT MOH1~5 • VSE MOH2~30		
	• VSF MOH2~30		

Table 4.4.6.3-3 RING GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
Allow Forward Member	A member activating Call Forward may be placed in an unavailable state for Station group calls (ON). When OFF, group calls are sent to the member as normal. OFF: no FWD, ON: FWD	Refer to description	ON
Group name	A group name can be designated.	Max.12cha racters	
Mailbox Message Wait Station	When a call overflows or routes to the VM group, a station number is used to identify the Mailbox for the group messages.	Station number	
Mailbox Password	The password associated with the group Mailbox is defined here. The password is used in conjunction with the group Mailbox as with a normal station.	Max. 12 digits	
Forced Forward Destination	Calls to a Station group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled. • STA/NET or Station group, • VSF Announcement, • Sys. Speed	Refer to description	
Forced Forward Dest Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward isenabled for the group.	OFF ON	OFF
Ring group indication	When a station calls a Ring Group, DSS/BLF buttons assigned for the calling station will flash and muted ring is received. OFF, ON (Ring and LED), ON (LED only)	Refer to description	ON (Ring and LED)
Ring Tone	When a call is routed to a group, programmed ring tone is served to the group member.	00-16 (00:N/A)	0
Group Ring Back Tone	 When group member is ringing for group, The ring back tone can be provided to the caller according to ring back tone for group. Ring back tone: ring back tone is provided when the member for gropu is ringing MOH: MOH is provided when the member for group is ringing. MOH (after connection): MOH is provided when system answered the call 	Refer to description	Ring back tone

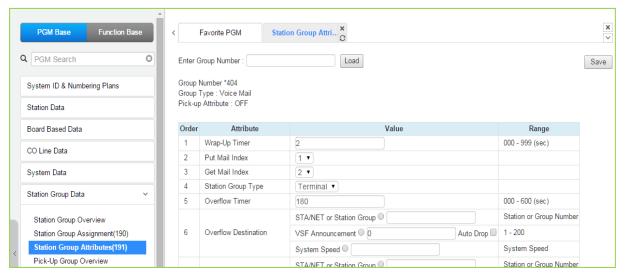


Figure 4.4.6.3-4 External Voice Mail Group Attributes

Table 4.4.6.3-4 EXTERNAL VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Wrap-Up Timer	After terminating a group call, the VM port will be maintained in a busy state for the duration of the Wrap-Up timer.	000~900 (seconds)	002
Put Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table that contains the "Put Mail" dial code.	1~4	1
Get Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table that contains the "Get Mail" dial code.	1~4	2
Station Group Type	The type of Station Group process applied to the SLT ports connected to the VM can be assigned as Circular or Terminal.	Terminal/ Circular	Terminal
Overflow Timer	A call to a group will remain at the last station in the group or be sent to the assigned Overflow Destination after expiration of the Overflow Time.	000~600 (seconds)	180
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or will route to the assigned Overflow Destination. If assigned VSF Announce, Auto Drop is available. • STA/NET or Station Group, • VSF Announcement, • Auto Drop, • System Speed	Refer to description	-

Table 4.4.6.3-4 EXTERNAL VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Forced Forward Destination	Calls to a Station group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled. • STA/NET or Station group, • VSF Announcement,	Refer to description	
Forced Forward Dest Usage	Sys. Speed Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A group name can be designated.	Max. 12 character	
Server type	When a third party SIP server is used for AA/VM, or the IPCR or third party SIP recording server is used, the server type must be selected.	IPCR/ 3rd party	3rd party
Server number	Each IPCR and third party SIP server must be assigned a server number from 01 ~ 10 which correlates this group with an Agent table.	eMG: 0-2 UPC:0-10	0
Member Type	Member type is assigned as SLT type or SIP Type. In case of SIP Type, enter the capacity as below. eMG80/100:0-140, eMG800:0-1200, UCP:0-2400 (SLT Type/ SIP Type)	Refer to description	SLT Type



Figure 4.4.6.3-5 Pick-Up Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Pick Up	If a group member is ringing, other members of the Group can	OFF	OFF
	Pick-Up the ringing call by simply going "Off-hook".	ON	
All Ring	When a call is offered to a member of the Pick-Up Group in the	OFF	
	Tone Ring mode, all members will ring. Note Auto Pickup above		OFF
	must be "ON".	ON	

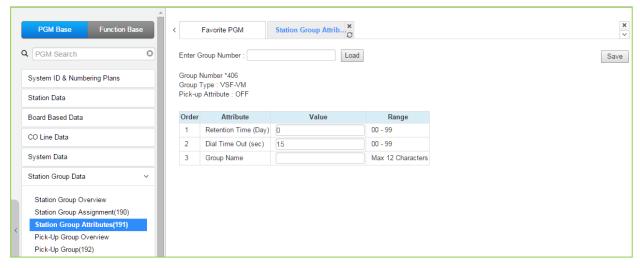


Figure 4.4.6.3-6 VSF Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Retention Time (day)	When voice messages are stored in the VSF, the system will maintain (store) the message for the maximum number of days set in this program (0 to 99 days). (Not used)	00-99 (day)	0
Dial Time Out (sec)	This timer determines the inter-digit time for a VSF-AA or a VM session. If this timer expires while the VSF AA or VM is awaiting user input, the system will assume the remote party has disconnected and will return the channel to idle.	00-99 (seconds)	15
Group Name	A group name can be designated.	Max. 12 characters	

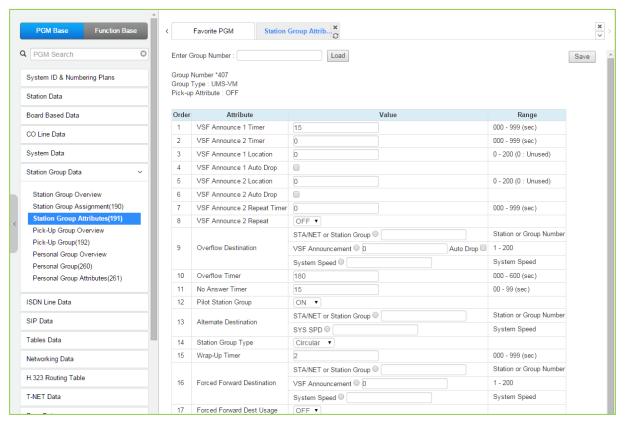


Figure 4.4.6.3-7 iPECS Feature Server Voice Mail Group (UMS-VM) Attributes

Table 4.4.6.3-7 FEATURE SERVER VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available FS-VM channel. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the station process (guaranteed announcement).	000~999 (seconds)	015
VSF Announce 2 Timer	After the 1st announcement, a 2nd Announcement Timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned VSF Announce 2 Location.	000~999 (seconds)	000
VSF Announce 1 Location	Each group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	
VSF Announce 2 Location	The Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none

Table 4.4.6.3-7 FEATURE SERVER VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement.	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the announcement 2 repeat timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce Repeat timer interval, above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or route to the assigned Overflow Destination. If assigned VSF Announce, Auto Drop is available. • STA/NET or Station group • VSF Announcement • Auto drop • System Speed	Refer to description	
Overflow Timer	A call to a group will remain at the last station in the group or route to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
No Answer Timer	Calls to a station in the group are directed to the station, if unavailable or unanswered in the No Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
Pilot Station Group	A FS-VM Station group can be set so that only calls to the pilot number (station group number) will hunt.	OFF ON	ON
Alternate Destination	When a call comes into the group and there are no group members available, the call will be routed to the assigned Alternate Destination. STA/NET or Station group, System SPD	Refer to description	
Station Group type	The Station group process for the FS-VM group can be defined as Circular or Terminal.	Circular/ Terminal	Circular
Wrap-Up Timer	After terminating any call, the FS port will be maintained in a busy state for the duration of the Wrap-Up Timer.	000~999 (seconds)	2
Forced Forward Destination	Calls to a group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled. STA/NET or Station group, VSF announcement, Sys. Speed	Refer to description	
Forced Forward Dest Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward isenabled for the group.	OFF ON	OFF
Group Name	A group name can be designated.	Max. 12 characters	

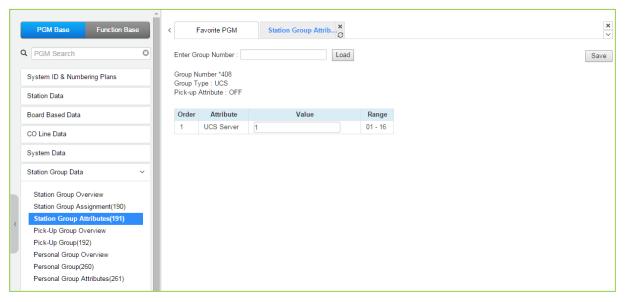


Figure 4.4.6.3-8 iPECS UCS Server Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
UC Server	UCS Server number, this value must be set to 1.	00-16	1

4.4.6.4 Pick Up Group Overview

Selecting the Pick Up Group Overview item will return the Station Pick Up Group Overview page. This page displays the Station Group member stations for all the Station Pick Up Groups. Note that data cannot be entered on this page.

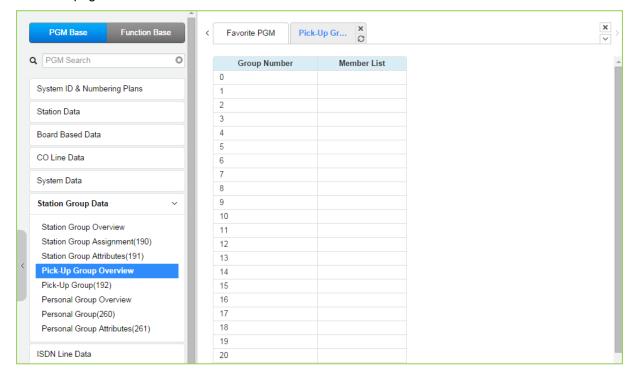


Figure 4.4.6.4-1 Pick Up Group Overview

4.4.6.5 Pick Up Group - PGM 192

Selecting Pick Up Group will display the Pick Up Group entry page. Enter the desired Pick Up Group number and click **[Load]** to display the group member Assignment.

Enter Group Number: eMG80/100: 0-49 / eMG800: 0-199 / UCP: 0-199

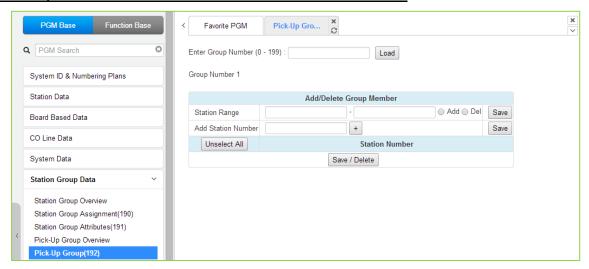


Figure 4.4.6.5-1 Pick Up Group

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Member	Assign stations as members of the Pick-Up group.		

4.4.6.6 Personal Group Overview

Selecting Personal Group Overview displays the master station and member list for all the personalgroups.

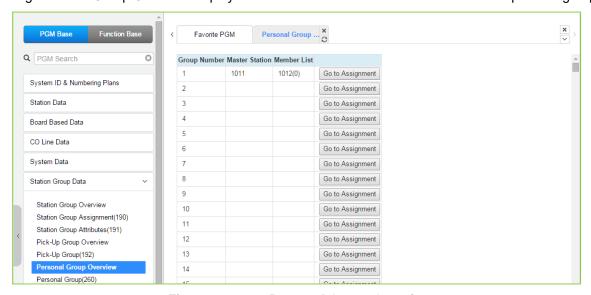


Figure 4.4.6.6-1 Personal Group Overview

Clicking **[Go to Assignment]** goes to move Personal group (260) for assigning Master station&Member Station and setting Personal group attributes directly.

4.4.6.7 Personal Group - PGM 260

Selecting Personal Group will display the Personal Group entry page. Enter a valid Personal Group number and click load to enter group data.

Enter Group Number: eMG80/100: 1-70 / eMG800: 1-600 / UCP: 1-1200

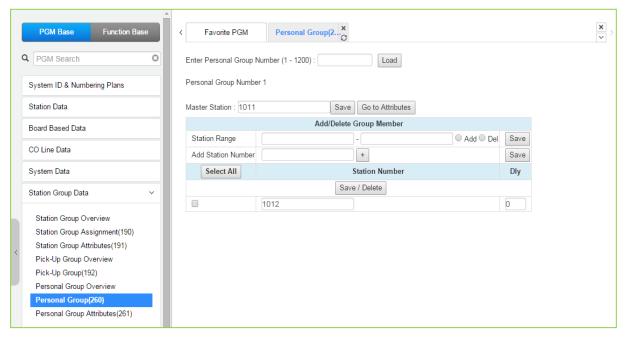


Figure 4.4.6.7-1 Personal Group

Several stations can share same station number. That means Personal Group is extended feature of Linked Pair.A Personal Group is composed with a master station and several member stations.A master station and all member stations share master station's number. In case of Member station, each member station can be set the delay (Dly) time.

By using this shared number, almost features (Call To xxx / Call From xxx / SMDR / Message Wait...) can be activated.But, some features can be chosen by PGM 261 attribute about all station activating or individual station working.

In PGM 260, Personal group master and member can be assigned.

In PGM 261, Personal group attribute can be set.

4.4.6.8 Personal Group Attribute - PGM 261

Selecting Personal Group Attribute will display the Personal Group Attribute entry page. Enter a valid Personal Group number to enter the group data. Click **[Save]** button after changing Value.

Enter Group Number: eMG80/100: 1-70 / eMG800: 1-600 / UCP: 1-1200

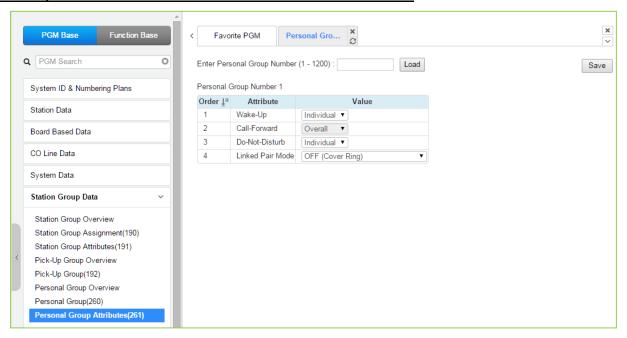


Figure 4.4.6.8-1 Personal Group Attributes

Table 4.4.6.8-1 PERSONAL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Wake-Up	If this value is set to Overall, all member wake-up follow by master wake up. If this value is set to Individual, individual wake-up is worked by each station.	Individual/ Overall	Individual
Call-Forward	If this value is set to Overall, call forward setting affect to Master and all members. If this value is set to Individual, individual Call Forward is worked by each station.	Individual/ Overall	Overall
Do-Not Disturb	If this value is set to Overall, DND setting affect to Master and all members. If this value is set to Individual, individual DND is worked by each station.	Individual/ Overall	Individual
Linked Pair Mode	If this value is set to ON, Master and Member Stations are linked and only one station can be activated. OFF (Cover Ring), ON (Cover Ring and State Sync.)	Refer to description	OFF (Cover Ring)
PAGE/PTT Receive	If this is set to Overall, PAGE and PTT calls are received by Master and all members by the Master who is belong to the PAGE zone and PTT group. If this is set to Individual, PAGE and PTT calls are received only by each station who is belong to the PAGE zone and PTT group.	Individual / Overall	Overall

4.4.7 ISDN Line Data

Selecting the ISDN Line Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

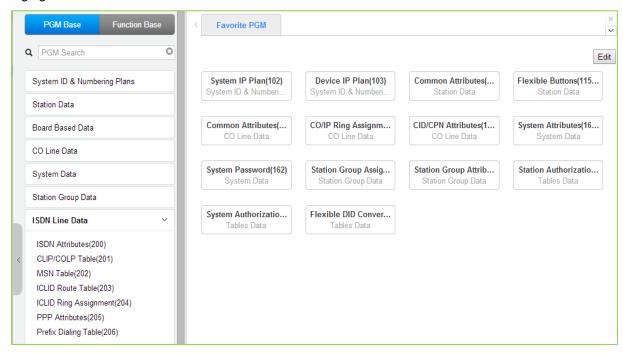


Figure 4.4.7-1 ISDN Line Data

Each ISDN (Integrated Services Digital Network) Line provides digital services to the end-user. Basic Rate Lines have three (3) channels, 2 B channels and a D channel. The 2 B channels provide 64 Kbps each, a total of 128 Kbps for "Bearer" or voice channels. The D channel provides a 16 Kbps signaling channel. Primary Rate Lines have 23/30 64 Kbps 'B' channels and 1/2 64 Kbps signaling channels. For proper operation, entries are required for various attributes and Tables to match the ISDN circuit and services.

4.4.7.1 ISDN Attributes - PGM 200

Selecting ISDN Attributes will display the ISDN Attributes data entry page. Click **[Save]** button after changing Value.



Figure 4.4.7.1-1 ISDN Attributes

ISDN attributes define several characteristics of the ISDN interface. ISDN call cost services (Advice of Charge), CLI modification, voice encoding, and other characteristics of the interface are defined, refer to the following table.

ATTRIBUTE DESCRIPTION RANGE DEFAULT When the system is set to send the station number with ISDN CLIP Max.2 CO ATD Code or COLP, either the station number or this ATD code will be sent Digits based on Common Attributes section, EXT or ATD assignment. CLI Print To The ISDN Calling Line Id may be included in call records, refer to OFF/ OFF Serial SMDR Attributes section. ON Display DID OFF/ OFF Display DID digit information on LCD and print it to serial port. Information ON Print If this set to ON, the following destination number is provided with OFF/ Destination in ring Information. OFF ON **CLI Print** Station Number, Station Group, CCR, Net station, Conference room

Table 4.4.7.1-1 ISDN ATTRIBUTES

4.4.7.2 CLIP/COLP Table - PGM 201

Selecting CLIP/COLP Table will display the CLIP/COLP Table Attributes data entry page.Click **[Save]** button after changing Value.

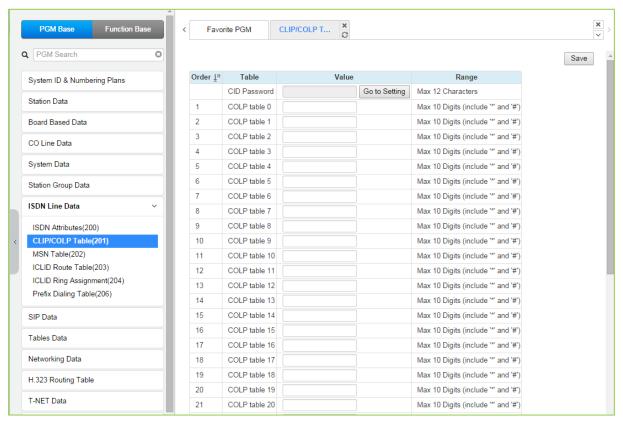


Figure 4.4.7.2-1 CLIP/COLP Table

Normally, the system will send the primary Directory Number of the ISDN Line in the ISDN call SETUP and CONNECT messages to identify the caller (CLIP) or the answering (COLP) party respectively. Under certain circumstances, it may be desirable to provide the secondary or DID number for the ISDN Line. In these cases, the CLIP/COLP Table may be used to define the digits sent. The number sent is selected based on the index assigned for the CO/IP Line under 'CID/CPN Attributes section'.

The CLI Station Number is sent in place of the station number. For all other entries, the station number is sent as a suffix to the number in the Table. Note that this number is sent only if CLIR/COLR is disabled under the CLIR Service and COLR Service assignments in the Station ISDN Attributes.

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

4.4.7.3 MSN Table - PGM 202

Selecting MSN Table will display the MSN Table data entry page. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

Enter Index Range: eMG80/100: 1-500 / eMG800: 1-1500 / UCP: 1-2400

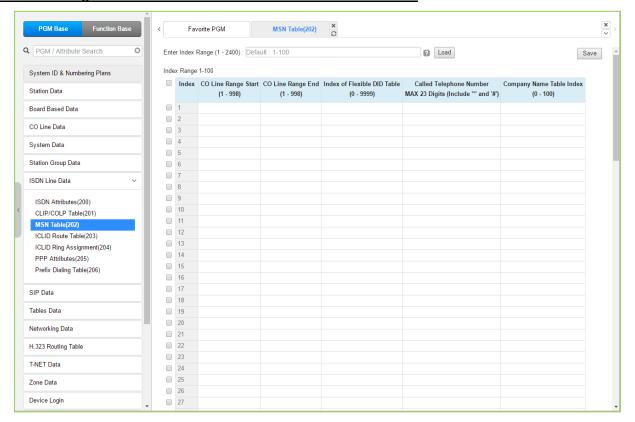


Figure 4.4.7.3-1 MSN Tables

When an ISDN Line assigned for DID operation receives an incoming call, the call will be routed to a station based on the Flexible DID Table Index assigned in the MSN Table. Each iPECS configuration has a different capacity as indicated by the entry range in the following table.

Table 4.4.7.3-1 MSN TABLE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Line Range	Enter the CO Line Range. eMG80/100:1-74, eMG800:1-600, UCP:1-998	Refer to description	None
Index of Flexible DID Table	Index to the Flexible DID Table.	0~9999	None
Called Telephone Number	When the received MSN number matches this entry, the call is routed based on the DID Table index entered above. Max. 23 Digits(Include * and #)	Refer to description	None
Company Name Table Index	System provides the company name of MSN table for MSN call according to assigning Company Name Table (241).	0-100 (0:Station Name)	None

4.4.7.4 ICLID Route Table - PGM 203

Selecting ICLID Route Table will display the ICLID Route Table data entry page. Click **[Save]** button after changing field.

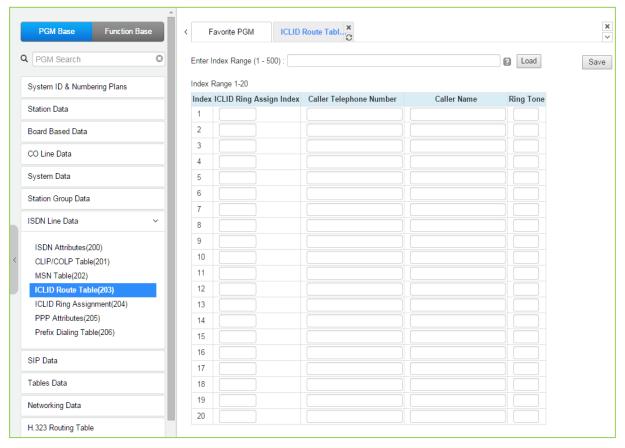


Figure 4.4.7.4-1 ICLID Route Table

The system can employ ICLID (Incoming Calling Line Id) to determine the routing of incoming external calls. Each CO/IP Line, including DID Lines and ACD group calls may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table and, if a match is found, will route the call to the destination defined in the ICLID Ring Assignment Table index assigned here.

Table 4.4.7.4-1 IOLID ROOTE TABLE ATTRIBUTED					
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT		
ICLID Ring Assign Index	Index to the ICLID Ring Assignment Table that determines the call routing. eMG: 001~250, UCP: 001~500	Refer to description	None		
Caller Telephone Number	ICLID (Incoming Caller Id) to match for the index. If the Caller Id matches the Table entry, the index is used to select the route.	24 Digits	None		
Caller Name	ICLID name that is sent by the system to the destination for the ICLID routed call.	12characters	None		
Ring Tone	If the received Caller Id matches the Caller Telephone Number, the Ring tone selected here is employed for the call alerting.	01 ~ 16	Ring Tone		

Table 4.4.7.4-1 ICLID ROUTE TABLE ATTRIBUTES

4.4.7.5 ICLID Ring Assignment Table - PGM 204

Selecting ICLID Ring Assignment Table will display the ICLID Ring Assignment Table data entry page. The station number starts 100 for eMG80/100 and 1000 for eMG800/UCP.Click **[Save]** button after changing Value.

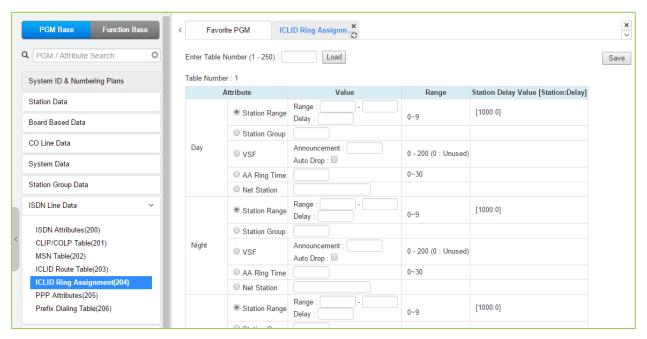


Figure 4.4.7.5-1 ICLID Ring Assignment Table

If the Incoming Caller ID matches an entry in the ICLID Route Table, the index from the Table is used to determine the call routing from the ICLID Ring Assignment Table. Separate ring assignments are made for Day, Night, and Timed Ring mode for each index, 001 to 250, in this table. When assigned to ring to a VSF announcement, the call can be automatically dropped after the announcement by entering '#' after the announcement number.

When CO Lines are programmed to Ring an external AA/VM, VSF or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

4.4.7.6 PPP Attributes for UCP - PGM 205

Selecting PPP Attributes will display the PPP Attributes data entry page. Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations when saved. Click **[Save]** button after changing Value.

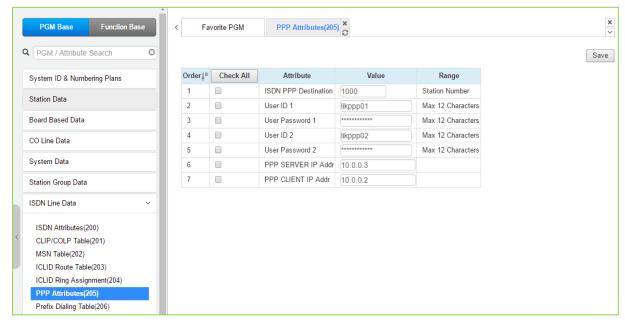


Figure 4.4.7.6-1 PPP Attributes

In addition to remote access via an IP network connection, the system database may be accessed remotely via an ISDN connection. Placing a call over an ISDN Line to the designated PPP Station will provide a connection to the system database. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After a matching ID and password are received, iPECS Login Home page is provided.

Table 4.4.7.0-1 FFF ATTNIBUTES					
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT		
ISDN PPP Destination	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination, the system will automatically answer the call and request PPP ID and password.	Station number	None		
User ID 1	The System accepts this PPP ID 1 as valid.	Max. 12 characters	likppp01		
User Password 1	The password entered is used to authorize PPP ID 1.	Max. 12 characters	lpkts01		
User ID 2	The System accepts this PPP ID 2 as valid.	Max. 12 characters	likppp02		
User Password 2	The password entered is used to authorize PPP ID 2.	Max. 12 characters	lpkts02		
PPP Server IP Address	When configured, the PPP Server IP Address must match this entry. To apply this option the system must be restarted.	IP Address			
PPP Client IP Address	When configured, the PPP Client IP Address must match this entry. To apply this option the system must be restarted.	IP Address			

Table 4.4.7.6-1 PPP ATTRIBUTES

4.4.7.7 Prefix Dialing Table - PGM 206

Selecting ISDN Prefix Dialing Attributes will display the Prefix Dialing Table Attributes data entry page. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

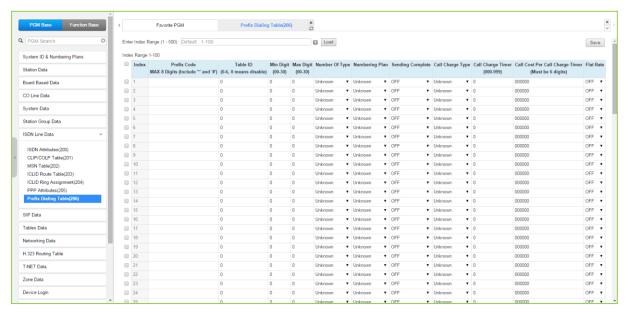


Figure 4.4.7.7-1 Prefix Dialing Table Attributes

Prefix Dialing Table. With this table, three features can be supported.

- CO Call Charge with NPR metering.
- SIP direct dialing with no wait inter-digit timer.
- ISDN Prefix Call ISDN en-block Dialing with Prefix Call Setup.

If first some digits (up to 8 digits) of outgoing dial number are matched with Prefix Code of each table, this table can start work. By each Co-line (PGM 142 – F20), Table ID (0-6) can be set. This table ID (PGM 142 – F20) is associated with PGM 206 – each table ID.

Table 4.4.7.7-11 Tellx dailing Table Attributes			
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Prefix Code	Enter the Prefix code. (Max 8 digits)	Refer to	
Fielix Code	Max. 8 Digits(Include * and #)	description	
Table ID	Enter Table ID (0-6). 0 means NOT used.	0-6	0
Min Digit	Select the minimum dial digits (00-30).	00-30	0
Max Digit	Select the maximum dial digits (00-30).	00-30	0
	Select Number of Type (0~6).		
	Unknown		
	International		
Number Of	National	Refer to	Unknown
Туре	Network Spec	description	OTIKITOWIT
	Subscriber		
	Abbreviated		
	Reserved.		

Table 4.4.7.7-1 Prefix dialing Table Attributes

Table 4.4.7.7-1 Prefix dialing Table Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Numbering Plan	Select Numbering Plan (0~6). Unknown ISDN Telephony Data numbering Telex National standard Private Reserved	Refer to description	Unknown
Sending Complete	Select Sending Complete option. (On/Off)	ON/OFF	OFF
Call Charge Type	Call Charge Type (0~5). • Unknown • Local • LongDistance • International • Mobile • Reserved	Refer to description	Unknown
Call Charge Timer	Call Charge Timer can be assigned. By thistimer value Call Metering can be established.	000-999	0
Call Cost	Call Cost is calculated by CALL TIMER. (ex : timer is 1 min, cost is 000020, then after 3 minute call, total call cost is calculated to 000060)	000000- 999999	000000
Flat Rate	If Flat Rate is ON, Flat Rate is applied by CALL COST per a call.	ON/OFF	OFF
Base Call Cost	If this value is set, base cost is applied. That means first charge is applied to Base Call Cost, and second charge is applied to Call Cost Per Call Charge Timer. If Base Call Cost is 0, base cost is not applied.	000000- 999999	000000

4.4.7.8 ISDN Clock Priority for eMG800 - PGM 207

Selecting ISDN Clock Priority will display the ISDN Clock priority Attributes data entry page. Click **[Save]** button after changing Value.

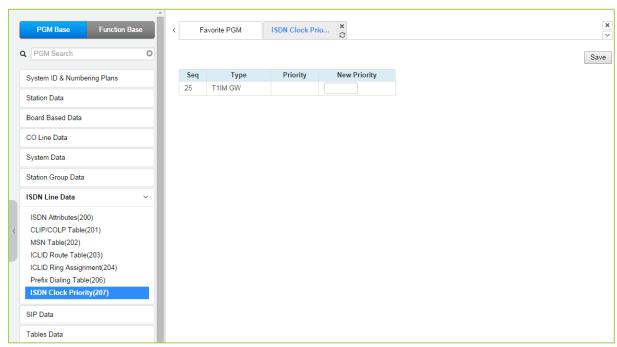


Figure 4.4.7.7-1 ISDN Clock Priority Attributes

Table 4.4.7.7-1 ISDN Clock Priority Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Priority	Clock priority if more than one ISDN boards are used	1-18	

4.4.8 SIP Data

Selecting the SIP Data program group returns the sub-menu displayed in the left frame as shown in thefollowing figure.

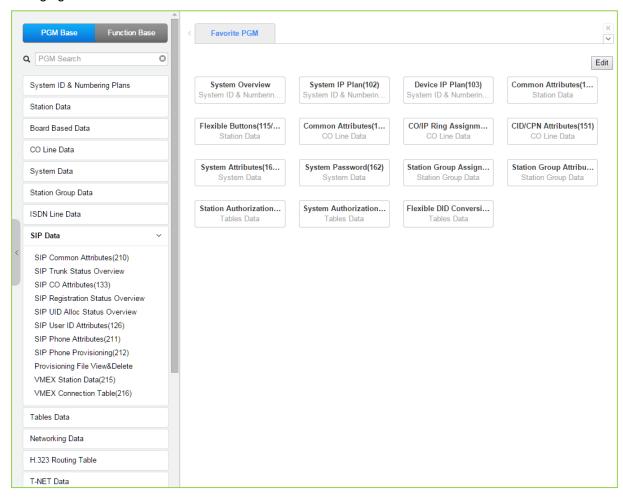


Figure 4.4.8-1 SIP Data

4.4.8.1 SIP Common (System based) Attributes - PGM 210

Selecting SIP Common Attributes will display the SIP System based Attributes data entry page. The attributes are system based SIP server data that running on MPB/UCP.Click **[Save]** button after changing Value.

DNS server address is where system can get IP address of external party that was written in Name in system. Local UDP/TCP/TLS Port is MPB/UCP's SIP signaling port number.

'Signal TLS Option' is for the SIP signaling by TLS configuration.

'SIP Status' the status of is running of SIP server in MPB/UCP.

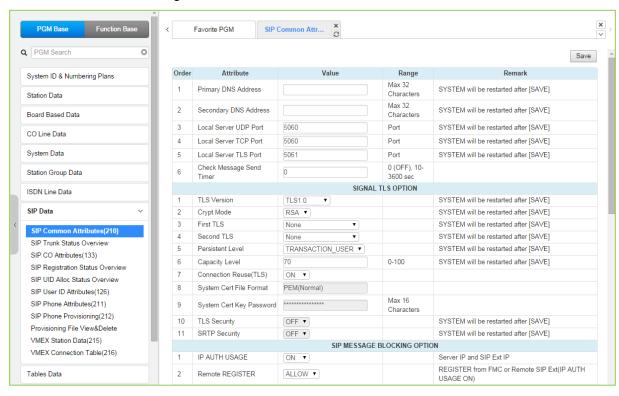


Figure 4.4.8.1-1 SIP Common Attributes

Check Message Send Timer – This is Keep Alive Message (OPTIONS) frequency from SIP server (MPB/UCP) to SIP Phone. If a SIP Phone does not respond to system's Keep Alive Message then system will make the status of SIP Phone to 'disconnected' in system.

Keep Alive Message (OPTIONS) programming for a SIP station is as below:

- Frequency: SIP Data / SIP Common Attributes (210) Check Message Send Timer.
- Usage ON/OFF for a SIP Extension: SIP Data / SIP Phone Attributes (211) Keep Alive Usage.
- Retry Count: IP Data / SIP Phone Attributes (211) Retry Count.

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Primary DNS	Name Resolution Server.System will be restarted after Save.	Refer to	
Address	IP Address(Max. 32 characters)	description	
Secondary DNS	Name Resolution Server.System will be restarted after Save.	Refer to	
Address	IP Address(Max. 32 characters)	description	
Local Server	SIP UDP signaling port.		F000
UDP Port	System will be restarted after Save.		5060

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Local Server	SIP TCP signaling port.		5060
TCP Port	System will be restarted after Save.		0000
Local Server TLS	SIP TLS signaling port.		5061
Port	System will be restarted after Save.		0001
Check Message	Keep Alive (OPTIONS Message)sending frequency	Refer to	0
SendTimer	0(Off) , 10 ~ 3600(Sec.)	description	U
	Signal TLS option	<u></u>	
	TLS version.System will be restarted after Save.		
TLS Version	TLS1.0: TLS1.0 is used for TLS connection.	Refer to	TLS1.0
TEO VOISION	TLS1.2: TLS1.2 is used for TLS connection.	description	1201.0
	SSL3(Auto): TLS1.0 or TLS1.2 is used – auto negotiation		
Crypt Mode	TLS Crypt Mode.System will be restarted after Save.	RSA/ECC	RSA
	SIP signaling TLS encryption primarykey method.		
	System will be restarted after Save.		
	None		
First TLS	• ARIA-128	Refer to	None
FIISUILS	• AES-128	description	None
	• ARIA-128-SHA2		
	• AES-128-SHA2		
	AES-256-SHA2(RSA)		
	SIP signaling TLS encryptionsecondary key method.		
	System will be restarted after Save.		
	None		
Second TLS	• ARIA-128	Refer to	None
Second 125	• AES-128	description	INOTIC
	• ARIA-128-SHA2		
	• AES-128-SHA2		
	AES-256-SHA2(RSA)		
	TLS signaling path method. System will be restarted after Save.		
	TRANSACTION : different path withINVITE, INFO,	Refer to	TRANSAC
Persistent Level	MESSAGE	description	TION_US
	 TRANSACTION_USER: same pathwith INVITE, INFO, MESSAGE 	G. G	ER
	TLS session maintenance rate,maximum 70%.	0 165	
Capacity Level	System will be restarted after Save.	0 - 100	70
Connection	TLS session maintain or not.	OFF	ON
Reuse (TLS)	TLS Session maintain of not.	ON	ON
System Cart File	The system supports two certification formats Privacy-Enhanced	Dofor to	PEM
System Cert File	Electronic Mail (PEM) or Distinguished Encoding Rules (DER).	Refer to	
Format	PEM(Normal), DER (Normal)	description	(Normal)
System Cert Key		Max. 16	
password	Password to encrypt private key.	characters	
	Change password that is used to encrypt TLS certification	OFF	
TLS Security	periodically.	ON	OFF
	F	10.,	

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
SRTP Security	Allow only SRTP call (blocking none SRTP call).	OFF ON	OFF	
	SIP Message blocking option			
IP AUTH USAGE	ON: Discard SIP Request (INVITE, REGISTER, NOTIFY, OPTIONS, MESSAGE) if VIA IP and From IP are neither the server IP nor SIP Extension IP.	OFF ON	ON	
Remote Register	 ALLOW:Proceed REGISTER from remote site. DENY: Discard all remote REGISTER. It is applied with IP AUTH USAGE ON 	ALLOW/ DENY	ALLOW	
REGISTER Check Time	Time interval to check invalid remote REGISTER flooding.(It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~3600 (Sec.)	0	
REGISTER Threshold	Threshold value to decide if it is invalid remote REGISTER flooding.(It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~60000	0	
REGISTER Lock Time	Time interval to discard remote REGISTER if it is REGISTER flooding state.(It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~250 (Min.)	0	
	SIP SMS Option			
SMS Domain	Domain Name used for sending SIPSMS	Max. 32characte rs		
SMS request URI	Request URI for sending SIP SMS. This is only for Korea telecom.	Max. 32characte rs	1549	
SMS Mode	Assign SMS mode(normal or external) This is only for Korea telecom.	Normal, External	Normal	
	SIP FAX Option			
Start w/ G.711 Fax	G711 Fax path through Mode. G711 will be negotiated as voice path and Fax will send this voice path.	OFF ON	OFF	
G.711 Fax method	G711 Fax Mode. VBD – VBD codec attribute will be added in SDP. 711A, 711U, 711A(VBD) , 711U(VBD)	Refer to description	711A	
T38 FAX Failover(711)	When T38 Negotiation is failed, G711 Codec will be used for Fax Transmission.	OFF ON	OFF	
	Miscellaneous Option			
OCS Prefix Code	When the server type assigned for a SIP Trunk is OCS, the system will send these digits as a prefix to the number in the SIP "To:" header.	Max. 8 Digits		

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SIP Pound Use	SIP employs Enblock dialing where the user dials all digits before they are sent to the carrier for processing. When the user completes dialing of a SIP call, '#' is used to indicate end of dialing. If users must be able to dial '#', SIP Pound Use can be disabled and the system will automatically send digits at expiration of the inter-digit time.	OFF ON	OFF
BLF SYNC NOTIFY Timer	When the system reboots, the button LEDs of SIP phones may indicate erroneous status. To display proper status LEDs, the system sends a Notify message to synchronize the LED states at expiration of this timer.	10-360	10
SRTP PATH(SIPEXT)	For SIP extensions connected to the same LAN as the system, the SRTP path can be established through a VoIP channel (Packet Relay) or directly between the end-points.	VOIM RELAY or DIRECT	VOIM RELAY
DNS SRV Usage	The system can be configured to query the DNS for the SRV resource record, which defines domains for various services.	OFF ON	OFF
Out OF Rsc Response	When the system has no resources available for the SIP Request, the system will respond with this code.	503/ 486	503
Error Code For Trunk Rerouting	If iPECS system receives this Error Code in response to a request, the call will be rerouted. The semi-colon (;) is used to separate multiple SIP message codes.		
Intercom Busy Service	When SIP extension hears busy tone, Call Back feature can be activated pressing # key. • System Rule: Follow PGM160- Intercom Busy Service • CallBack: Call Back feature	Refer to description	System Rule
Incoming Trunk Choice	Incoming SIP trunk will be seized based on this admin setting • System Rule: Follow PGM160 - CO Line Choice. • Round: round robin rule. • Last: last available trunk • First: first available trunk	Refer to description	System Rule
	SIP QOS Option		
SIP QOS Method Selection	For SIP messages, the system can employ Diff Serv or TOS to implement QoS.	DSCP/ TOS	TOS
SIP Signal DSCP value	When Diff Serv is selected as the QoS method, the DSCP value for SIP signaling messages is defined.	0~63	0
SIP Signal TOS value	When TOS is selected as the QoS method, the TOS value for SIP signaling messages is defined.	0~7	5
RTP DSCP value	When DSCP is selected as the QoS method, the DSCP value for RTP packets is defined.	0~63	0
RTP TOS value	When TOS is selected as the QoS method, the TOS value for RTP packets is defined.	0~7	5
SIP T-NET Option			
CM Prefix	Korea Telecom only, when employing an iPECS system as the CM, iPECS system will require a Prefix to set-up a SIP trunk call.	Max. 6 Digits	

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CM Prefix Method	Korea Telecom only, enables the Prefix method for processing a call with a SIP trunk through iPECS system.	Normal, With prefix	Normal
	SIP Trunk Register Option	Trial promit	
Register Retry	When registration fails, iPECS system attempts to register	20~3600	60
Timer	periodically at intervals of this timer.	20~3000	00
Option Check number	Korea Telecom only, a SIP Options message is used for redundancy. If the system does not respond to the Option message after the number of attempts, the redundant server becomes active	1~20	1
Option Check	Korea Telecom only, a SIP Options message is used for	00.0000	00
Interval	redundancy. The Option message is sent at intervals of this timer.	20~3600	20
	SIP Alarm Server Option		
Alarm Server Usage	If this value is changed, all WTIB will restart.	OFF/ON	OFF
Alarm Server Address	Enter the alarm server address up to 32 characters.	Max. 32 characters	
Alarm Server UDP Port	Default UDP port for Alarm server.	Port	5060
Alarm Server Check Usage	If IPECS doesn't receive reply for this option 3 consecutive times, will not send Message and Information to Alarm server. PGM 210 check message send timer.	OFF/ ON	OFF
Terminal State	Information (Terminal state) is sent to Alarm server if this value is	OFF/	OFF
Announcement	ON, not sent to Alarm server if this value is OFF.	ON	OFF
600BE Channels for Alarm	The number of 600BE channels reserved for Alarm SMS.	0~1	0
	SIP MULTIHOME Option		
SIP Multi-home Usage	 Usage for Secondary IP and Secondary UDP port in SIP signaling. OFF: Secondary IP and secondary UDP port is not used. EXT UDP Port: PGM210-SIP Multi-home Ext UDP Port is used assecondary UDP port. 2nd IP: PGM210-SIP Multi-home 2nd IP is used as secondary IP.Multi-home 2nd IP UDP Port, Multi-home 2nd IP TCP Portand Multi-home 2nd IP TLS Port are used with secondary IP. EXT UDP Port+2nd IP: Multi-home Ext UDP Port and Multi-home 2nd IP are used. 	Refer to description	OFF
SIP Multi-home Ext UDP Port	Ext UDP Port is used for secondary UDP port. This port is just used for SIP Extension.	Port	5070
SIP Multi-home 2nd IP	Multi-home 2nd IP is used for secondary IP for SIP signaling. It is different with System IP	Max. 32 characters	0.0.0.0
Delete Second Route	If this value is Yes, routing table for PGM 210-SIP Multi-home 2nd IP is delete. Default route is used for 2nd IP.	No, Yes	No

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SIP Multi-home	Multi-home 2nd IP UDP Port is UDP port used with Secondary IP.	Dowt	
2nd IP UDP Port	UDP port(Secondary IP:UDP Port) will be opened.	Port	
SIP Multi-home	Multi-home 2nd IP TCP Port is TCP port used with Secondary IP.	Dowt	
2nd IP TCP Port	TCP port(Secondary IP:TCP Port) will be opened.	Port	
SIP Multi-home	Multi-home 2nd IP TLS Port is TLS port used with Secondary IP.	Dant	
2nd IP TLS Port	TLS port(Secondary IP:UDP Port)will be opened.	Port	
System IPV6	LI CIDVO A LI LI CID II II	No,	No
Usage	Usage of IPV6 Address in SIP signaling	Yes	
System IPV6	IPV6 address used for System - User can set Unicast IP or set		
Address	based on SLAAC Info.		
System IPV6	IPV6 Router used for System - User can set Router IP or set		
Router	based on SLAAC Info.		
System IPV6 Net	IPV6 Prefix used for System - User can set Prefix or set based on		C4
Prefix	SLAAC Info.		64

4.4.8.2 SIP Trunk Status Overview

Selecting SIP Trunk Status Overview displays the overview page. The page displays the Proxy, Domain, etc. for the SIP Trunks configured in PGM 133.

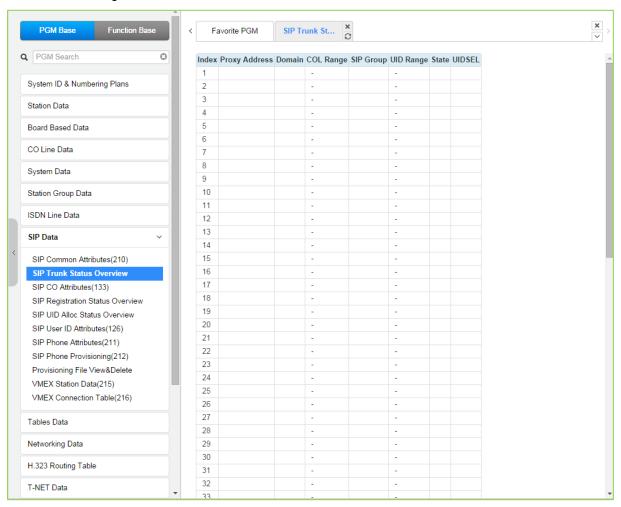


Figure 4.4.8.2-1 SIP trunk status overview

4.4.8.3 SIP CO Attributes - PGM 133

Selecting SIP CO Attributes returns the SIP CO Attributes data input page. Enter the CO Range and click **[Load]** to enter attribute values. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

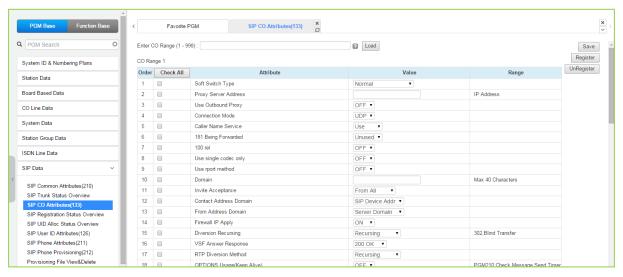


Figure 4.4.8.3-1 SIP CO Attributes

Various parameters must be entered for proper operation of SIP Trunk including the SIP proxy and Registrar as outlined in the following table.

Table 4.4.8.3-1 SIP CO ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Soft Switch Type	Allows identification of soft-switch to support extended soft-switch capabilities. KT, SK TELINK, etc.: Service Provider. Normal, Broadsoft, KT, SK TELINK, KT-C, MS OCS, SKYPE CONNECT, SIP-CC, TI PK0, ERICSSON IMS, DNS REDUNT(Tele2), MS LYNC, KT-CENTREX	Refer to description	Normal
Proxy Server Address	SIP Proxy server IP address up to 64 characters.	IP address	
Use Outbound Proxy	The SIP module will communicate only to SIP Proxy Server. In this case, destination address of all communication will be the IP of SIP Proxy Server. Use Outbound Proxy flag should be 'OFF' when you use that SIP module for channels of 3rd-party SIP Extensions.	OFF/ ON	OFF
Connection Mode	This field establishes the SIP connection mode as UDP, TCP or TLS for SIP signaling messages.	UDP/ TCP/ TLS	UDP
Caller Name Service	The caller name may be included in SIP messages. When included, the name can display in the LCD of iPECS IP and LDP Phones. In addition, the Contact Display Name assigned to the SIP User Id (PGM 126) will be sent in the SIP message.	Unused / Use	Use

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
181 Being Forwarded	A SIP 181 Message is sent when a call is being redirected or forwarded, if enabled.	Unused / Use	Unused
100rel support	To improve reliability of Provisional SIP messages, the system is configured to send and expect to receive an ACK response to such messages.	OFF ON	OFF
Use single codec only	During capabilities negotiation, the system sends the first priority codec id or the prioritized list of codecs as defined in the Codec priority settings below.	OFF ON	OFF
Use rport method	When employed behind a NAPT server, the system can use the Rport parameter in the SIP Via header to request the SIP server respond to the IP address and port of the originator.	OFF ON	OFF
Domain	Domain name of the Service Provider's SIP Call server that is used in SIP "To:" headers.	Max. 40characte rs	
Invite Acceptance	The system can accept SIP INVITE requests from any domain or only from the "Domain" specified above.	Domain Only / From All	From All
Contact Address Domain	The system will populate the SIP "Contact" header Domain with either the iPECS device IP address or the "Domain" specified above.SIP Device Addr, Server Domain	Refer to description	SIP Device Addr
From Address Domain	The system will populate the SIP "From" header Domain with either the iPECS device IP address or the "Domain" specified above.SIP Device Addr, Server Domain	Refer to description	Server Domain
Firewall IP Apply	When the iPECS system and VoIP devices are assigned a Firewall IP address, the system can use either the Firewall or local IP address in the Via and Contact headers as well as in SDP messages.	OFF ON	ON
Diversion Recursing	When a SIP call is redirected by a 3xx Diversion response such as when a call forwards, the SIP message can be forked (recursing) or forwarded (non-recursing). Recursing, Non-Recursing	Refer to description	Recursing
VSF Answer Response	The system can respond to a SIP Invite with a SIP 183 Session Progress message. This allows a VSF announcement to play and user dialed digits to be analyzed by CCR and, if the CCR destination is an external number, the system can send a SIP 3xx call diversion message to forward the call via the SIP network.	183 Msg. 200 OK	200 OK
RTP Diversion Method	Reserved Currently. Recursing, Non-Recursing	Refer to description	Recursing
OPTIONS Usage (Keep Alive)	With "OPTIONS Usage" ON, an Option message is sent at intervals of the Check Message Send Timer assigned in PGM 210 to assure a connection with the SIP CO. SIP COs generally provide an Option message. In this case, the UCP should not be enabled here.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT		
Proxy Registration Timer	Periodically, the system must re-register with the SIP Registrar. While this timing is often negotiated with the Registrar, the system can be configured with this timer to establish the re-register interval.	1-65535	3600		
Proxy Server UDP Port	When employing UDP transport, this port number is employed for messages to the SIP proxy.	Port	5060		
Proxy Server TCP Port	When employing TCP transport, this port number is employed for messages to the SIP proxy.	Port	5060		
Proxy Server TLS Port	When employing TLS transport, this port number is employed for messages to the SIP proxy.	Port	5061		
Registration UID Range	The User Id indices from the SIP User ID Attributes Table PGM 126 that will register with the SIP Service Provider's SIP Registrar must be configured.	Max. 140 Entries			
DTMF Type	DTMF dialing signals can be sent from the system using in-band or various Info messages. The method or type must match the SIP Call Server. INBAND, 2833, INFO (DTMF), INFO (DTMF RELAY), INFO(TELEPHONE EVENT), INFO(NORTEL NETWORKS)	Refer to description	INBAND		
Action with REG Failure	When registration fails, the link is down to the SIP Call server, or the system receives no response to an Invite message in the "Call Setup No-response" timer below, the call will return error tone (Wait Idle), or Fail-over to a Line from the Fail-over CO Group specified below (Idle).	IDLE/ WATI IDLE	IDLE		
	Secondary Proxy Server				
Secondary Proxy Server Address	It is used for SIP proxy server redundancy. KOREA telecom only.	IP Address			
Secondary Domain	It is used for SIP proxy server redundancy. KOREA telecom only.	Max. 32 Characters			
Secondary Proxy Server UDP Port	It is used for SIP proxy server redundancy. KOREA telecom only.	Port			
	ID Presentation Option				
	ID Usage				
P-Asserted-ID	The system normally provides a P-Asserted ID in SIP messages. The system can be configured not to provide the header.	Unused Use	Use		
Remote-Party-	The system normally provides a Remote-Party-ID in SIP messages. The system can be configured not to provide the header.	Unused Use	Use		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Privacy(CLIR) Presentation	SIP employs various headers that include a User Id and Name. In some cases, it may desirable to restrict the called party from receiving this information. Several options for Caller Id restriction can be applied. • Anonymous Name & Anonymous Number, • Anonymous Name, • Privacy: user, Privacy: id, • Privacy: user;id;critical, • Privacy: id & anonymous & P-Preferred-ID	Refer to description	Anonymous Name & Anonymous Number
	ID Individuality		
CID Password	Enter CID Password.		
From ID	 The Id in the "From" header of SIP messages can be based on the calling station, the User Id or a fixed User Id. Extension SIP User Id: one of three SIP User Ids assigned to the station in PGM 111. Select which of the three indices to use in the SIP UID Selection below. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. Authorized Representative Id: the User Id of the "Authorized Representative Id" assigned to the SIP User Id that is indexed to the station in PGM 111. The specific index is selected below as the SIP UID Selection. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension SIP- User-ID Table
From Display	 The "Display" field of the "From" header can be configured to use the below: System Rule: a. From ID = Extension SIP User-ID Table, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. From ID = Extension Outgoing CLI, display Station Name from PGM 111 or blank. c. From ID = Authorized Rep Id, display Contact Display Name of Authorized Rep Id from PGM 126 otherwise display Station Name from PGM 111 or blank. d. From ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151 	Refer to description	SYS RULE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
P-Asserted-ID	 The Id in the "P-Asserted Id" header of SIP messages can be based on the calling station, the User Id or a fixed User ID. Extension SIP User Id: one of three SIP User Table indices assigned to the station in PGM 111. Select which of three in the SIP UID Selection below. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. Authorized Representative ID: the User Id of the "Authorized Representative ID" assigned to the SIP User Id that is indexed to the station in PGM 111. The specific index is selected below as the SIP UID Selection. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension SIP-User-ID Table
P-Asserted-ID Display	 The "Display" field of the "P-Asserted Id" header can be configured to use the below: System Rule: a. P-Asserted ID = Extension SIP User-ID Table, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank b. P-Asserted ID = Extension Outgoing CLI, display Station Name from PGM 11 or blank c. P-Asserted ID = Authorized Rep Id, display Contact Display Name of Authorized Rep Id from PGM 126 otherwise display Station Name from PGM 111 or blank d. P-Asserted ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. 	Refer to description	SYS RULE
Contact ID	 The Id in the "Contact ID" header of SIP messages can be based on the calling station, the User Id or a fixed User ID. Extension SIP User Id: one of three SIP User Table indices assigned to the station in PGM 111. Select which of three in the SIP UID Selection below. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below 	Refer to description	Extension SIP-User-ID Table
Remote-Party-ID	 The Id in the "Remote-Party ID" header of SIP messages can be based on the calling station, the User Id or a fixed User Id. ExtensionSIP User ID: one of three SIP User Table indices assigned to the station in PGM 111. Select which of three in the SIP UID Assignment section below. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension SIP-User-ID Table

ATTRIBUTE	DESCRIPTION RANGE DEFA					
	Offnet Call Route ID Transit					
	CO to Offnet Direct Call Route					
The below app	lies to calls routed from a CO/IP Line to an Off-net location by the s	ystem over a	SIP Trunk.			
From/Contact ID	 The ID in the "From" and "Contact" headers of SIP messages employ System Attendant CLI, the original CLI or a fixed User Id. Sys Atd: the CLI configured for the System Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	dant CLI, the original CLI or a fixed User Id. I configured for the System Attendant SM 113 and 151. e CLI received by the system for the original e SIP User ID from the SIP UID Fixed Table				
From Display	 The "Display" field of the "From" header can be configured to use the below: System Rule: a. From ID = System Atd, display Contact Display Name from PGM 126, otherwise display Attendant Station Name from PGM 111 or blank. b. From ID = Original CLI, display the Name in received be the system for the original call. c. From ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank. Original CLI: the CLI received by the system for the original incoming call. 		SYS RULE			
P-Asserted-ID	 The ID in the "P-Asserted ID" header of SIP messages can be based on the System Attendant, the Original CLI or a fixed User ID. Sys Atd: CLI: the CLI configured for the System Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	SYST ATD			

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
P-Asserted-ID Display	 The "Display" field of the "P-Asserted Id" header can be configured to use the below: System Rule: a. P-Asserted ID = System Atd, display Contact Display Name from PGM 126, otherwise display Attendant Station Name from PGM 111 or blank. b. P-Asserted ID = Original CLI, display the Name in received by the system for the original call. c. P-Asserted ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank. Original CLI: the CLI received by the system for the original incoming call. 	Refer to description	SYS RULE
Remote-Party-ID	 The Id in the "Remote-Party ID" header of SIP messages can be based on the System Attendant, the Original CLI or a fixed User ID. Sys Atd: the CLI configured for the System Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Original CLI
Diversion	 The Id in the "Diversion" header of SIP messages can be based on the System Attendant, the Original CLI or a fixed User ID, or Unused. Unused: no Diversion header provided. Sys Atd: the CLI configured for the System. Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. Offnet Call Forward by Station	Refer to description	Unused
The below apply	to calls routed from a CO/IP Line to an Off-net location by a station	over a SIP	runk.
From/Contact ID	 The Id in the "From" and "Contact" headers of SIP messages employ the forwarding Station, the original CLI or a fixed User ID. Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
From Display	 The "Display" field of the "From" header can be configured to use the below: System Rule: a. From ID = Extension, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. From ID = Original CLI, display the Name in received by the system for the original call. c. From ID = Fixed Table display Contact Display Name from PGM 126 or blank. Original CLI: the CLI received by the system for the original incoming call. 	Refer to description	SYS RULE
P-Asserted-ID	 The Id in the "P-Asserted ID" header of SIP messages employ the forwarding Station, the original CLI or a fixed User ID Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension
P-Asserted-ID Display	 The "Display" field of the "P-Asserted Id" header can be configured to use the below: System Rule: a. P-Asserted ID = Extension, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. P-Asserted ID = Original CLI, display the Name in received by the system for the original call. c. P-Asserted ID = Fixed Table display Contact Display Name from PGM 126 or blank. Original CLI: the CLI received by the system for the original incoming call. 	Refer to description	SYS RULE
Remote-Party-ID	 The Id in the "Remote Party ID" header of SIP messages employs the forwarding station, the original CLI or a fixed User ID. Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Diversion	 The Id in the "Diversion" header of SIP messages can be based on the forwarding station, the Original CLI or a fixed User ID, or Unused. Unused: no Diversion header provided. Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID. Fixed Table Index attribute assigned below. 	Refer to description	Unused
	Mobile Extension External Call		
	The below applies to calls routed to a Mobile Extension over a SI	P Trunk	
From/Contact ID	 The Id in the "From" and "Contact" headers of SIP messages employ the calling station, the original CLI or a fixed User ID. Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call or Station number for ICM call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension
From Display	 The "Display" field of the "From" header can be configured to use the below: System Rule: a. From ID = Extension, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. From ID = Original CLI, display Station Name from PGM 111 for ICM call or the Name in received by the system for the original outside call. c. From ID = Fixed Table display Contact Display Name from PGM 126 or blank. Original CLI: the CLI received by the system for the original incoming call. 	Refer to description	SYS RULE
P-Asserted-ID	The Id in the "P-Asserted Id" header of SIP messages employs the calling station, the original CLI or a fixed User ID. • Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. • Original CLI: the CLI received by the system for the original incoming call or station number for ICM call. • Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	Refer to description	Extension

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
P-Asserted-ID Display	 The "Display" field of the "P-Asserted ID" header can be configured to use the below: System Rule: a. P-Asserted ID = Extension, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. P-Asserted = Original CLI, display Station Name from PGM 111 for ICM call or the Name in received by the system for the original outside call. c. P-Asserted = Fixed Table display Contact Display Name from PGM 126 or blank. Original CLI: the CLI received by the system for the original incoming call. 	Refer to description	SYS RULE
Remote-Party-ID	 The Id in the "Remote Party Id" header of SIP messages employ. The Station CLI, the original CLI or a fixed User ID. Extension: the Extension SIP User ID or Extension Outgoing CLII as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call or station number for ICM call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Extension
Diversion	 The Id in the "Diversion" header of SIP messages can be based on the calling station, the Original CLI or a fixed User ID, or Unused. Unused: no Diversion header provided. Extension: the Extension SIP User ID or Extension Outgoing CLII as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call or the station number for ICM call. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below. 	Refer to description	Unused
	SIP UID Assignment		
SIP User ID Fixed Table Index	When a header is assigned to use "Fixed Table", the ID from this SIP User ID (PGM 126) Table index is used.	Index	
SIP User ID SELECTION	When a header is assigned to use the "Extension SIP-User-ID Table", the SIP User ID is selected using this SIP UID index in the Station Attributes (PGM 111).	Index, Index 2, Index 3	SIP User Table Index

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT		
	External CODEC Priority Configuration				
1st ~5th priority	1st. priority, 2nd. Priority, 3rd. priority, 4th. Priority, 5th. Priority If specify priority to a specific CODEC then it will work for negotiation RTP data. If only 1st. priority is specified and the others are none, then it will work as single CODEC only does None/ g.711-u/ g.711-a/ g.723.1/ g.729/ g.729-a/ g.722	Refer to description	none		
	SIP Call Setup Failover Option				
Call Setup No Response	When the system initiates a SIP Trunk call and receives no response from the SIP proxy server, after expiration of this timer the SIP call is canceled and a Fail-over call placed on the Fail-over CO/IP Line group specified below. Note the timer can be set at 3 to 15 seconds and '0', which disables Fail-over.	0, 3 ~ 15 sec	5sec		
Failover CO Group Number	When the system attempts to initiate a SIP Trunk call and the SIP Trunk is in an OOS state or the SIP proxy server does not respond in the No Response time above, the system will cancel the SIP call and place a call over a CO/IP Line from this group. eMG80/100:1 ~ 21,eMG800/UCP:1~201	Refer to description	none		
	SIP Session Timer				
Session Timer Usage	During a SIP call or "session", there are no signaling packets sent or received from the SIP Call server. In order to assure a session is still active, the system can periodically send an Option message that the SIP Call server should acknowledge.	ON/OFF	OFF		
Session Timer Value	When "Session Timer Usage" is enabled, the system will verify the session at this timer interval.	90~ 3600	360		
Min SE	During negotiation with "Session Timer Usage" enabled, the system will use this value as the minimum Session expiration timer and will not respond to a SIP Option message prior to expiration of this timer.	90~ 3600	90		
	URI Formatting and Rules				
	General Formatting				
To Field Method	The SIP "To:" header is formatted using the SIP or Telephony method as shown below. • SIP method To: < sip:[Number]@[Domain];user=phone > • Telephony method To: < tel:+[Number] > Domain	Refer to description	SIP: method		
Numbering Format	When assigned the Telephony method for the "To" header, the number format can be: • Local - [tel:+Number]@[Domain] • Global(+E164) - [tel:+E.164 Address]@[Domain] E.164 Address: Nation + Area Code + Number	Refer to description			

ATTRIBUTE		DESCRIPTIO	N	RANGE	DEFAULT
Local: include Area Code	The Area code (PGM 143) can be added as a prefix if the 'Numbering Format' is set as Local. Example: user dials '8701234' and the Area code is '042'			Yes No	No
Global: include phone-context	luser dials '0011428701234' from Country code 82		Yes No	No	
Add '+' in Outgoing Call	Add "+" iı	n front of dialed number when	it is YES	Yes No	No
		Specific Formatting by 0	Conversion (example)		
From 4 di	gits	To 6 digits	User Dial	Re	sult
0		+82	0314504639	+823145046	39
00		+	0082314504639	+823145046	39
1588		1588	15886724	15886724	
031	0314504639			4504639	
		SRTP Se	etting		
SRTP Usage	(RTP) pa	plemented by the carrier, the s ckets employing SRTP (Secur . But VoIP Virtual switching ch	e Real-Time Transport	OFF ON	OFF
1st CRYPTO	The first priority Crypt method for SRTP. None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 ARIA_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80		Refer to description	None	
2nd CRYPTO	The second priority Crypt method for SRTP. None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 ARIA_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80		Refer to description	None	
		0 11 10	lled ID		
	Caller/Called ID				

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	ID Option	,	
Caller ID Selection	For the purposes of display and ICLID call routing, iPECS employ this header as the "Caller ID". P-Asserted-ID, Remote-Party-D, From ID	Refer to description	P-Asserted- ID
Display Caller Name(Though Id is Anonymous)	Even though the User ID is Anonymous, the system can display the SIP "From" header "Display Name" field for the call.	No Yes	No
Called ID Selection	For the purposes of call routing, the "SIP Request" or "To" header will be employed by the system as the "Called Party ID". Request URI, To ID	Refer to description	Request URI
	SIP Timer set		
T1 Timer	First retransmission timer in case of No Reply.	0.5/1/2).5 (Sec)
	Miscellaneous set		
Drop Busy Station	While busy, the system can be configured to terminate a station call, and accept and connect any new call from the SIP Trunk. For special use, it is available only in Italy.	No Yes	No
Ignore INBAND DTMF	In some situations, DTMF tones from the connected party may be received along with the DTMF Type specified above. This can cause errors in detection such as double digits. In this case, the system can be configured to ignore Inband DTMF signals. Note do not disable Inband signals if selected as the "DTMF Type" above as this may disable DTMF detection.	No Yes	No
SIP Trunk Group	Multiple SIP User ID ranges may register with the SIP CO, for example, SIP COs from different providers. When different SIP User ID ranges are required on a SIP CO, a different SIP Trunk Group should be assigned to each range. Note this has no relationship with the CO/IP Line Group. 0~71 (0:Normal, 1-71:Check To header)	Refer to description	0
Send Refer for Transfer	The system can employ the SIP Refer method to forward or transfer incoming calls to an "Off-net" location if supported by the SIP Service Provider.	No Yes	No
CN Payload Insert	When Comfort Noise generation is desired, the system will provide a Comfort Noise Payload during periods of silence.	No Yes	No
Ignore 180 after 183	lwithout changing the internal or system ring back tone. For		No
Add "user=phone" parameter	For outgoing SIP call, "user=phone" will be added in Request URI of INVITE.	No Yes	No

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Advice of Charge	When assigned, The system estimates the call cost for display on the phone with appropriate regional protocol support. No Service, SIP AOC	Refer to description	No Service
TGID Usage	Usage of "trgp" and "trunk-context" parameter in Contact header in INVITE • YES: "tgrp" and 'trunj-context" are added in Contact header. • NO: "tgrp" and 'trunj-context" is not used.	No Yes	No
Local Address Selection	User can select Local IP(From, Via and Contact address) used for SIP trunk. It is applied when PGM210- Multi-home Usage is 2nd IP or EXT UDP Port+2nd IP. First: System IP. Second: PGM210-SIP Multi-home 2nd IP.	First Second	First
ALTC Usage	User can set ALTC sequence when IPv6 is used with SIP Trunk. • OFF: IPV4 or IPV6 only in SDP. • IPV4: IPV4 and IPV6 in ALTC info • IPV6: IPV6 and IPV4 in ALTC info.	OFF IPV4 IPV6	OFF

4.4.8.4 SIP Registration Status Overview

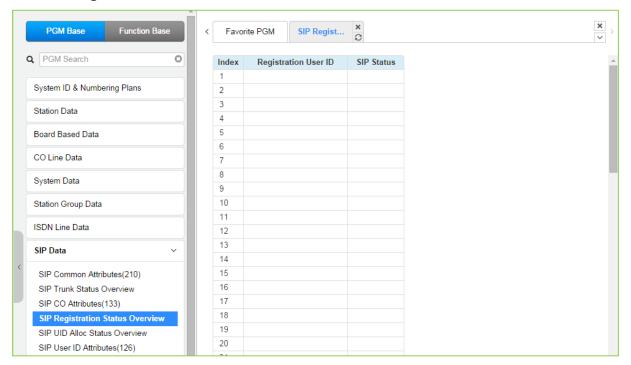


Figure 4.4.8.4-1 SIP Registration status overview

4.4.8.5 SIP UID Allocation Status Overview

Selecting SIP User ID Allocation Status will display the allocation overview page. The SIP User Id Allocation Status Overview page displays the station(s) assigned to each SIP User Id index in the Station Common Attributes PGM 111.

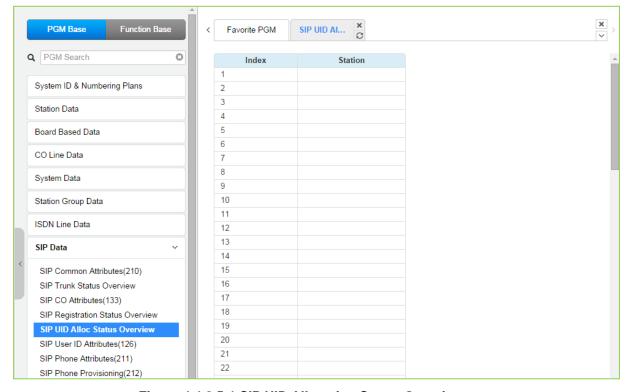


Figure 4.4.8.5-1 SIP UID Allocation Status Overview

4.4.8.6 SIP User ID Attributes – PGM 126

Selecting SIP User ID Attributes will display the SIP User ID input page.

Enter a valid SIP User ID Index Number range, see Station Data, and click **[Load]** to view the SIP User ID Attributes for the first index in the range.

Enter new data and click [Save] to modify the attributes for the index range.

Enter SIP User IDIndex number: eMG80/100: 1-140 / eMG800: 1-1200 / UCP: 1-2400

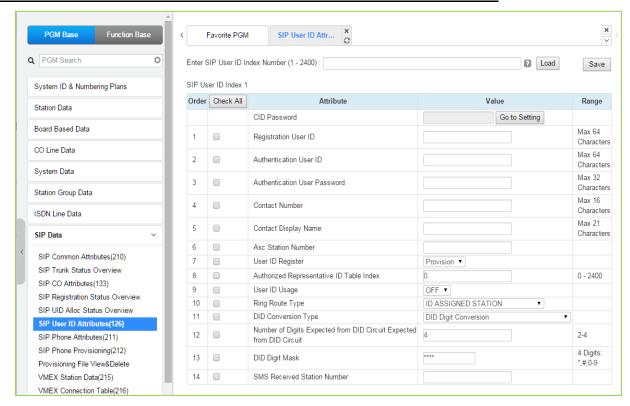


Figure 4.4.8.6-1 SIP User ID Attributes

For each station, an index to the SIP User Id Attributes Table is defined in PGM 111 Station Attributes.

The SIP User Id Attributes Table defines SIP characteristics associated with the index including User ID, Authentication name, etc.

These characteristics are required for proper operation of the system and registration of the iPECS IP and LDP phones when employed with SIP trunk. See also, PGM 133.

Note PGM 126 and PGM 133 are accessible only via Web Admin.

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

Table 4.4.8.6-1 SIP User ID ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
IID	provider. The User Id has the format User ID@Domain. Note the	Max. 64 characters	

Table 4.4.8.6-1 SIP User ID ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	The SIP Service Provider may require authentication of the user		
Authentication	for registration and at other times during call setup. The	Max. 64	
User ID	Authentication name from the provider must be entered for	characters	
	proper SIP registration.		
	The SIP Service Provider may require authentication of the user		
Authentication	for registration and at other times during call setup. The	Max. 32	
User Password	Authentication password from the provider must be assigned for	characters	
	proper SIP registration.		
Contact Number	The Contact header of SIP messages is populated with the	Max. 16	
	specified SIP User ID.	characters	
Contact Display	The Display Name specified is used for the Contact header	Max. 21	
Name	Name field.	characters	
Associative	Not used.	Station	
Station Number		number	
	The SIP Trunks are provided in two formats.		
Llaar ID Dagiatar	Registered: the system must register for service often	Refer to	Dravision
User ID Register	using AuthenticationProvision: the provider sends all SIP messages to a fixed	description	Provision
	IP; the system does not register for service.		
	The User Id can be assigned an index of another User ID. When		
Authorized	the SIP CO is configured to employ the Authorized	Defeate	
Representative	Representative Id as the SIP "From" or "Contact" header, the	Refer to	0
ID Table Index	indexed User ID is employed.	description	
	eMG80/100:0~140, eMG800:0~1200, UCP:0~2400		
	If registration is enabled (User ID Register above) the iPECS		
User ID Usage	can send the User ID or Authorized Representative ID to the SIP	OFF	OFF
User in Usage	Proxy to register the ID. Otherwise, only the Authentication	ON	OFF
	Name and password are used.		
	Incoming calls from a SIP trunk can be routed		
	to the ID assigned Station (any station with any of the SIP User		
	ID Table Indices in PGM 111 matching the incoming SIP User		
	ld),		
	based on CO/IP Ring assignments (PGM 144),	Refer to	ID assigned
Ring Route Type	using DID treatment defined below table.	description	Station
	follow the MSN Table routing (PGM 145).		
	ID Assigned Station,		
	• Ring Assignment,		
	• DID Conversion,		
	MSN-DID Conversion(PGM145)	<u> </u>	

Table 4.4.8.6-1 SIP User ID ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DID Conversion Type	When the Ring Route above is defined as DID, the system will send the call to a destination based on the DID conversion selected here. The digits in the SIP User ID may be used "as is" to identify the desired station, modified based on the DID Digit mask below and routed to the resulting station or the modified DID number can be used as an index to the Flexible DID Conversion Table, PGM 231 to route the call. • DID DigitConversion, • Use 'as is', • Modify Using Flexible DID Conversion Table	Refer to description	Use 'as is'
Number of Digits (2-4) Expected from DID Circuit	When DID Digit Conversion or Flexible DID Conversion Table routing is used, the number of digits received is defined in this field. eMG80/100:3, eMG800:4, UCP: 4	2-4	Refer to description
DID Digit Mask	When DID Digit Conversion or Flexible DID Conversion Table routing is used, the digit conversion is defined in this field. For each of the four (4) digits, use "*" to accept any digit, "#" to delete the digit, or a digit 0-9 to replace the digit. eMG80/100:#***, eMG800:****, UCP: ****	4 Digits: *, #, 0-9	Refer to description
SMS Received Station Number	When an SMS is received for this User Id, the Station to receive the SMS must be defined.		

4.4.8.7 SIP Phone Attributes - PGM 211

Selecting SIP Phone Attributes will display the SIP Phone input page. Enter a valid SIP Station Number or range, and click **[Load]** to view the SIP Phone Attributes for the first Station Number in the range. Enter new data and click **[Save]** to modify the attributes for a Station or range.

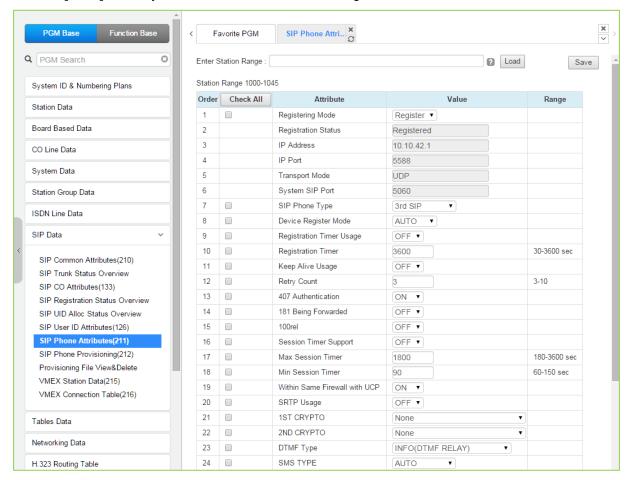


Figure 4.4.8.7-1 SIP Phone Attributes

Registration

For a new registration of SIP station, input ID/PWD & Desired Station Number in PGM 443 of Station User Login Table. This SIP Phone Attributes are for Stations that are already registered to system.

- Register Mode Register/ Manual: Set Registration Time Out or Not
- Registration Status: View connection status (Disconnected or Not) for a station
- IP Address: SIP Phone's IP address
- IP Port: SIP Phone's IP Port Number
- Transport Mode: SIP signaling method
- SIP Phone Type: Automatically Assigned by System
- Device NAT Usage: Automatic Detection
- Registration Timer Usage: OFF Assign (Re-) Registration Timer by Provisioning (212), ON Assign (Re-) Registration Timer by SIP Phone Attributes (211).
- Registration Timer: more than 10 minute recommended.
- 407 Authentication: Authentication of Registration (and Call Setup). To implement authentication, user login Password should be available in PGM 443 for the Station.

Keep Alive / NAT Resolution

To keep stable information of SIP Phone's Connection, IP address and Port number that is under NAT environment, system uses 'OPTIONS' message to implement Keep Alive and assist NAT resolution - effort to maintain IP address of SIP Phone by sending message so often from system to SIP Phone.

SIP Phone should be capable to answer for 'OPTIONS' message

- Check Message Sending Timer in [SIP Data / SIP Attributes (210)]: 120 seconds
- Keep Alive Usage for a SIP Station in [SIP Data / SIP Phone Attributes (211)]: ON
- Retry Count for a SIP Station in [SIP Data / SIP Phone Attributes (211)]: 3

System Firewall Resolution

In case of firewall routed with MPB, to distinguish remote SIP Phone that is outside of firewall from system local area a check bit is required per a SIP Station.

With this check bit, system can determine whether to serve communication using firewall mapped WAN IP address of MPB or serve communication using LAN IP address of MPB/UCP.

SIP Phones that are outside of system protect firewall: [SIP Data / SIP Phone Attributes (211)] –
 'Same Firewall with MPB/UCP' to 'OFF'

Session Timer

To confirm talk state frequently during in talk state, system sends 'UPDATE' message to SIP Phone. If there is no response for the UPDATE message with in Maximum session timer, system will disconnect the talking call.

- [SIP Data / SIP Phone Attributes (211)] Session Timer Support : ON
- [SIP Data / SIP Phone Attributes (211)] Max Session Timer : if exceed, disconnect talking call
- [SIP Data / SIP Phone Attributes (211)] Min Session Timer: minimum guard timer for session timer negotiation.

SRTP

Voice & Video Data Encryption requires synchronization of CRYPTO method between system and SIP Phone side.

If system specifies SRTP information then same information should be in SIP Phone side by Phone user programming.

SRTP usage requires a SRTP relay channel via system VOIU and VOIB/VOIM.

- [SIP Data / SIP Phone Attributes (211)] SRTP Usage: ON
 - SIP Phone self-programming is required, too SRTP ON
- [SIP Data / SIP Phone Attributes (211)] 1st CRYPTO key generation type:one of ARIA_CM_192_HMAC_SHA1_80,

AES_CM_128_HMAC_SHA1_80,ARIA_CM_128_HMAC_SHA1_80

- SIP Phone self-programming is required, too 1st/2nd CRYPTO method
- [SIP Data / SIP Phone Attributes (211)] 2nd CRYPTO key generation type:one of ARIA_CM_192_HMAC_SHA1_80,

AES_CM_128_HMAC_SHA1_80,ARIA_CM_128_HMAC_SHA1_80

SIP Phone self-programming is required, too – 1st/2nd CRYPTO method

DTMF

- INFO (OUT BAND) type DTMF
 - Presented in SIP signaling message.
 - INFO (SIMPLE DTMF) / INFO (NORTEL NETWORKS) / INFO (DTMF RELAY) / INFO (TELEPHONE EVENT)
 - Default: INFO (DTMF RELAY)
- TONE (INBAND) type DTMF
 - Presented in RTP packet
 - Additional VOIU/VOIB (VOIM) DSP channel is required to detect DTMF in RTP
 - INBAND / 2833

CO DIAL TONE

This is to avoid double play of CO dial tone. 'Set' if SIP phone plays CO dial tone by itself. If not, there will be another CO dial tone from external.

Request URI Type

Some SIP Phone will reject Request-URI if IP and port in domain field is different from its contact IP and port.

- 'Normal': IP and port number in Request URI domain field will be the real IP and port number of the SIP phone.
- 'KT-FMC': IP and port number in Request URI domain field will be system IP and port

Busy Serve

System Busy Tone: there will be a 'busy-tone' on busy state that is presented by system. Additional VOIB/VOIU/VOIM DSP channel is required. 486 Busy Message: there will be '486 busy' SIP signaling response on busy state.

Call Initiation Mode

For a SIP station, system can establish multiple or single call sessions. With this option system can control 'call-wait' option in system side. Normally, the SIP Phone has its 'call-wait ON/OFF' option by itself. Options are as below:

- 'Multiple': for a new additional call to SIP Phone, system initiates every call for the SIP Phone regarding it is on idle state. The 'call-wait allow/deny' is decided by SIP Phone itself.
- 'Single': system initiates only one call for a SIP Phone. The 'call-wait' is denied by system side. So, a call to a busy SIP station will be implemented on a busy state call-control.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registration Mode	Initial registration of a SIP phone is accomplished employing the parameters set in Station User Login PGM 443. The SIP phone can be required to register with the system periodically based on the Registration Timer or the registration can be maintained without the need for the SIP phone to reregister with the system (Manual).	Manual Register	Register
Registration Status	The system will display the status of the SIP phone registration.		
IP address	The system will display the IP address of the registered SIP phone.		
IP Port	The system will display the IP port used for the registered SIP phone.		
Transport Mode	The system will display the IP transport used by the registered SIP phone for signaling messages (UDP, TCP or TLS). In case of TLS, the options configured in the SIP Common Attributes (PGM 210) apply.		UDP
System SIP Port	The system will display the system SIP Port.		
SIP Phone Type	The type of SIP phone is generally determined by the system and can be an Ericsson-LG standard SIP phones or the 3rd party SIP phone type.		3rd SIP
Device register mode	The Register Mode determines if the SIP phone is behind a NAT server. When set in the Auto mode, the system will determine if the phone is behind a NAT server.	AUTO, NO NAT, NAT	AUTO
Registration Timer usage	When the Registration Mode is "Register", the phone must register with the system periodically. The timer that determines the period can be the Registration Timer below (ON) or, when OFF, the timer is assigned through provisioning (PGM212).	OFF ON	OFF
Registration Timer	When the Registration Timer is enabled above, the system informs the SIP phone that registration is required at intervals of this Registration Timer. If the phone does not register within the timer, the phone is placed in an Out-of-Service state until the phone registers. Note shorter times will increase LAN traffic.	30-3600	3600
Keep Alive Usage	The system will periodically send an Option message to assure a connection with the registered SIP phone. Note when separated by a NAT server, Keep-Alive should be employed to maintain the NAT table record. The Check Message Sending Timer in PGM 210 determines the frequency.	OFF ON	OFF
Retry Count	The system periodically sends an Option message to assure a connection with the registered SIP phone. If there is no response, the system sends additional Option messages, and, after the retry count, considers the SIP phone Out-of-Service.	3-10	3

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
407 Authentication	The system can challenge the SIP phone during registration and outgoing call set-up with a SIP 407 Authentication message requiring the SIP phone to provide the Authentication Id and password assigned in the Station Login PGM 443.	OFF ON	ON
181 Being Forwarded	N/A	OFF ON	OFF
100 rel Support	N/A	OFF ON	OFF
Session Timer Support	During a SIP call or "session", there are no signaling packets sent or received from the SIP Call server. In order to assure a session is still active, the system can periodically send an Update message that the SIP Call server should acknowledge.	OFF ON	OFF
Max Session Timer	When "Session Timer Support" is enabled, the system will verify the session at this timer interval.	180-3600	1800
Min Session Timer	During negotiation with "Session Timer Support" enabled, the system will use this value as the minimum Session expiration timer and will not respond to a SIP Option message prior to expiration of this timer.	60-150	90
Within same firewall with UCP (MPB)	For a remote SIP phone, the system must communicate with the phone employing the system's "Firewall" address (OFF). Otherwise, the system employs the LAN address to communicate with the SIP phone.	OFF ON	ON
SRTP Usage	When supported by the SIP phone, the system can encrypt media (RTP) packets employing SRTP (Secure Real-Time Protocol).	OFF ON	OFF
1st CRYPTO	The first priority cryptographic method for SRTP is selected from the below: None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 ARIA_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80	Refer to description	None
2nd CRYPTO	The second priority cryptographic method for SRTP is selected from the below: None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80	Refer to description	None

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DTMF Type	DTMF dialing signals sent by the SIP phone must be defined for the system to detect the tones properly. For Inband DTMF, a VoIP channel is required. • INBAND • 2833 • INFO(SIMPLE DTMF) • INFO(NORTEL NETWORKS) • INFO(DTMF RELAY) • INFO(TELEPHONE EVENT)	Refer to description	INFO (DTMF RELAY)
SMS Type	The Short Message Service Protocol (type) must be selected to support SMS. • AUTO, • Text/plan, • Text/plan(KR), • Xnipm+xml	Refer to description	AUTO
CO DIAL TONE	When the user of a SIP phone dials a CO/IP Line access code with Enblock dialing, the system can provide virtual dial tone to the user.	OFF ON	OFF
MWI NOTIFY	For compatible SIP phones, the system supports SIP Subscribe/Notify. When enabled here, the system sends Message Waiting notifications to the SIP phone. OFF, message-summary	Refer to description	OFF
Request URI Type	The SIP Request header Domain field can use the SIP phone's IP address and port (Normal) or for 'KT-FMC' the Request URI Domain field will be system IP and port.	Normal KT FMC	Normal
Busy Service	To indicate a busy condition to the SIP phone, the system can provide RTP packets with busy tone or the SIP 486 Busy message. Providing busy tone requires a VoIP DSP channel in the system. System Busy Tone, 486 Busy Message	Refer to description	System Busy Tone
Call Initiation Mode	The system can route calls to the SIP phone while busy (Multiple). In this case, the SIP phone determines if Call Waiting is supported. Otherwise, if the SIP phone is busy, the system routes calls based on the busy treatment (Single).	Multiple, Single	Multiple
Pre Audio Connection For DTMF	The system normally provides the 183 Session Progress SIP message to establish a "Pre-audio" connection. The "Pre-audio" connection permits the system to send tones (CO dial tone or ringback tone) to the SIP phone. In addition, the SIP phone can send DTMF tones the user dials in response to CO dial tone or a remote IVR message. Some SIP phones may require the 200 OK messages, which "answer" the call, to allow dialing after the call has been initiated. 183 Session Progress,200 OK	Refer to description	183 Session Progress

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Do Not Overwrite Station Name	 This feature can be set in case of the following Range: OFF(REG): Extension name will be updated with displayed in REGISTER message. ON: Extension name will not be updated. OFF(INV): Extension name will be updated with displayed in INVITE message. OFF(REG+INV):Extension name will be updated with displayed in REGISTER or INVITE message. 	Refer to description	OFF (REG)
Follow CO Enblock Process	Skip "dial tone by system" phase and deliver transparent message of CO trunk to SIP phone.	OFF ON	OFF
Suffix DID Tbl to CLI	If this option is ON, CLI is published by suffixing DID Conversion table index.	OFF ON	OFF
SIP Profile	Select the SIP Profile type between Default and CISCO-CP. Default: Normal SIP phone. CISCO-CP: CISCO SIP phone.	Default, CISCO-CP	Default
SIP Name Display	Deliver display name of SIP extension to SIP trunk without modification. ON: Deliver display name of SIP extension to SIP trunk without modification. OFF: Send name according to system rule (station name / speed name etc)	OFF ON	OFF
CO Access Code	 When ELG SIP phone receives incoming trunk call, Call-Info header is inserted "Call-Info: co-access:XX" XX value is used for callback from SIP phone log. OFF: Call-Info is not inserted. 1st Co Code: PGM106- Access CO in First CO Group will be used as XX. CO Grp Code: Co Group Code+Co Group number will be used as XX. CO Number: Individual CO Access Code + Co Number will be used as XX. 	Refer to description	1st Co Code.
ALTC Usage	ALTC Usage of SIP phone in case of IPV6 connection. OFF: ALTC is not used. ON: ALTC is used.	OFF ON	OFF
INVITE(Replac e) Usage	Original Caller ID is shown in ringing for blind transfer in below case. If "INVITE(Replace) Usage" is on and Replace header in INVITE message is supported on SIP phone	OFF ON	OFF

4.4.8.8 SIP Phone Provisioning - PGM 212

Selecting SIP Phone Provisioning will display the SIP Phone Provisioning Data input page.

Select one of CONFTYPE (Ericsson-LG Enterprise SIP Phone Type) and set the attributes you want to set for those types of SIP Phones on their registration to system and press [Save] button.

To store provisioning files that have been uploaded to iPECS system, press [Store uploaded Provision files]. To view the stored configuration files, press [View Provision files].

To download Provision files, press [Download Provision files]. To view TLS Cert. files, press [View TLS Cert files] button.

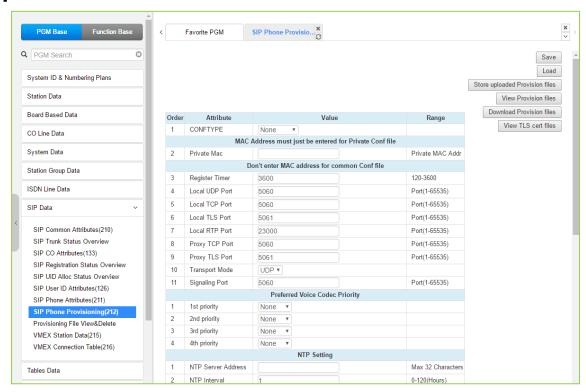


Figure 4.4.8.8-1 SIP Phone Provisioning

Why?

To pre-assign default attributes and download configuration to SIP Extensions when they register to System.

For who?(For all of specified Phone type or for one MAC specified Phone)

CONFTYPE: select Phone Type / Mandatory

< Ericsson-LG Enterprise WIT-400HE>

Currently MPB/UCP (TFTP only) does not proceed provisioning for WIT400H(http only) because of different method. But, WIT-400HE follows System's default provisioning by itself automatically.

<Ericsson-LG Enterprise LIP8002 / LIP88xx/LIP-8XXXE>
MPB/UCP proceed provisioning for LIP8002 / LIP88xx/LIP-8XXXE

< Other 3rd party SIP Extensions > Does not proceed provisioning

Private Mac

Specify MAC address if provisioning target is only for one specific SIP extension / Optional

For what?

Re-Registration Timer

This will be useless if [SIP User ID Attributes (PGM 126) - Registration Timer Usage] is ON

SIP Extension's Local UDP/TCP/TLS Port number

Proxy Port

Server port number in sight of SIP Extension toward MPB/UCP

Transport

Signaling mode

SIP Extension's CODEC Priority

NTP Server and DST setting

The default volume of Speaker/Handset/Headset, maximum volume of Handset

Table 4.4.8.8-1 SIP PHONE PROVISIONING

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CONFTYPE	To modify or view a Configuration file, from the drop-down, select an Ericsson-LG Enterprise SIP Phone type.		None
	MAC address must just be entered for Private Con	f file	
Private MAC	There are two types of Config files, a global file for all phones of a specific type and a phone specific file. To view or modify a Phone specific file, enter the MAC address of the SIP phone.	Private MAC address	
	Don't enter MAC address for common Conf file		
Registration Timer	When the SIP User ID Attributes are configured with Registration Mode=Register and the Registration Timer Usage=OFF, this timer is used to determine the valid registration period.	120-3600	3600
Local UDP Port	When employing UDP transport, this port number is employed for messages from the SIP phone.	Port (1- 65535)	5060
Local TCP Port	When employing TCP transport, this port number is employed for messages from the SIP phone.	Port (1- 65535)	5060
Local TLS Port	When employing TLS transport, this port number is employed for messages from the SIP phone.	Port (1- 65535)	5061
Local RTP Port	The system sends RTP packets to the SIP phone using the first port available starting with this port number.	Port (1- 65535)	23000
Proxy TCP Port	The SIP phone will send messages to the system over this SIP Server port.	Port (1- 65535)	5060
Proxy TLS Port	The SIP phone will send messages to the system over this SIP Server port.	Port (1- 65535)	5061
Transport Mode	The IP packet transport mode used between the system and SIP phone for signaling messages is defined as UDP, TCP or TLS. In case of TLS, the options configured in the SIP Common Attributes (PGM 210) apply.	UPD TCP TLS	UDP

Table 4.4.8.8-1 SIP PHONE PROVISIONING

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Signaling Port	When SIP phone transports the message to the system, this port number is employed for messages from the SIP phone.	Port (1-65535)	5060
	Preferred Voice CODEC Priority		
1st priority ~ 4th priority	When the system negotiates with the SIP phone, the Codec priority specified is employed. If only the 1st. priority Codec is defined, only that Codec is available from the phone. If the Codec is not supported by the remote party, the call will fail.	G.711-u G.711-a G-729 G.722	None
	NTP Setting (Need for TLS)		
NTP Server Address	The IP8800 series phones employ NTP to determine the time of day. The NTP server id must be configured for the phone.	Max. 32 Characters	
NTP Interval	The phone periodically checks the NTP server to determine the proper time of day.	0-120(Hours)	1
NTP Time Zone	The phone must be configured with the local Time Zone for proper operation and time display.	GMT	
DST Usage	The phone must be configured to support Daylight Saving Time.	ON OFF	OFF
	DSP Setting		
Speaker Volume	The default volume level of SIP phone speaker can be set through the Config file.	1-11, 1-7 (IP8850)	6
Handset Volume	The default volume level of SIP phone handset can be set through the Config file.	1-11, 1-7 (IP8850)	6
Headset Volume	The default volume level of SIP phone headset can be set through the Config file.	1-11, 1-7 (IP8850)	6
MAX Handset Volume	The default maximum volume level of SIP phone handset can be set through the Config file.	1-11	11
	Digit Map		
Dial Tone Digit	A digit string can be defined in the Config file so that the SIP phone will provide a "Second Dial Tone" to the user.	Max. 256Digits	
Inter Digit Timer	Inter digit timer between Dial digit in SIP Phone.	01-20(Sec.)	3
Pause Timer	Dial Pause timer in SIP Phone.	01-20(Sec.)	3
Digit Map	Send setup to system numbering plan.	Max. 1000	
Emergency Code	The Emergency dial code for the SIP phone can be set through the Config file.	Max. 1000	
	System Setting		
Feature Sync.	With Do Not Disturb and Call Forward feature synchronization ON, when SIP Phone changes the DND or Call Forward state, the system is informed of the change in status.	ON OFF	ON
Auto Idle Timer	Phone goes to idle after this timer when the phone receives disconnect message or signal from system.	00-99(Sec.)	5

Table 4.4.8.8-1 SIP PHONE PROVISIONING

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Check Domain	The IP8800 SIP Phones can be configured to verify the domain in SIP messages match the registered proxy server.	OFF ON	ON
Telnet Usage	The IP8800 series phones can support Tenet access to the CLI.	Enable Disable	Disable
WEB Usage	The IP8800 series phones incorporate a Web server for access to the phone configuration files.	Enable Disable	Disable
	Security Setting		
Cert File Format	The system supports two certification formats Privacy- Enhanced Electronic Mail (PEM) or Distinguished Encoding Rules (DER). PEM(Normal) , DER (Normal)	Refer to description	PEM (Normal)
Crypt Mode	The system provisioning cryptosystem is configured to employ either RSA or ECC (Elliptic Curve Cryptography).	RSA ECC	RSA
TLS Version	TLS (Transport Layer Security) version can be selected. The default is TLS 1.2 for strong secure.	TLS1.0 TLS1.2	TLS1.2
First TLS Crypto	SIP signaling TLS encryption primary key method. System will be restarted after Save. None, AES_128_CBC_SHA, ARIA_128_CBC_SHA, AES_128_CBC_SHA256, ARIA_256_CBC_SHA256	Refer to description	None
Second TLS Crypto	SIP signaling TLS encryption second key method. System will be restarted after Save. None, AES_128_CBC_SHA, ARIA_128_CBC_SHA, AES_128_CBC_SHA256, ARIA_256_CBC_SHA256	Refer to description	None
SRTP Usage	When implemented by the carrier, the system can encrypt media (RTP) packets employing SRTP (Secure Real-Time Transport Protocol).	Disable, Enable	Disable
First SRTP Crypto	The first priority Crypt method for SRTP. None, AES_CM_128_HMAC_SHA1_80, ARIA_CM_128_HMAC_SHA1_80, ARIA_CM_192_HMAC_SHA1_80	Refer to description	None
Second SRTP Crypto	The second priority Crypt method for SRTP. None, AES_CM_128_HMAC_SHA1_80, ARIA_CM_128_HMAC_SHA1_80, ARIA_CM_192_HMAC_SHA1_80	Refer to description	None

Table 4.4.8.8-1 SIP PHONE PROVISIONING

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Cava button	save provisioning for the enecified common CONETYDE or or	ooifia CID Evta	naian with

- Save button: save provisioning for the specified common CONFTYPE or specific SIP Extension with Private MAC.
- Store uploaded Provision files button: Store the uploaded provision files.
- Download Provision files button: download the provision files.
- View Provision files button: display all of saved provisioning information.
- View TLS Cert files button: display all of saved TLS Cert files information.

4.4.8.9 Provisioning File View & Delete

Selecting Provisioning File View & Delete displays a list of all the Provisioning files stored in the provisioning files directory as shown in the following figure. Note this does not included files that have been uploaded to iPECS eMG/UCP file system but not "stored" under PGM 212. To delete a file from the provisioning file directory, check the box in front of the file to be deleted then click **[Delete]**.

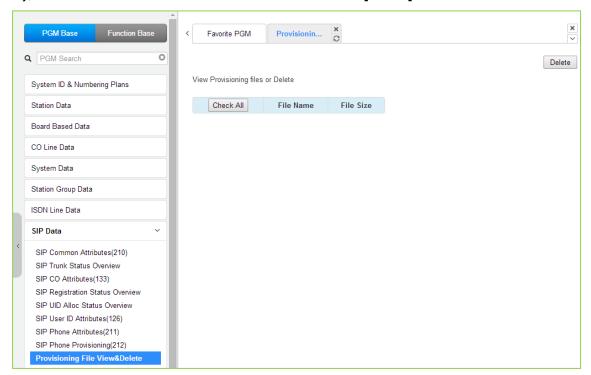


Figure 4.4.8.9-1 Provisioning File View & Delete

4.4.8.10 VMEX Station Data - PGM 215

Selecting VMEX Station data will display the VMEX Station Data input page as shown in the following figure. Enter a range, and click **[Load]** to view the VMEX Data for all stations in the range. Use the check boxes to indicate the VMEX Station Data to modify. After modifying the data, click **[Save]** to store the VMEX Station Data.

Enter VMEX Station Index Range: eMG80/100: 1-140 / eMG800: 1-1200 / UCP: 1-2400

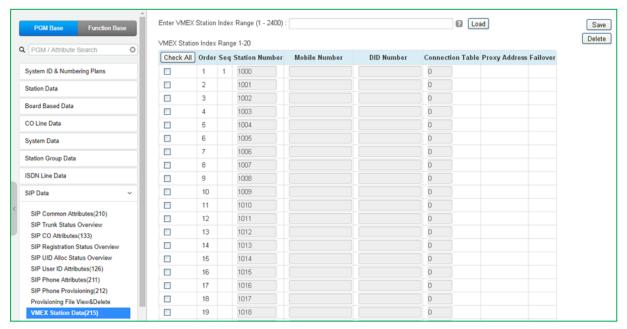


Figure 4.4.8.10-1 VMEX Station Data

The Virtual Mobile Extension feature permits a remote mobile phone to act as a station within the system employing SIP. For proper operation, various parameters as shown in the following table must be configured for the Station data.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	The station number of the VMEX can be modified. The VMEX station		
Station	number must not conflict with other numbering plans. The station	Station	
Number	number can be modified here or in PGM 105 and is affected by the 8	Number	
	Digit Table		
Mahila	The Caller Id of the Mobile phone must be entered to allow the system		
Mobile Number	to recognize the VMEX phone. The mobile number here must match		
Number	the number in the SIP From header.		
DID Number	The DID number associated with the VMEX must be configured to		
DID Number	allow for recognition of calls to the VMEX.		
Connection	An index to the Connection Table PGM 216 must be entered. One of		
	ten indices can be assigned permitting the use of multiple SIP Call	0 ~ 10	
Table	servers.		
Proxy	The SIP Proxy for the VMEX must be configured for access to the		
Address	VMEX.		
	The index (Station Number) of the Mobile Extension Table (PGM 236)	Station	
Fail-over	can be assigned for Fail-over operation. In this case, the Table entry	Station	
	must be configured for fail-over operation.	Number	

4.4.8.11 VMEX Connection table - PGM 216

Selecting VMEX Connection table will display the VMEX Connection Data input page. Use the check boxes to indicate the Table index data to modify and click **[Save]** button to store.

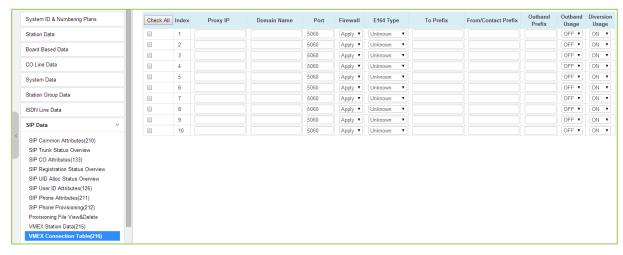


Figure 4.4.8.11-1 VMEX Connection Table

With VMEX, the carrier's Mobile network sends calls to and from the Mobile phone directly to the system employing a SIP Call server. For proper operation, the SIP Call server must be configured and special prefix codes must be defined for calls from and to the mobile phone.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Proxy IP	This field assigns the IP address or URL of the Service Provider's SIP Proxy server.		
Domain Name	Domain name of the Service Provider's SIP Call server that is used in SIP "To:" headers.		
Port	Normally SIP signaling messages are sent on port 5060. If desired a different port can be defined.		5060
Firewall	The iPECS system can use the Firewall address or LAN address of the iPECS system board when communicating with the VMEX.	Not/ Apply	Apply
E164	The structure of the received SIP invite To header from the VMEX can be defined for proper conversion. This field is not presently used. Unknown, International, National, Local	Refer to description	Unknown
To Prefix	A special prefix code is included in the SIP invite "To" header sent from iPECS system to the carrier's SIP Call server to identify VMEX service	3 to 5 digits	
From Contact Prefix	A special prefix code is included in the SIP invite "From" and "Contact" header sent from iPECS system to the carrier's SIP Call server to identify VMEX service	3 to 5 digits	
Outbound Prefix	A special prefix code that must be in the SIP invite "To" header received by iPECS system for calls from the VMEX. If the prefix received does not match this entry, the call is rejected.	8 digits	
Outbound Usage	Not used.		
Diversion Usage	Not used		

4.4.9 Tables Data

Selecting the Tables Data group returns the sub-menu displayed in the left frame as shown in the following figure.

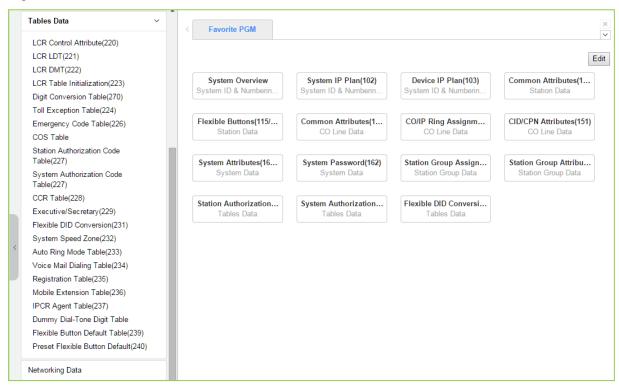


Figure 4.4.9-1 Tables Data

4.4.9.1 LCR Control Attributes - PGM 220

Selecting LCR Control Attributes will display the LCR Control Attributes data entry page. Click **[Save]** button after changing Value.

The LCR Tables provide a mechanism to define the database, which will route outgoing calls, particularly long distance, using the most cost effective route.

User dialed digits are compared to table entries and modified appropriately based on time of day, day of week, and assigned routes.

There are four LCR Tables, LCR Control Attributes, LCR Leading Digit Table, LCR Digit Modification Table, and LCR Initialization Table.

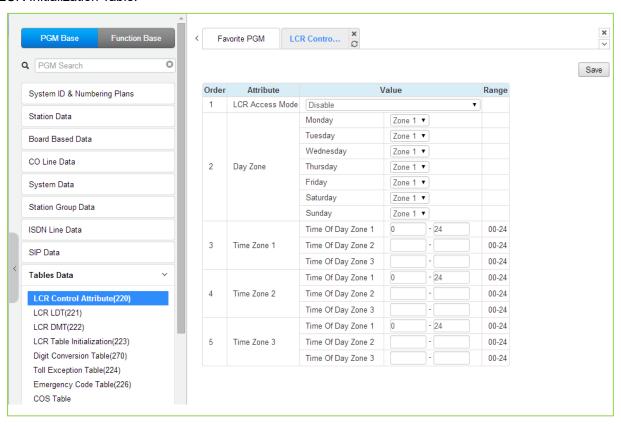


Figure 4.4.9.1-1 LCR Control Attributes

The LCR Control Attributes Table, among other items, allows assignment of the LCR Access Modes. The LCR Access Modes defines the user operations that will access the LCR feature.

The LCR Access Modes are:

- LCR Disabled.
- Loop (user dials '9' or CO/IP Group code (8xx), or presses a Loop button).
- Loop and Internal (user dials digits without a CO/IP Access Code prefix).
- Loop and Direct CO Line (user dials CO Line Access Code (88xx) or pressing a (CO line) button).
- Loop, Direct CO Line, and Internal.
- Internal, Loop, Direct CO and Direct Loop.

In addition, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). The following table provides general descriptive information and input ranges.

Table 4.4.9.1-1 LCR Control Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	This entry defines the effective LCR modes, the modes by which the user can access LCR. Disable		
LCR Access Mode	Only Loop LCR Internal and Loop LCR Loop and Direct CO LCR Internal, Loop and Direct CO LCR	Refer to description	Disable
	Internal, Loop, Direct CO and Direct Loop LCR		
Day Zone	Each day of the week is assigned to a Day Zone (1~3). The active Day Zone is the Zone assigned to the current day of the week.	Zone1~3 (days of the week)	Zone 1
Time Zone1	This entry defines the hours of the day during which each Zone is active for Time Zone 1. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
Time Zone2	This entry defines the hours of the day during which each Zone 2 is active for Time Zone 2. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
Time Zone3	This entry defines the hours of the day during which Zone 3 is active for Time Zone 3. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24

4.4.9.2 LCR LDT (Leading Digit Table) - PGM 221

Selecting LCR-LDT (Leading Digit Table) will display the LCR-LDT data entry page. Select the LDT Index range desired, blue text above the table header. Click **[Save]** button after changing Value.

Enter LDT Table Index Range: eMG80/100: 1-10 / eMG800: 1-32 / UCP: 1-32

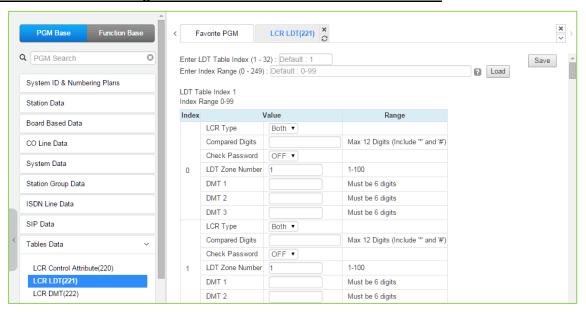


Figure 4.4.9.2-1 LCRLeading Digit Table

The Leading Digits Table is used to analyze the user-dialed digits to determine an appropriate Digit Modification Table Index.

LDT Tables are provided for 10 for eMG80/100 system& 32 for eMG800/UCP system. The Table is divided into bins. The applicable LCR Access Modes (LCR Type) and the digits (up to the first 12) dialed by the user are compared with the entries in the Leading Digit Table.

In addition, indices to the Digit Modification Table are defined for each of the three (3) Zones and Time Zones configured in the LCR Control Attributes. The following table provides a brief description and entries for the Leading Digit Table.

Table 4.4.9.2-1 LON LEADING DIGITS				
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
LCR Type	This entry defines the LCR modes that will apply to this LDT index.	Internal, CO Line, Both	Both	
Compared Digits	Up to 12 digits that, if matched by the user dialed digits, will access the DMT Indices of the associated Leading Digit Table bin.	Max. 12 digits (Include * and #)		
Check Password	If enabled (ON), when the dialed digits match the LDT digits, the system will send second dial tone to request the user input a valid Authorization code.	OFF ON	OFF	
LDT Zone Number	If the LDT Zone Number of a station/co line is equal to this value, this LDT table is available to the station/co line.	1-100	1	

Table 4.4.9.2-1 LCR LEADING DIGITS

Table 4.4.9.2-1 LCR LEADING DIGITS

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	(Station Data->Common Attributes(111), CO Line Data-		
	>Common Attributes(140))		
	This entry defines the Digit Modification Table index		
	(00~99) for each Time Zone for Day Zone 1. The	Muset has Calimita	
DMT1	appropriate index will be selected for the current Day	Must be 6 digits	
	and Time Zone. One entry (DMT index) is made for	3 DMT indices	
	each Time Zone, six (6) digits.		
	This entry defines the Digit Modification Table index	M at la O d'atta	
	(00~99) for each Time Zone for Day Zone 2. The		
DMT2	appropriate index will be selected for the current Day	Must be 6 digits	
	and Time Zone. One entry (DMT index) is made for	3 DMT indices	
	each Time Zone, six (6) digits.		
	This entry defines the Digit Modification Table index		
	(00~99) for each Time Zone for Day Zone 3. The	Maratha Calinita	
DMT3	appropriate index will be selected for the current Day	Must be 6 digits 3 DMT indices	
	and Time Zone. One entry (DMT index) is made for		
	each Time Zone, six (6) digits.		

4.4.9.3 LCR DMT (Digit Modification Table) - PGM 222

Selecting LCRDMT (Digit Modification Table) will display the LCR-DMT data entry page. Enter the DMT Table Index range then click **[Load]** to modify the DMT data. Click **[Save]** button after changing Value.

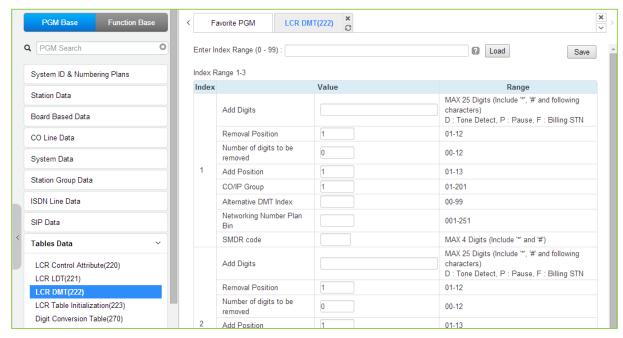


Figure 4.4.9.3-1 LCR Digit Modification Table

Using the index determined from the analysis of the LCR Leading Digits Table, the dialed number is modified in accordance with the Digit Modification Table and sent over the CO/IP group assigned for the index.

Digits of the dialed number can be deleted based on the "Removal Position" and "Number of digits to be removed" entries and a digit stream can be inserted in the resulting number. Counting from the first dialed digit, the Removal Position defines the location of the digit where removal begins and, the Number of digits to be removed defines the number of digits to remove. The "Add Digits" are then inserted in the resulting number at the digit position assigned by the Add Position entry. The resulting number is then dialed over the CO/IP path assigned. If the assigned path is not available, the "Alternate DMT index" is used to determine the number and CO/IP path to be used.

Table 4.4.5.5-1 Edit Mobil Ida Hot			
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Add Digits	This entry defines the digit stream to insert in the number after digit removal. Digits 0~9, '*', '#', and special characters, P: timed Pause D: Dial tone detect F: Billing station number	Max. 25 digits	
Removal Position	This entry defines the position of the digit where removal is to begin, starting with the 1st dialed digit (01).	01~12	1
Number of digits to be removed	This entry defines the number of digits to remove starting at the "Removal Position	00~12	0
Add Position	This entry defines the position in the number, after digit removal, where the Add Digits are inserted.	01~13	1

Table 4.4.9.3-1 LCR DIGIT MODIFICATION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO/IP Group	This entry defines the CO/IP Group that the system will attempt to use for the call.	eMG80/100:01-21 eMG800:01-201 UCP: 01-201	1
Alternative DMT Index	This entry defines an Alternate Digit Modification Table Index to use if no path is available in the assigned CO/IP Group.	00~99	
Networking Number Plan Bin	This entry defines the Net Number Plan Table bin that the system will attempt to use for the transit out call.	001-251	
SMDR Code	This only used for TNET with CM. This code will be send to CM when the TNET status is changed from Local survival mode to bypass mode.	Max. 4 digits (Include * and #)	

Table 4.4.9.3-1 LCR DIGIT MODIFICATION

4.4.9.4 LCR Table Initialization - PGM 223

Selecting LCR Table Initialization will display the LCR Table Initialization data entry page. Click **[Initialize]** button to initialize input data.

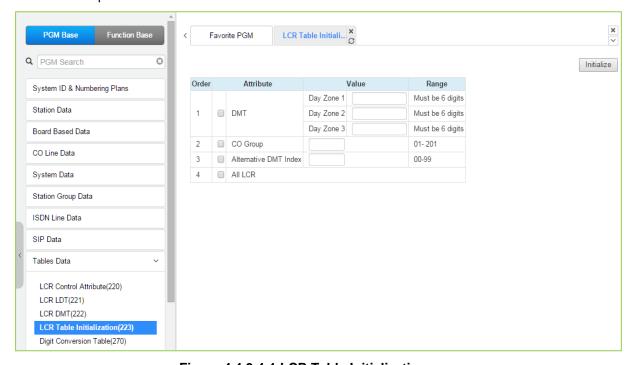


Figure 4.4.9.4-1 LCR Table Initialization

The LCR Table Initialization allows global values to be assigned to the various Digit Modification Table entries. In addition, the LCR Leading Digits and LCR Digit Modification Tables can be initialized to the default (no entries) state.

The CO group rage is from 1 to 21 for eMG80/100 and from 1 to 201 for eMG800/UCP.

4.4.9.5 Digit Conversion Table - PGM 270

Selecting Digit Conversion Table will display the page shown. Click [Save] button after changing Value.

EnterTable Number: eMG80/100: 1-15 / eMG800: 1-32 / UCP: 1-32

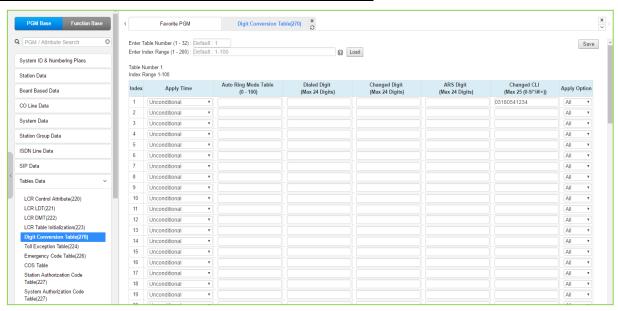


Figure 4.4.9.5-1 Digit Conversion Table

The Digit Conversion Table index is assigned to the Station and CO line. In addition, digit conversion can be applied according to the Apply Time Type (Unconditional, Day/Night/Timed or LCR/Time) as necessary. Each Table has 200 entries of up to 24 digits. Entries in the Tables can be any digit (0-9), "*", "#","X" (Mask Digit), "F" (Ignore digit). Each Index can be applied by Apply Option (All/Station/CO line/Disable).

Table 4.4.9.5-1Digit Conversion table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
A south these	The Apply time type to be applied when the dialed digit is dialed.	Refer to	Un
Apply time	Unconditional, Follow Day/Night/Timed, Follow LCR	description	conditional
Auto Ring	Day/Night/Timed Time Table Index.	Refer to	
Mode table	N/A, eMG:00-15, UCP:00-100	description	
Dialod digit	Disland digit to be compared	Max. 24	
Dialed digit	Dialed digit to be compared.	Digits	
Changed digit	Changed digit.	Max. 24	
Changed digit		Digits	
	If a selected path is not available for some reason (All Busy, Line		
ADC Digit	Fault etc.) after digit conversion, Alternative Route Selection	Max. 24	
ARS Digit	(ARS) will connect calls using predefined designated ARS digit in	Digits	
	digit conversion table.		
Changed CLI	The different CLI as Changed CLI according to Dialed digit can be	Max. 25	
Changed CLI	sent.	Digits	
Apply option	The Apply Option can be applied according to the caller.	Refer to	A II
	All, Station, CO line, Disable	description	All

4.4.9.6 Toll Exception Table - PGM 224

Selecting Toll Exception Table will display the Toll Table data entry page. Select the desired Allow or Deny Table, blue text above the table header, desired.Click **[Save]** button after changing Value.

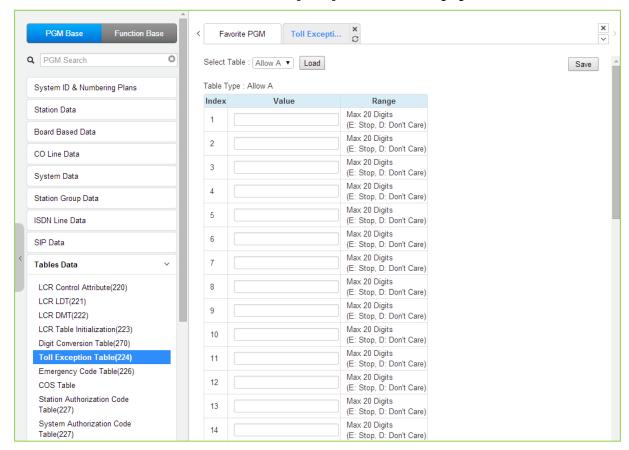


Figure 4.4.9.6-1 Toll Exception Table

There are ten Toll restriction Tables arranged in pairs. Each pair consists of an Allow Table and a Deny Table. Allow and Deny entries for Table `A' apply to Station and DISA Class of Service 2/4 and 11. Allow and Deny entries for Table `B' apply to Station and DISA Class of Service 3/4 and 11. Allow and Deny entries for Table `C' apply to Station and DISA Class of Service 5 and 6. Allow and Deny entries for Table `D' apply to Station and DISA Class of Service 8/10 and 11. Allow and Deny entries for Table `E' apply to Station and DISA Class of Service 9 to 11. The Allow and Deny Tables each permit up to 50 entries of up to 20 digits. Entries in the Tables can be any digit (0-9), "#" as a wild card (don't care) digit, or "*" as an end of entry digit.

Based on Table entries, stations or DISA users are allowed or denied dialing specified numbers. The following rules apply to establishing restrictions based on the Table entries:

- If the appropriate Allow/Deny Table pair has no entries and COS is 2 to 4, no restrictions are applied. If the COS is 5 or 6, no Long Distance dialing is allowed.
- If entries are only made in the Allow Table, only those numbers entered can be dialed, all other dialed numbers will be restricted.
- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table, the number will be restricted otherwise the number can be dialed without restriction.

4.4.9.7 Emergency Code Table - PGM 226

Selecting Emergency Code Table will display the Emergency Code Table data entry page. Click **[Save]** button after changing Value.

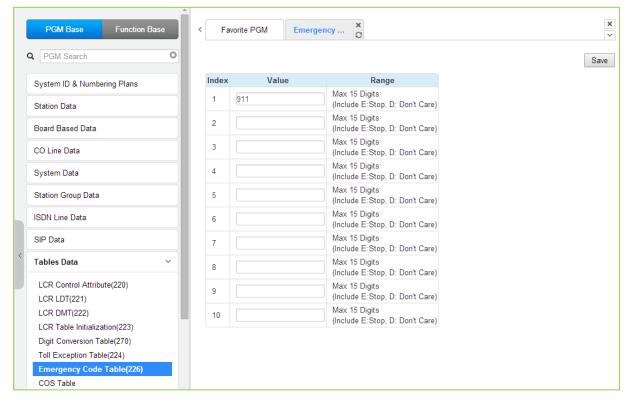


Figure 4.4.9.7-1 Emergency Code Table

The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions. An Emergency Code number may be up to fifteen (15) digits in length.

4.4.9.8 COS Table

Selecting COS Table will display the COS Table data entry page. Data can be filtered to display specific modes and the values to change can be limited to a specific mode and type, Station or System Authorization codes.

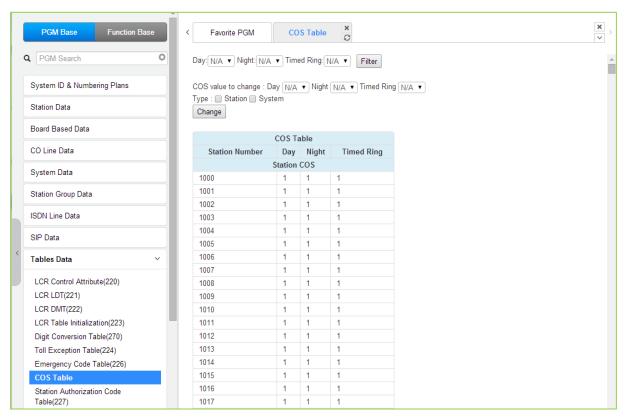


Figure 4.4.9.8-1 COS Table

Assignments for COS are made for the Day, Night, and Timed Ring for each station and system Authorization code. The standard Station COS 1 to 11 is assigned to each Authorization code. Note the COS may also be defined in the Station and System Authorization Code Tables.

4.4.9.9 Authorization Codes Table - PGM 227

There are two Authorization Code Tables, the System Authorization Code Table and Station Authorization Code Table.

Selecting Station Authorization Code Table will display the data entry page in Figure 4.4.9.9-1 and selecting System Authorization Code Table will display the page in Figure 4.4.9.9-2.

Enter a Station or System Index range and click **[Load]** to modify the data. For convenience, the copy, paste, and drag is available to enter or modify data. Please click **[Save]** button to apply after changing Value.

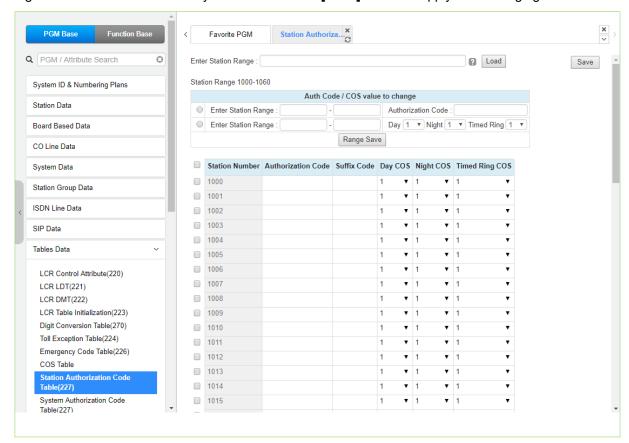
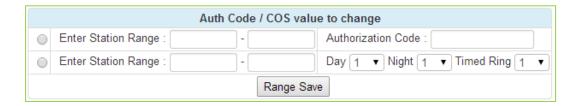


Figure 4.4.9.9-1 Station Authorization Code Table



User can change the authorization code and COS for the station range across the board and click the Range save button to save.

You can use the suffix code, which is 8 characters in length when the station user accesses to station web admin, user portal or click to call service for security enhancement.

A station user has to input the code after authorization code if the code is set. If you don't set the code, the station user doesn't need the code. The station user can access with only authorization code.

PGM Base Station Authorization... System Authorizati... × Favorite PGM 0 Q PGM / Attribute Search Enter System Index Range (1 - 1200) : Default : 1-100 ? Load Save System ID & Numbering Plans System Index Range From 1-100 Station Data COS value to change Enter System Index Range : Day 1 ▼ Night 1 ▼ Timed Ring Board Based Data CO Line Data ■ Index Authorization Code Day COS Night COS Timed Ring COS Remark System Data **1** Station Group Data **2** ISDN Line Data **3** 4 SIP Data ▼ 1 5 Tables Data **6** 7 **▼** 1 8 LCR LDT(221) **9** LCR DMT(222) **10** LCR Table Initialization(223) Digit Conversion Table(270) **11** Toll Exception Table(224) **12** Emergency Code Table(226) 13 **v** 1 COS Table **14** Station Authorization Code **15** ▼ 1 Table(227) **16**

Enter System Index Range: eMG80/100: 1-360 / eMG800: 1-1200 / UCP: 1-2800

Figure 4.4.9.9-2 System Authorization Code Table



User can change COS for the system index range across the board and click the Range save button to save.

Authorization codes are employed to control access to system resources and facilities. Walking COS, CO/IP Group access, DISA calls and certain Call Forward types may require input of a valid Authorization code. Codes up to 12 digits may be entered into the system database.

There are two types of Authorization codes, station and system. The Station entries are associated with individual stations. The number of system Authorization codes varies based on the configuration; the number of available codes is provided in Table 2.1-x. Each Authorization code may be assigned a separate COS for Day, Night and Timed Ring mode operation.

The system will allow the station associated Authorization codes to be duplicated. However, the iPECS will not allow duplicate or conflicting system level codes unless the '*' and Authorization table indexing is used to enter codes. Conflicting codes occur when a shorter code contains the first digits of a longer code, i.e. 12 conflicts with 1234.

Table 4.4.9.9-1 STATION/CO LINE COS TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 9	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction

Table 4.4.9.9-2 STATION CLASS-OF-SERVICE

STATION COS	RESTRICTIONS
1	No restrictions are placed on dialing from the station.
2	The assignments in Exception Table A are monitored for allow and deny numbers.
3	The assignments in Exception Table B are monitored for allow and deny numbers.
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.
5	The leading digit dialed cannot be a Long Distance code, default "0", and further
	denied/allowed based on Exception Table C.

Table 4.4.9.9-2 STATION CLASS-OF-SERVICE

STATION COS	RESTRICTIONS
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 8 digits, and further denied/allowed based on Exception Table C.
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.
8	The assignments in the Exception Table D are monitored for allow and deny numbers.
9	The assignments in the Exception Table E are monitored for allow and deny numbers.
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.

4.4.9.10 Customer Call Routing Table - PGM 228

Selecting CCR Table will display the Customer Call Routing data entry page. Enter an index to select the appropriate CCR Table and click **[Load]** to modify the table. Click **[Save]** button after changing Value.

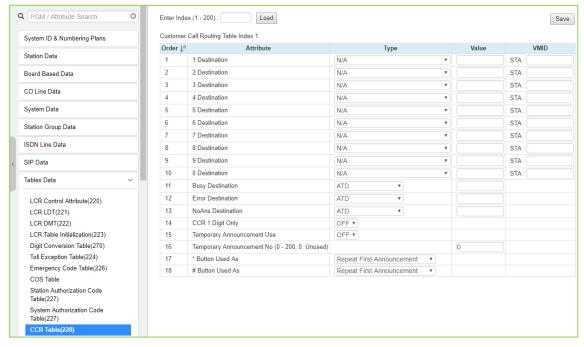


Figure 4.4.9.10-1 Customer Call Routing Table

The system incorporates IVR (Interactive Voice Response) capabilities called CCR (Customer Call Routing). After, or during a VSF Announcement, the caller may dial digits to select a destination or route for the call. The CCR Table defines the destination type and value associated with the digit dialed by the caller in response to the index, a VSF Announcement (01-200). The available destinations are shown in Table 4.4.9.10-1 below.

Up to 70 single-level Audio Text menus may be assigned or, multi-level menu structures (maximum 70 levels) can be established using one menu as a destination for the previous level. Each CCR announcement can have re-route destination – Busy / Error / No Answer case. Each re-routed destination types are Tone / Attendant / Station Group / VSF Announcement number / Station / System Speed / Networking / Voice Mail (Station group).

The table includes a "CCR 1 Digit Only" option. When this option is enabled, the system will accept only a single digit as the entry. When the option is OFF, the caller can dial multiple digits that are accepted as DISA dialing.

Temporary announcement can be used in holiday, or emergency case. When Temporary Announcement Usage is set to ON, programmed Temp Announcement is played instead of CCR table announcement. This Temporary Announcement can be set also by Remote Access - by using [Remote Access to Mobile Extension] feature.

After access to Mobile Extension,

- To turn On Temp Announcement, 8 + CCR Announcement Number.
- To turn Off Temp Announcement, 9 + CCR Announcement Number.

[*] Button Used As, [#] Button Used As has 3 available options for [*] or [#] button

- Repeat First Anno
- Repeat Current Anno

Access Voice Mail Remotely

Table 4.4.9.10-1 CCR DESTINATIONS (PGM 228)

TYPE	DESCRIPTION
00	N/A
01	Route to a Station
02	Route to a Station Group
03	Route with System Speed Dial
04	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)
05	Route to VSF Announcement
06	Route to VSF Announcement and disconnect
07	Route to Networked Station
08	Conference Room
09	Internal Page
10	External page
11	All Call Page
12	Route to voice mail (station group/station number)
13	Company Directory
14	Record VM Greeting
	Room Type Conf Group Join
15	(Value: system conference group number)
	(Value Range: eMG80/100(0 or 100~139), eMG800/UCP(0 or 100~259)

4.4.9.11 Executive/Secretary Table - PGM 229

Selecting Executive/Secretary will display the Executive/Secretary Table data entry page.Click **[Save]** button after changing Value.

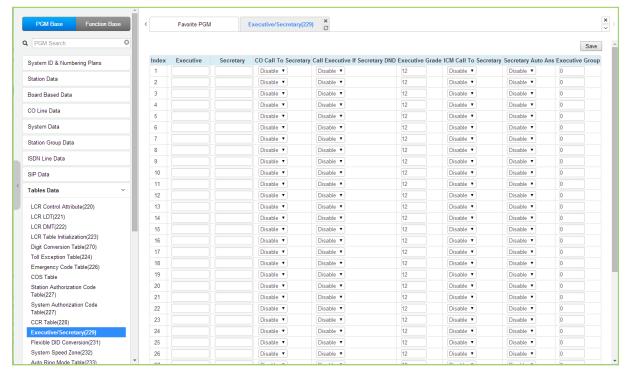


Figure 4.4.9.11-1 Executive/Secretary Table

Stations can be paired as Executive/Secretary pairs so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have only one Secretary however, a Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another however, assignments that form a loop-back are not allowed. In addition, when active, the Secretary can be assigned to receive the Executive's voice messages, refer to Common Attributes section.

The "CO Call to Sec" option will route all CO calls to the Executive to the defined Secretary's station regardless of the Executive's station status. The "Call Executive if Secretary DND" option will route Executive calls back to the Executive if the Secretary is in DND.

The Exec Grade permits higher grade Executives to override the Executive/Secretary Forward feature to call a lower grade Executive (Korea only). The highest grade is 1 and the lowest grade is 12. The "ICM Call to Secretary" option will route all internal calls to the Executive(except for calls from higher or same grade executive) to the defined Secretary's station regardless of the Executive's station status.

Refer to the following table for a description of the Executive/Secretary parameters and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Executive	Assign Executive.		
Secretary	Assign Secretary.		
Executive grade	Higher (or equal) grade Executives can override the Executive/Secretary Forward feature (5th: ICM call to SEC) to call a lower grade Executive. Highest grade: 01, Lowest grade: 12.	01~12	12

Table 4.4.9.11-1 Executive/Secretary Table

Table 4.4.9.11-1 Executive/Secretary Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Executive Group	If Group is greater than 1, it works that lower grade executive can call to higher grade executive directly when they are same group.	00-50	00
ICM Call to Secretary	If this option is ON, all internal calls to the executive station (except for calls from higher or same grade executive) are routed to the Secretary's station regardless of the Executive's status. 8801 Default value Korea, India, Israel, Turkey, Thailand: ON Otherwise: OFF	Enable/ Disable	Disable
CO Call to Secretary	If desired, all incoming CO calls to the Exec. The call is routed to the Secretary's station regardless of the Executive's status.	Enable/ Disable	Disable
Call Executive if Secretary is in DND	If the Secretary is in DND, Executive calls can be routed back to the Executive.	Enable/ Disable	Disable
Call Executive If High Secretary	If this value is set to ON, high grade secretary call to low grade executive although ICM Call To Secretary option is ON.	Enable/ Disable	Disable
Secretary Auto Answer	When executive call to the secretary who is in 'T' mode. The call will be answered by hands free mode if it is ON.	Enable/ Disable	Disable

4.4.9.12 Flexible DID Conversion Table - PGM 231

Selecting Flexible DID Conversion Table will display the Flexible DID Table data entry page. For convenience, the copy, paste, and drag is available to enter or modify data. Click [Save] button after changing Value. Click [Initialize All table Data] to initialize all table and Click [Delete All Table Data] to delete.

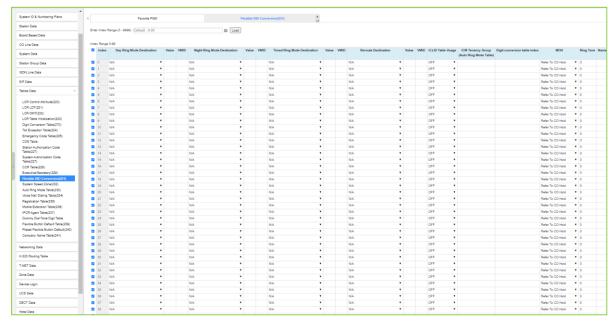


Figure 4.4.9.12-1 Flexible DID Conversion Table

When the received DID digits are converted, the resulting three-digit number may be used as an index to the Flexible DID Conversion Table.

The Flexible DID Table index is used when DID Line is assigned a Conversion type 2, refer to the DID Service attributes section 4.4.4.6. Using the index from the digit conversion a destination for the DID call is determined by a Look-up in the Flexible DID Table.

The destination for the call is generally defined as a type and a value. The type selects options such as station, station group, VSF, etc. The value specifies the particular station, station group, etc. In addition, ICLID routing can be enabled for DID lines or can be assigned as an index to the Auto Ring Mode table.

Table 4.4.9.12-1 FLEXIBLE DID CONVERSION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Day Ring Mode Destination	Destination setting for Day Ring mode.	N/A, Station,	N/A
Night Ring Mode Destination	Destination setting for Night Ring mode.	Station Group,System Speed,PABX transfer with system speed,	N/A
Timed Ring Mode Destination	Destination setting for Timed Ring mode.	 VSF announcement, VSF announcement and Disconnect, Networking Conference room, 	N/A
Reroute Destination	Destination setting for Reroute Ring mode.	 Internal page External page, All call page Voice mail (Station group), ICLID Table Company Directory, Record VM Greeting, Room Type Conf Group Join 	N/A
ICLID Table	Use ICLID Routing, section 4.4.7.4.	OFF/ON	OFF
ICM Tenancy Group (Auto Ring Table)	A DID Conversion Table Index can be assigned to employ an ICM Tenancy Group Auto Ring Table to determine Day/Night/Timed operation mode.	eMG80/100: 0~15 eMG800: 0~32 UCP: 0~100	N/A
Digit Conversion table index	A DID Conversion Table Index can be assigned to employ a digit conversion table	eMG80/100: 0~15 eMG800: 0~32 UCP: 0~32	N/A
МОН	A Music source is assigned so that calls to the destination receive audio from the source in place of ring-back tone.	 Refer to CO Hold Internal/External Music 1 External Music 2 VSF MOH SLT MOH 1~5 VSF MOH 2~30 	Refer to CO Hold
Ring Tone	A call routed with the DID Conversion Table will employ the selected Ring tone to alert the destination.	0-16	0
Name	An eleven character Name can be configured for the Table bin.	11 characters	

4.4.9.13 System Speed Zone Table - PGM 232

Selecting System Speed Zone will display the System Speed Zone data entry page. Click **[Save]** button after changing Value.

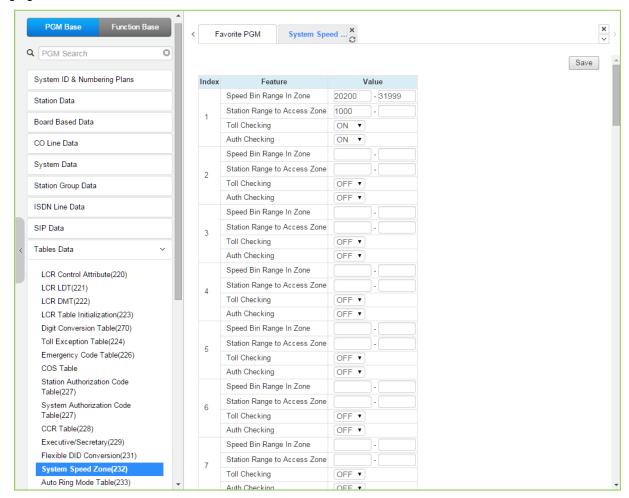


Figure 4.4.9.13-1 System Speed Zone

System Speed Dial Bins assigned to a zone are only available to stations allowed access to that zone. Each zone can be assigned to apply the appropriate Station and CO Line COS for the speed dial number prior to dialing. The speed Bin in Zone and Station Range to access zone is different according to selecting Speed Numbering; refer to 'Speed Numbering' in System ID (100)

	14510 11 10 10 10 12 15 12 10 112		
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Speed Bin Range in Zone	A range of Speed Dial Bins is assigned to a zone.		
Station Range to Access Zone	A range of Stations is permitted access to the System Speed dials in the Zone.		
Toll Checking	Toll restriction can be applied to Speed Dials in the Zone.	OFF ON	ON
Auth Checking	The user can be required to enter a valid Authorization code to use Speed Dials in the zone.	OFF ON	ON

Table 4.4.9.13-1 SYSTEM SPEED ZONES

4.4.9.14 Auto Ring Mode Table - PGM 233

Selecting Auto Ring Mode Table will display the Auto Ring Mode Table data entry page. Enter the desired index (Tenancy Group) and click **[Load]** to enter data. Click **[Save]** button after changing Value.

Enter Index: eMG80/100: 0-15 / eMG800: 0-32 / UCP: 0-100

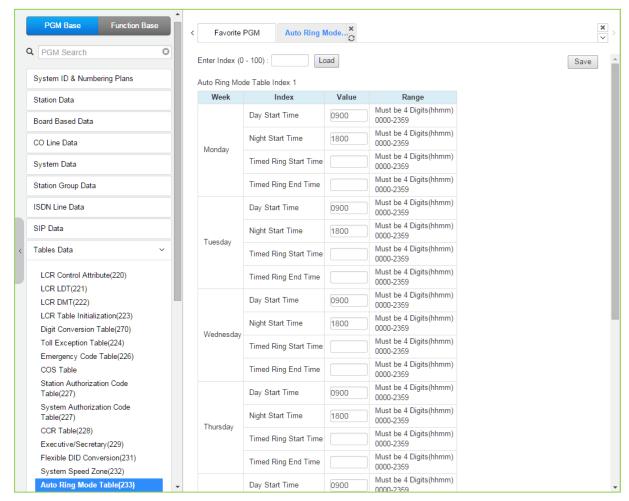


Figure 4.4.9.14-1 Auto Ring Mode Table

The system can be programmed to automatically select the Ring and COS based on time of day and day of the week. Three Ring & COS modes are available, Day, Night, and Timed.

The Ring assignments are as defined in CO Ring Assignments. COS assignments are made in the Station COS and DISA COS programs discussed in sections, respectively.

The start times for Day, Night and start and end times for Timed modes are entered for each day of the week. After the Timed end time the mode returns to day if time is not in the Night mode.

The Attendant can override the Automatic selection and select the desired mode (Day, Night, and Timed) manually. A separate Auto Ring Table can be established for each ICM Tenancy Group in section (indices 1 ~ 15for eMG80/100& indices 1~32 for eMG800& 1~100 for UCP) and for the system (index 00).

4.4.9.15 Voice Mail Dialing Table - PGM 234

Selecting Voice Mail Dialing Table will display the Voice Mail Dialing data entry page. Click **[Save]** button after changing Value.

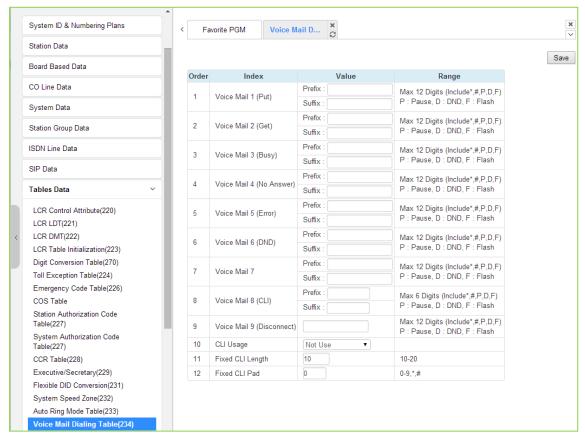


Figure 4.4.9.15-1 External Voice Mail Dialing Table

When an external Voice Mail system is used that connects to an SLT port, a digit sequence must be defined for the system to signal various call characteristics to the Voice Mail system. The external Voice Mail uses the sequences to determine appropriate announcements or further call routing. The Table permits the definition of digits as either a prefix or suffix to other digits (station number for mailbox identification). Sequences are defined for such call characteristics as Put Mail, Get Mail, No Answer call, etc. as described in the following table.

Table 4.4.3.10-1 Voice MAIL DIALING TABLE				
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
	Code to send when the voice mail is to receive call to	Prefix		
Voice Mail1	record a message. [Put Mail]	Suffix		
(Put)	When you enter the Digit, the Digit means are	(Max. 12 Digits/		
	P: Pause, D: DND, F: Flash	Include *, #, P, D, F)		
	Code to send when the voice mail is to playback a	Prefix		
Voice Mail 2	recorded message.[Get Mail]	Suffix		
(Get)	When you enter the Digit, the Digit means are	(Max. 12 Digits/		
	P: Pause, D: DND, F: Flash	Include *, #, P, D, F)		

Table 4.4.9.15-1 VOICE MAIL DIALING TABLE

Table 4.4.9.15-1 VOICE MAIL DIALING TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Code to send when the voice mail is to receive a call	Prefix	
Voice Mail 3	when the user is busy. [Busy Mail]	Suffix	
(Busy)	When you enter the Digit, the Digit means are	(Max. 12 Digits/	
	P: Pause, D: DND, F: Flash	Include *, #, P, D, F)	
	Code to send when the voice mail is to receive a call	Prefix	
Voice Mail 4	when the user did not answer. [No Answer Mail]	Suffix	
(No Answer)	When you enter the Digit, the Digit means are	(Max. 12 Digits/	
	P: Pause, D: DND, F: Flash	Include *, #, P, D, F)	
	Code to send when the voice mail is to receive a call	Prefix	
Voice Mail 5	when a user dialing error exists. [Error Mail]	Suffix	
(Error)	When you enter the Digit, the Digit means are	(Max. 12 Digits/	
	P: Pause, D: DND, F: Flash	Include *, #, P, D, F)	
	Code to send when the voice mail is to receive a call	Prefix	
Voice Mail 6	when the user is in DND. [DND Mail]	Suffix	
(DND)	When you enter the Digit, the Digit means are	(Max. 12 Digits/	
	P: Pause, D: DND, F: Flash	Include *, #, P, D, F)	
		Prefix	
	When you enter the Digit, the Digit means are	Suffix	
Voice Mail 7	P: Pause, D: DND, F: Flash	(Max. 12 Digits/	
		Include *, #, P, D, F)	
		Prefix	
Voice Mail	When you enter the Digit, the Digit means are	Suffix	
8(CLI)	P: Pause, D: DND, F: Flash	(Max. 12 Digits/	
,	, ,	Include *, #, P, D, F)	
		Prefix	
Voice Mail 9	Code for disconnect call. [Disconnect Mail]	Suffix	
(Disconnect)	When you enter the Digit, the Digit means are	(Max. 12 Digits/	
(= ::::::)	P: Pause, D: DND, F: Flash	Include *, #, P, D, F)	
	Not use: Do not send CLI	,	
	Real CLI length: Send CLI without padding before	Not use,	
CLI Usage	prefix code.	Real CLI length,	Not use
	Fixed CLI length: Send CLI with fixed length.	Fixed CLI length	
Fixed CLI	Define length of CLI.	10-20	10
Length	Donne length of OLI.	10-20	10
Fixed CLI Pad	Define padding character for CLI.	0-9,*,#	0

4.4.9.16 Registration Table - PGM 235

Selecting Registration Table will display the Registration data entry page. Click **[Save]** button after changing Value.

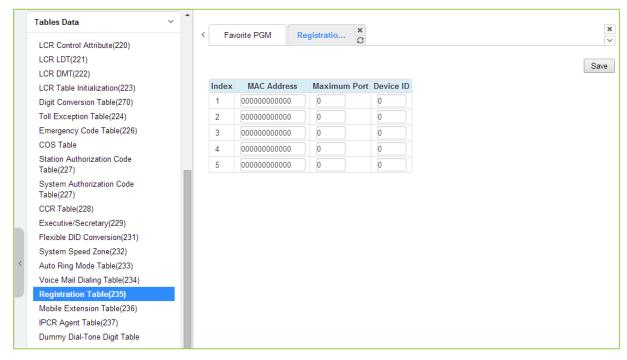


Figure 4.4.9.16-1 MAC Registration Table

When multiple iPECS systems are located on the same LAN, it may be desirable to register add-on devices employing the Registration Table.

DESCRIPTION	RANGE	DEFAULT
Enter MAC address of a device to register		00000000000
Enter maximum number of ports (channels) for the device.	00-99	00
A device ID may be entered for registration. The Device ID available shown at the bottom of the System Overview	0-255	0
	Enter MAC address of a device to register Enter maximum number of ports (channels) for the device. A device ID may be entered for registration. The Device ID	Enter MAC address of a device to register Enter maximum number of ports (channels) for the device. 00-99 A device ID may be entered for registration. The Device ID availableis shown at the bottom of the System Overview 0-255

Table 4.4.9.16-1 MAC REGISTRATION TABLE

4.4.9.17 **Mobile Extension Table - PGM 236**

Selecting Mobile Extension Table will display the Mobile Extension data entry page. Select the Station Order range desired, blue text above the table header. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click [Save] button after changing Value.

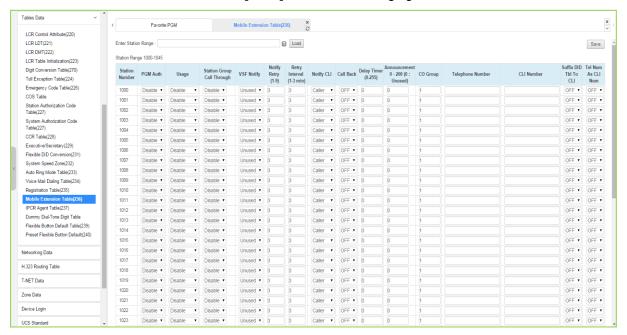


Figure 4.4.9.17-1 Mobile Extension Table

A mobile phone can be used in conjunction with an iPECS Phone. The Mobile phone can access system resources available to the user's wired phone and will receive ring for incoming iPECS calls. The user may be allowed to enable the Mobile extension and define the mobile number. The system can be defined to employ a specific CO/IP Line Group to place calls to the Mobile phone. In addition, the mobile phone can be assigned to receive Station group calls to the primary extension. Also, parameters for notification of new VSF voice mails can be defined.

Table 4.4.9.17-1 MOBILE EXTENSION TABLE				
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
PGM Authority	The user may be allowed to activate the mobile extension feature.	Disable Enable	Disable	
Usage	Mobile extension feature can be enabled and Fail Over to Mobile extension can be included.	Disable Mobile Ext Fail Over	Disable	
StationGroup Call Enable	When the paired station is a member of a Station group (ACD, Circular, or Terminal), group calls can be sent to the active mobile extension.	Disable Enable	Disable	
VSF Notify	When enabled the active Mobile Extension will receive notification by the system when the user has a new message in the built-in Voice Mail.	Unused Use	Unused	
Notify Retry	The number of attempts the system will make to complete a notification when receiving busy/no-answer is defined.	1 – 9 Times	3 Times	
Retry Interval	This field defines the time between notification attempts. If a notification fails, the system will retry after the timer expires.	1 – 3 minutes	3 Minute	

Table 4.40.47.4 MODULE EVTENCION TABLE

Table 4.4.9.17-1 MOBILE EXTENSION TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Notify CLI	When the system sends CLI to the Mobile Extension, the CLI can be either the original caller's CLI or the CLI of the station.	Caller, My Ext.	Caller
Call Back	If "ON", an incoming Mobile Extension call will be released before answered and system places a call to Mobile Extension. After the Mobile answers, the dial tone is provided and the Mobile Extension can place internal or external calls.	OFF ON	OFF
Delay Timer	When the Mobile Extension requests a Call Back, the system will place the Call Back after expiration of this Delay timer.	0 ~ 255	0
Announcement	A system announcement can be recorded to provide the Mobile caller with a menu of dialing commands available to the remote Mobile user, remote control.	0-200	0
CO Group	The CO/IP Line group used to call (ring) the Mobile Extension is defined. eMG80/100:1~20, eMG800:1~200, UCP: 1~200	Refer to description	1
Telephone Number	The telephone number of the Mobile extension or Fail-over number of the station must be assigned for proper operation.		Not assigned
CLI Number	When the Mobile Telephone number and CLI do not match, the CLI entered here is used to authorize incoming calls from the Mobile.		Not assigned
Suffix DID table index to the CLI	An incoming DID call is passed to the Mobile Extension with the original caller's CLI and the Flexible DID Conversion Table index. (format: 'original CLI' + '*' + 'DID Table Index')	OFF/ON	OFF
Tel NumAs CLI Num	If this option is set to ON, Telephone Number is used the same as CLI Number. That means, when the mobile user calls to his station, if Telephone Number or CLI Number is matched with his mobile number, then the mobile user hears system dial tone, and calling to outside is available. If this option is set to OFF, only CLI Number is matched, system dial tone is served.	OFF/ON	ON

4.4.9.18 IPCR Agent Table - PGM 237

Selecting IPCR Agent Table will display the IPCR Agent data entry page. Select the Index and Agent ID Order range desired, blue text above the table header. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click **[Save]** button after changing Value.

Enter the Agent order: eMG80/100: 1-140 / eMG800: 1-1200 / UCP: 1-2400

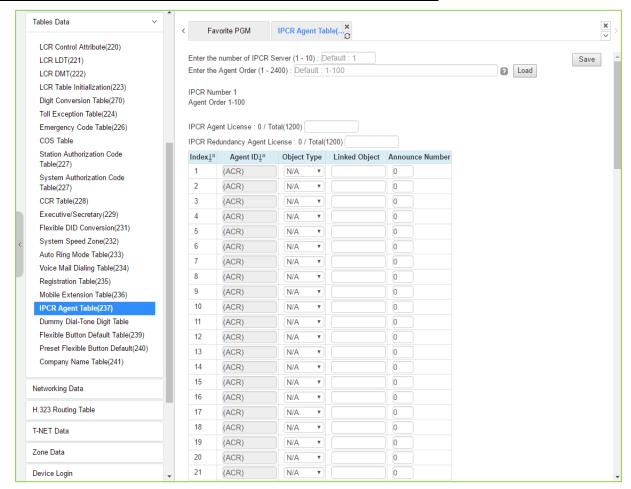


Figure 4.4.9.18-1 IPCR Agent Table

This table correlates an Object Type (Station or CO/IP Line) to the IPCR (Call Recording) Agent index in the IPCR server. The table is also employed with third-party servers for call recording. When a call is placed or received by the station or CO/IP Line, the call is recorded in the IPCR server under the Agent ID (Order number).

Multiple Announcement (1~9) in IPCR can be entered in 'Announce Number'.

4.4.9.19 Dummy Dial-Tone Digit Table

Selecting Dummy Dial-Tone Digit Table will display the Dummy Dial-Tone Digit data entry page. Click **[Save]** button after changing Value.

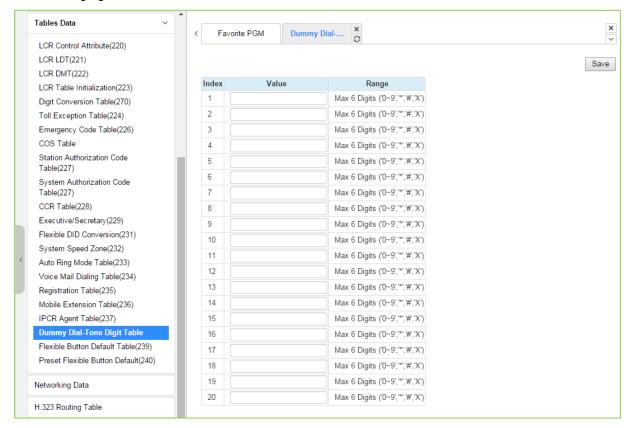


Figure 4.4.9.19-1 Dummy Dial-Tone Digit Table

When digit conversion is programmed, the CO line is seized after digit conversion is completed and therefore user cannot hear the CO dial tone from PX until completing digit conversion. For this case, a dummy dial tone can be programmed. Pressing one of pre-programmed digits ('0–9', '*', '#', X') will provide CO dial tone to the user regardless of CO line seizure.

4.4.9.20 Flexible Button Default Table- PGM 239

Selecting Flexible button defaulttable will display the below page. For convenience, the copy, paste, and drag are available to enter or modify data. Please click **[Save]** button to apply after changing Value.

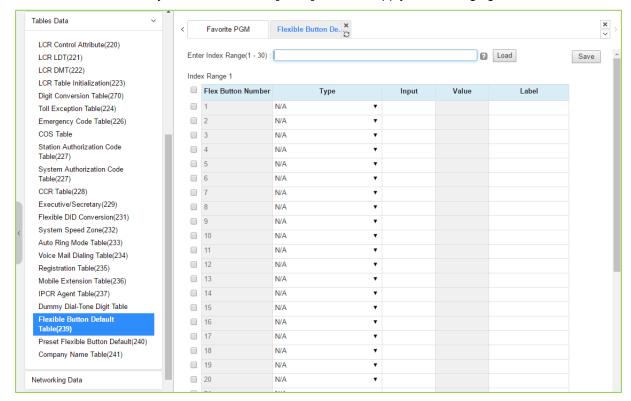


Figure 4.4.9.20-1 Flexible Button Default Table

The system provide 30 default flexible button table so administrator can be configured each table for using 'Preset Flexible Button Default (240)'. Administrator can assign the type among the below types on Flexible button.

Table 4.4.9.20-1 FLEX BUTTON TTPE		
TYPE	REMARK	
N/A	Empty (unassigned), may be defined by the user.	
CO Line	Assigns button to access a defined CO/IP line.	
CO Group	Assigns button to access a free line in the CO/IP Group.	
Loop	Assigns button to access a loop line.	
Station Number	Assigns button as DSS/BLF for the assigned station number.	
Programming	Assigns button to dial a code from the Flexible Numbering Plan, see Appendix	
(Numbering Plan)	section.	
Programming (PGM)	Assigns button to perform a User Program function from the Fixed Numbering Plan, Appendix section.	
Station Speed Bin	Station Speed Dial bin.	
System Speed Bin	System Speed Dial bin.	
Net Station Number	Refer to section Network Numbering Plan Table - PGM 324.	
U-Loop	U-Loop button for call wait of internal & external call.	
Dial Digit	Assign button for any dial digit.	

Table 4.4.9.20-1 FLEX BUTTON TYPE

4.4.9.21 Preset Flexible Button Default - PGM 240

Selecting Preset flexible button default will display the below page. Click [Save] button after changing Value.

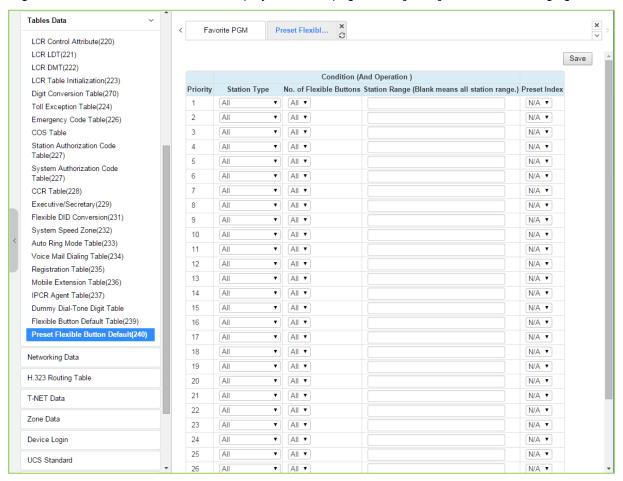


Figure 4.4.9.21-1 Preset Flexible Button Default

Administrator can assign Preset flexible button table to the station automatically by default. Before connecting the station, administrator has to set this table according to Priority, Station Type, the number of Button, Station Range, and check the preset Index (1~30). The preset index means the range of Flexible Button Default Table (PGM 239).

4.4.9.22 Company Name Table - PGM 241

Selecting Company Name Table will display the below page. Click **[Save]** button after changing Company name. (eMG80/100: 16, eMG800/UCP: 100)

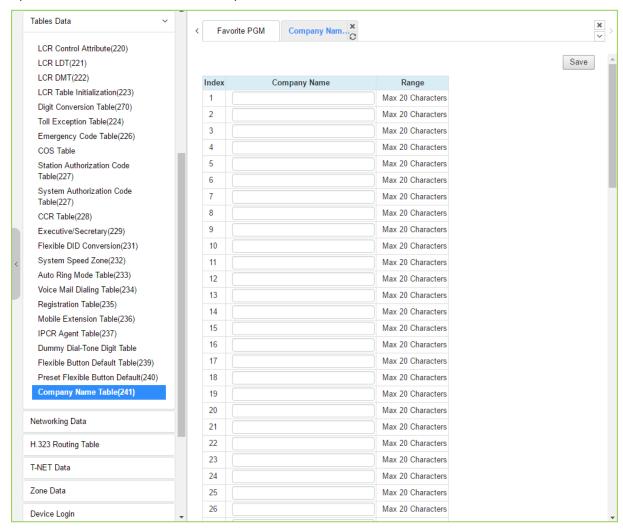


Figure 4.4.9.22-1 Company Name Table

4.4.10 Networking Data

Selecting the Networking Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

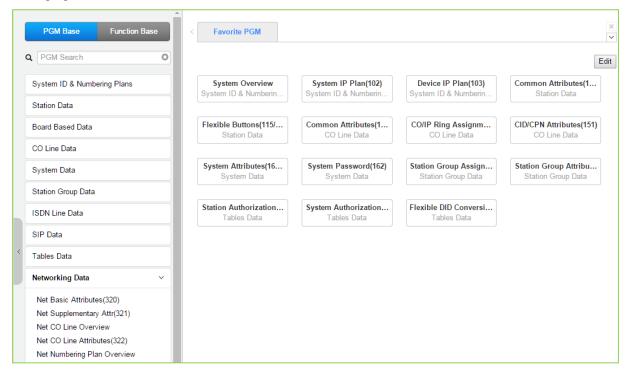


Figure 4.4.10-1 Networking Data

4.4.10.1 Network Basic Attributes - PGM 320

Selecting Network Basic Attributes will display the Network Basic Attributes entry page. Click **[Save]** button after changing Value.

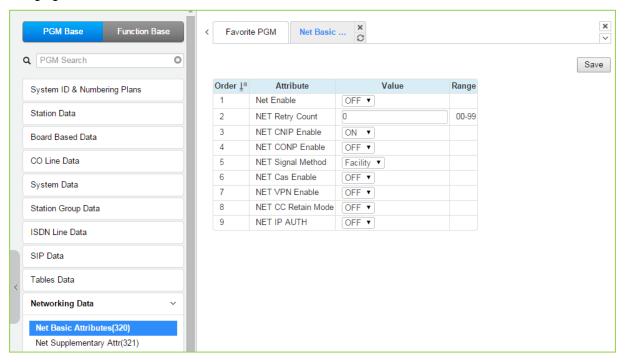


Figure 4.4.10.1-1 Network Basic Attributes

Table 4.4.10.1-1 NETWORK BASIC ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Not Englis	For operation, the Networking function must be enabled here.	OFF	OFF
Net Enable	Note a license is required.	ON	OFF
Net Retry Count	Not used.	00-99	0
Net CNIP Enable	The name of calling station is sent to the called iPECS UCP. CNIP	OFF	ON
Net CIVIP Ellable	is shown in the LCD of the called party's station.	ON	ON
Net CONP	The name of the connected station is sent to the calling iPECS	OFF	
Enable	system. The CONP is shown in the LCD of the calling party's	ON	OFF
Lilabic	station.	OIV	
Net Signal	Network signaling can be sent in the Facility or User QSIG	UUS/	Facility
Method	supplementary service message.	Facility	acility
Net Cas Enable	Not used.	OFF	OFF
Net Cas Enable	Not used.	ON	
Net VPN Enable	Not used.	OFF	OFF
Net VPN Enable	Not used.	ON	
Net CC Retain	This field defines the Network signaling retain mode for CCBS	OFF	OFF
Mode	service.	ON	OFF
Not ID Auth	For operation, the Networking function must be enabled here.	OFF	OFF
Net IP Auth.	Note a license is required.	ON	

4.4.10.2 Network Supplementary Attributes - PGM 321

Selecting Network Supplementary Attributes will display the Network Supplementary Attributes entry page. Click **[Save]** button after changing Value.

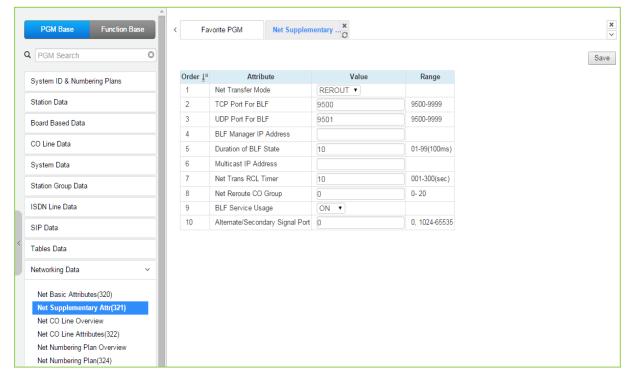


Figure 4.4.10.2-1 Network Supplementary Attributes

Table 4.4.10.2-1 NETWORK SUPPLEMENTARY ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Transfer Mode	Call Forward and Transfer over the network employs the selected Rerouting or Join method	REROUT/ JOIN	REROUT
TCP Port for BLF	The TCP/IP port for BLF message packets to BLF Manager is defined.	9500-9999	9500
UDP Port for BLF	The UDP port for BLF message packets to BLF Manager is defined.	9500-9999	9501
BLF Manager IP	The IP Address of BLF Manager server is required when iPECS UCP is configured with eMG systems in the Network.		0.0.0.0
Duration of BLF State	The system sends BLF messages to the BLF Manager at intervals of this timer.	01-99 (Sec.)	10
Multicast IP	The multicast IP address for BLF service.		0.0.0.0
Net Trans Recall timer	When a call forward or transfer does not receive a response for the Network system, the call recalls the transferring party at expiration of this timer.	001-300 (msec)	10
NET Reroute CO Group	If an outgoing SIP call receives no response after expiration of this timer, the call is rerouted to the alternate CO line. eMG80/100:0~20, eMG800:0~200, UCP:0~200	Refer to description	
BLF Service Usage	BLF Manager support must be enabled for use.	OFF, ON	ON

Table 4.4.10.2-1 NETWORK SUPPLEMENTARY ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	This signal port is used to add an alternate or secondary receiving		
	signal port. A default receiving signal port is TCP 1720 and an		
Alternate/Seco	additional signal port will be opened if this field is configured to valid	0,	
ndary signal	value. When the system is installed behind xDSL modem, the	1024-	0
port	problem of consecutive second call can happen by uncontrolled	65535	
	H.323 ALG function at xDSL modem. This field can be used to		
	solve the problem of consecutive second call.		

4.4.10.3 Net CO Line Overview

Selecting Net CO Line Overview will be displayed as below.

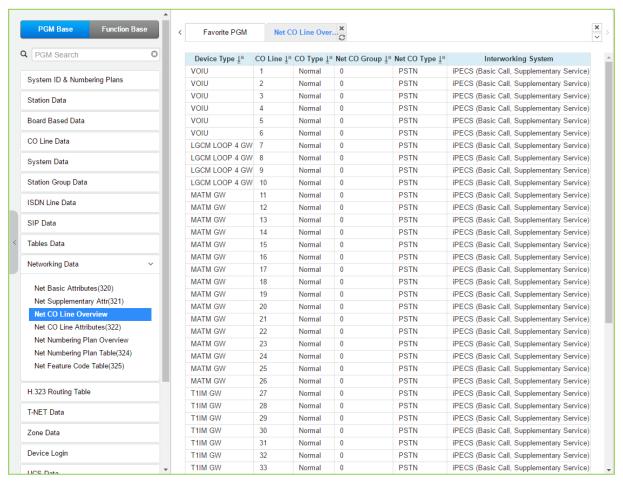


Figure 4.4.10.3-1 Network CO Line Overview

4.4.10.4 Network CO Line Attributes - PGM 322

Selecting Network CO Line Attributes will display the Network CO Line Group entry page. Enter a valid CO/IP Line range and click **[Load]** to enter the Network CO Line data.Click **[Save]** button after changing Value.

Enter CO Range: eMG80/100: 1-74 / eMG800: 1-600 / UCP: 1-998

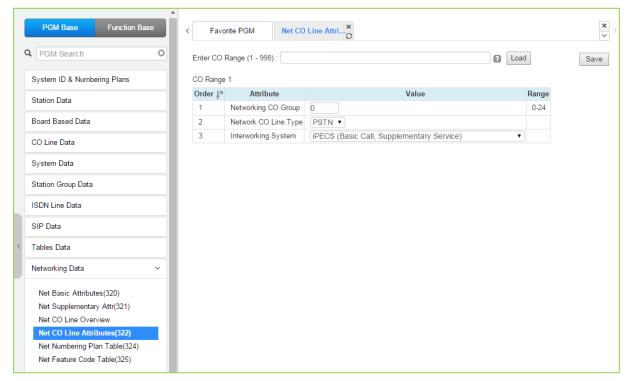


Figure 4.4.10.4-1 Network CO Line Attributes

Table 4.4.10.4-1 NETWORK CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Networking CO Group	The CO/IP Lines in the assigned group are employed as Network CO Lines, connecting to other systems in the network.	00-24	00
Network CO Line Type	The CO/IP Line is assigned for use by the network as a PSTN (carrier) or connection to the network.	NET/ PSTN	PSTN
Interworking System	Select Qsig interworking system among the below type. • iPECS (Basic call, Supplementary service) • Nortel (Basic call, Name service) • Panasonic (Basic call, Name service-Tunneled message) • Cisco (Basic call, Name service-Display IE) • Simens (Basic call, Name service) • Astra (Basic call)	Refer to description	iPECS (Basic call, Supplementary service)

4.4.10.5 Network Numbering Plan Table Overview

Selecting Network Numbering Plan Table Overview will be displayed as below.

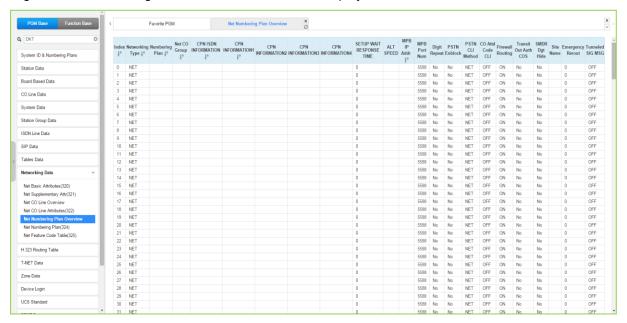


Figure 4.4.10.5-1 Network Numbering Plan Table overview

4.4.10.6 Network Numbering Plan - PGM 324

Selecting Network Numbering Plan Table will display the Network Numbering Plan Table data entry page. Enter a valid table index and click **[Load]** to enter the Network Numbering Plan data. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

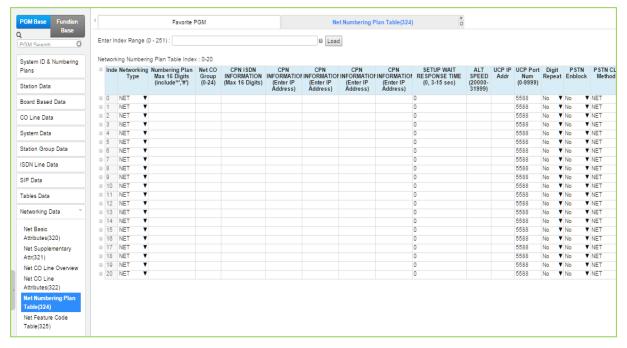


Figure 4.4.10.6-1 Network Numbering Plan Table

The Network Numbering Plan establishes the digit strings that make-up the numbering plan and associated routing for each Plan code.

Table 4.4.10.6-1 NETWORK NUMBERING PLAN TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Network Type	The type or use of the code is defined as directed to the PSTN (carrier) or a Networked system.	NET / PSTN	NET
Numbering Plan Code	This field defines the digits, 0 ~ 9 that make up a Network Numbering Plan code. An '*' will represent any digit. To assign the code for the stations in another system, enter the common station number digits followed by "#". Max. 16 digits(Include * and #)	Refer to description	
Networking CO Group	The Numbering Plan CO Group indicates the Network CO/IP Group that is used for the connection. A '00' entry is an internal net station number.	00-24	
CPN ISDN Information	When an ISDN Line is used to place a network call, the CPN ISDN Information and the network Number are used as the Called party number.	Max. 16 digits	
CPN Information	When a VoIP channel is used to place a network call, the CPN used is the IP address associated with the VoIP channel. 1: 00 CPN INFORMATION 01 2: 00 CPN INFORMATION 02 3: 00 CPN INFORMATION 03 4: 00 CPN INFORMATION 04	Enter IP address	
Setup Wait Response Time	Networking call-setup failure timer when there is no proceeding message from network (i.e. IP-Network is down)	0, 3~15 Sec.	0
ALT Speed Bin	Should the Network path fail, the system can place the call over an alternative path using a System Speed Dial number. eMG80/100:2000~4999, eMG800:2000~9999, UCP: 20000~31999	Refer to description	
MPB IP Address	This field is the IP Address of the destination system for the code		0.0.0.0
MPB Port	The TCP/IP port number of destination system for the Net Numbering Plan code is defined.	0000-9999	5588
Digit Repeat	When the number plan code, see above, is for PSTN call or transit-call, the number code can be included in SETUP message.	Yes No	No
PSTN Enblock	When a PSTN receives a Transit-out call from a networked user, the digits can be sent En-block (YES) or Over-lap (NO).	Yes No	No
PSTN CLI Method	The CLI sent with the call for this code can be set as the NET CLI (station number) or PSTN, which sends the CLI configured for the CO/IP Line and Station CLI.	NET PSTN	NET
CO Attendant Code CLI	When a networked system places a transit out call, the Centralized ATD CLI can be sent.	OFF ON	OFF
Firewall Routing	When the system can communicate with the networked system directly, over a common VPN, the systems Non Firewall address is sent in IP packets (OFF). Otherwise, the Firewall IP address is sent (ON).	OFF ON	ON

Table 4.4.10.6-1 NETWORK NUMBERING PLAN TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Transit Out W	When a user requests a transit-out call by seizing a CO line, COS	Yes	NI-
Auth COS m	nay be applied according to the authorization code.	No	No
SMDR Digit F	For a Transit-out call from the iPECS, the networked system that	Yes	No
Hide p	places the call may desire to receive the Authorization code	No	No
Cita nama	A twelve-character name can be assigned to the system for use	Max. 12	
Site name	vith network calls.	characters	
M	When a networked station places an Emergency call and the		
"E	Emergency CO or Group" in the Station Common Attributes is a		
Emergency T	Fransit-out CO/IP Line or group, the call will Fail-over to the "Fail-	0-10	00
reroute timer o	over CO Group" in PGM 133 or the "Net Reroute CO Group" in	(Sec.)	00
P	PGM 321 after this timer expires. The "Fail-over CO Group" will		
h	nave priority.		
Tunneled SIG S	Send and Receive H323 message that include ISDN QSIG	OFF	OFF
MSG m	nessage. It is used to make networking with Panasonic system.	ON	OFF
Т	This destination signal port is used on calling to remote network		
s	system. A default destination signal port is TCP 1720 but the port		
n	number is changed if this field is configured to valid value. When		
Alternate/Seco th	he system is installed behind xDSL modem, the problem of		
ndary signal co	consecutive second call can happen by uncontrolled H.323 ALG	0-65535	
port fu	unction at xDSL modem. This field can be used to solve the		
p	problem of consecutive second call. Here, the value should be an		
a	alternate or secondary receiving signal port which is configured at		
re	emote system.		
T T	These two fields are used when a remote network system want to	Max. 15	
Local route ID cl	check the route ID value to authenticate the system. Here, 'Local	characters	
Remote route R	Route ID' is the route ID string for local system. And 'Remote	Max. 15	
ID R	Route ID' is the route ID string for remote system.	characters	
В	Basically the calling party name is transferred in QSIG messages.		
Т	This field is an additional way to send the calling party name. In		
Sending Name se	some PBX systems, the Q.931 Display IE field is used to	Refer to	055
option tr	ransferring the calling party name and this value can be used as	description	OFF
a	an interoperating solution for displaying the calling party name.		
0	DFF, Display IE(CISCO)		
R	Redundancy IP address is used for Geographical redundancy in		
Redundancy IP ve	voice networking. If the called party system does not respond to	Enter IP	
address th	he SETUP message, the system try to make a call with	address	
R	Redundancy IP address		

4.4.10.7 Network Feature Code Table - PGM 325

Selecting Network Feature Code Table returns the data entry page. Click [Save] button after changing Value.

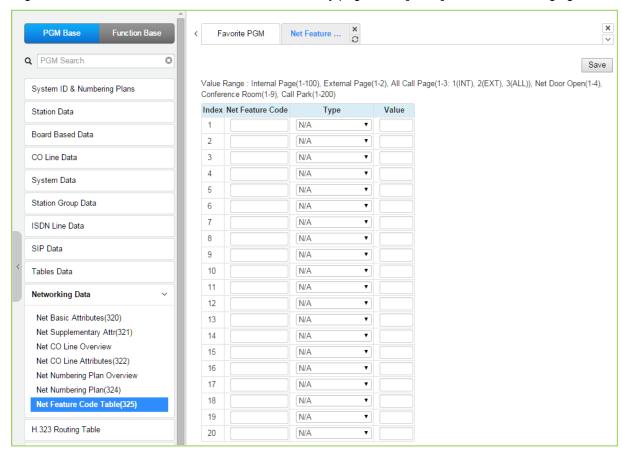


Figure 4.4.10.7-1 Network Feature Code Table

Table 4.4.10.7-1 NETWORK FEATURE CODE TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Feature	Digit coguence or code used to activate special Network Features	16 digite	None
Code	Digit sequence or code used to activate special Network Features.	ro digits	None
	Each Network Feature Code is assigned to activate a feature in		
Net Feature	the destination system.	Refer to	N/A
type	N/A, Internal Page, External Page, All Call Page, Net Door	description	IN/A
	Open, Conference Room, Call Park,		

eMG80/100 value range

Internal page: 1-35, External page (1), All Call page (1-3: 1(INT), 2(EXT), 3(ALL)), Net door Open (1-2), Conference Room (1-9), Call Park (1-19)

eMG80/100 value range

Internal page: 1-35, External page (1), All Call page (1-3: 1(INT), 2(EXT), 3(ALL)), Net door Open (1-4), Conference Room (1-9), Call Park (1-19)

eMG800value range

Internal page: 1-100, External page (1), All Call page (1-3: 1(INT), 2(EXT), 3(ALL)), Net door Open (1-2), Conference Room (1-9), Call Park (1-200)

4.4.11 H.323 Routing Table

Selecting the H.323 Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

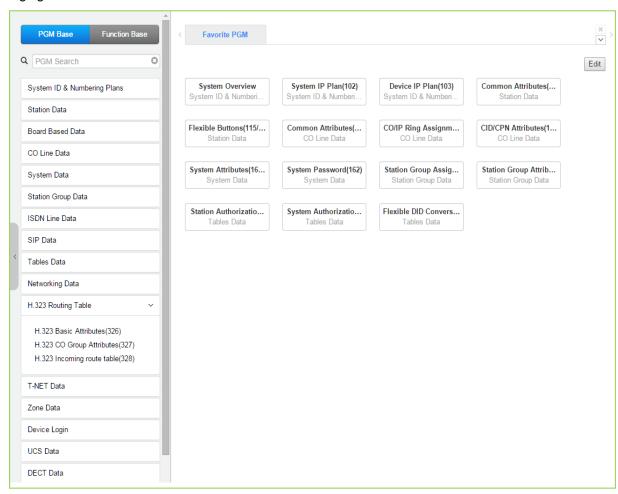


Figure 4.4.11-1 H.323 Routing Table Main Page

4.4.11.1 H.323 Basic Attributes -PGM 326

Selecting H.323 Basic Attributes will display the data entry page. Click [Save] button after changing Value.

Enter Device/GW slot sequence number: eMG80/100: 1-300 / eMG800: 1-2890 / UCP: 1-3688

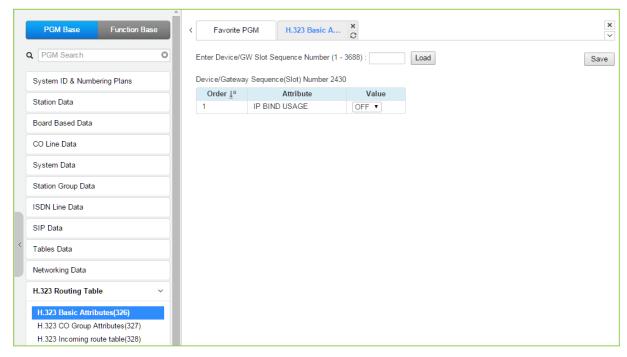


Figure 4.4.11.1-1 H.323 Basic Attributes

H.323 Signaling can be operated with each VOIB/VOIM or MPB/UCP.

Table 4.4.11.1-1 H.323 Basic Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
IP Band Usage	If it is set to ON, system allows H.323 signaling with system IP	OFF	OFF
IF Band Osage	address. Or, each VOIB/VOIM IP Address can be used.	ON	OFF

4.4.11.2 H.323 CO Group Attributes -PGM 327

Selecting H.323 CO Group Attributes will display the data entry page. Click [Save] button after changing Value.

Enter Group number: eMG80/100: 1-20 / eMG800: 1-200 / UCP: 1-200

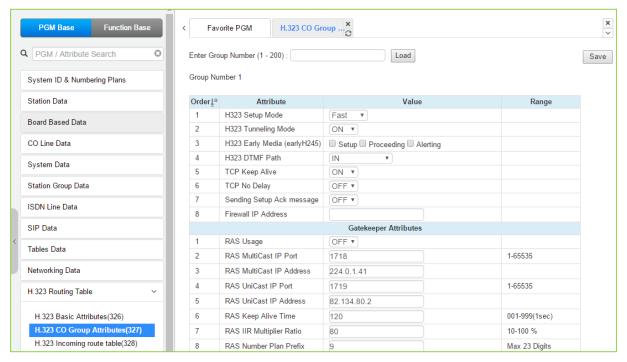


Figure 4.4.11.2-1 H.323 CO Group Attributes

The VOIP channels are used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned.

The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established. Also for H.323 support, a RAS (Registration, Admissions and Status) channel can be defined. The RAS channel IP addresses (uni-cast and multi-cast) as well as the IP port Numbering Plan and other H.323 set-up characteristics are defined.

Table 4.4.11.2-111.323 GO Group Attributes			
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
H.323 Setup mode	H.323 IP calls can be set-up using the H.323 normal or Fast Start mode.	Fast Norm	Fast
H.323 Tunneling mode	H.323 IP calls can be set-up using the H.245 encapsulation (Tunneling).	OFF ON	ON
H323 Early Media (early H245)	 This feature is the ability of two user endpoints to communicate before call is actually established in normal call mode. This feature is not used when 'H323 Setup Mode' is 'Fast'. Setup: Caller party tries to open early media on receiving the Setup message. Proceeding: Calling party tries to open early media on receiving the Proceeding message. Alerting: Calling party tries to open early media on receiving the Alerting message. 	Refer to description	

Table 4.4.11.2-1 H.323 CO Group Attributes

Table 4.4.11.2-1 H.323 CO Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
H.323 DTMF Path	During a connection, DTMF Digits can be sent in-band or out of band (H.245). IN, RFC2833, H245_ALNUM, H225_SIG, H245_SIG	Refer to description	IN
TCP Keep Alive	The system will send a polling message every 75 seconds to assure the status of the TCP connection.	OFF ON	ON
TCP No Delay	Normally small chunks of TCP (H323) messages are combined into one packet and be sent to remote party to improve the efficiency of network. Sometimes this action yields the H323 signaling problem when system is behind NAT router and there is H323 ALG is running. 'OFF' value can be a solution to overcome the problem.	OFF ON	OFF
Sending Setup Ack message	System provides SETUP ACK message when there is no sending complete IE in SETUP message.	OFF ON	OFF
Firewall IP Address	Enter the firewall IP Address.		
	Gatekeeper Attributes		
RAS Usage	Determine whether VOIU/VOIB/VOIM will be used as a Gatekeeper.	OFF ON	OFF
RAS MultiCast IP Port	Multi-cast IP Port for RAS Information of Gatekeeper.	1~65535	1718
RAS MultiCast IP Address	Multi-cast IP address for RAS Information of Gatekeeper.	IP Address	224.0.1.41
RAS UniCast IP Port	Uni-cast IP Port for RAS Information of Gatekeeper.	1~65535	1719
RAS UniCast IP Address	Uni-cast IP address for RAS Information of Gatekeeper.	IP Address	82.134.80.2
RAS Keep Alive Time	The time between exchange of RAS Information between GK and VOIB/VOIU.	001-999 (SEC)	120
RAS IIR Multiplier Ratio	This feature is used when H323 call is routed by RAS gatekeeper. Keep alive interval time between the system and gatekeeper is provided by gatekeeper on registration time. This value of ratio is used to change the keep alive interval time from gatekeeper.	10~100%	80
RAS Number Plan Prefix	The numbering plan for Calling Number in RAS Setup.	Max. 23 digits	
RAS Light RRQ usage	The Gatekeeper ID (This can be programmed only via WEB Admin).	OFF ON	OFF
RAS Gateway ID	The system can be assigned to use the simple RRQ (Registration Request) message (ON) or the full RRQ message (OFF).	Max. 128 characters	
Fail over Usage	The H.323 call will be failover to another line (FAIL OVER USAGE: ON).	OFF ON	OFF
Call Setup No Response time	The H.323 call will be failover. The time will be set.	0, 3-15 (Sec.)	0

Table 4.4.11.2-1 H.323 CO Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Fail over CO Group	If the H.323 call will be failover, assign another CO group.	Refer to	
number	eMG80/100:1-20, eMG800:1-200, UCP:1-200	description	

4.4.11.3 H.323 Incoming Route table -PGM 328

Selecting H.323 Incoming Route tablewill display the data entry page. Click **[Save]** button after changing Value.

Enter CO Group number: eMG80/100 : 1-20 / eMG800: 1-200 / UCP: 1-200

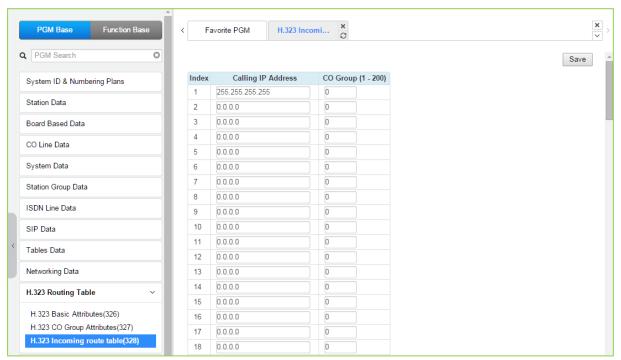


Figure 4.4.11.3-1 H.323 Incoming Route table

To get the direct H.323, the From IP-Address and 'incoming CO Group number' to be routed shouldbe assigned.

Table 4.4.11.3-1 H.323 Incoming Route table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Calling IP Address	IP address associated with H.323 incoming calls.		
	255.255.255.255 is used when external call cones from		0.0.0.0
	unknown IP Address which is not listed in this table entry.		
CO Group	CO group number associated with H.323 incoming calls.	Refer to	0
	eMG80/100:1~20, eMG800:1~200, UCP:1~200	description	U

4.4.12 T-NET Data

Selecting the T-NET Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

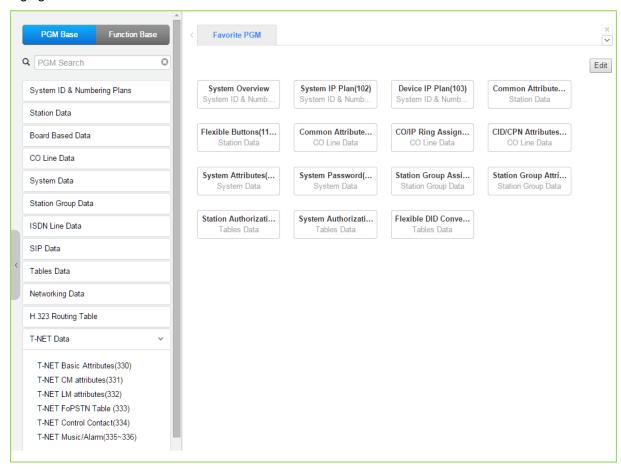


Figure 4.4.12-1 T-NET Data Main Page

In a Centralized Control T-NET (Transparent Network), remote devices may be registered to a Central iPECS system(CM) and to a Local iPECS system (LM). In this way, the CM maintains control of the remote device. Should the WAN connection between an LM and CM fail (polling error), the LM will initiate operational control of the locally registered devices. Calls between the systems (CM and LM) can automatically shift to PSTN Modules registered with the LM for Fail-over operation. The configuration and characteristics of LMs and CM are configurable as is Fail-over operation.

4.4.12.1 T-NET Basic Attributes -PGM 330

Selecting T-Net Basic Attributes will display the data entry page. Click [Save] button after changing Value.

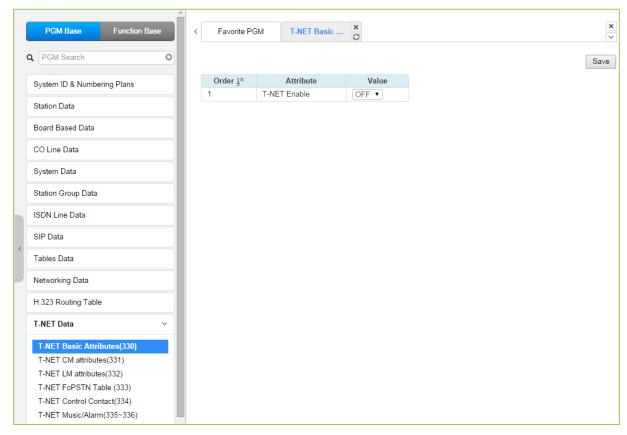


Figure 4.4.12.1-1 Zone number overview

Each iPECS system in a Central Control network environment must be enabled for T-NET operation in order to function as part of the network.

4.4.12.2 T-NET CM Attributes -PGM 331

Selecting T-Net CM Attributes will display the data entry page. Click [Save] button after changing Value.



Figure 4.4.12.2-1 T-NET CM Attributes

Each LM (Local iPECS system), which is part of a Central Control Network, must be defined with the IP Address of the CM (Central iPECS system). The LM configuration data is sent to the CM at the time the LM registers with the CM. Total port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM must be equal to or less than the ports defined in the CM for the LM, see PGM 332, in order to register properly.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Register Enable	This field informs the LM to attempt registration with the CM. This field must be set to ON for proper registration.	OFF ON	OFF
CM server type	Assign the type of CM server; iPECS eMG/UCP or iPECS CM.	eMG/UCP, CM	eMG/UCP
IP Address	This field defines the IP address of the CM that will be used by the LM.	IPv4 address	
IPKTS Port number	In the TNET environment, the IPKTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0001-9999	5588
Total number of port	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or less than the port count in the CM for the LM devices.	0000-9999	0
Polling Count	This field defines the maximum polling failures an LM considers a WAN fault.	00-99	5
Polling interval	This field defines the interval time between LM to CM polling attempts.	00-99	2
Zone Number	Zone number can be assigned to Device or GW.	1-32	
Register LM device directly	This option enables LM (Local system) device to register CM (Central system) directly without T-NET by setting ON.	OFF ON	OFF

4.4.12.3 T-NET LM Attributes -PGM 332

Selecting T-Net LM Attributes will display as below. Click [Save] button after changing Value.

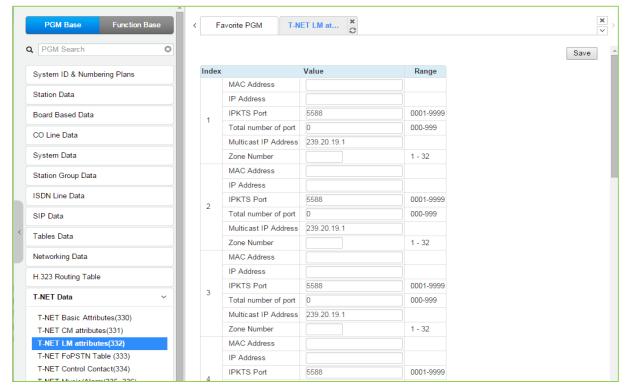


Figure 4.4.12.3-1 T-NET LM Attributes

The CM (Central iPECS system) must be programmed with the MAC and IP address of each LM (Local iPECS system) in the Centralized Control network as well as the maximum configuration of each LM. Up to 100 Local iPECS system(LMs) may be defined and configuration entered.

The port counts define the ports that are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database for each LM in PGM 331, must be equal to or less than the ports defined in the CM for the LM, in order to register properly.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
NA - A A I I - A - A	This field defines the MAC address of the LM that will be part of the	MAC	
Mac Address	T-NET environment and is used by the CM for authorization.	address	
IP Address	This field is the IP address of the LM.	IPv4 address	
	In the T-NET environment, the IP KTS protocol signaling UDP port		
IPKTS Port	is defined. At present this field is not used, do not change this port	0001-9999	5588
	number.		
Total no of	This field defines the total number of ports the LM will request from		
port	the CM for devices attached to the LM. This value must be equal to	000-999	0
port	or more than the port count defined in the LM.		
Multicast IP	This field defines the multicast IP address that could be used in T-	IPv4 address	
address	NET branch site.	ir v4 addiess	
Zone number	Zone number can be assigned to Device or GW.	1-32	

Table 4.4.12.3-1 T-NET LM ATTRIBUTES

4.4.12.4 T-NET FoPSTN table -PGM 333

Selecting T-NET FoPSTN Table will display the data entry page. Enter an index range then click **[Load]** to modify the data.Click **[Save]** button after changing Value.

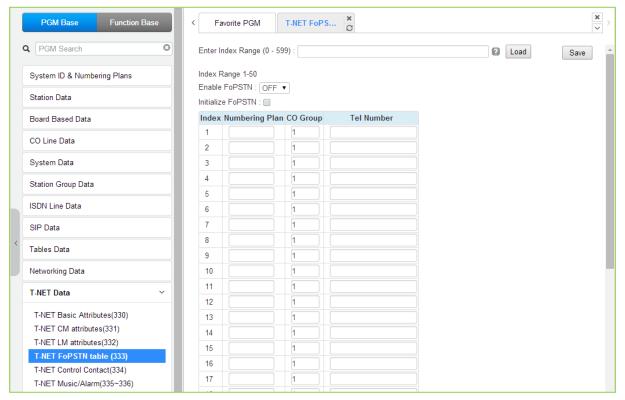


Figure 4.4.12.4-1 T-NET FoPSTN table

The Fail-over function allows the systems in T-NET environment to complete calls between systems over a PSTN (analog or digital) line should the WAN connection to the CM fail. A CO gateway Module must be registered to the LM for local CO services. Users may call others in the normal manner and the call is routed over CO facilities to the remote CM. When calls are directed to a DID line at the receiving system, the system will select a line from the assigned CO Group and dial the Tel Number with the station number dialed as the trailing digits.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Numbering Plan	Station numbers associated with the remote system. A range can be indicated by using "*" to indicate the range. Example: 21* covers 210 to 219 or 2100 to 2199.	Station number	
CO Group	This field defines the CO Group of the local system that will be used to place calls to the stations entered in the Fail Over Numbering Plan above, should WAN failure occur. eMG80/100:1~20, eMG800:1~200, UCP:1~200	Refer to description	
Tel Number	This field defines the telephone number the system should dial to place a call to the stations entered in the FO Numbering Plan, should WAN failure occur. An "*" may be entered as a wild card to indicate insertion of the dialed station number.	24 digits	

Table 4.4.12.4-1 Fail Over to PSTN ATTRIBUTES

4.4.12.5 T-NET Control Contact -PGM 334

Selecting T-NET Control Contact will display the data entry page. Enter the T-NET range from the T-Net LM Attributes then click **[Load]** to modify the data.Click **[Save]** button after changing Value.

Enter T-NET Range: eMG80/100: 1-15 / eMG800: 1-32 / UCP: 1-100

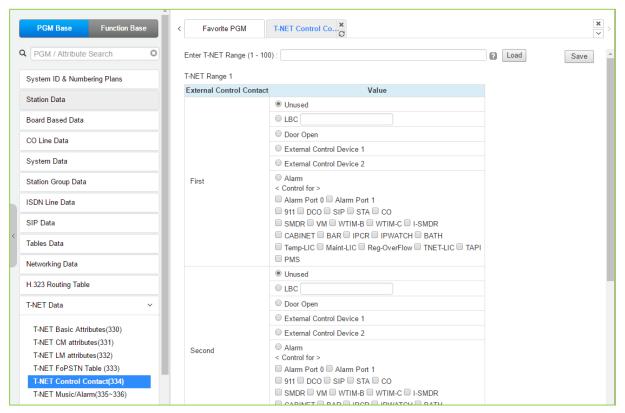


Figure 4.4.12.5-1 T-NET Control Contact

Each LM incorporates relay contacts that can be employed as a Door Lock Release. The contact activates a third party Door Lock Release mechanism activated by dialing the Door Unlock code at a local station. In case of selecting Alarm, you can choose the desired alarm types for association.

4.4.12.6 T-NET Music/Alarm -PGM 335 ~ 336

Selecting T-NET Music/Alarm will display the data entry page. Enter the T-NET range from the T-Net LM Attributes then click **[Load]** to modify the data.Click **[Save]** button after changing Value.

Enter T-NET Range: eMG80/100: 1-15 / eMG800: 1-32 / UCP: 1-100

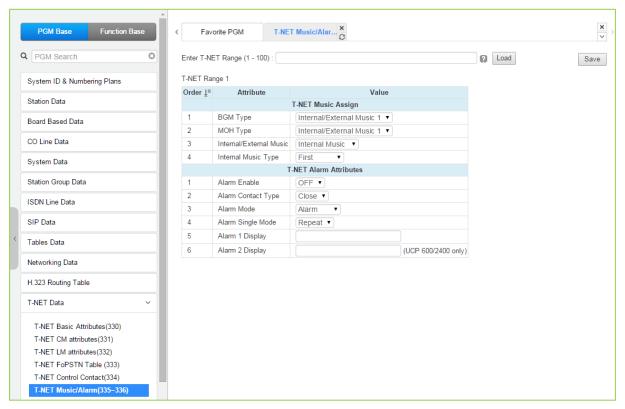


Figure 4.4.12.6-1 T-NET Music/Alarm

To minimize WAN traffic, the CM does not provide BGM/MOH to an LM. The LM employs local BGM and MOH facilities to reduce traffic load on the WAN and IP channel processors. The LM uses IP Multicast for local BGM and MOH transport. In addition, the Alarm contacts of the LM can be defined for use as a local alarm or doorbell.

When alarm port 1 of the LM is activated, the string of {Alarm 1 Display} is displayed in assigned stations.

When alarm port 2 of the LM is activated, the string of {Alarm 2 Display} is displayed in assigned stations(if LM is UCP600/2400).

4.4.12.7 T-NET ISDN Clock Priority for eMG800 -PGM 337

Selecting T-NET ISDN Clock priority will display the data entry page. Enter the T-NET range from the T-Net LM Attributes then click **[Load]** to modify the data.Click **[Save]** button after changing Value.

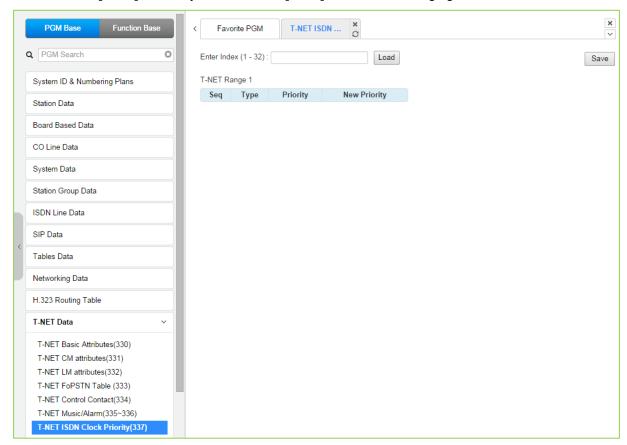


Figure 4.4.12.7-1 T-NET ISDN Clock Priority

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Priority	ISDN clock priority in a TNET site.	1-18	

4.4.13 Zone Data

Selecting the Zone Data program group returns the sub-menu displayed.

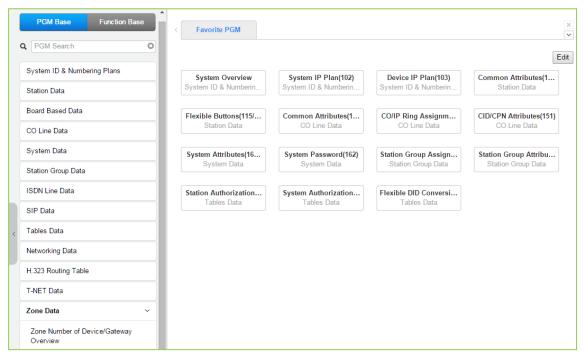


Figure 4.4.13-1 Zone Data Main Page

4.4.13.1 Zone Number Overview

Selecting Zone Number Overview returns the data entry page.

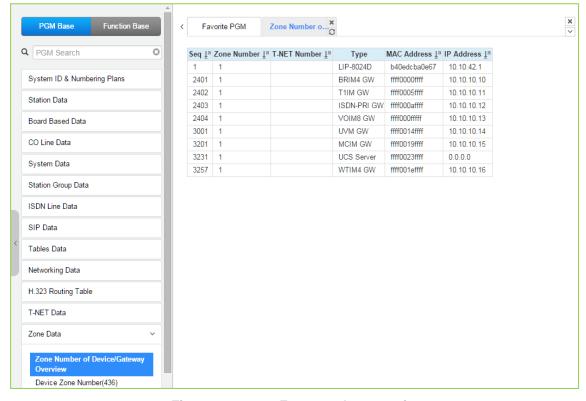


Figure 4.4.13.1-1 Zone number overview

Zone data is a tool employed to easily manage the characteristics of groups of devices under the control of an MPB/UCP. Such devices can be grouped to a Zone to define common characteristics including Country Code, DSCP, RTP packet handling, etc. Common attributes are defined at the device, Zone and Inter-zone level. Device settings have priority over system and Zone settings, while Zone settings have priority over system settings.

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If iPECS devices are separated by a NAPT server or direct peer-to-peer communications is not available, packet relay must be employed to assure communication. In packet relay, RTP packets are received by a local VoIP channel, which is under control of the MPB/UCP, and the IP address is translated from a public to the device's private address. The VoIP channel implements a secure channel using IPSec protocol. Devices can be assigned as part of an "RTP Relay group" to use the same VoIP channels to implement relay of RTP packets. Packet relay groups also provide for conversion of multi-cast packets from the MPB/UCP to uni-cast and back again at the group level to multi-cast. Note packet relay requires a VoIP channel be available locally for each simultaneous call that requires packet relay.

4.4.13.2 Device Zone Number - PGM 436

Selecting the Device Zone Number returns the Zone Number data input page. Enter the Sequence number range (refer to section 4.4.1.4System & Device IP Address Plan - PGM 102 & 103) and click **[Load]**to assign a Zone number for the device.Click **[Save]** button after changing Value.

Enter Device/GW sequence Range: eMG80/100: 1-300 / eMG800: 1-2890 / UCP: 1-3688

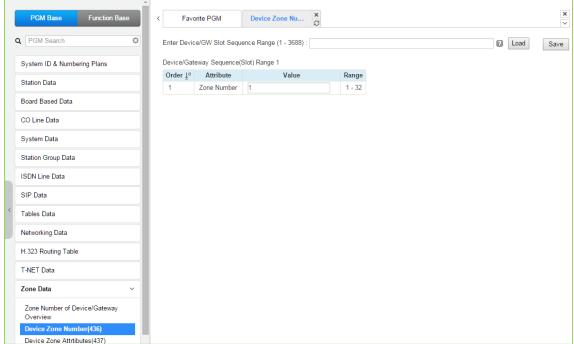


Figure 4.4.13.2-1 Device Zone Number

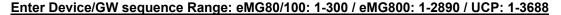
Device Zone Number assigns a device to one of up to 32 specific Zones.

Table 4.4.13.2-1 DEVICE ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Zone number	Zone number can be assigned to Device or GW.	1-32	1

4.4.13.3 Device Zone Attributes – PGM 437

Selecting the Device Zone Attributes returns the Device Zone Attributes data input page. Enter the Sequence number Range (refer to section 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103) and click **[Load]**to assign a Zone number for the device.Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.



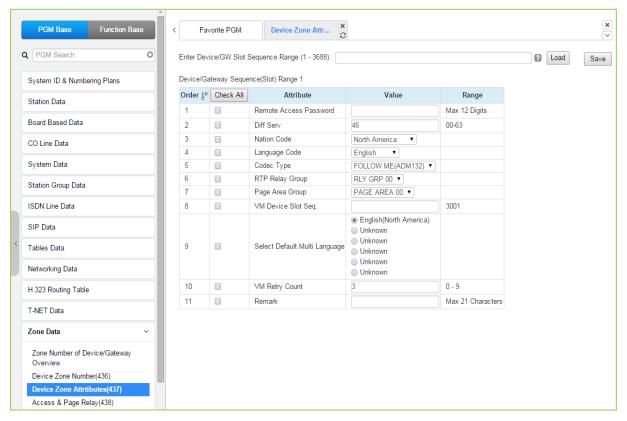


Figure 4.4.13.3-1 Device Zone Attributes

Device Zone Attributes define characteristics specific to the device including the registration password, DiffServ Code Point, Nation, etc. In addition, Zone characteristics set at the Device level take precedence over characteristics for the Zone Attributes. While a Zone may incorporate up to 15 different RTP packet Relay Groups, for clarity a single RTP Relay Group should be used within a Zone.

Table 4.4.13.3-1 DEVICE ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Remote Access	Registration password assigned in device for Remote stand-	Max. 12	None
Password	alone device only	digits	None
Diff Serv	MPB assigned code point will take precedence. Applies to all devices	0-63	4
Country Code	Country location of the device. Available selections are given in Country code table.	Country Code	Nation dependent
Language Code	Each device can be assigned a local language or English as the	Language	Nation
	LCD Display Language.	Code	dependent

Table 4.4.13.3-1 DEVICE ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Codec Type	The codec selection method can be defined as device based, see PGM 132, or based on the codec type assigned to the Zone. Follow Zone, Follow Me (ADM132)	Refer to description	Follow Me (ADM132)
RTP Relay Group	This attribute defines the RTP Relay group employed by the device, 00-no relay. Zone parameters define the VoIP device to employ.	00-15	00 (no relay)
Page Area Group	The Paging Area Group identity is employed to determine when multicast to unicast conversion is needed to relay paging data across the network using a VoIP channel of a VOIU/VOIM or Paging Agent (VoIP channel of an iPECS LIP Phone). 00: same paging relay area	00-15	00
VM Device Slot Sequence. (VMIU/VMIBSlot Sequence)	The VSF gateway used to support Voice Mail for a device is defined. The VSF/UVM must be under control of the same eMG/UCP as the device. eMG80/100: Max. 3 Digits, eMG800/UCP: Max. 4Digits	Refer to description	
Select Default Multi Language	The recorded language selection prompt is played to the user when accessing the built-in AA/VM. The system supports up to six languages.	1 ~ 6	1
VM Retry Count	The user may select an available language. If the language is unavailable, the user may attempt to enter a valid language type based on this retry counter. If the user cannot enter a valid language, the announcement is provided in the default language.	0-9	3
Remark	Descriptive information to help installer/programmer in identifying the device Zone, i.e. Branch1.	Max. 21 characters	

4.4.13.4 Access & Page Relay - PGM 438

Selecting Access & Page Relay returns the Access & Page RTP packet relay data input page. Enter the Sequence number Range (refer to section 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103) and click **[Load]**to define packet relay characteristics for Paging between Zones.Click **[Save]** button after changing Value.

Enter Device/GW sequence Range: eMG80/100: 1-300 / eMG800: 1-2890 / UCP: 1-3688

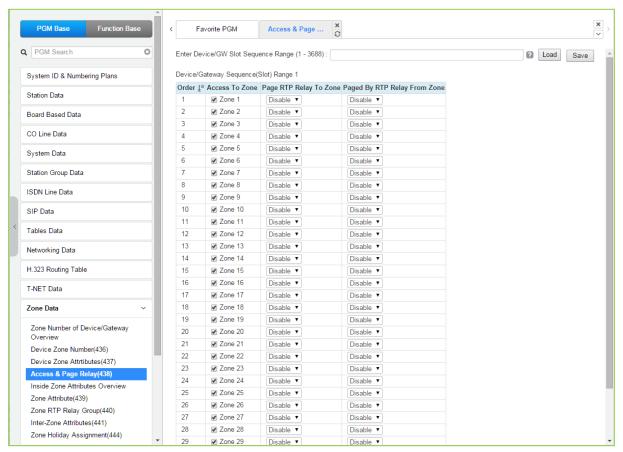


Figure 4.4.13.4-1 Zone Page RTP Packet Relay

iPECS protocol employs multi-cast to send of RTP packets to multiple devices at one time. This improves efficiency and lowers traffic by sending a single multi-cast packet to multi-cast group members. In particular, paging employs this multi-cast technique.

However, since multi-cast is not commonly supported outside of the LAN, uni-cast must be used to transport such signals between routers. At the receiving Zone, a local VoIP channel receives the uni-cast signal from the controlling MPB. The VoIP channel then converts the packet address to a multi-cast signal for delivery to devices in the same Zone RTP Relay Group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Page RTP Relay	The device can be configured to relay RTP packets for	Disable	Disable
to Zone	paging to other zone members, Paging Rely.	Enable	Disable
Page By RTP	The device can be configured to receive relayed packets	Disable	Diaghla
Relay From Zone	from the assigned Zones(s).	Enable	Disable

Table 4.4.13.4-1 Zone Page RTP Packet Relay

4.4.13.5 Inside Zone Attributes Overview

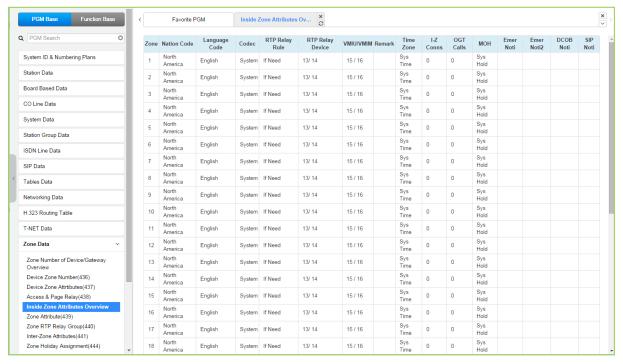


Figure 4.4.13.5-1 Zone Attributes Overview

4.4.13.6 Zone Attribute – PGM 439

Selecting the Zone Attributes returns the Zone Attributes data input page. Enter the desired Zone number range and click **[Load]**to assign Zone characteristics. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

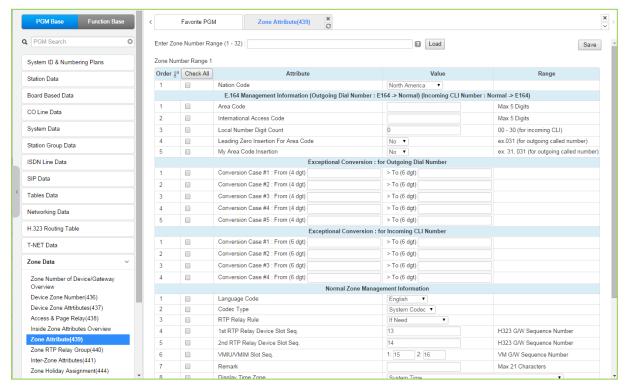


Figure 4.4.13.6-1 Zone Attributes

The nation code, codec and VMIU/VMIB assigned for a Zone will be employed by all devices in the Zone unless a different entry is made in Device Zone data. If the Device Zone data is default or assigned by the MPB, the Zone data will take precedence.

The Zone Attributes define when and which VoIP channels to use for RTP packet relay. Local VoIP channels are assigned to perform the packet relay function and the use can be defined as "if needed" or use the assigned RTP Relay Group. For "if Need", the MPB will employ the IP KTS STUN protocol to determine when packet relay is required. If assigned "RTP Relay Group", packet relay will always be employed for RTP packet receipt.

145.5				
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Nation Code	Nation code of devices in the zone. Available selections are given in Country code table.	Country code		
E.164 Management Information				
(Outgoi	ng Dial Number : E164-> Normal) (Incoming CLI Number:	Normal ->164)		
Area Code	Assign area code that is use to convert CLI format (normal <-> E.164)	Max 5 Digits		
International Access Code	Assign international access code that is use to convert CLI format (normal <-> E.164)	Max 5 Digits		

Table 4.4.13.6-1 ZONE ATTRIBUTES

Table 4.4.13.6-1 ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Local Number Digit Count	CLI length is over this count then it is long distance call otherwise it is local call. (it is for incoming CLI)	00-30	0
Leading Zero Insertion for Area code	For an outgoing call, the system can insert a zero ('0') in front of area code.	No Yes	No
My Area Code Insertion	For an outgoing call, the system can insert my area code in the CLI.	No Yes	No
	Exceptional Conversion : for Outgoing Dial Number	r	
Conversion Case #1	The first digits, up to four (4), dialed by the user can be		
Conversion Case #2	converted to a digit string of up to six (6) digits and may	From	
Conversion Case #3	include a plus (+) sign. For example if the "From" digits are	(4-digits)	
Conversion Case #4	00 and the "To" digits are +820, if the user dials	To (6-digits)	
Conversion Case #5	002233432, the system converts the number to +820	i e (e aigile)	
Conversion case #3			
O	Exceptional Conversion : for Incoming CLI Number		
Conversion Case #1	The first digits, up to four (4), received as the CLI can be converted to a digit string of up to six (6) digits and may		
Conversion Case #2	include a plus (+) sign. For example if the "From" digits are	From	
Conversion Case #3	00 and the "To" digits are +820, if the user dials	(4-digits)	
Conversion Case #4	002233432, the system converts the number to +820 2233432.	To (6-digits)	
	Normal Zone Management Information		
		Language	Nation
Language Code	Language code of devices in the zone.	Code	dependent
Cadaa Tura	Assigns the codec employed by devices in the Zone.	Refer to	System
Codec Type	System codec, G.711, G.723.1, G.729, G.722	description	codec
	Assigns when to use the packet relay function, with "If		
	Need" the MPB will automatically determines when to use	Refer to	
RTP Relay Rule	packet relay, while "RTP Relay Group" will always	description	If need
	implement packet relay for RTP packets.	description	
	If need, Relay Group, Forced to Relay		
1st RTP Relay	Assigns the local VOIU or VOIB IP channels that will be	Sequence	Refer to
Device Slot Seq.	used to implement packet relay for devices in the Zone.	Number	description
	eMG80/100:13, eMG800:19		
2nd RTP Relay	Back-up VoIP channels for RTP packet relay use in the	Sequence	Refer to
Device Slot Seq.	Zone.	Number	description
	eMG80/100:14, eMG800:NA		
VM Device Slot Sequence (VMIU/VMIB Slot Sequence)	Assigns the UVMU/UVM/VMIU/VMIB used to support Voice		
	Mail for devices in the Zone. The UVMU/UVM/VMIU/VMIB	Sequence	Refer to
	must be under control of the same MPB/UCP as the device	'	description
	being assigned.		
	eMG80/100: 2 (1:15/2:16), eMG800: 3		

Table 4.4.13.6-1 ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Remark	Descriptive information to help installer/programmer in	Max. 21	
INCHIAIN	identifying the device Zone, i.e. Branch1.	characters	
	The time & date displayed at the station are based on the	Refer to	System
Display time zone	time zone selected or the system time	description	time
	Time zone, System time	description	ume
	This parameter may be used to limit the number of		
May Total Inter	maximum Inter Zone connections. When this value is set to	Defer to	
Max Total Inter	0, there is no limit on the total Inter Zone connections.	Refer to	0
Zone Connections	eMG80/100:0-140, eMG800: 0-1200, UCP: 0-2400 (0: No	description	
	limit)		
	This field may be used to limit the number of outgoing		
Max Outgoing CO	CO/IP calls from the Zone. When this value is set to 0,	Refer to	
Calls	there is no limit on the number of outgoing CO/IP calls.	description	0
	eMG80/100:0-74, eMG800: 0-600, UCP: 0-998 (0: No limit)		
	A Music source can be assigned so that calls to this zone.	Defente	Defeate
Zone MOH Assign	Refer to Sys Hold,Internal music, External Music,	Refer to	Refer to
	VSFMOH,SLT MOH1~5,VSF MOH2~30	description	Sys Hold
Emergency Call	Assigns the destination station for Emergency Call	Station	
Notify Station	Notification.	number	
Emergency Call	This field assigns a secondary station to receive notification	Station	
Notify 2nd Station	of an Emergency call from a device in the Zone.	number	
DCOB Fault Notify	This field assigns the station to receive notification of a	Station	
Station	DCOB (Digital CO Board) fault.	number	
SIP Registration	This field assigns the station to receive notification of a SIP	Station	
Fault Notify Station	Trunk registration fault.	number	
	If option is "System DST mode", the zone will follow the		
Daylight Saving	system DST mode(System Date&Time(178)).If option is	Refer to	System
Usage	"OFF", the zone will not apply the Daylight Saving Time.	description	DST mode
	System DST mode, OFF		

4.4.13.7 Zone RTP Relay Group - PGM 440

Selecting the Zone RTP Relay Group returns the RTP Relay ON/OFF data input page. Enter the desired Zone and Group numbers and click **[Load]**button to assign Zone characteristics.Click **[Save]** button after changing Value.

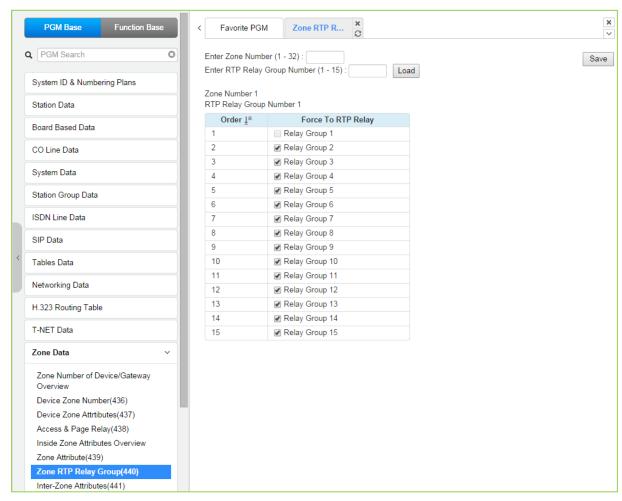


Figure 4.4.13.7-1 Zone RTP Packet Relay Groups

While it is strongly recommended that a Zone only have a single RTP Relay Group, up to 15 Groups can be assigned to a Zone. Devices in an RTP Relay Group should have common requirements for packet relay use. In some situations, it may be necessary to implement packet relay to groups in a Zone. Note that when "if Need" is assigned as the RTP Relay Rule in the Zone Attributes, assignments here are ignored.

4.4.13.8 Inter Zone Attribute - PGM 441

Selecting the Inter Zone Attribute returns the data input page. Enter the desired Source and Destination Zone number range and click **[Load]**to assign Zone characteristics.Click **[Save]** button after changing Value.

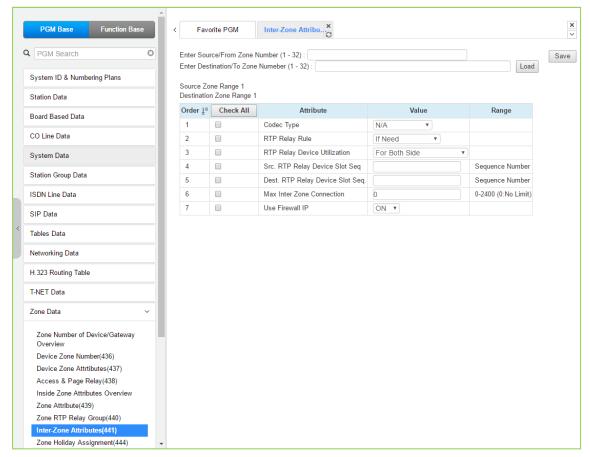


Figure 4.4.13.8-1 Inter-Zone Attributes

Inter Zone Attributes define RTP packet relay treatment for communications between devices in different Zones.

Table 4.4.13.8-1 INTER-ZONE ATTRIBUTES			
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Codec Type	Assigns the codec employed by devices in the Zone. System Codec, G.711, G.723.1, G.729, G.722	Refer to description	NA
RTP Relay Rule	Assigns when to use the packet relay function between Zones, with "If Need" the MPB will automatically determine when to use packet relay, while "RTP Relay Group" will always implement packet relay for RTP packets between the Zones. If need, Always not, Forced to do	Refer to description	If need
RTP Relay Device Utilization	Assigns how to employ the Source and Destination VoIP channels. The assigned Source channels may be used for both sides of the communication or separately only for a device in the Source Zone. The Destination channels are then used as back-up channels or only for devices in the Destination Zone. For Both Side, Separated(SRC to DEST)	Refer to description	For Both side

Table 4.4.13.8-1 INTER-ZONE ATTRIBUTES

Table 4.4.13.8-1 INTER-ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Src RTP Relay Device Slot Seq.	The Sequence number associated with the VoIP channels in the Source Zone that handle Packet Relay.	Sequence Number	
Dest. RTP Relay Device Slot Seq.	The Sequence number associated with the VoIP channels to handle packet relay for the Destination Zone is defined. When Utilization is Separate the channels are used for devices in the destination Zone, otherwise they are used as back up for both sides.	Sequence Number	
Max Inter Zone connection	This field determines the maximum Inter Zone connections between the source zone and destination zone. When this value is set to 0, there is no limit on the number of connections between the zones. eMG80/100:0-140, eMG800: 0-1200, UCP:0-2400	Refer to description	0
Use Firewall IP	If this option is set to ON, System use Firewall IP of VoIP board for RTP relay between Zones. But, if this option is OFF, System use Local IP of VoIP board for RTP relay between zones.	OFF ON	ON

4.4.13.9 Zone Holiday Assignment - PGM 444

Selecting the Zone Holiday Assignments returns the data input page. Enter the desired Source and Destination Zone numbers range and click **[Load]**to assign Zone holiday.Click **[Save]** button after changing Value.

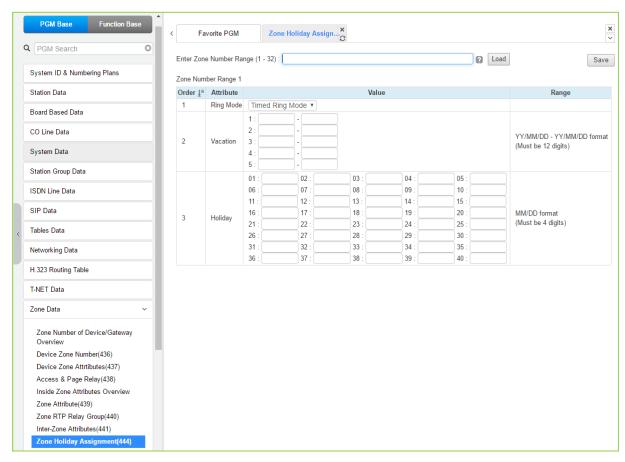


Figure 4.4.13.9-1 Zone Holiday Assignment

Holidays and vacation day intervals for each zone can be established to define the Service mode (Day, Night, and Timed) Up to 40 holidays and 5 vacation intervals can be defined.

ATTRIBUTE DEFAULT DESCRIPTION RANGE Enter the desired Service mode for the Holiday or Vacation. Refer to Timed Ring Ring Mode Day Ring Mode, Night Ring Mode, Timed Ring Mode, N/A description Mode Five ranges may be entered for vacation periods, enter the Must be 12 None Vacation start and end dates as YY/MM/DD - YY/MM/DD. digits Each Zone can have up to 40 holidays assigned, entering the Must be 4 Holiday None date as MM/DD. digits

Table 4.4.13.9-1 ZONE HOLIDAY ASSIGNMENT

4.4.14 Device Login

Selecting the Device Login Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

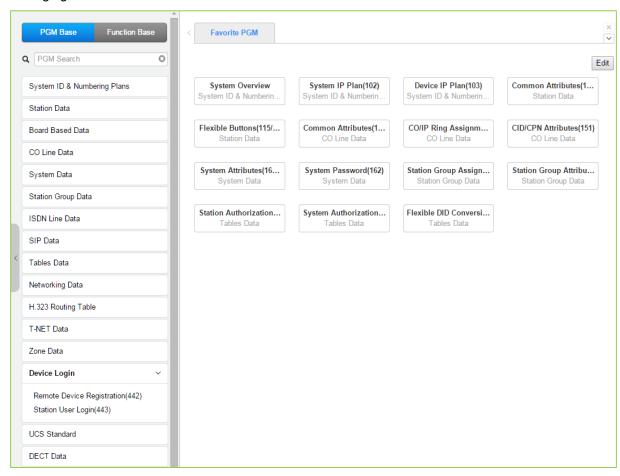


Figure 4.4.14-1 Device Login Data Main Page

4.4.14.1 Remote Device Registration – PGM 442

Selecting the Remote Device Registration will display the Remote Registration Table data input page. Enter a Table index range and select **[Load]** to enter MAC address information. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

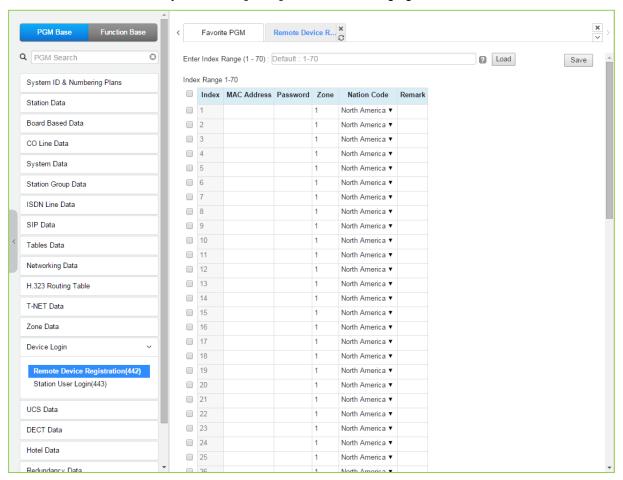


Figure 4.4.14.1-1 Remote Device Registration

When a device attempts to register with the controlling iPECS, the system will check the device MAC address and password against the Registration table. If a match is found, the device is registered regardless of Dipswitch 2 position of eMG and Dip Switch position 3 of UCP. The system database is updated and the device receives device specific configuration data from the MPB/UCP.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Mac Address	Mac address of remote device	MAC Address	
Password	Password, if any, assigned in the devices database via Device Web admin.	Up to 12 digits	
Zone	The Zone to be assigned to the device.	01-32	01
Nation code	Nation or country location of the device.		Assigned in System ID

Table 4.4.14.1-1 REMOTE DEVICE REGISTRATION

4.4.14.2 Station User Login - PGM 443

Selecting the Station User Login will display the User Login Registration data input page.

Enter an index range then click [Load] to modify Station Login data.

For convenience, the copy, paste, and drag are available to enter or modify data. Click **[Save]** button after changing Value.

Enter Index Range: eMG80/100: 1-140 / eMG800: 1-1200 / UCP: 1-2400

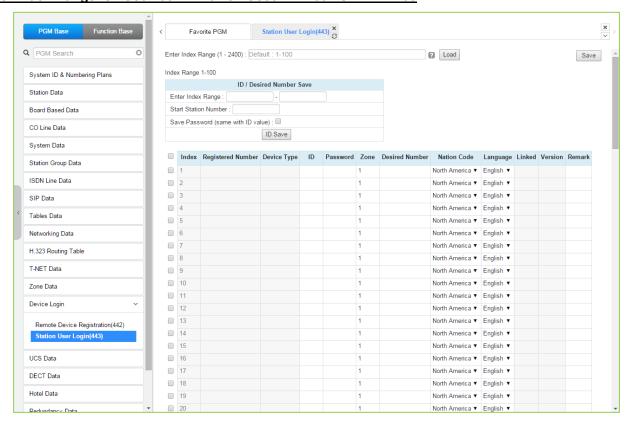


Figure 4.4.14.2-1 Station User Login

Station User Login configures User credentials for registration of iPECS UCS clients and initial registration of SIP phones. A station must register with the system each time it is connected to the system.

The ID and password are assigned along with other characteristics of the remote station such as Zone, desired station number, country code, Language and a remark can be defined.

The iPECS UCS Client can be configured as link-paired station by assigning the same Desired-Number as a registered desktop iPECS LIP Phone.

Note for the UCS Client, the UCS Standard Client Login, PGM 446, may be employed in place of PGM 443 as a single point to configure the client information.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registered	Station number registered to the station, displayed only after	Station	
Number	registration.	number	
Device Type	This filed is indicated what kind of device type is.		

Table 4.4.14.2-1 STATION USER LOGIN

Table 4.4.14.2-1 STATION USER LOGIN

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ID	The User Login ID must be entered for registration	12 Characters	
Password	The User Login password must be entered for registration.	12 digits	
Zone	The device can be assigned to a Zone.	1-32	1
Desired Number	The desired number can be entered for the device. To link an iPECS UCS and iPECS LIP Phone, enter the station number of the registered iPECS LIP Phone prior to registration of the iPECS UCS or the UCS Client, PGM 446 may be used as the single administration point.	Station number	
Nation code	The Nation code for the device is assigned.		Assigned in System ID
Language	The default Language type for system voice prompts can be	Language	Nation
	assigned to the device from the available languages.	Code	dependent
Linked	This field indicates the Linked pair status of the station.		

4.4.15 UCS Data

Selecting the UCS Data group returns the sub-menu displayed in the left frame as shown in the following figure.

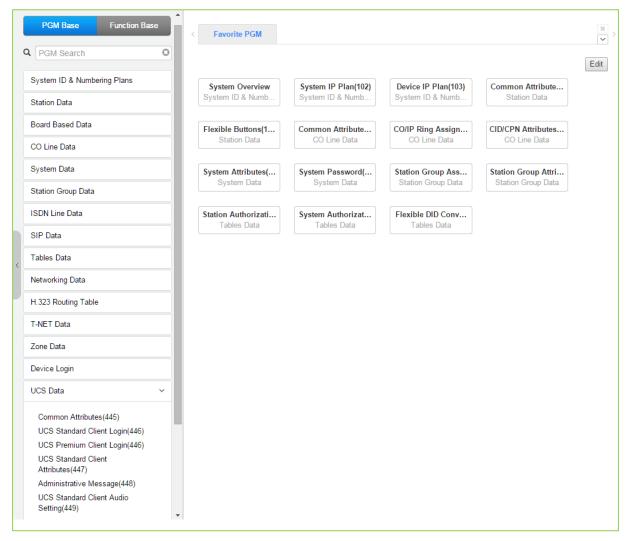


Figure 4.4.15-1 UCS Data Main Page

4.4.15.1 Common Attributes - PGM 445

Selecting Common attributes will display the common attributes input page.

Click [Save] button after changing Value.

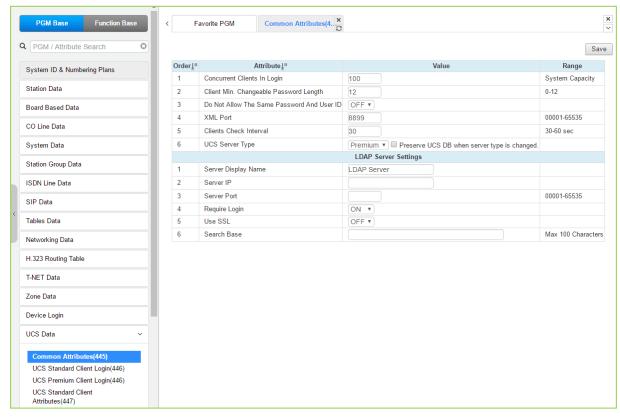


Figure 4.4.15.1-1 Common Attributes

Common Attributes for the UCS Clients include client login characteristics and LDAP server information shared with the clients as shown in the following table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	The iPECS system employs a per-seat license. The number of		
Concurrent Clients in login	UCS Clients that are active at a time cannot exceed the licensed capacity.	System capacity	100
Minimum Password Length	The minimum length of a UCS Client password can be defined up to 12 characters.	0-12	12
Do Not Allow the Same Password and User ID	The User ID can be employed as the password if permitted (OFF).	OFF ON	OFF
XML Port	The system employs XML to send or request certain information such as the User picture. The TCP/IP port can be defined.		8899

Table 4.4.15.1-1 Common attributes

Table 4.4.15.1-1 Common attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Security (option for UCS XML Port)	It is security option for UCS XML Port. (8899) If it is "TLS1.2" then system accepts only TLS 1.2. Other TLS1.1(or below) and SSL will be rejected. "Default" option is used for application compatibility as below. UCS version that can support TLS1.2: UCS Win Client: 6.1.5 UCS Mac Client: 6.1.3 UCS Android Client: 6.1.6 UCS iOS Client: 6.1.3	DEFAULT TLS 1.2	DEFAULT
Clients Check Interval	Periodically, iPECS system will verify the status of logged in UCS clients.	30-60 Seconds	30
UCS Server Type	The server that provides UCS service can be iPECS system (Standard) or the external UCS Server (Premium). Additional video and collaboration features are provided by the UCS Server as Premium service. When the UCS Server is employed, the Standard Client Login information (PGM 446) is transferred from iPECS system to the UCS Server after the client is registered. If "Preserve UCS DB when server type is changed" is checked, UCS DB will not be initialized when UCS server mode is changed.		Standard
	LDAP Server Settings		
Server Display Name	When the UCS Client requires access to an LDAP server, the system will provide the LDAP server information to the client. The server name is defined in this field.	15 characters	
Server IP	When an LDAP server is employed, the IP address of the server must be defined.		0.0.0.0
Server Port	When an LDAP server is employed, the TCP/IP port of the server must be defined.	00001- 65535	
Require Login	The UCS Client ID and Password may be required for log in to the LDAP server.	OFF ON	ON
Use SSL	When supported by the server, the client can employ SSL (Secure Sockets Layer) for added security.	OFF ON	OFF
Search Base	Search base means Search option. You can get the search option from LDAP Server manager. For example, if OU (Organization Unit) is OC and DC (Directory Company) are ucapp and com, you can give the option "OU=OC, DC=ucapp, DC=com" in this field. You will get the desired directory.	Max. 100 characters	

4.4.15.2 UCS Standard Client Login – PGM 446

Selecting UCS Standard Client Login will display the UCS standard client login input page. Enter the Client index and click **[Load]** to modify the Client data. Use the check boxes to indicate the attributes to modify.Click **[Save]** button after changing Value. Click **[Delete]** button if you want to delete after checking the box.

Enter UCS Client Index: eMG80/100: 1-32 / eMG800: 1-200 / UCP: 1-200

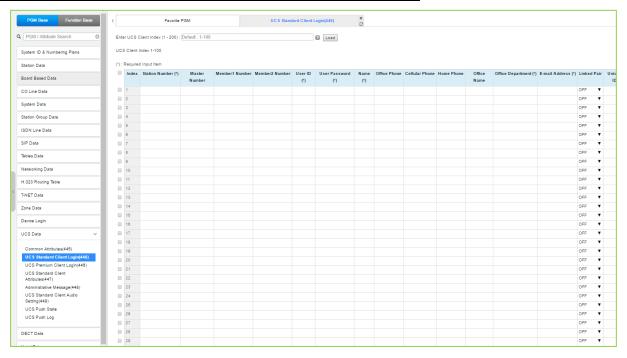


Figure 4.4.15.2-1 UCS Standard Client Login

The UCS Client information is configured for each client prior to registration. When the UCS Server is employed to provide Standard service, iPECS system will transfer the information to the server after the client registers and, after registration, any changes to the client configuration are accomplished in the UCS Server.

You can use the following items to log into multiple accounts at the same time such as PC, Mobile, Tablet, etc.

- <u>Master Number</u>: It is the key number for the related members. The master number can be the same as the station number. In this case, the master number is UCS Client. Or the master number can enter the other desired number. You can check the master and member in Personal Group (PGM 260) after finishing the value.
- Member 1 Number: In this field, you can enter the number for Mobile UCS Client.
- Member 2 Number: In this field, you can enter the number for Tablet UCS Client.

Table 4.4.15.2-1 UCS Standard Client Login

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Number	The station number for the UCS Client can be assigned here		
Station Number	and will update PGM 103 and 443.		
	The master number can be the same as the station number,		
Master Number	in this case, the master number is UCS Client. Or the master		
	number can enter the other desired number.		
Member 1	Vou can enter the number for Mobile LICS Client		
Number	You can enter the number for Mobile UCS Client.		

Table 4.4.15.2-1 UCS Standard Client Login

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Member 2	You can enter the number for Tablet UCS Client.		
Number			
User ID	The UCS Client Id for the UCS Client can be assigned here	Min. 4	
	and will update PGM 103 and 443.	characters	
User PWD	The UCS Client password, up to 32 characters must be	Max. 32	
	assigned.	characters	
Name	The user's name, up to 32 characters should be entered.	Max. 32 characters	
		Max. 32	
Office Phone	Set Office phone number.	characters	
		Max. 32	
Cellular Phone	Set Cellular phone number.	characters	
		Max. 32	
Home Phone	Set Home phone number.	characters	
		Max. 32	
Office Name	Set Office name.	characters	
Office		Max. 32	
Department	Set Office Department.	characters	
	0.5	Max. 64	
Email address	Set Email address.	characters	
	If the UCS Client is part of a Linked pair, it must be enabled		
Linked Pair	here. By entering the Station number of iPECS IP Phone as	OFF	OFF
Linked Pail	the UCS Client Station Number, the stations will employ MAC linking.	ON	OFF
	When the UCS Server is employed, each client must have a		
	unique Id of at least 40 characters, which identifies the clients		
Unique ID	to the UCS Server. Once the Client registers, iPECS system	Max. 32	
Offique ID	will send the information to the UCS Server. Note that the	characters	
	UCS Server Type in PGM 445 must be configured as		
	"Premium".		
Mutual presence	The presence status of the Client can be shared with other	OFF	ON
permission	clients.	ON	011
		ADVANCED	
		BASIC	
License	The status of license will be displayed and select the license	POWER	ADVANCED
	for usage among range.	STD-V(M),	
		STD-NV(M),	
		MOBILE	

4.4.15.3 UCS Premium Client Login – PGM 446

Selecting UCS Premium Client Login will display the UCS Premium client login input page. Enter the Client index and click [Load] to modify the Client data. Use the check boxes to indicate the attributes to modify.Click [Save] button after changing Value. Click [Delete] button if you want to delete after checking the box.

Enter UCS Server ID: eMG80/100: 1-2 / eMG800: 1-5 / UCP: 1-16

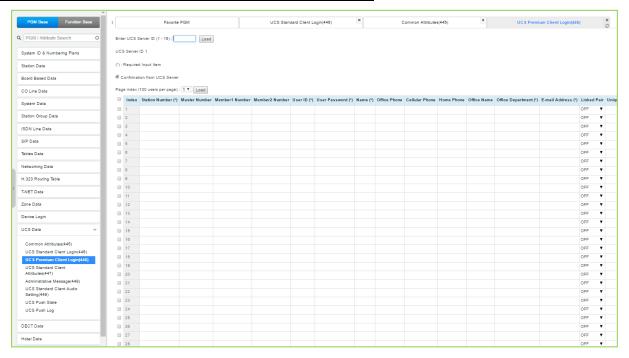


Figure 4.4.15-1 UCS Premium Client Login

The UCS Client information is configured for each client prior to registration. When the UCS Server is employed to provide Premium service, iPECS system will transfer the information to the server after the client registers and, after registration, any changes to the client configuration are accomplished in the UCS Server.

You can use the following items to log into multiple accounts at the same time such as PC, Mobile, Tablet, etc.

- Master Number: It is the key number for the related members. The master number can be the same as the station number. In this case, the master number is UCS Client. Or the master number can enter the other desired number. You can check the master and member in Personal Group (PGM 260) after finishing the value.
- Member 1 Number: In this field, you can enter the number for Mobile UCS Client.
- Member 2 Number: In this field, you can enter the number for Tablet UCS Client.

Table 4.4.15.3-1 UCS Premium Client Login

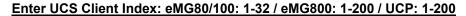
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Number	The station number for the UCS Client can be assigned here		
Station Number	and will update PGM 103 and 443.		
	The master number can be the same as the station number, in		
Master Number	this case, the master number is UCS Client. Or the master		
	number can enter the other desired number.		
Member 1	Vous one enter the number for Makila LICC Client		
Number	You can enter the number for Mobile UCS Client.		

Table 4.4.15.3-1 UCS Premium Client Login

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Member 2	You can enter the number for Tablet UCS Client.		
Number	The HOO Office (11 for the HOO Office) and he considered the second	NA' - A	
User ID	The UCS Client Id for the UCS Client can be assigned here	Min. 4	
	and will update PGM 103 and 443. The UCS Client password, up to 32 characters must be	characters Max. 32	
User PWD	assigned.	characters	
	assigned.	Max. 32	
Name	The user's name, up to 32 characters should be entered.	characters	
		Max. 32	
Office Phone	Set Office phone number.	characters	
		Max. 32	
Cellular Phone	Set Cellular phone number.	characters	
		Max. 32	
Home Phone	Set Home phone number.	characters	
		Max. 32	
Office Name	Set Office name.	characters	
Office		Max. 32	
Department	Set Office Department.	characters	
		Max. 40	
Email address	Set Email address.	characters	
	If the UCS Client is part of a Linked pair, it must be enabled		
Links d Dain	here. By entering the Station number of iPECS IP Phone as	OFF	OFF
Linked Pair	the UCS Client Station Number, the stations will employ MAC	ON	OFF
	linking.		
	When the UCS Server is employed, each client must have a		
	unique Id of at least 40 characters, which identifies the clients	Min. 40	
Unique ID	to the UCS Server. Once the Client registers, iPECS system	characters	
	will send the information to the UCS Server. Note that the UCS	Characters	
	Server Type in PGM 445 must be configured as "Premium".		
Mutual presence	The presence status of the Client can be shared with other	OFF	OFF
permission	clients.	ON	011
		ADVANCED	
License		BASIC	
	The status of license will be displayed and select the license	POWER	ADVANCED
	for usage among range.	PREM-V	
		PREM-NV	
		MOBILE	

4.4.15.4 UCS Standard Client Attributes - PGM 447

Selecting UCS Standard client attributes will display the UCS standard client attributes input page. Enter the UCS Client index then click **[Load]** to modify the client data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.



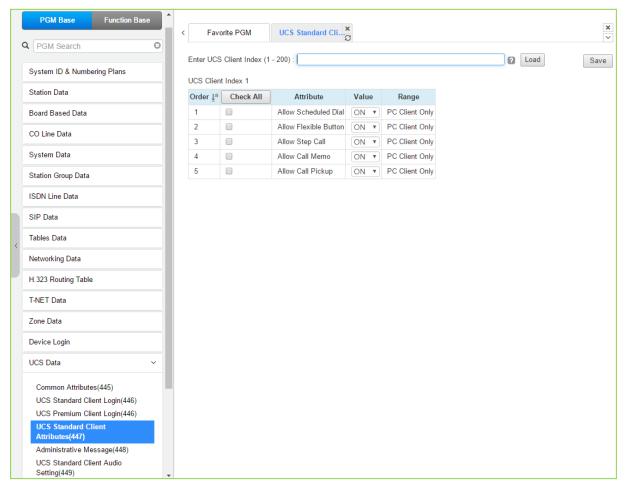


Figure 4.4.15.4-1 UCS Standard Client Attributes

The UCS Clientcan be allowed or denied access to several features as described in Table 4.4.15.4-1.The following attributes is available only for PC Client.

Table 4.4.15.4-1 UCS Standard Client Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Allow Scheduled Dial	Allows Scheduled Dialing from the client.	OFF/ON	ON
Allow Flexible Button	Allows the user to access Flex buttons on the UCS Client.	OFF/ON	ON
Allow Step Call	Allows access to the step-call feature by the UCS client.	OFF/ON	ON
Allow Call Memo	Allows the UCS Client access to the Call Memo feature.	OFF/ON	ON
IAllow Call Pickup	Permits the UCS Client use of the Direct and Group Call	OFF/ON	ON
	Pick-up features.	OFF/ON	ON

4.4.15.5 Administrative Message – PGM 448

Selecting Administrative Message will display the administrative message input page. Click **[Send]** button after filling out the subject and Contents and checking the destination.

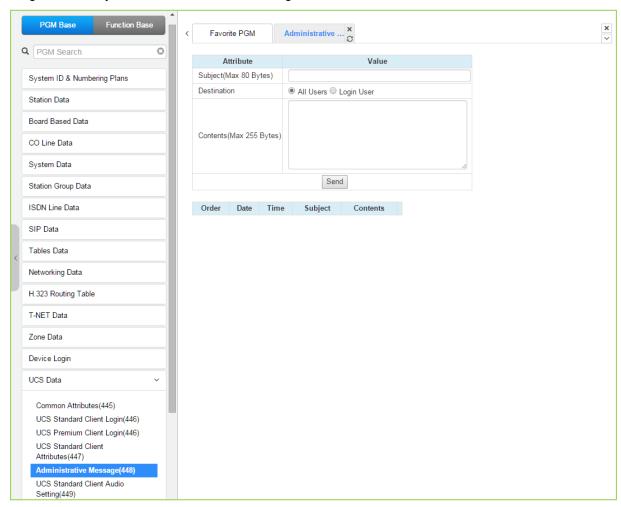


Figure 4.4.15.5-1 Administrative Message

An administrator can send a message to UCS Clients such as a Welcome message.

Table 4.4.15.5-1 Administrative Message

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Subject	Message subject.	Max. 80 bytes	
Destination	The message can be sent to currently active UCS Clients or to All Clients. For the All Clients selection, the message is sent to all active Clients and as each Client logs in.	Login user All users	All
Contents	Message body.	Max. 255 bytes	

4.4.15.6 UCS Push State

Selecting UCS Push State will display the related push attributes. Set Attributes and click [Save] to apply.

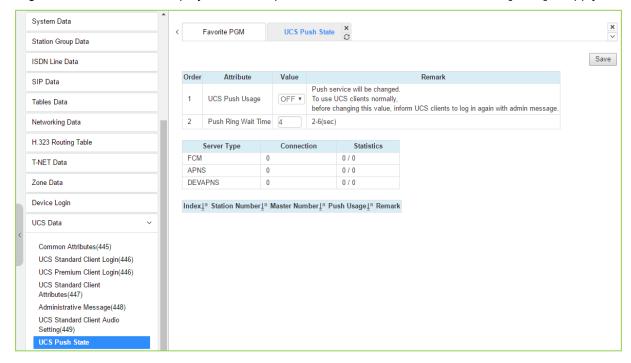


Figure 4.4.15.6-1 UCS Push State

You can see the current information such as Station number, Master number, and Push Usage on the last table.

Table 4.4.15.6-1 UCS Push State

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
UCS Push Usage	Mobile UCS client gets the push notification message for Ring, Voice mail, SMS, etc. by setting ON. You must log in again after changing the value.	OFF ON	OFF
Push Ring Wait Time	It is wait time after sending Ring push message.	6-12 (Sec.)	10
Server Type	 You can see the server type for Push service. Connection: You can see the number of connection to the server. Statistics: You can see the statistics for Success and Fail. 		

4.4.16 **DECT Data**

Selecting the DECT Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

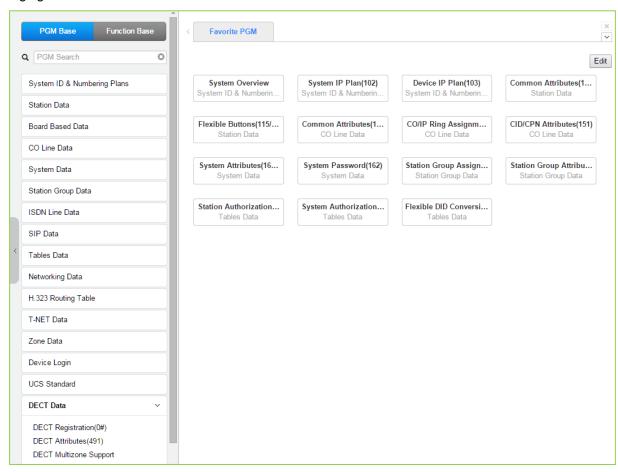


Figure 4.4.16-1 DECT Data Main Page

4.4.16.1 DECT Registration (0#)

Selecting DECT Registration returns the DECT Registration input page. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

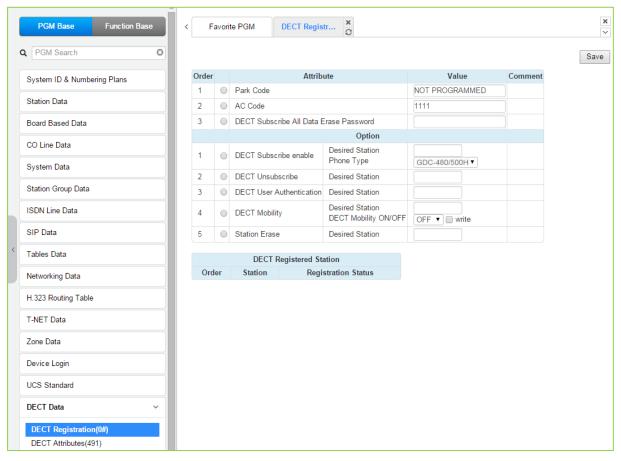


Figure 4.4.16.1-1 DECT Subscription Screen

On this page, the DECT PARK and authorization codes are defined. Several "Options" are available to enable subscription, unsubscribe a DECT station, enable mobility, etc. A chart is included displaying the registered and subscribed DECT terminals.

Table 4.4.16.1-1 DECT Registration			
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Park Code	The PARK (Portable Access Rights Key) Code is a unique system Id entered at the DECT handset during the subscription process.	14 digits	Not programmed
AC Code	The Authentication Code is entered at a DECT handset to verify subscription.	Up to 8 digits	1111
DECT Subscribe All Data Erase Password	To erase all data of DECT, enter the password.		
Option			
DECT Subscribe Enable	Enables the system to accept subscription from a DECT handset.		
Desired Station	Desired station number for the wireless DECT handset.	Station Number	

Table 4.4.16.1-1 DECT Registration

Table 4.4.16.1-1 DECT Registration

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Phone Type	Several types of handsets may be selected. Press [Send] button after entering the number and type. GDC-480H/500H, GDC-400/450H, Standard GAP	Refer to description	GDC- 480H/500H
DECT Unsubscribe	To terminate a subscription, enter the station number for the DECT handset. Note the Station must be connected, otherwise use Station Erase field below.	Station number	
DECT User Authentication	To subscribe successfully, the user will be required to enter the Station Authorization Code from PGM 227.		
DECT Mobility	When a DECT handset is registered to multiple systems that are networked, calls can be routed over the network to the DECT handset location.	Station number	
	Enter the registered station number, select Mobility ON or OFF and click [write] box then Save the page.	OFF ON	OFF
Station Erase	To terminate the registration for a DECT phone that is not connected, enter the registered station number and click [Save] button.	Station number	

4.4.16.2 DECT ATTRIBUTES - PGM 491

Selecting the DECT Attributes returns the DECT ATTRIBUTES input page. Click **[Save]** button after changing Value.

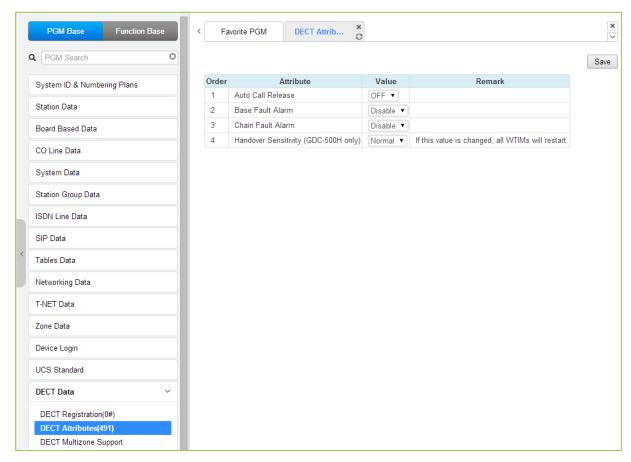


Figure 4.4.16.2-1 DECT ATTRIBUTES

DECT Attributes define functions associated with the DECT equipment and operation as shown in the following table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Auto Call	If enabled, when the other party of an active internal call	OFF	OFF	
Release	disconnects, DECT terminal returns to idle.	ON	011	
Base Fault	If enabled DECT Door station clauses are contact to the Attendant	Disable	Disable	
Alarm	If enabled, DECT Base station alarms are sent to the Attendant.	Enable	Disable	
Chain Fault	If enabled, alarms are sent to the Attendant indicating a fault in	Disable	Disable	
Alarm	the link between WTIM modules. This feature is only for UCP.	Enable	Disable	
Handover Sensitivity	The user can control the handover sensitivity of GDC-500H only. (Normal or Strong) If this value is changed, all WTIBs will restart.	Normal Strong	Normal	

Table 4.4.16.2-1 DECT Attributes

4.4.16.3 DECT Multi-zone support

Selecting the DECT Multi-zone support will display the DECT Multi-zone support input page. Click **[Save and All WTIM (WTIB) reset]** button after changingthe Value

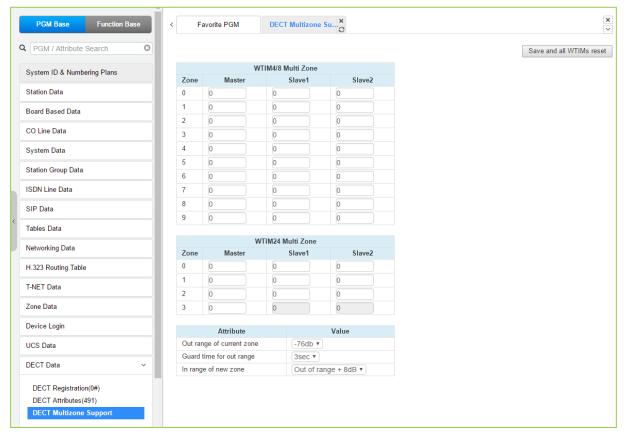


Figure 4.4.16.3-1 DECT Multi-zone support attributes

It is for roaming of DECT phones in large sites with more than 3 WTIM (WTIB).

For detailed information, you can get it from DECT Installation Guide.

It is recommended to use one type of WTIM (WTIM 24 or WTIM 4/8)

If both are used in a site then zone number of WTIM 4/8 should be lower than zone number of WTIM 24.

Maximum DECT phone number is 192 if WTIM is combined

Maximum DECT phone number is 254 if only WTIM 24 is used in a site.

4.4.17 Hotel Data

Selecting the hotel data returns the sub-menu displayed in the left frame as shown in the following figure.

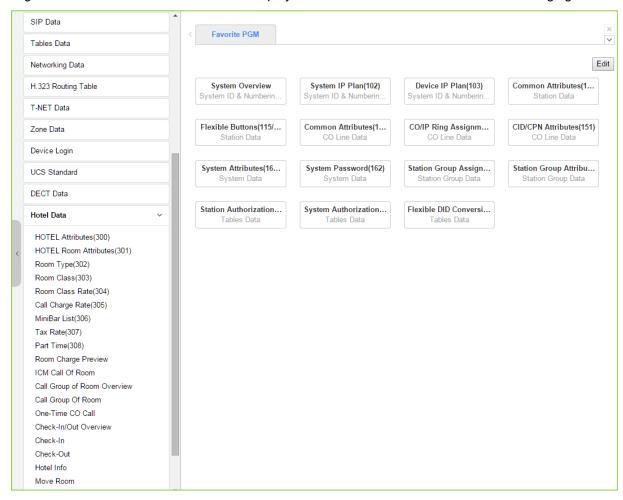


Figure 4.4.17-1 Hotel Data main page

With Hotel Data, we describe the function on another Hotel Feature and Programming manual. Refer to "Hotel Feature and Programming manual".

4.4.18 Green Mode for eMG - PGM 500

Selecting the Green Mode program group returns the sub-menu displayed in the left frame as shown inthe following figure.

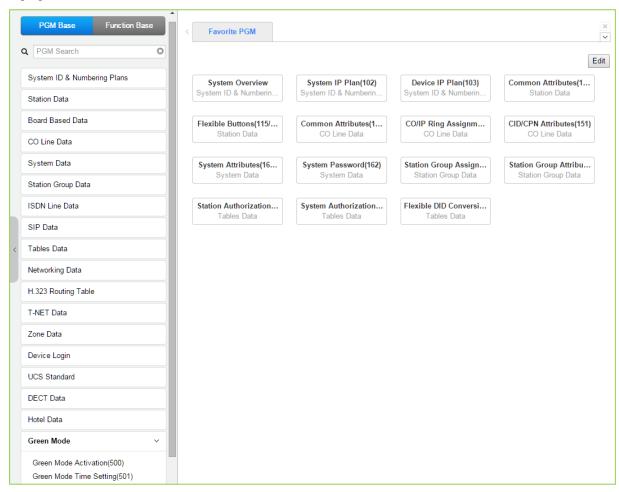


Figure 4.4.18-1 Green mode main page

4.4.18.1 Green mode activation

Power OFF button

Selecting Green Mode Activation returns the page shown. Click [Save] button after changing Value.

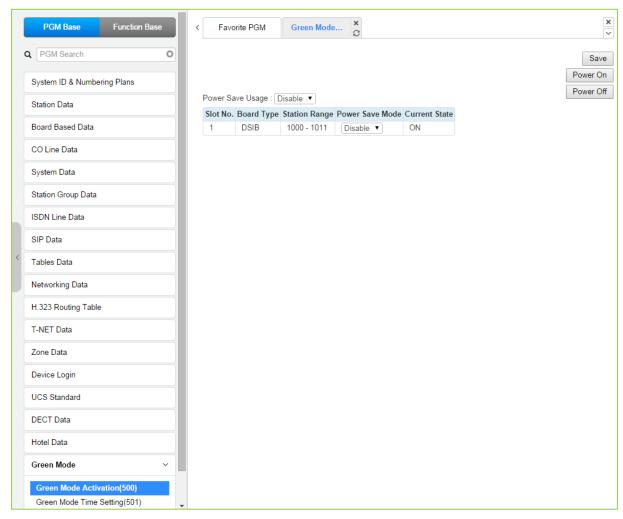


Figure 4.4.18.1-1 Green Mode Activation

The system can disable the power of a Digital Phone or Single Line Telephone (SLT) installed in the HYIB/SLIB/DSIB to save power during night or holiday mode. The power ON/OFF can be controlled by Web admin manually or automatically by assigning power ON/OFF time.

DESCRIPTION DEFAULT ATTRIBUTE Enables or Disables Power Save usage. Power Save Usage Disable Slot No. The Slot Number of board supporting power control. Board Type Board Type. Station Range Station Number Range of board supporting power control. Power Save Mode Enables or Disables Power Save Usage Mode of each board. Disable ON **Current Status** Displays the current status of board power ON/OFF. Power ON button Power ON manually all of stations in Power Save used board.

Power OFF manually all of stations in Power Save used board.

Table 4.4.18.1-1 Green Mode Activation Attributes

4.4.18.2 Green Mode Time Setting

Selecting the Green Mode Time Setting returns the page shown.Click [Save] button after changing Value.

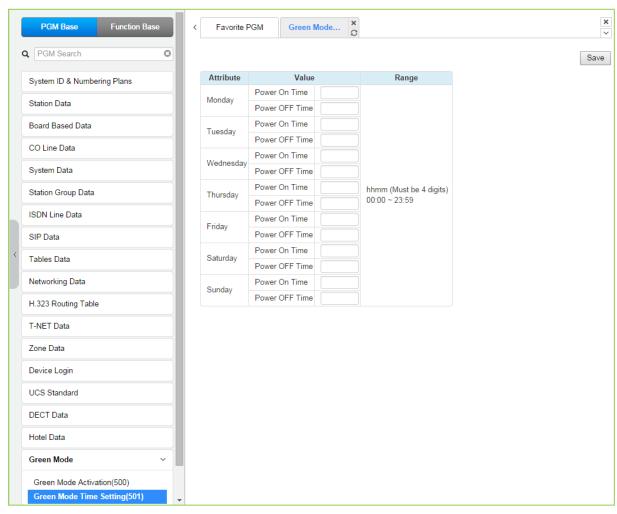


Figure 4.4.18.2-1 Green Mode Time Setting

The power ON/OFF time can be assigned to control Green Mode automatically. The power ON/OFF time can be defined at each day in a week. And when defined that time, power to assign board will be served or not.

Table 4.4.18.2-1 Green Mode Time Setting

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Power ON Time	The time to start power supply to assigned board.	hhmm		
	The mile of complete of the conference	(Must be 4 Digits)	DEFAULT	
Power OFF Time	The time to stop power supply to assigned board.	hhmm	DEFAULT	
	The time to stop power supply to assigned board.	(Must be 4 Digits)		

4.4.19 Redundancy Data for UCP600 & 2400

Selecting the redundancy data returns the sub-menu displayed in the left frame as shown in the following figure.

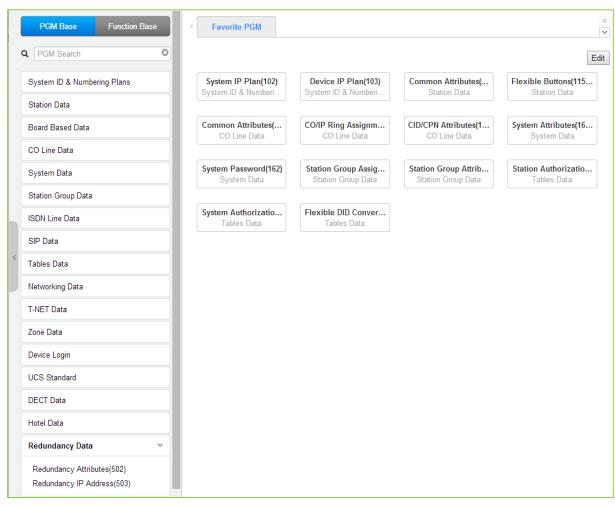


Figure 4.4.19-1 Redundancy Data main page

4.4.19.1 Redundancy Attributes - PGM 502

Selecting Redundancy attributes will display the page shown. Click [Save] button after changing Value.

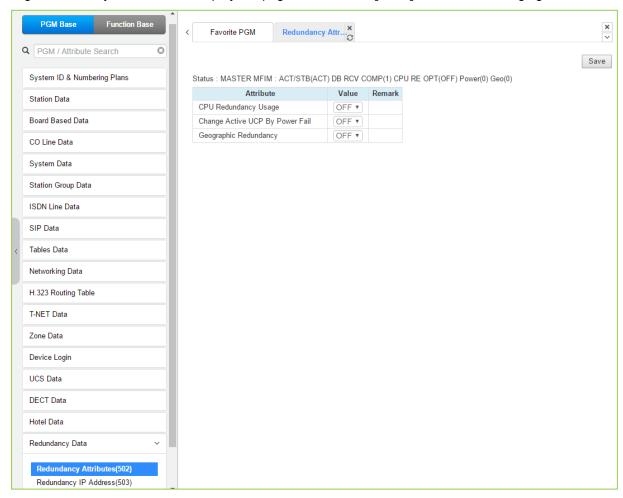


Figure 4.4.19.1-1 Redundancy Attributes

The Redundancy attributes enable redundancy and activate "Geographical" redundancy.

Table 4.4.19.1-1 Redundancy Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
CPU Redundancy	When redundancy is employed, this field informs the master	OFF	OFF	
usage	UCP that a redundant UCP is available.	ON	OFF	
Change Active UCP	When power fails, the active UCP is changed to the standby	OFF	OFF	
By Power Fail	mode and the standby UCP becomes active.	ON	OFF	
Geographical	Geographical redundancy permits remote location of the	OFF	OFF	
Redundancy	redundant UCP modules.	ON	OFF	

4.4.19.2 Redundancy IP Address - PGM 503

Selecting the redundancy IP Address will display the page shown. Click [Save] button after changing Value.

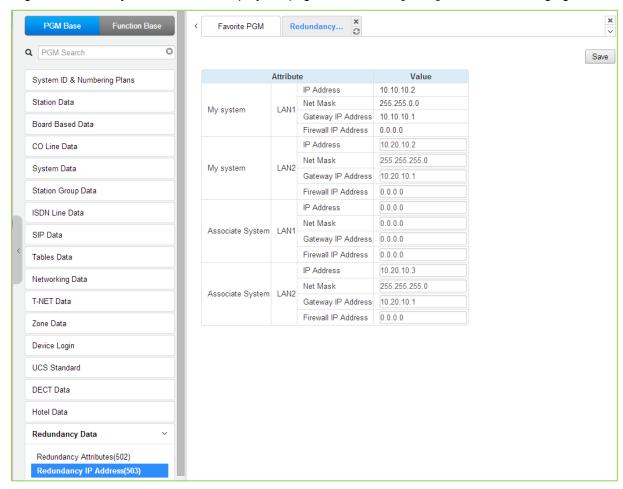


Figure 4.4.19.2-1 Redundancy IP Address

For proper operation, the IP addressing parameters of the LAN1 ports of the redundant UCP modules must be defined for Redundancy.

4.4.20 Initialization - PGM 450

Selecting Initialization will return the sub-menu in the left frame in as shown in the following figure.

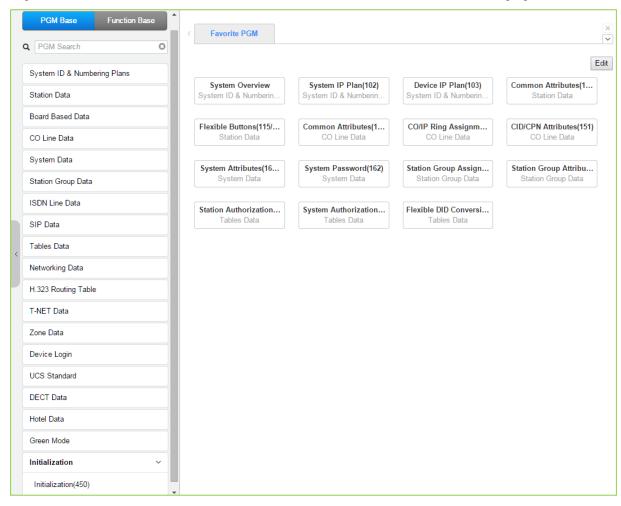


Figure 4.4.20-1 Initialization

4.4.20.1 Initialization Table - PGM 450

Selecting Initialization will display the Initialization Table data entry page. Use the check mark to indicate which attributes to modify; data for checked attributes is initialized by clicking **[Initialize]** button or reset system by clicking **[Reset system]** button.

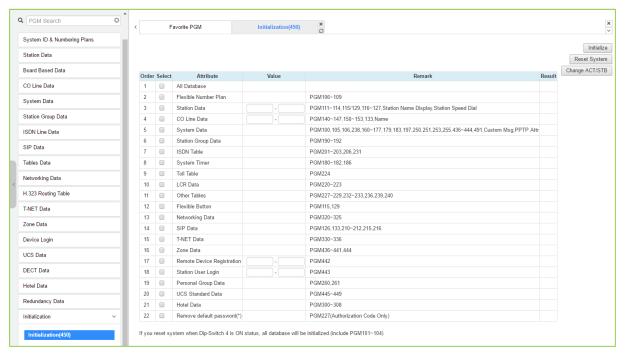


Figure 4.4.20.1-1 Initialization Menu

The system has been pre-programmed with certain features using the default data. The default data are loaded into memory when the system is initialized. The system should always be initialized when first installed or the database appears corrupted.

In addition, the UCP system can be restarted from this page and, if redundant processors are equipped, the active and standby UCP modules can be modified.

The system can be initialized manually during installation.

Note

If you reset eMG system when Dip switch 2 is On, all database will be initialized including PGM 101-104.

If you reset UCP system when Dip switch 4 is On, all database will be initialized including PGM 101-104.

4.5 Maintenance

The Maintenance tab main screen displays information on the system software versions as well as information on modules and terminals connected to the system.

From this page, the database upload/download, software upgrade, access control, license install and other management functions shown in Figure 4.5-1~ 4.5-3 are accessed.

In addition, at the top of the central screen, detailed software version information and system resource status (CPU, memory, storage and network) are provided. Also, you can monitor the device in real time by clicking [Real-time Device Monitoring].

As eMG/UCP software is being upgraded regularly, we cannot guarantee the software version displayed and it may be different from the current version.

Among Menus on Maintenance, the following functions are not available at UCP2400.

- VSF Prompt message
- VSF System greeting
- Voice Mail USB Backup on VSF Mail Management (for eMG80/800, UCP)
 eMG100/vUCP: Vocie Mail Web Backup/Restore

Real time monitoring for Device

You can monitor the current status about Device in real time. The new information is highlighted in red.

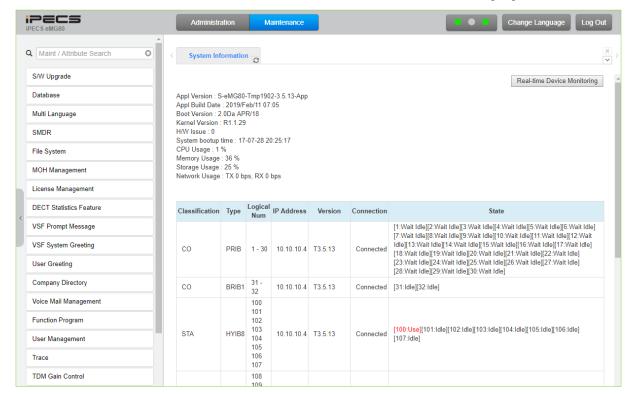


Figure 4.5-1 eMG80/100Maintenance Main Page

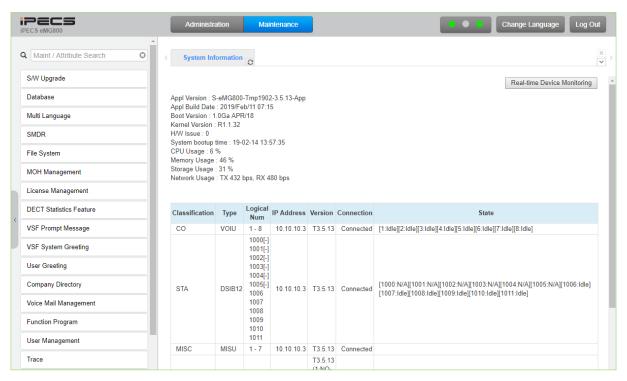


Figure 4.5-2eMG800 Maintenance Main Page

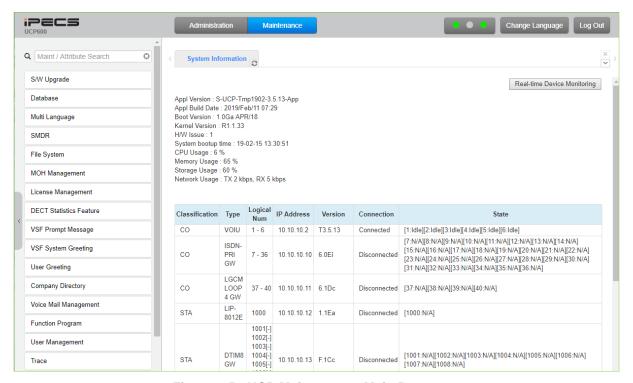


Figure 4.5-3UCP Maintenance Main Page

4.5.1 S/W Upgrade

iPECS system employs a NAND based memory file system thus, html, UCP/MPB upgrade and iPECS appliance image files can be uploaded without impact to the current database. All of iPECS series modules can be upgraded by remote access through the system. Selecting S/W Upgrade from the Maintenance page displays the Appliance Version page and sub-menus display in the left frame as shown in the following figure.

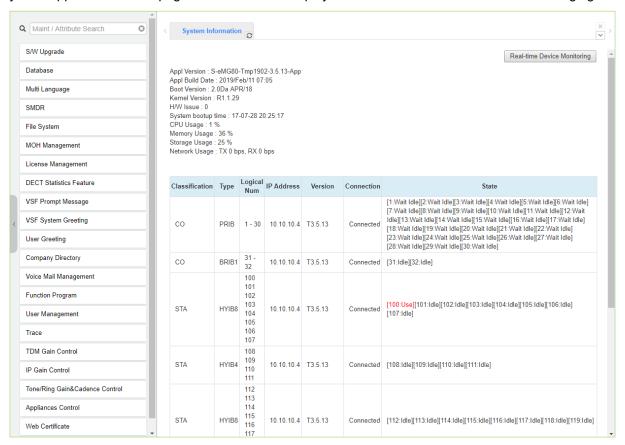


Figure 4.5.1-1 S/W Upgrade

There are two types of upgrade images: application and kernel image. If both are required, upgrade the kernel first and then the application.

The VMIU is part of the MPB and VSF prompts are upgraded by uploading prompt files to the MPB. VMIB prompts are upgraded by direct upload of prompt files to the VMIB.

4.5.1.1 File Upload

From the File Upload page, click[Select file] button and then open the pop-up folder. Select the desired file to upload to the system's memory and click the [Start] button. The file is sent to the system's memory, saved and automatically loaded upon a system reset or restart.

Prior to upload, verify sufficient memory is available in eMG/UCP File System for the files to be uploaded. Refer to 'File System section' to view the free disk space and delete any unused files. Note names of files required for normal system operation will be grey out and cannot be deleted.

Html image files are extracted and previous HTML files are deleted at completion of the upload process. New VSF prompt files are also available immediately upon successful uploaded. If file upload succeeds, a success page will be displayed.

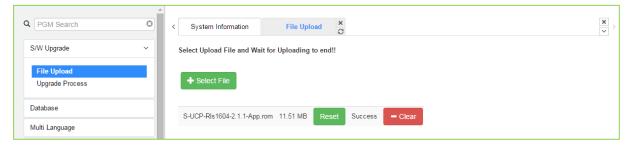


Figure 4.5.1.1-1 File Upload

4.5.1.2 Upgrade Process

If the iPECS Appliance image is uploaded, the appliances of the type for which an image was uploaded will be displayed and can be selected to upgrade, as shown in the following figure Upgrade Process. Select the desired appliance and click **[Upgrade]** button, the upgrade process will start and a progress screen will be displayed.

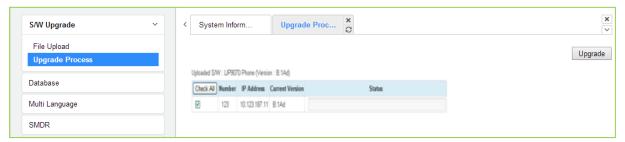


Figure 4.5.1.2-1 Upgrade Process

4.5.1.2.1 Upgrade Process View

The Upgrade Process View provides a status window; refer to the following Upgrade Process View, for Module and terminal upgrade activity in process.

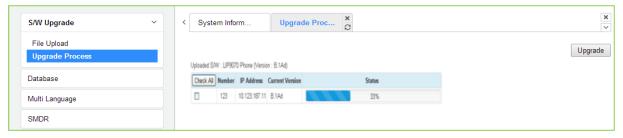


Figure 4.5.1.2-1 Upgrade Process View

4.5.1.2.2 iPECS eMG/UCP Upgrade Process

iPECS Software Full Upgrade Sequence

The following shows the order in which the upgrade process proceeds and firmware files for iPECS and modules. Note the xxxx in the ROM file names indicates the version number of the file.

MPB/UCP Upgrade Process

1) Upload MPB/UCP application image.

:DECC LICE	UCP application image
iPECS UCP	(Example, S-UCP-RIs1601-2.1.1-app.rom)
	eMG 80/100/800 MPB application image
:DECC-MC	(Example, eMG80: S-eMG80MPB-Rls1512-2.1.1-App)
iPECSeMG	(Example, eMG100: S-eMG100MPB-Rls1512-2.1.1-App)
	(Example, eMG800: S-eMG800MPB-Rls1512-2.1.1-App)

2) Restart MPB/UCP.

Note)

If the new system database is not compatible with existing system database, it will be necessary to initialize the system database.

This can be done manually using the Initialize Dip Switch located on the UCP/MPB module or via the Initialization Web page.

Upgrade of the UCP/MPB includes HTML files; a separate upload of the HTML files is not required. HTML files can be separately upgraded under the File System

Appliances Upgrade Process

Upload Appliance application image to MPB

LIP 8012/8024/8040E applicationimage:	GS98Pxxxx.rom (xxxx indicates the version)
LIP 8002E application image:	GS99Pxxxx.rom (xxxx indicates the version)

- 2) Select target appliances & Upgrade application image and click [Upgrade].
- Wait until upgrade process completes.
- 4) Automatically restart when upgrade completes successfully.

Upgrade of Voice Prompt for eMG

- Access to VSF Prompt Upgrade page.
- 2) Select First/Second/Third for multiple language voice prompt.
- 3) Upload the proper prompt file.

					c.; xxxx indicate	

Upgrade of Voice Prompt to VMIU for eMG

- 1) Access to MPB.
- 2) Select First/Second/Third for multiple language of voice prompt.
- 3) Upload the proper prompt file to VMIU.

	VMIB promi	nt fi	۱۵۰	220	211/vvvv ra	n (22 l	e nation	ia GS	DM KE	otc	; xxxx indicates the version	n)
		ot II	IC.	1::3		11 (: : 1	o Hallotti.	1.C. UU	. DIVI. IXI	\. CIU.	. AAAA II IUIGUGUGS II IG VGISIOI	111

4.5.1.3 Upgrade HTML Files

The "File View" Menu is used to upload file and reload the system's html files. Upload time of html will take 5 ~ 10 minutes.

4.5.1.3.1 Appliances Upgrade (Device and iPECS Phone)

Upload appliance image, and click **[Upgrade process]** button to select upgrade appliances. If appliances are selected, click **[Upgrade]** button. The page shown in Figure 4.5.1.2-1 will be displayed indicating the Upload command has been sent and upgrade process is working.

This page will display the Upload status. When the appliance upgrade process is successful, the status is updated to "Success". If the upgrade process fails, the process is attempted an additional three (3) times before abandoned.

4.5.1.3.2 Direct Appliances Upgrade

Should the above managed upgrade process fail, appliances (Devices and iPECS Phones) can be upgraded directly using the appliance IP address as the upgrade destination address. Note the later may require local access.



Figure 4.5.1.3.2-1 iPECS Phone Direct Connect Upgrade

4.5.1.4 WTIB Base upgrade Process for eMG800

Upgrade WTIB base image of eMG800.

- 1) Upload WTIB base image to MPB.
- 2) Select target base& Upgrade.
- 3) Wait until upgrade process completes.
- 4) Automatically restart when upgrade completes successfully.



Figure 4.5.1.4WTIB Base Upgrade Process

4.5.2 Database

4.5.2.1 Database Upload

The Database Upload selection will display the Database Upload page as shown in figure. Select [Select Files] then select the database file desired from the local PC and click [Start] to upload the database to the system.



Figure 4.5.2.1-1 Database Upload

4.5.2.2 Database management

Selecting Database Management will display the Database Download page. Select the structure to determine the portion or structure of the download.

Click [Download] then select the directory and file name in the pop-ups that follow to save the file to the PC.

After building a database file, the download function will be available. A maximum of five downloadable files for various types of data and structure can be built; building additional files deletes the oldest.

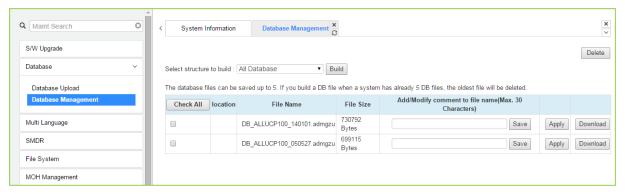


Figure 4.5.2.2-1 Database Download

You can add or modify the file name by entering the characters including special character (#, \$, %,&, ', (), -, ., @, _). The comment will be created as [XXXXX] before '.admgzu'. It is useful to search DB after downloading.

Clicking on **[Download]** button will present the File Download window. Files should be saved to disk. Note that this screen will appear for all download processes.

4.5.3 Multi Language

The system can employ either English or a "Local Language" for the Web page displays. The multi-language file, which is a csv (comma separated variable) formatted file, is downloaded to a PC and the English terms are translated to the local language.

The modified file can then be uploaded to iPECS system. Once uploaded, the user can select the "Change Language" button and select either English or the Local Language translation for Web page displays.

4.5.3.1 Multi Language File Upload

The Multi Language File Upload selection returns the Multi Language File Upload page as shown in figure. By selecting the Multi Language File desired from the local PC, the desired Multi Language File can be uploaded to iPECS system.

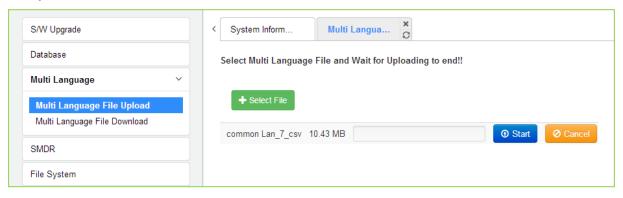


Figure 4.5.3.1-1 Multi Language File Upload

4.5.3.2 Multi Language File Download

Selecting Multi Language File Download will display the Multi Language File Download page figure. Selecting this option will download the entire iPECS systemMulti Language File to the local PC.

This also allows the Multi Language File in the PC to be uploaded to iPECS system using the file upload procedures in S/W Upgrade section.

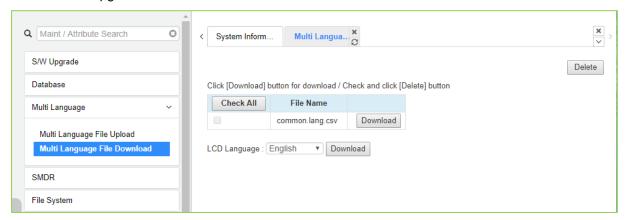


Figure 4.5.3.2-1 Multi Language File Download

4.5.4 SMDR

The iPECS system can download SMDR data in a SYLK format file (.slk). The file is compressed using the "gz" file format. After unzipping, the file can be opened under any common spreadsheet application. The system will provide a view of SMDR data for the station range entered in the Web page Figure. This page may also be employed to delete SMDR records for the station range entered.



Figure 4.5.4-1 SMDR Access

4.5.5 File System

4.5.5.1 File View & Delete

The File View & Delete page displays a list of the various files stored in the file system memory. To delete a file, check the box for the file and click **[Delete]**. Files can also be downloaded to the PC using the **[Download]** button to the right of the file name. Note the system requires the files displayed in grey and the system will not allow deletion of these files.

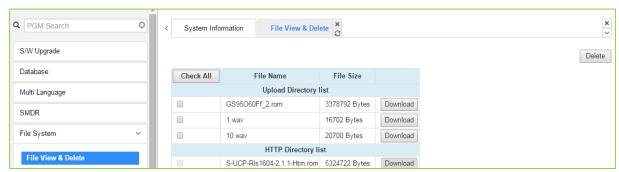


Figure 4.5.5.1-1 File View and Delete

4.5.5.2 File System Information

The File System Information page displays the disk status including the total and free disk space as shown in figure. Use this page to determine if the free space on the disk is sufficient for uploading Upgrade files, section 4.5.1.

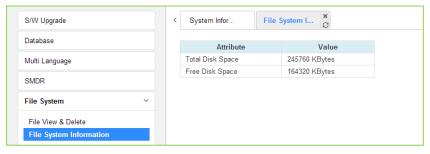


Figure 4.5.5.2-1 File System Information

4.5.6 MOH (Music On-Hold) Management

4.5.6.1 MOH Delete& Download

The MOH Delete& Download page displays a list of the thirteen files stored in the file system memory. To delete a file, check the box for the file and click **[Delete]**. Files can also be downloaded to the PC using the **[Download]** button to the right of the file name.

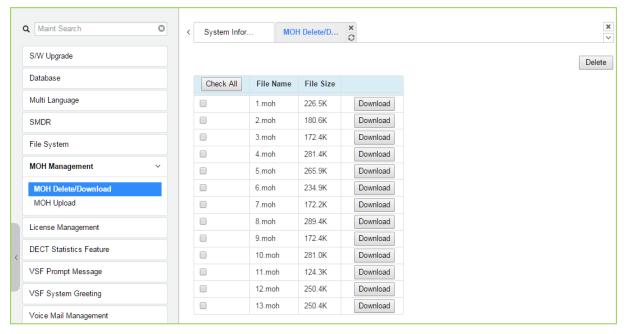


Figure 4.5.6.1-1 MOH Delete& Download

4.5.6.2 MOH Upload

Selecting "MOH Upload" will display the page shown in figure. Here MOH can be uploaded to the system for each of up to thirteen (13) MOH. MOH files format must be followed as shown in the page G.711 a/u-Law wav (8000Hz, 16bit, mono).

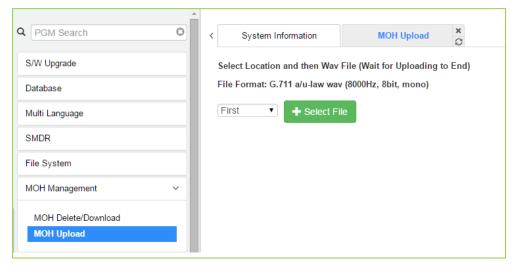


Figure 4.5.6.2-1 MOH Upload

4.5.7 License Install

Various licenses can be installed to expand capacity of the system and Auto Attendant/Voice Mail services available in the system as well as soft clients and feature applications. After obtaining a license, you can find the status of each license.

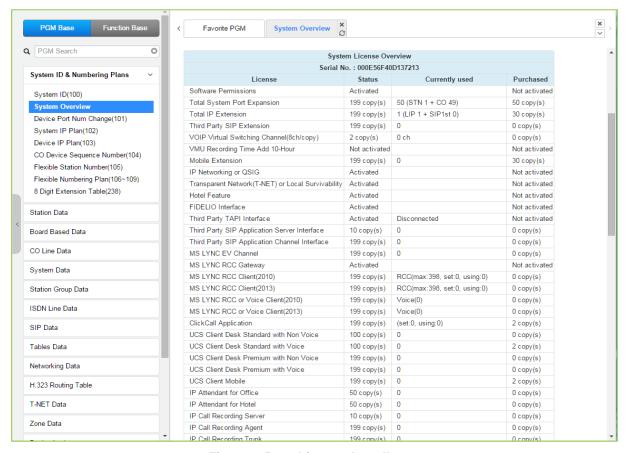


Figure 4.5.7-1 License Install

4.5.7.1 License upload

Before License upload, make sure that the date of system is set correctly. Click the Select files button and then open the pop-up folder. Select avalid license file to upload to the system and click the **[Start]** button. If the file which is sent to the system is "System License File", it will be saved and automatically applied without restart. The enabled features by uploading license file can be shown in "System Overview" page.

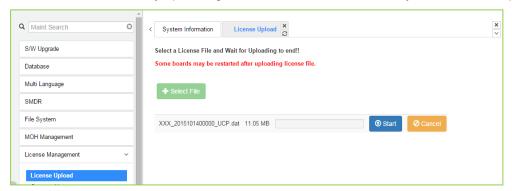


Figure 4.5.7.1-1 License Upload

You can check license upload detailed log by clicking "Log View" button.

4.5.7.2 Gateway License for UCP

All gateways which can have gateway license type are displayed in this web page. If a valid gateway license file was uploaded by "License Upload" and a gateway with matched serial number is registered in system, [Apply] button will be activated. This button is used to send the license file to the gateway. After the license file is sent, it will be deleted and the gateway will be restarted to apply features of the license file.

1) The following figure is before uploading the license.



2) After re fresh, the following figure is displayed and click the apply button to activate.



3) The final step is to reset the gateway license and then refresh. You can see the following figure for Gateway license.



4.5.7.3 User Base License

Selecting User Base License displays the license input page. Enter the station index range and click **[Load]** to assign the desired license for each station number. Click **[Save]** button after changing license.

Enter Station Index Range: eMG80/100: 1-140 / eMG800: 1-1200 / UCP: 1-2400

The license is the following type for UCS Client:

- Device: if "Device" is selected, it should be configured in PGM446. (Default: Device)
- Basic: The standard license is available for Desktop Call Control.
- Advanced: The advance license is available for Single login and multiple devices.
- Power: The standard license is available for multiple logins and multiple devices.
- * Basic / Advanced / Power licenses are user base license

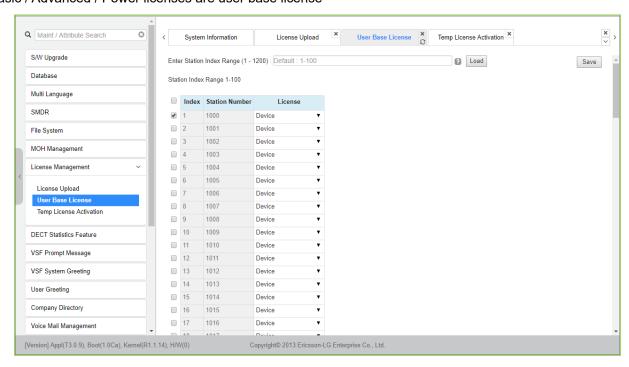


Figure 4.5.7.3-1 User Base License

4.5.7.4 Temp License Activation

Before Temp License Activation, make sure that the date of system is set correctly. In this page, Temp License can be activated by clicking **[Activation]** button. Remaining days and activation times are displayed in State column. The Temp License can be activated totally 6 times. It is valid for 60 days at first activation and is valid 30 days from second activation. Therefore the license file which has correct port number and features must be uploaded. Otherwise, system may enter "Limited Service Mode" due to the mismatched license.

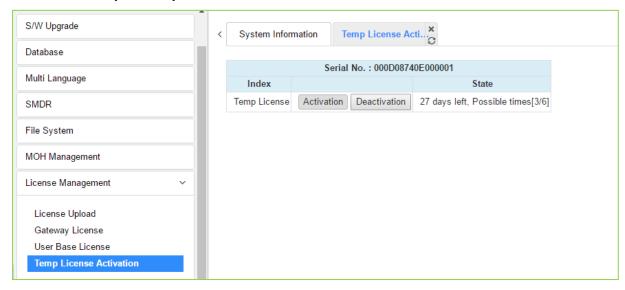


Figure 4.5.7.4-1 Temp License Activation

Notification

- Please backup your DB before you activate a temporary license.
- Must verify the present license before the temporary license expires.
- If a temp license expires, upload a new license file or use within the scope of current license file. Otherwise, the system may go to [Limited Service Mode].

4.5.8 DECT Statistics Feature

Selecting DECT Statistics Feature displays the page shown in figure. Select the desired radial button and, where needed, enter the WTIM/WTIB sequence number then click **[Send]** to view the statistics.

For example, the following box in red is information about the stateview of WTIM by entering Sequence number and clicking [Send] button. So you can get the information about all attributes.

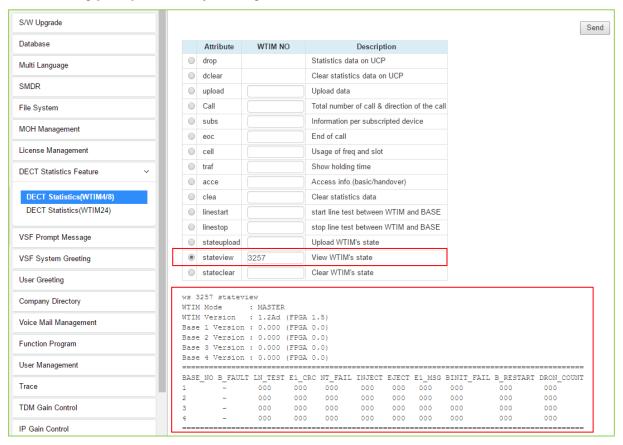


Figure 4.5.8-1 DECT Statistics (WTIM4/8 or WTIB4/8)

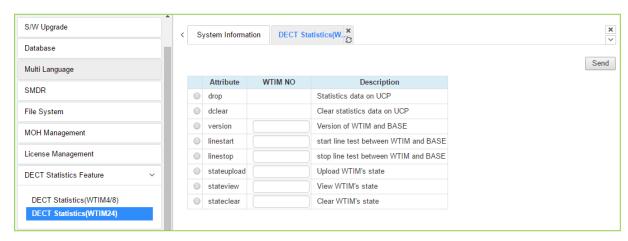


Figure 4.5.8-2 DECT Statistics (WTIM24)

4.5.9 VSF Prompt Upload

The iPECS system delivers system prompts in up to six (6) languages. The prompts for each language are stored in a separate file. Files for each of the languages supported are available from the local Ericsson-LG Enterprise representative. The entire prompt file or individual prompts may be uploaded to the system. Once uploaded to the system the file is employed to play prompts to iPECS eMG/UCPuser.

UCP2400 doesn't support VSF prompt message.

VSF prompt sub-menu is a little differentamongeMG80/100, eMG800, and UCP.

Prompt selection: eMG800 and UCPare available.

Prompt Upload /Delete: Available.

Individual upload: Available.

4.5.9.1 Prompt selection

Selecting Prompt Selection displays the page shown in figure. The System Voice Prompt language files are stored in the VSF memory and are enabled with the Prompt Selection page. A reference "Position" is assigned a language selected from the drop-down menu. Once the language for each position is selected, saving the page enables all the languages selected.

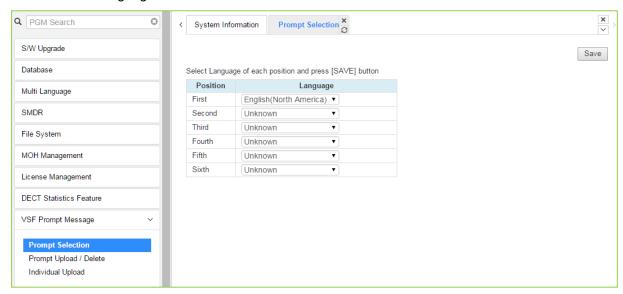


Figure 4.5.9.1-1PromptSelection for eMG800& UCP

4.5.9.2 Prompt Upload/Delete

Selecting Prompt Upload/Delete displays the page shown in Figure 4.5.9.2-1 &Figure 4.5.9.2-2. From this page, the entire prompt file for selected languages can be deleted and updated prompt files uploaded to the system. The Select file button is used to upload files. The check box and Delete button are used to delete old or unused language files.

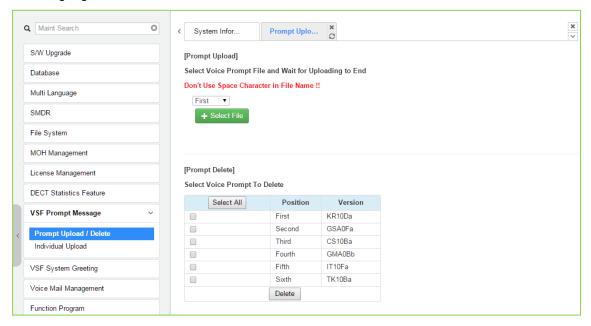


Figure 4.5.9.2-1Prompt Upload& Delete for eMG80/100

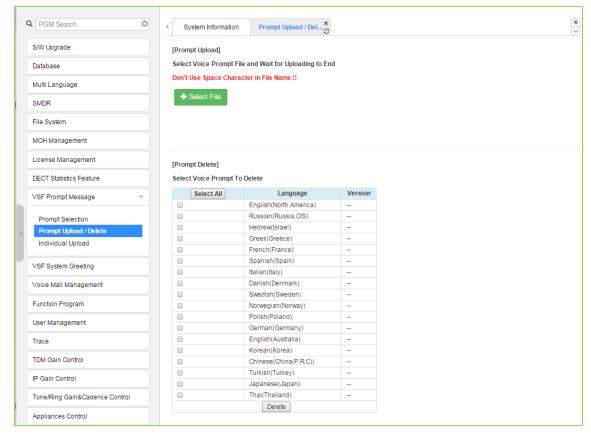


Figure 4.5.9.2-2Prompt Upload& Delete for eMG800& UCP

4.5.9.3 Individual Upload

Selecting "Individual Upload" will display the page shown in figure. Here individual system prompts can be uploaded to the system for each of up to six (6) languages. Prompt files must be appropriately named and must be in a G.711 a/u-Law format.

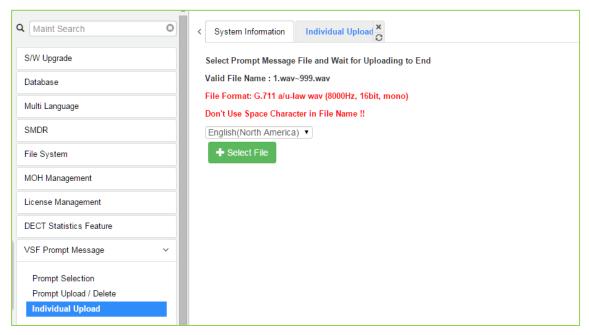


Figure 4.5.9.3-1Individual Upload

4.5.10 VSF System Greeting

The System Greetings (Announcements) can be downloaded from the system or Uploaded to the system. Individual announcements can be recorded externally and then uploaded to the system. Like prompts, the individual announcement files must be in a .wav format using the g.711 codec. Individual greetings for each Language position can be uploaded as well as downloaded. Clicking on the message will download the message to the browser, which will play the message. To save the message, right click and select save as. Locate a directory and change the file name, if desired and click save.

All announcements can be downloaded from the system as a back-up file and uploaded to the VSF memory as required.

UCP2400 doesn't support VSF system greeting.

4.5.10.1 Individual Upload

Selecting Individual Upload displays the page shown in Figure 4.5.10.1-1. From this page, individual prerecorded announcements for each language position can be uploaded from the PC to the VSF gateway. Select the language position and assure the file name matches the appropriate System Announcement number. The file format must be shown on the page.

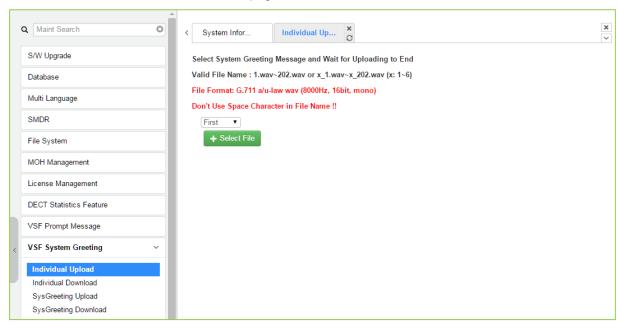


Figure 4.5.10.1-1 Individual Upload

4.5.10.2 Individual download

Selecting Individual Download displays the page shown in figure. The page will display a list of System announcement in the VSF memory. Individual files may be downloaded with the Download button next to the announcement file name or using the checkbox and the delete button the announcement can be deleted from the VSF memory.

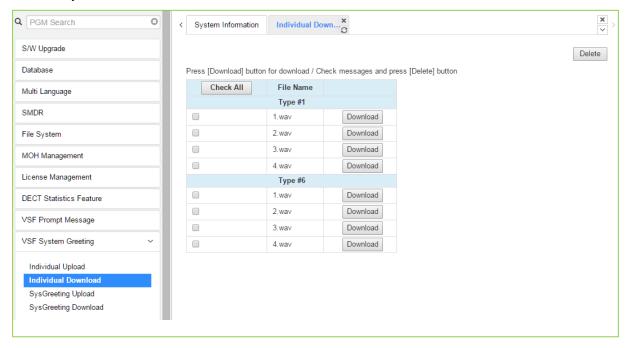


Figure 4.5.10.2-1 Individual Download

4.5.10.3 System greeting Upload

Selecting System Greeting Upload displays the page shown in figure. From this page, announcements for each language "Position" can be uploaded to the VSF memory. First, select the language position then click the Select Files button to select the file to upload from the PC.

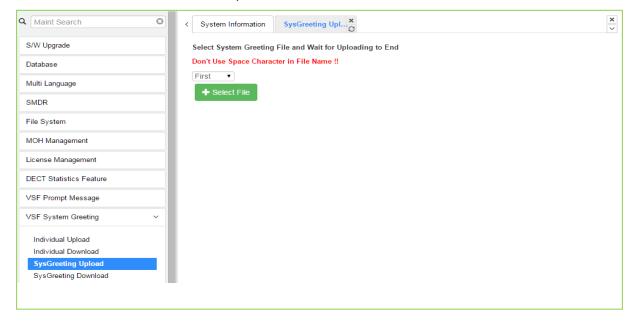


Figure 4.5.10.3-1 System Greeting Upload

4.5.10.4 System greeting Download

Selecting System Greeting Download displays the page shown in figure. From this page, announcements for each language "Position" can be downloaded from the VSF memory as a back-up file. First, select the language position, click the Download button then follow the normal save file process to store the file to the PC.

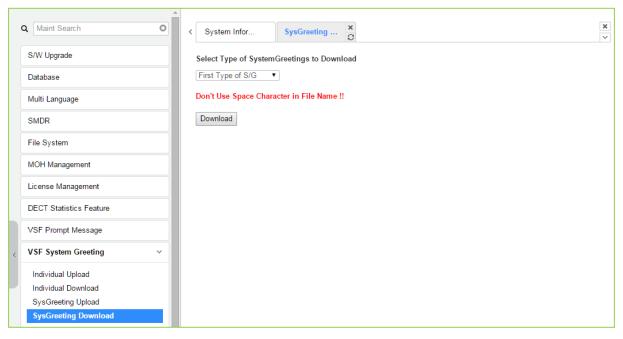


Figure 4.5.10.4-1 System Greeting Download

4.5.11 User Greeting

Administrators can upload or download User greeting to System. So User greetings are available to use at iPECS phones.

4.5.11.1 User Greeting Upload

To upload the User Greeting, complete the following steps:

- 1) Click [Select File] button.
- 2) Select the User greeting file (rom file) from folder.
- 3) Click [Start] to upload and then display the following figure 'success'.

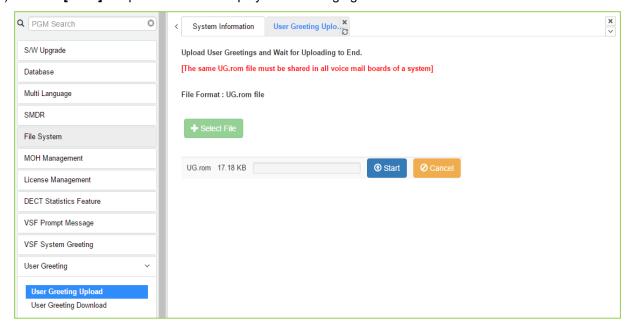


Figure 4.5.11.1-1User Greeting Upload

4.5.11.2 User Greeting Download

To download the User Greeting from System, complete the following steps:

- 1) Click [Download] button.
- 2) The tab will be displayed at the left bottom of page. Click the arrow box and select **[Open]** to show.

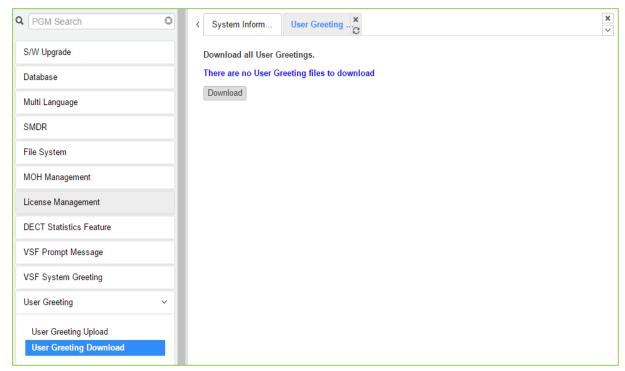


Figure 4.5.11.2-1User Greeting Download

4.5.12 Company Directory

Administrators can upload or download company directories to System. So company directories are available to use at iPECS phones.

4.5.12.1 CDN Upload

To upload the Company Directory, complete the following steps:

- 1) Click [Select File] button.
- 2) Select the Company Directory file (rom file) from folder.
- 3) Click [Start] to upload and then display the following figure 'success'.

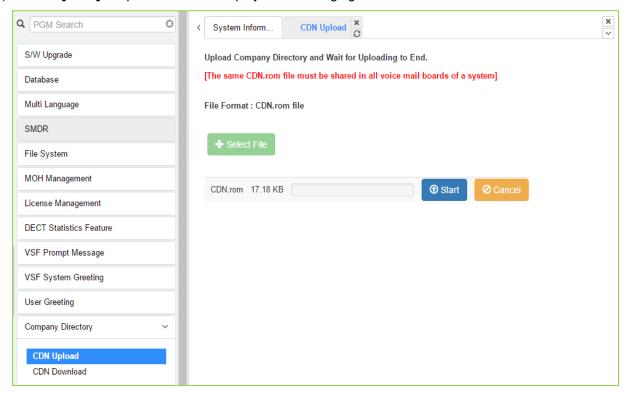


Figure 4.5.12.1-1CDN Upload

4.5.12.2 CDN Download

To download the Company Directory from System, complete the following steps:

- 1) Click [Download] button.
- 2) The tab will be displayed at the left bottom of page. Click the arrow box and select **[Open]** to show.

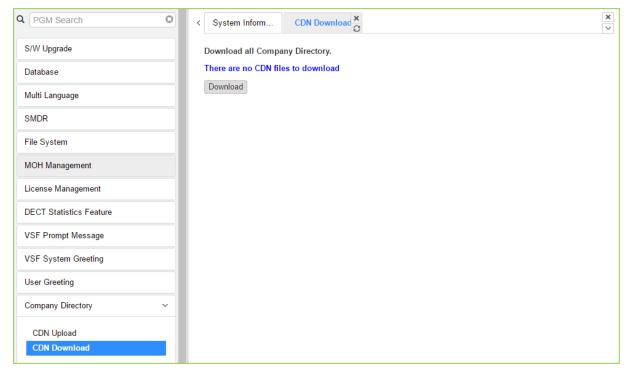


Figure 4.5.12.2-1CDN Download

4.5.13 Voice Mail Management

The Voice Mail Management permits the administrator to view the status of the built-in Voice Mail boxes and delete the all messages, delete messages for specific stations, or back-up all the messages to the PC.

4.5.13.1 Voice Mail Delete

Selecting Voice Mail Delete displays the page as shown in figure. From this page, messages stored in the VMIU (VMIB) can be deleted for all stations or a station range. In addition, using the "Display Station Voice Mail Status" button, the number of messages for each station is displayed.

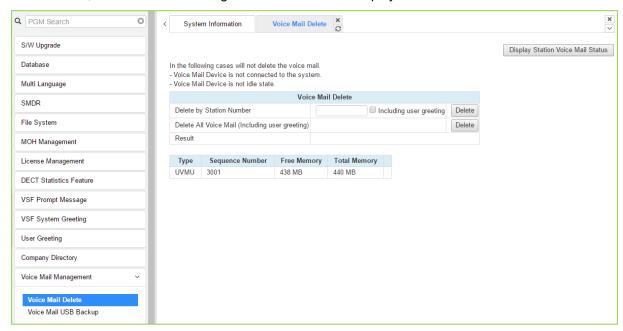


Figure 4.5.13.1-1 Voice Mail Delete

A user can delete user greeting if you set "Including user greeting" option when a user delete voice mail.

4.5.13.2 Voice Mail USB Backup

Selecting Voice Mail Backup displays the page shown in figure.

In case of eMG, this page permits the Administrator to send all Voice messages in the VMIU/VMIB memory to the USB port of the KSU. Note the VSF must be idle and a USB memory device installed in the system. The eMG800 has only [Backup Voice Mail to USB (VMIU)].

In case of UCP, this page permits the Administrator to send all Voice messages in the VSF gateway memory to the USB port of the UCP module. Note the VSF gateway must be idle and a USB memory device installed in the UCP module. The UCP2400& vUCP and eMG100 doesn't support Voice mail USB Backup. vUCP/eMG100 support Voice Mail Web Backup/Restore.

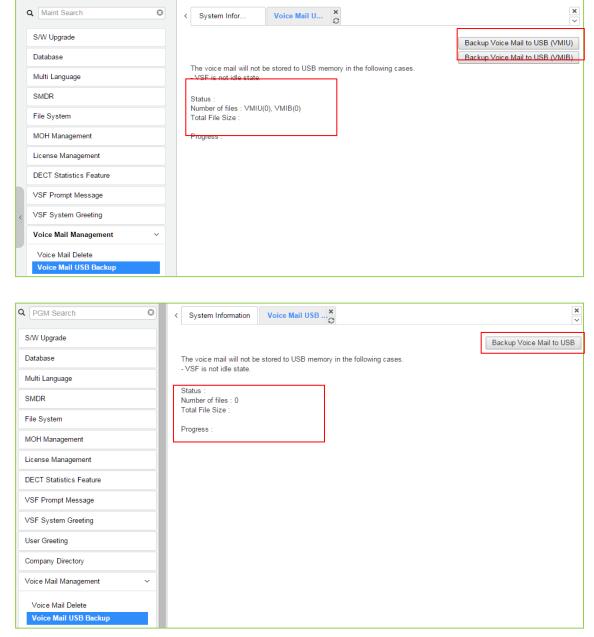


Figure 4.5.13.2-1 Voice Mail USB Backup

To back up Voice Mail, click the backup Voice Mail to USB button. User can find all information about the status, Number of files, Total file size, and the percentage of Progress by text.

4.5.14 Function program

The Function Program allows the administrator to build a set of programs with attributes in a structure customized to the administrator. The Function programs can then be accessed under the Administration pages using the "Function Base" button at the top of the left navigation page. Single level and multi-level programs can be structured. The User Function Management permits functions to be deleted or, with the "Add Function" button, new program functions can be added.

4.5.14.1 User Function Management Page

Selecting User Function Management displays the page shown in figure. Using the check box and Delete button Function programs previously saved can be deleted.

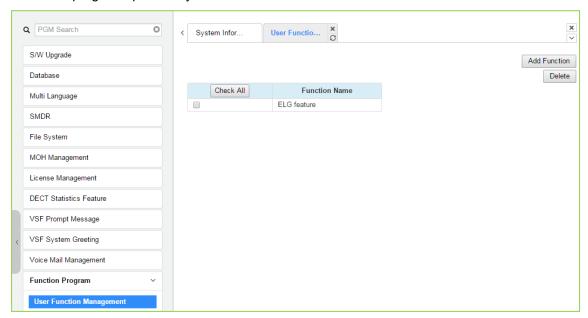


Figure 4.5.14.1-1 User Function Management Page

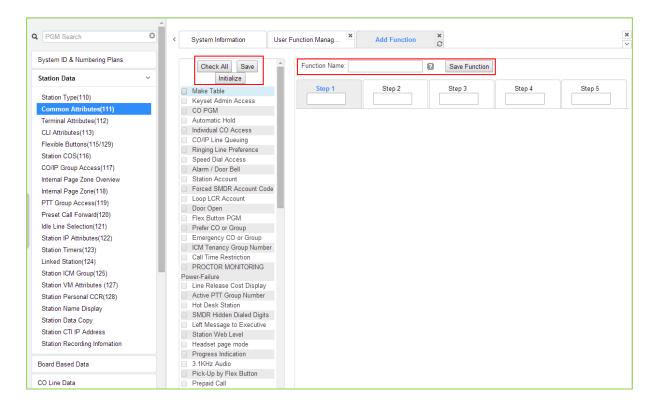
Adding Function

This step is divided into 5 steps and you can make the desired function each step. The following is the guide to make Name and add the function on each step:

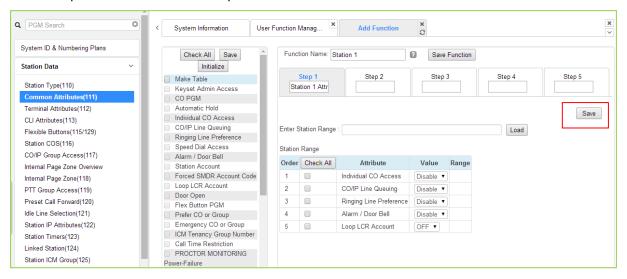
- To enter the function name, English, Numbering, Underscore (_) and Parentheses are available. Function name has to be filled out.
- To enter the step name, English, Numbering, and Special letters except Double quotation marks are available.
- The step name doesn't need to be filled out, but the function has to be configured each step.
- To cancel or close this tab, click the close button (X) and pop up the blow;



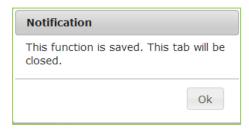
- 1) Click the Add Function button.
- 2) On the below window, click the desired PGM in the left frame. First fill out the function name and step name. To configure the step 1, click the Make table to check the desired function and then click the Save button.
 - Check All: check all functions
 - Save: Save the checked functions
 - · Initialize: Initialize the checked functions



3) The selected functions are displayed and click the Save button after checking each functions. The rest steps are the same as the step 1.



4) Finally, click the Save Function to save and then click the OK button.





5) To check the function, click Function Base button in the left frame and User Function List and you will see the following figure.

You can enable or disable the function by checking each function and then click the save after setting Value. Also move to each step by clicking the next button or Previous button.



Deleting Function

To delete the user function, click Maintenance at the top of window and then click the Function Program -> User Function Management. Check the desired function to delete and click the delete button.



4.5.15 User Management

The iPECS UCP supports up to 50 system accounts and up to ten (10) users may simultaneously access system Web services. The default ID is 'admin' and the password is '1234'. The Access privilege is determined based on the entered system account (ID/Password) and the privilege assigned for the user.

The REST API privilege is for REST API access account. The user can access and use REST API features.(SMDR, FLEXPAGE and CALL-API)This user can't access web admin.

Please follow up the below instructions to make User ID:

- Maximum 16 characters & digits.
- In English only.
- First letter must be Alphabet. The rest are available: Alphabet, number, underscore (_).
- Don't use 'blank'.

It is strongly recommended that a unique User ID and strong password be entered to minimize the risk of admin and maintenance access by unauthorized personnel.

User should register more than a maintenance ID.

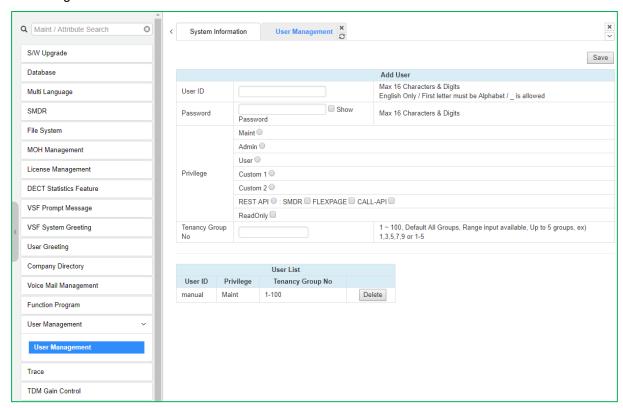


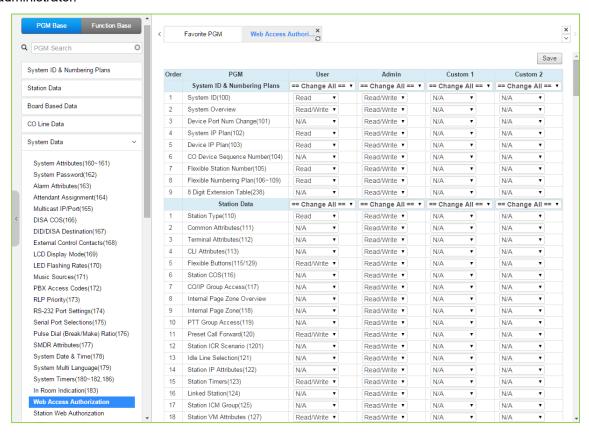
Figure 4.5.15-1 User Management

4.5.15.1 Company (Tenant group) Administrator Account

The main (maintenance) administrator of the system can make new administrator account for each tenant group. The tenant group administrator can configure the system according to tenant group and 'Web access authorization' in System Data. Managing the available feature will be assigned Web Access Authorization in System Data.

Web Access Authorization

>Program Custom#1 and #2 privilege columns by selecting N/A, Read, Read/Write for Tenant group administrator.



User Management: add User account for Tenant group administrator.

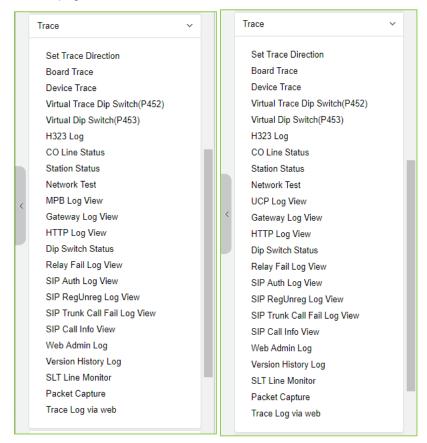
- 1) Enter ID and Password.
- 2) Select Custom 1 or Custom 2.
- 3) Enter the desired Tenant group number.
 - UCP100/600/2400: 100 Groups
 - eMG800: 32 Groups
 - eMG80/100: 15 Groups

Note) Maximum 50 users (including Maintenance, Admin and User privilege). The main administrator can't add Tenant group administrator account for all tenant group because the number of tenant group of UCP is 100.

- 4) Click [Save] button to create Account.
- 5) Log in with the account.
- 6) The available PGM menu will be displayed by assigning 'Web Access Authorization'.

4.5.16 Trace

The system software incorporates routines to monitor and output detailed call and feature processing information, and event logs. Information is provided on a system or device level as requested. Administrators can find the information on this page.



[eMG80/100, eMG800]

[UCP]

Figure 4.5.16-1 Trace Main Page

We explain [Packet Capture] and [Trace Log via web] among them because it is very useful to use Web admin.

Packet Capture

A user can start and stop capturing packets and download packet capture result. The dump file will be replaced when new capturing is started.

Default option is included. The file name is packetdump.cap. -i eth0 -w packetdump.cap -c 10000

Option explanation

protocol filter: tcp or udp or icmp

port filter: both source and destination port -> port #number, source port -> src port #number, destination port -> dst port #number

IP filter: both source and destination host IP -> host #IP_ADDR, source host IP -> src host #IP_ADDR, destination host IP -> dst host #IP_ADDR

Example) UDP and Port 5588 and Source IP address 10.1.1.100: udp and port 5588 and src host 10.1.1.100

Trace Log via web

A user can start and stop logging and download trace log result. The log file will be replaced when new logging is started.

- 1) Set 'Trace Attribute' to 'COM1(UART1)' from 'Set Trace Direction' menu.
- 2) Set 'Board Trace', 'Device Trace' and 'Virtual Trace Dip Switch(P452)' menu.
- 3) Click [Start] button.

4.5.17 TDM Gain Control

Control voice gain of TDM device for each direction. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing Value arbitrarily.

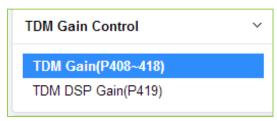


Figure 4.5.17-1 TDM Main Page

4.5.18 IP Gain Control

Audio gain for signals from and to each type of device is adjustable through the IP Gain Control page. The default gain values for the system are set to match the Nation Code. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing Value arbitrarily.

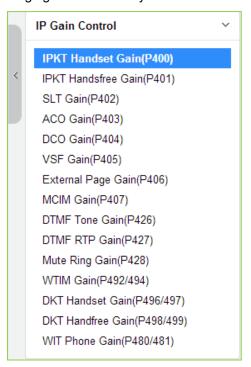


Figure 4.5.18-1 IP Gain Control Main Page

4.5.19 Tone/ Ring Gain & Cadence Control

Selecting Tone Table will display the page shown. Here the tones, cadence and gain used with features can be managed. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing Value arbitrarily.

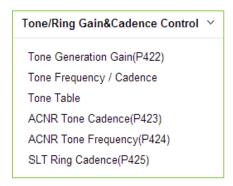


Figure 4.5.19-1 Tone/Ring Gain & Cadence Control Main Page

Control system tone/ring cadence and frequency.

System announcement or music can be provided instead of system ring/tone if it is assigned in tone table.

4.5.20 Appliances Control

The Appliances Control page permits control of several characteristics of IP phones and analog CO lines such as Comfort Noise level and side tone. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing Value arbitrarily.



Figure 4.5.20-1 Appliances Control Main Page

4.5.21 Web Certificate

SSL stands for Secure Sockets Layer, a global standard security technology that enables encrypted communication between a web browser and a web server. It is utilized by millions of online businesses and individuals to decrease the risk of sensitive information (e.g. credit card numbers, user names, passwords, emails, etc.) from being stolen or tampered with by hackers and identity thieves. In essence, SSL allows for a private "conversation" just between the two intended parties. To create this secure connection, an SSL certificate (also referred to as a "digital certificate") is installed on a web server and serves two functions:

- It authenticates the identity of the website (this guarantees visitors that they're not on a bogus site)
- It encrypts the data that's being transmitted.

The web server certificated must have a domain name however default web certificate of a system has no information for domain. So, a web browser displays warning message about ERR_CERT_AUTHORITY_INVALID.

To clear this warning, an administrator has to issue a certificate for the system. There is a need to generate own self signed certificate in order to mitigate the vulnerability of security and do not display the caution popup such as 'un-trusted site' because the system use IP address or URL. This certificate is needed to use 'https://XXX', not 'http://xxx'.

To create Certificate

Please must check date and time. The certificate will not operate well on PC or Mobile device if the time of certificate issued on between system and PC or Mobile device is different.

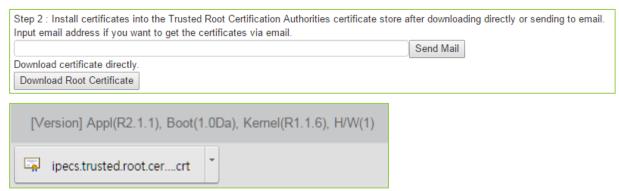
1) **Step 1:** Enter Domain name and then click **[Issue]** button. The certificate will be used for IP address of this system if Domain name is not entered as blank.



The following result is displayed on browser.



- 2) Step 2: Install Certificates into the Trusted Root Certification Authorities certificate store after downloading directly as below picture or sending to email for installing the desired devices if you want to get the certificates via email.
 - The way to install Certificates is followed by the type of Windows OS, Android OS, or iOS OS.



Step 3: Restart Web server to apply New certificate by clicking [Web Server Restart] button.
 Note) Clean up all certificate and file by clicking [Server Certificate Clean up] button.

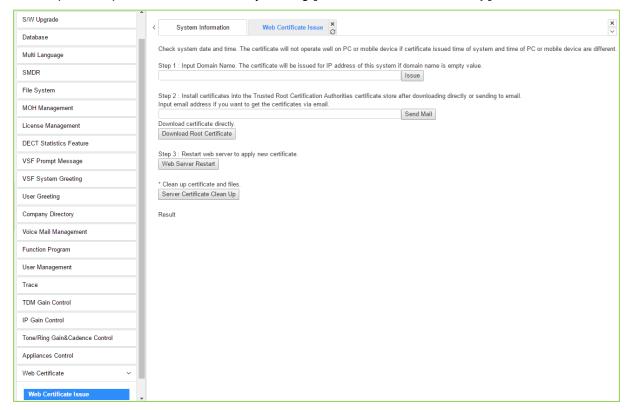


Figure 4.5.21-1 Web Certificate Issue

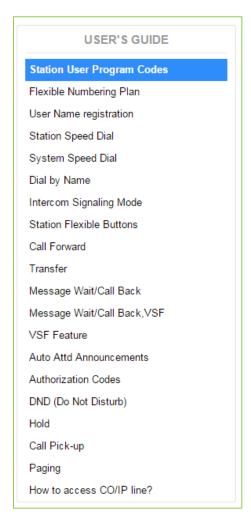
4.6 On-Line web user guide

We provide On-line web user guide about the frequent use of features to a user.

You can access it in the login page as below without entering ID and Password.

We didn't explain the user guide because you can easily get the information on the following features on the web.





5 Appendix A: Program Codes

User and Attendant Program Codes, refer to Table A-1 and A-2, are digit sequences users and the Attendant may dial while in the User Program Mode to assign Flex buttons and affect the status of a feature or setting. For more information on the User Program Mode, refer to the iPECS Features and Operation Manual.Many of these codes may be assigned to a button of an iPECS IP or LDP Phone by pressing the **[PGM]** button as the first entry of a Flexible button assignment, see Flex button Programming in the iPECS Features and Operation Manual.

Code Description Description 11X Intercom Differential Ring 82 (COLR) Button Assignment 12X CO Line Differential Ring 83 (ATD DND) button assignment Intercom Answer Mode (1: HF/2: TONE/3: PV) 13 84 (Account Code) Button Assignment 14X Call Coverage Attribute Setting 85 {LOOP} Button Assignment 15X Station Ring Download 86 (ATD Intrusion) Button Assignment 87 (INTERCOM) Button Assignment 21 Knock Down Station COS Restore Station COS 88 (Camp-on) Button Assignment (Send Keypad Facility IE) Button Assignment 23 Walking COS 89 VM Mobile Notify (OHVO) Button Assignment 31 Message Retrieve Method 8*1 DID Restiction Button Assignment 8*2 DISA Restiction Button Assignment 32 Message Retrieve Example 8*3 Bomb Threat History Button Assignment 33 User Authorization Code Registration Headset Button Assignment 8*5 DID Call Wait 34 Toggle Ring Mode Button Assignment 8*6XYZA 35 Message Wait in Executive/Secretary pair X,Y,Z,A: 1(Day), 2(Night), 3(Timed), 4(Auto) Send SMS Message 90 36 (SPEED) Button Assignment 37 Register Mobile Extension (CONFERENCE) button assignment 38 Make Mobile Extension active 92 {CALLBACK} button assignment 39 Register Mobile Extension CLI 93 (DND) button assignment 41 Set Wake-Up Time 94 (FLASH) button assignment 42 Wake-Up Time Disable 95 (MUTE) button assignment 51XX Custom/Pre-select Message Display (XX = 00-20) 96 (MONITOR) button assignment 52 Register Custom Message (Message 00) 97 (REDIAL) button assignment 53 Active Conference Room 98 (CALL FORWARD) button assignment Deactive Conference Room 54 99 (PTT) button assignment 9*XX CONF Group Monitor (In-Room Indication) button assignment (XX = 01-10) 551 552 CONF Group Active *6XXX Set Forced Fwd Dest (XXX; hunt group no.) CONF Group Deactive *7XXX 553 Forced FWD To Dest (XXX : hunt group no.) (Call Log Display) Button Assignment *8 Register Bluetooth 61 *9 Headset/Speakerphone Mode Bluetooth Usage *0 62 Change Ring Mode Hotdesk Login Hotdesk Logout 71 LCD Display Mode 72 Version Display [1] STA RING TYPE [2] CO RING TYPE 73 Background Music 74 Station User Name Registration 75 Display Phone IP Address [3] ANSWER MODE [4] CALL COVER ATTR 76 Change Phone IP Address 77 Display Phone MAC Address [5] STA RING DOWNLOAD 78 [1] RING/NEWKEYSET 79 Display Phone Version 7# Forced Release Button Assignment [1] COS DOWN [2] COS RESTORE 80 (Record) Button Assignment - With Voice Mail 81 (CLIR) Button Assignment [3] WALKING COS

Table A-1Station User Program codes

Table A-2 Attendant User Program Codes

CODE	FUNCTION
0111	Print SMDR, by Station
0112	Delete SMDR, by Station
0113	Display Call Charge

CODE	FUNCTION
0114	Abort Print
0115	Print Lost Call Report
0116	Delete Lost Call Report
0121	Print Traffic Analysis (All summary)
0122	Print Traffic Analysis (All summary periodically)
0123	Abort "Print Traffic Analysis (All summary periodically)"
0124	Print Traffic Analysis (Attendant)
0125	Print Traffic Analysis (Call summary)
0126	Print Traffic Analysis (Call Hourly)
0127	Print Traffic Analysis (H/W Usage)
0128	Print Traffic Analysis (CO summary)
0129	Print Traffic Analysis (CO Hourly)
021	Set ICM only Mode
022	Restore Station COS
031	Authorization Code Registration
032	Erase Authorization
040	Reset Group Wake Up
041	System Date/Time set
042	LCD Date Mode
043	LCD Time Mode
044	Set Wake Up Time from Attendant
045	Wake Up Disable from Attendant
046	PX Clock Set through ISDN message
047	Hot Desk login
048	Hot Desk logout
049	Set Group Wake Up
051	Custom/Pre-select Message
052	DND/Call Forward/Pre-selected MSG Cancel
053	Custom Display Message (11-20)
054	Monitor Conference Room
055	Delete Conference Room
06	VSF – Record System Greeting
071	Register Station Name
072	Isolate CO Fault Line
073	Automatic Day/Night/Timed Ring Table
074	External Page Music -1 Assignment/Cancel
075	External Page Music -2 Assignment/Cancel
076	LCD Display Language
077	PTT Login / Logout
078	Display CPU redundancy state
079	Font Set
070	Contrast Set
08	Emergency History about emergency call
*#	Admin Programming Code to enter

6 Appendix B: Flexible Numbering Plan (Web based)

The System Numbering Plan can be selected from 1 of 9 basic Numbering Plans. Table B-1 provides a brief description of the plans and Table B-2 for eMG and Table B-3 for UCP provide the Numbering Plan codes for each of the nine basic plans. The Number Plan is selected in Program 100 and individual codes in the plan can be changed using the Flexible Numbering Plan Programs106 to 109.

Table B-1 Numbering Plan Description

Plan Number	Description	eMG80/100	eMG800	UCP
1	Basic Numbering Plan	100 - 239	1000-2199	1000 – 3399
2	The station number can be within 799	100 - 239	1000-2199	1000 – 3399
3	Australia Default	100 - 239	1000-2199	1000 – 3399
4	New Zealand Default	700-839	7000-8199	1000 – 3399
5	Italy Default	200-339	2000-3199	2000– 4399
6	Finland Default	210 – 349	2100-3299	2100 –4499
7	Default for Sweden	100-239	1000-2199	1000 – 3399
8	Default for Norway	100-239	1000-2199	1000 – 3399
9	Default for Israel	100-239	1000-2199	1000 – 3399

Table B-2-1eMG 80Basic Numbering Plan 1-4, Default Values

	Facture		Basic Numbering Plan						
	Feature	1	2	3	4	Remark			
	Intercom Call	100 ~239	100-239	100-239	700-839				
1	Internal Page Zone	301~335	*301~*335	*101~*135	#101~#135				
2	Internal All Call Page	543	*543	#3	#3				
3	Meet Me Page	544	*544	##	##				
4	External Page Zone 1	545	*545	#41	#41				
5	External All Call Page	548	*548	#5	#5				
6	All Call Page (Internal/External)	549	*549	#00	#00				
7	SMDR Account Code Enter	550	*550	550	550	SLT			
8	Flash Command to CO Line	551	*551	551	551	SLT			
9	SLT Last Number Redial	552	*552	552	552	SLT			
10	Do Not Disturb (Toggle On/Off)	553	*553	553	553	SLT			
11	Call Forward	554	*554	554	554				
12	Speed Dial Programming	555	*555	555	555	SLT			
13	Activate Message Wait/Callback	556	*556	556	556	SLT			
14	Message Wait/Callback Answer	557	* 557	557	557	SLT			
15	SLT Speed Dial Access	558	* 558	558	558	SLT			
16	DND/FWD Cancel	559	* 559	559	559	SLT			
17	SLT CO System Hold	560	* 560	560	560	SLT			
18	SLT Program Mode Access	561	* 561	561	561	SLT			
19	Attendant Unavailable	562	* 562	562	562				

Table B-2-1eMG 80Basic Numbering Plan 1-4, Default Values

		Remark
21 Alarm Reset 565 * 565 * 565 22 Group Call Pickup 566 ** ** *1 23 Universal Night Answer 567 * 567 567 567 24 Account Code with bin 568 * 568 568 568 25 Walking COS 569 * 569 569 569 26 ACD agent On/Off Duty 571 * 571 571 571 27 ACD Supervisor Login 572 * 572 572 572 28 ACD Supervisor Logout 573 * 573 573 573 29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 31 ACD Supervisor Status 576 * 576 576 32 ACD Supervisor Monitor 577 * 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35		
22 Group Call Pickup 566 ** ** *1 23 Universal Night Answer 567 * 567 567 567 24 Account Code with bin 568 * 568 568 568 25 Walking COS 569 * 569 569 569 26 ACD agent On/Off Duty 571 * 571 571 571 27 ACD Supervisor Login 572 * 572 572 572 28 ACD Supervisor Logout 573 * 573 573 573 29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 575 31 ACD Supervisor Status 576 * 576 576 576 32 ACD Supervisor Monitor 577 * 577 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 579 35 Camp-On Answer		
22 Group Call Flokup 23 Universal Night Answer 567 * 567 567 567 24 Account Code with bin 568 * 568 568 568 25 Walking COS 26 ACD agent On/Off Duty 571 * 571 571 571 27 ACD Supervisor Login 572 * 572 572 572 28 ACD Supervisor Logout 573 * 573 573 573 29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 31 ACD Supervisor Status 576 * 576 576 32 ACD Supervisor Monitor 577 * 577 577 33 ACD Reroute Queued Call Answer ACD Reroute Queued Call No answer 579 * 579 579 579 570 571 572 573 574 575 575 577 577 577 577		
24 Account Code with bin 568 * 568 568 568 25 Walking COS 569 * 569 569 569 26 ACD agent On/Off Duty 571 * 571 571 571 27 ACD Supervisor Login 572 * 572 572 572 28 ACD Supervisor Logout 573 * 573 573 573 29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 575 31 ACD Supervisor Status 576 * 576 576 576 32 ACD Supervisor Monitor 577 * 577 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 * 521 36 Call Park Locations # 601~#619 # 601 - # 619 # 601 - # 619 # 601 - # 619 <td< td=""><td></td><td></td></td<>		
25 Walking COS 569 * 569 569 569 26 ACD agent On/Off Duty 571 * 571 571 571 27 ACD Supervisor Login 572 * 572 572 572 28 ACD Supervisor Logout 573 * 573 573 573 29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 31 ACD Supervisor Status 576 * 576 576 32 ACD Supervisor Monitor 577 * 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - # 619 #601		
26 ACD agent On/Off Duty 571 * 571 571 571 27 ACD Supervisor Login 572 * 572 572 572 28 ACD Supervisor Logout 573 * 573 573 573 29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 31 ACD Supervisor Status 576 * 576 576 576 32 ACD Supervisor Monitor 577 * 577 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - # 619 #601		
27 ACD Supervisor Login 572 * 572 572 572 28 ACD Supervisor Logout 573 * 573 573 573 29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 575 31 ACD Supervisor Status 576 * 576 576 576 32 ACD Supervisor Monitor 577 * 577 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - #619 #601		
28 ACD Supervisor Logout 573 * 573 573 29 ACD Help Code 574 * 574 574 30 ACD Calls In Queue Display 575 * 575 575 31 ACD Supervisor Status 576 * 576 576 32 ACD Supervisor Monitor 577 * 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - #619 #601		
29 ACD Help Code 574 * 574 574 574 30 ACD Calls In Queue Display 575 * 575 575 575 31 ACD Supervisor Status 576 * 576 576 576 32 ACD Supervisor Monitor 577 * 577 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - #619 #601		
30 ACD Calls In Queue Display 575 * 575 575 31 ACD Supervisor Status 576 * 576 576 32 ACD Supervisor Monitor 577 * 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - #619 #601		
31 ACD Supervisor Status 576 * 576 576 576 32 ACD Supervisor Monitor 577 * 577 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - #619 #601		
32 ACD Supervisor Monitor 577 * 577 577 33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - # 619 #601		
33 ACD Reroute Queued Call Answer 578 * 578 578 34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - #619 #601		
34 ACD Reroute Queued Call No answer 579 * 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - # 619 #601		
34 answer 579 * 579 579 579 35 Camp-On Answer 621 * 621 * 521 * 521 36 Call Park Locations #601~#619 #601 -# 619 #601 - # 619 #601		
36 Call Park Locations #601~#619 #601 -# 619 #601 - #619 #601		
		SLT
37 Station Group Pilot Number 401~449 *401 - *440 *620 - *659 *620	l <i>–</i> #619	
) – *659	
38 Station User VSF Features Access *66 66 *78 *78		
39 Call Coverage Ring 76 *76 *76 *76		
40 Direct Call Pickup *77 *77 *77		
41 Access CO Group 89 89 #89 #89		
42 Access Individual CO/IP Line 88 88 #88 #88		
43 Access Held CO/IP 8* 8* #8* #8*		
44 Access Held Individual CO/IP 8# 8# #8# #8#		
45 Access CO in First CO Group 9 9 9		
46 Attendant Call 0 0 9		
47 VM Message Wait Enabled *8 *8 *8 *8		
48 VM Message Wait cancel *9 *9 *9 *9		
49 Door Open (1st Door) #*1 #*1 #*1 #*1		
50 Door Open (2nd Door) #*2 #*2 #*2 #*2		
51 MCID Request *0 *0 *0 *0		
Unsupervised conference time Extension code ## ## *## *##		
53 PTT Group Login/Logout #0 #0 #*0 #*0		
54 ACD Agent primary login 581 * 581 581 581		
55 ACD Agent primary logout 582 * 582 582 582		
56 ACD Agent secondary login 583 * 583 583		
57 ACD Agent secondary logout 584 * 584 584 584		
58 Wrap-up end 585 * 585 585		
59 T-NET CM Login/out 586 * 586 586 586		

Table B-2-1eMG 80Basic Numbering Plan 1-4, Default Values

	Facture		Basic	Numbering P	lan	
	Feature	1	2	3	4	Remark
60	Enter Into Conf-Room	59	* 59	*59	*59	
61	Enter Into Conf-Group	68	* 68	*79	*79	
62	Station ICR	587	* 587	587	587	
63	Pick up Group Pick-Up	588	* 588	588	588	
64	Emergency Page	589	* 589	589	589	
65	Remote Mobile Extension Control	580	* 580	580	580	
66	ACDagent ON/OFF Duty-All group	58*	* 58*	58*	58*	
67	SLT ACNR	58#	* 58#	58#	58#	
68	ACD Supervisor Ring Mode	570	* 570	570	570	
69	Company Directory Name	563	* 563	563	563	
70	ISDN Supplementary Hold	57*	*57*	57*	57*	
71	ISDN Supplementary Conf	57#	*57#	57#	57#	
72	Forced Channel Seize	56*	*56*	56*	56*	
73	Override DND/Forward	56#	*56#	56#	56#	
74	Cancel Call Back					
75	Transfer to VSF Number	55*	*55*	55*	55*	
76	CCR	#2	#2	#2	#2	
77	Room type conf Group join	5*0	5*0	5*0	5*0	
77	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
78	Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset
70	Ctation Chard Diel Access	[SPEED]	[SPEED] +	[SPEED] +	[SPEED] +	
79	Station Speed Dial Access	+ XXX	XXX	XXX	XXX	
80	System Speed Dial Assess	[SPEED]	[SPEED] +	[SPEED] +	[SPEED] +	
80	System Speed Dial Access	+ XXXX	XXXX	XXXX	XXXX	

Table B-2-2eMG80Basic Numbering Plan 5-9, Default Values

	F4		Basic	Numbering	Plan		
	Feature	5	6	7	8	9	Remark
	Intercom Call	200-339	210-349	100-239	100-239	100 ~239	
1	Internal Page Zone	*101-*135	*301-*335	401- 429	*301- *335	301~335	
2	Internal All Call Page	#3	*543	43	*543	543	
3	Meet Me Page	##	*544	44	*544	544	
4	External Page Zone 1	#41	*545	45	*545	545	
5	External All Call Page	#5	*548	48	*548	548	
6	All Call Page (Internal/External)	#00	*549	49	*549	549	
7	SMDR Account Code Enter	50	*550		*550	550	SLT
8	Flash Command to CO Line	51	*551	51	*551	551	SLT
9	SLT Last Number Redial	52	*552	52	*552	552	SLT
10	Do Not Disturb (Toggle On/Off)	53	*553	53	*553	553	SLT

Table B-2-2eMG80Basic Numbering Plan 5-9, Default Values

	_		Basic	Numbering	Plan		
	Feature	5	6	7	8	9	Remark
11	Call Forward	54	*554	54	*554	554	
12	Speed Dial Programming	55	*555	55	*555	555	SLT
13	Activate Message Wait/Callback	56	*556	56	*556	556	SLT
14	Message Wait/Callback Answer	57	*557	57	*557	557	SLT
15	SLT Speed Dial Access	58	*558	58	*558	558	SLT
16	DND/FWD Cancel	59	*559	59	*559	559	SLT
17	SLT CO System Hold	690	*560	*10	*560	560	SLT
18	SLT Program Mode Access	691	*561	50	*561	561	SLT
19	Attendant Unavailable	692	*562	*12	*562	562	
20	AME Feature	694	*564	*36	*564	564	
21	Alarm Reset	695	*565	*13	*565	565	
22	Group Call Pickup	**	*566	*14	*566	**	
23	Universal Night Answer	697	*567	*15	*567	567	
24	Account Code with bin	698	*568	*16	*568	568	
25	Walking COS	699	*569	*17	*569	569	
26	ACD agent On/Off Duty	671	*571	*20	*571	571	
27	ACD Supervisor Login	672	*572	*21	*572	572	
28	ACD Supervisor Logout	673	*573	*22	*573	573	
29	ACD Help Code	674	*574	*23	*574	574	
30	ACD Calls In Queue Display	675	*575	*24	*575	575	
31	ACD Supervisor Status	676	*576	*25	*576	576	
32	ACD Supervisor Monitor	677	*577	*26	*577	577	
33	ACD Reroute Queued Call Answer	678	*578	*27	*578	578	
34	ACD Reroute Queued Call No answer	679	*579	*28	*579	579	
35	Camp-On Answer	621	*621	*29	*621	*621	SLT
36	Call Park Locations	#601–#619	#601–#619	601–619	#601–#619	#601~#619	
37	Station Group Pilot Number	720 – 759	*401 - *440	620 – 659	*401 - *440	620~659	
38	Station User VSF Features Access	*66	66	*11	66	*66	
39	Call Coverage Ring	*76	*76	*30	*76	76	
40	Direct Call Pickup	*77	*77	7	*77	*77	
41	Access CO Group	89	89	89	#89	89	
42	Access Individual CO/IP Line	88	88	88	#88	88	
43	Access Held CO/IP	8*	8*	8*	#8*	8*	
44	Access Held Individual CO/IP	8#	8#	8#	#8#	8#	

Table B-2-2eMG80Basic Numbering Plan 5-9, Default Values

	Basic Numbering Plan						
	Feature	5	6	7	8	9	Remark
45	Access CO in First CO Group	0	9	9	0	9	
46	Attendant Call	9	0	0	#9	0	
47	VM Message Wait Enabled	*8	*8	*8	*8	*8	
48	VM Message Wait cancel	*9	*9	*9	*9	*9	
49	Door Open (1st Door)	#*1	#*1	*31	#*1	#*1	
50	Door Open (2nd Door)	#*2	#*2	*32	#*2	#*2	
51	MCID Request	*0	*0	*35	*0	*0	(Except USA)
52	Unsupervised conference time Extension code	*##	##	*37	##	##	
53	PTT Group Login/Logout	#*0	#0	*38	#0	#0	
54	ACD Agent primary login	681	*581	*40	*581	581	
55	ACD Agent primary logout	682	*582	*41	*582	582	
56	ACD Agent secondary login	683	*583	*42	*583	583	
57	ACD Agent secondary logout	684	*584	*43	*584	584	
58	Wrap-up end	685	*585	*44	*585	585	
59	T-NET CM Login/out	686	*586	*45	*586	586	
60	Enter Into Conf-Room	*59	*59	*46	*59	59	
61	Enter Into Conf-Group	*68	*68	*47	*68	*68	
62	Station ICR	687	*587	*48	*587	587	
63	Pick up Group Pick-Up	688	*588	*49	*588	588	
64	Emergency Page	689	*589	*50	*589	589	
65	Remote Mobile Extension Control	680	*580	**	580	580	
66	ACDAgent ON/OFF Duty- All group	68*	*58*	*5#	*58*	58*	
67	SLT ACNR	68#	*58#	*51	*58#	58#	
68	ACD Supervisor Ring Mode	67*	*570	*52	*570	570	
69	Company Directory Name	*21	*563	*53	*563	563	
70	ISDN Supplementary Hold	*22	*57*	*54	*57*	57*	
71	ISDN Supplementary Conf	*23	*57#	*55	*57#	57#	
72	Forced Channel Seize	*24	*56*	*56	*56*	56*	
73	Override DND/Forward	*25	*56#	*57	*56#	56#	
74	Cancel Call Back			*58			
75	Transfer to VSF Number	*55	*55*	*59	*55*	55*	
76	CCR	#2	#2*		#2	#2	
77	Room type conf Group join	5*0	5*0	*61	5*0		
77	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
78	Save Number Redial	[Save]	[Save]	[Save]	[Save]	[Save]	Keyset

Table B-2-2eMG80Basic Numbering Plan 5-9, Default Values

	Factions	Basic Numbering Plan					
	Feature	5	6	7	8	9	Remark
70	Station Speed Diel Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	
79 St	Station Speed Dial Access	XXX	XXX	XXX	XXX	XXX	
00	Contain Crand Dial Assess	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	
80	System Speed Dial Access	XXXX	XXXX	XXXX	XXXX	XXXX	

Table B-3-1eMG 100 Basic Numbering Plan 1-4, Default Values

	_	Basic Numbering Plan				
	Feature	1	2	3	4	Remark
	Intercom Call	100 ~239	100-239	100-239	700-839	
1	Internal Page Zone	301~335	*301~*335	*101~*135	#101~#135	
2	Internal All Call Page	543	*543	#3	#3	
3	Meet Me Page	544	*544	##	##	
4	External Page Zone 1	545	*545	#41	#41	
5	External Page Zone 2	546	*546	#42	#42	
6	External All Call Page	548	*548	#5	#5	
7	All Call Page (Internal/External)	549	*549	#00	#00	
8	SMDR Account Code Enter	550	*550	550	550	SLT
9	Flash Command to CO Line	551	*551	551	551	SLT
10	SLT Last Number Redial	552	*552	552	552	SLT
11	Do Not Disturb (Toggle On/Off)	553	*553	553	553	SLT
12	Call Forward	554	*554	554	554	
13	Speed Dial Programming	555	*555	555	555	SLT
14	Activate Message Wait/Callback	556	*556	556	556	SLT
15	Message Wait/Callback Answer	557	* 557	557	557	SLT
16	SLT Speed Dial Access	558	* 558	558	558	SLT
17	DND/FWD Cancel	559	* 559	559	559	SLT
18	SLT CO System Hold	560	* 560	560	560	SLT
19	SLT Program Mode Access	561	* 561	561	561	SLT
20	Attendant Unavailable	562	* 562	562	562	
21	AME Feature	564	* 564	564	564	
22	Alarm Reset	565	* 565	565	* 565	
23	Group Call Pickup	566	**	**	*1	
24	Universal Night Answer	567	* 567	567	567	
25	Account Code with bin	568	* 568	568	568	
26	Walking COS	569	* 569	569	569	
27	ACD agent On/Off Duty	571	* 571	571	571	
28	ACD Supervisor Login	572	* 572	572	572	
29	ACD Supervisor Logout	573	* 573	573	573	
30	ACD Help Code	574	* 574	574	574	
31	ACD Calls In Queue Display	575	* 575	575	575	
32	ACD Supervisor Status	576	* 576	576	576	
33	ACD Supervisor Monitor	577	* 577	577	577	
34	ACD Reroute Queued Call Answer	578	* 578	578	578	
35	ACD Reroute Queued Call No answer	579	* 579	579	579	
36	Camp-On Answer	621	* 621	*521	*521	SLT
37	Call Park Locations	#601~#619	#601 -# 619	#601 – #619	#601 – #619	
38	Station Group Pilot Number	401~449	*401 – *440	*620 – *659	*620 – *659	
39	Station User VSF Features Access	*66	66	*78	*78	
40	Call Coverage Ring	76	*76	*76	*76	

Table B-3-1eMG 100 Basic Numbering Plan 1-4, Default Values

			Basic	: Numbering I	Plan	
	Feature	1	2	3	4	Remark
41	Direct Call Pickup	*77	*77	*77	*77	
42	Access CO Group	89	89	#89	#89	
43	Access Individual CO/IP Line	88	88	#88	#88	
44	Access Held CO/IP	8*	8*	#8*	#8*	
45	Access Held Individual CO/IP	8#	8#	#8#	#8#	
46	Access CO in First CO Group	9	9	9	0	
47	Attendant Call	0	0	0	9	
48	VM Message Wait Enabled	*8	*8	*8	*8	
49	VM Message Wait cancel	*9	*9	*9	*9	
50	Door Open (1st Door)	#*1	#*1	#*1	#*1	
51	Door Open (2nd Door)	#*2	#*2	#*2	#*2	
52	Door Open (3rd Door)	#*3	#*3	#*3	#*3	
53	Door Open (4th Door)	#*4	#*4	#*4	#*4	
54	MCID Request	*0	*0	*0	*0	
55	Unsupervised conference time Extension code	##	##	*##	*##	
56	PTT Group Login/Logout	#0	#0	#*0	#*0	
57	ACD Agent primary login	581	* 581	581	581	
58	ACD Agent primary logout	582	* 582	582	582	
59	ACD Agent secondary login	583	* 583	583	583	
60	ACD Agent secondary logout	584	* 584	584	584	
61	Wrap-up end	585	* 585	585	585	
62	T-NET CM Login/out	586	* 586	586	586	
63	Enter Into Conf-Room	59	* 59	*59	*59	
64	Enter Into Conf-Group	68	* 68	*79	*79	
65	Station ICR	587	* 587	587	587	
66	Pick up Group Pick-Up	588	* 588	588	588	
67	Emergency Page	589	* 589	589	589	
68	Remote Mobile Extension Control	580	* 580	580	580	
69	ACDagent ON/OFF Duty-All group	58*	* 58*	58*	58*	
70	SLT ACNR	58#	* 58#	58#	58#	
71	ACD Supervisor Ring Mode	570	* 570	570	570	
72	Company Directory Name	563	* 563	563	563	
73	ISDN Supplementary Hold	57*	*57*	57*	57*	
74	ISDN Supplementary Conf	57#	*57#	57#	57#	
75	Forced Channel Seize	56*	*56*	56*	56*	
76	Override DND/Forward	56#	*56#	56#	56#	
77	Cancel Call Back					
77	Transfer to VSF Number	55*	*55*	55*	55*	
78	CCR	#2	#2	#2	#2	
79	Room type conf Group join	5*0	5*0	5*0	5*0	
80	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset

Table B-3-1eMG 100 Basic Numbering Plan 1-4, Default Values

	Feature	Basic Numbering Plan						
	reature	1	2	3	4	Remark		
81	Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset		
82	Station Speed Dial Access	[SPEED]	[SPEED] +	[SPEED] +	[SPEED] +			
		+ XXX	XXX	XXX	XXX			
00	0 1 0 15:14	[SPEED]	[SPEED] +	[SPEED] +	[SPEED] +			
83	System Speed Dial Access	+ XXXX	XXXX	XXXX	XXXX			

Table B-3-2eMG100 Basic Numbering Plan 5-9, Default Values

	_ ,		Basic	c Numbering	g Plan		
	Feature	5	6	7	8	9	Remark
	Intercom Call	200-339	210-349	100-239	100-239	100 ~239	
1	Internal Page Zone	*101-*135	*301-*335	401- 429	*301- *335	301~335	
2	Internal All Call Page	#3	*543	43	*543	543	
3	Meet Me Page	##	*544	44	*544	544	
4	External Page Zone 1	#41	*545	45	*545	545	
5	External Page Zone 2	#42	*546	46	*546	546	
6	External All Call Page	#5	*548	48	*548	548	
7	All Call Page (Internal/External)	#00	*549	49	*549	549	
8	SMDR Account Code Enter	50	*550		*550	550	SLT
9	Flash Command to CO Line	51	*551	51	*551	551	SLT
10	SLT Last Number Redial	52	*552	52	*552	552	SLT
11	Do Not Disturb (Toggle On/Off)	53	*553	53	*553	553	SLT
12	Call Forward	54	*554	54	*554	554	
13	Speed Dial Programming	55	*555	55	*555	555	SLT
14	Activate Message Wait/Callback	56	*556	56	*556	556	SLT
15	Message Wait/Callback Answer	57	*557	57	*557	557	SLT
16	SLT Speed Dial Access	58	*558	58	*558	558	SLT
17	DND/FWD Cancel	59	*559	59	*559	559	SLT
18	SLT CO System Hold	690	*560	*10	*560	560	SLT
19	SLT Program Mode Access	691	*561	50	*561	561	SLT
20	Attendant Unavailable	692	*562	*12	*562	562	
21	AME Feature	694	*564	*36	*564	564	
22	Alarm Reset	695	*565	*13	*565	565	
23	Group Call Pickup	**	*566	*14	*566	**	
24	Universal Night Answer	697	*567	*15	*567	567	
25	Account Code with bin	698	*568	*16	*568	568	

Table B-3-2eMG100 Basic Numbering Plan 5-9, Default Values

			Basic	Numbering	ı Plan		
	Feature	5	6	7	8	9	Remark
26	Walking COS	699	*569	*17	*569	569	
27	ACD agent On/Off Duty	671	*571	*20	*571	571	
28	ACD Supervisor Login	672	*572	*21	*572	572	
29	ACD Supervisor Logout	673	*573	*22	*573	573	
30	ACD Help Code	674	*574	*23	*574	574	
31	ACD Calls In Queue Display	675	*575	*24	*575	575	
32	ACD Supervisor Status	676	*576	*25	*576	576	
33	ACD Supervisor Monitor	677	*577	*26	*577	577	
34	ACD Reroute Queued Call Answer	678	*578	*27	*578	578	
35	ACD Reroute Queued Call No answer	679	*579	*28	*579	579	
36	Camp-On Answer	621	*621	*29	*621	*621	SLT
37	Call Park Locations	#601 – #619	#601 – #619	601 – 619	#601 – #619	#601~#619	
38	Station Group Pilot Number	720 – 759	*401 - *440	620 – 659	*401 - *440	620~659	
39	Station User VSF Features Access	*66	66	*11	66	*66	
40	Call Coverage Ring	*76	*76	*30	*76	76	
41	Direct Call Pickup	*77	*77	7	*77	*77	
42	Access CO Group	89	89	89	#89	89	
43	Access Individual CO/IP Line	88	88	88	#88	88	
44	Access Held CO/IP	8*	8*	8*	#8*	8*	
45	Access Held Individual CO/IP	8#	8#	8#	#8#	8#	
46	Access CO in First CO Group	0	9	9	0	9	
47	Attendant Call	9	0	0	#9	0	
48	VM Message Wait Enabled	*8	*8	*8	*8	*8	
49	VM Message Wait cancel	*9	*9	*9	*9	*9	
50	Door Open (1st Door)	#*1	#*1	*31	#*1	#*1	
51	Door Open (2nd Door)	#*2	#*2	*32	#*2	#*2	
52	Door Open (3rd Door)	#*3	#*3	*33	#*3	#*3	
53	Door Open (4th Door)	#*4	#*4	*34	#*4	#*4	
54	MCID Request	*0	*0	*35	*0	*0	(Except USA)
55	Unsupervised conference time Extension code	*##	##	*37	##	##	
56		#*0	#0	*38	#0	#0	

Table B-3-2eMG100 Basic Numbering Plan 5-9, Default Values

57 58	Feature ACD Agent primary login	5		_	Basic Numbering Plan					
	ACD Agent primary login		6	7	8	9	Remark			
58	ACD Agent primary login	681	*581	*40	*581	581				
	ACD Agent primary logout	682	*582	*41	*582	582				
59	ACD Agent secondary login	683	*583	*42	*583	583				
60	ACD Agent secondary logout	684	*584	*43	*584	584				
61	Wrap-up end	685	*585	*44	*585	585				
62	T-NET CM Login/out	686	*586	*45	*586	586				
63	Enter Into Conf-Room	*59	*59	*46	*59	59				
64	Enter Into Conf-Group	*68	*68	*47	*68	*68				
65	Station ICR	687	*587	*48	*587	587				
66	Pick up Group Pick-Up	688	*588	*49	*588	588				
67	Emergency Page	689	*589	*50	*589	589				
68	Remote Mobile Extension Control	680	*580	**	580	580				
69	ACDAgent ON/OFF Duty- All group	68*	*58*	*5#	*58*	58*				
70	SLT ACNR	68#	*58#	*51	*58#	58#				
71	ACD Supervisor Ring Mode	67*	*570	*52	*570	570				
72	Company Directory Name	*21	*563	*53	*563	563				
73	ISDN Supplementary Hold	*22	*57*	*54	*57*	57*				
74	ISDN Supplementary Conf	*23	*57#	*55	*57#	57#				
75	Forced Channel Seize	*24	*56*	*56	*56*	56*				
76	Override DND/Forward	*25	*56#	*57	*56#	56#				
77	Cancel Call Back			*58						
77	Transfer to VSF Number	*55	*55*	*59	*55*	55*				
78	CCR	#2	#2*		#2	#2				
79	Room type conf Group join	5*0	5*0	*61	5*0					
80	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset			
81	Save Number Redial	[Save]	[Save]	[Save]	[Save]	[Save]	Keyset			
82	Station Speed Dial Access	[SPEED] + XXX	[SPEED] +	[SPEED] + XXX	[SPEED] + XXX	[SPEED] +				
83	System Speed Dial Access	[SPEED] + XXXX	[SPEED] +	[SPEED] + XXXX	[SPEED] +	[SPEED] +				

Table B-4-1eMG 800 Basic Numbering Plan 1-4, Default Values

			Basic	Numbering P	lan	
	Feature	1	2	3	4	Remark
	Intercom Call	1000-2199	1000-2199	1000-2199	1000-2199	
1	Internal Page Zone	*301~*400	*301~*335	*101~*135	#101~#135	
2	Internal All Call Page	543	*543	#3	#3	
3	Meet Me Page	544	*544	##	##	
4	External Page Zone 1	545	*545	#41	#41	
5	External All Call Page	548	*548	#5	#5	
6	All Call Page (Internal/External)	549	*549	#00	#00	
7	SMDR Account Code Enter	550	*550	550	550	SLT
8	Flash Command to CO Line	551	*551	551	551	SLT
9	SLT Last Number Redial	552	*552	552	552	SLT
10	Do Not Disturb (Toggle On/Off)	553	*553	553	553	SLT
11	Call Forward	554	*554	554	554	
12	Speed Dial Programming	555	*555	555	555	SLT
13	Activate Message Wait/Callback	556	*556	556	556	SLT
14	Message Wait/Callback Answer	557	* 557	557	557	SLT
15	SLT Speed Dial Access	558	* 558	558	558	SLT
16	DND/FWD Cancel	559	* 559	559	559	SLT
17	SLT CO System Hold	560	* 560	560	560	SLT
18	SLT Program Mode Access	561	* 561	561	561	SLT
19	Attendant Unavailable	562	* 562	562	562	
20	AME Feature	564	* 564	564	564	
21	Alarm Reset	565	* 565	565	* 565	
22	Group Call Pickup	566	**	**	*1	
23	Universal Night Answer	567	* 567	567	567	
24	Account Code with bin	568	* 568	568	568	
25	Walking COS	569	* 569	569	569	
26	ACD agent On/Off Duty	571	* 571	571	571	
27	ACD Supervisor Login	572	* 572	572	572	
28	ACD Supervisor Logout	573	* 573	573	573	
29	ACD Help Code	574	* 574	574	574	
30	ACD Calls In Queue Display	575	* 575	575	575	
31	ACD Supervisor Status	576	* 576	576	576	
32	ACD Supervisor Monitor	577	* 577	577	577	
33	ACD Reroute Queued Call Answer	578	* 578	578	578	
34	ACD Reroute Queued Call No	579	* 579	579	579	
34	answer	379	579	579	579	
35	Camp-On Answer	621	* 621	*521	*521	SLT
36	Call Park Locations	#601~#800	#601 -# 619	#601 – #619	#601 – #619	
37	Station Group Pilot Number	401~500	*401 – *440	*620 – *659	*620 – *659	
38	Station User VSF Features Access	*66	66	*78	*78	
39	Call Coverage Ring	76	*76	*76	*76	
40	Direct Call Pickup	*77	*77	*77	*77	

Table B-4-1eMG 800 Basic Numbering Plan 1-4, Default Values

			Basic	Numbering F	Plan	
	Feature	1	2	3	4	Remark
41	Access CO Group	89	89	#89	#89	
42	Access Individual CO/IP Line	88	88	#88	#88	
43	Access Held CO/IP	8*	8*	#8*	#8*	
44	Access Held Individual CO/IP	8#	8#	#8#	#8#	
45	Access CO in First CO Group	9	9	9	0	
46	Attendant Call	0	0	0	9	
47	VM Message Wait Enabled	*8	*8	*8	*8	
48	VM Message Wait cancel	*9	*9	*9	*9	
49	Door Open (1st Door)	#*1	#*1	#*1	#*1	
50	Door Open (2nd Door)	#*2	#*2	#*2	#*2	
51	MCID Request	*0	*0	*0	*0	
52	Unsupervised conference time Extension code	##	##	*##	*##	
53	PTT Group Login/Logout	#0	#0	#*0	#*0	
54	ACD Agent primary login	581	* 581	581	581	
55	ACD Agent primary logout	582	* 582	582	582	
56	ACD Agent secondary login	583	* 583	583	583	
57	ACD Agent secondary logout	584	* 584	584	584	
58	Wrap-up end	585	* 585	585	585	
59	T-NET CM Login/out	586	* 586	586	586	
60	Enter Into Conf-Room	59	* 59	*59	*59	
61	Enter Into Conf-Group	68	* 68	*79	*79	
62	Station ICR	587	* 587	587	587	
63	Pick up Group Pick-Up	588	* 588	588	588	
64	Emergency Page	589	* 589	589	589	
65	Remote Mobile Extension Control	580	* 580	580	580	
66	ACDagent ON/OFF Duty-All group	58*	* 58*	58*	58*	
67	SLT ACNR	58#	* 58#	58#	58#	
68	ACD Supervisor Ring Mode	570	* 570	570	570	
69	Company Directory Name	563	* 563	563	563	
70	ISDN Supplementary Hold	57*	*57*	57*	57*	
71	ISDN Supplementary Conf	57#	*57#	57#	57#	
72	Forced Channel Seize	56*	*56*	56*	56*	
73	Override DND/Forward	56#	*56#	56#	56#	
74	Cancel Call Back					
75	Transfer to VSF Number	55*	*55*	55*	55*	
76	CCR	#2	#2	#2	#2	
77	Room type conf Group join	5*0	5*0	5*0	5*0	
77	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
78	Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset
79	Station Speed Dial Access	[SPEED] + XXX	[SPEED] +	[SPEED] +	[SPEED] +	

Table B-4-1eMG 800 Basic Numbering Plan 1-4, Default Values

	Facture	Basic Numbering Plan							
	Feature	1	2	3	4	Remark			
80 S	System Speed Diel Assess	[SPEED]	[SPEED] +	[SPEED] +	[SPEED] +				
	System Speed Dial Access	+ XXXX	XXXX	xxxx	XXXX				

Table B-4-2eMG800 Basic Numbering Plan 5-9, Default Values

	_ ,		Basi	c Numbering	y Plan		
	Feature	5	6	7	8	9	Remark
	Intercom Call	2000-3199	2100-3299	1000-2199	1000-2199	1000-2199	
1	Internal Page Zone	*101-*135	*301-*335	401- 429	*301- *335	301~335	
2	Internal All Call Page	#3	*543	43	*543	543	
3	Meet Me Page	##	*544	44	*544	544	
4	External Page Zone 1	#41	*545	45	*545	545	
5	External All Call Page	#5	*548	48	*548	548	
6	All Call Page (Internal/External)	#00	*549	49	*549	549	
7	SMDR Account Code Enter	50	*550		*550	550	SLT
8	Flash Command to CO Line	51	*551	51	*551	551	SLT
9	SLT Last Number Redial	52	*552	52	*552	552	SLT
10	Do Not Disturb (Toggle On/Off)	53	*553	53	*553	553	SLT
11	Call Forward	54	*554	54	*554	554	
12	Speed Dial Programming	55	*555	55	*555	555	SLT
13	Activate Message Wait/Callback	56	*556	56	*556	556	SLT
14	Message Wait/Callback Answer	57	*557	57	*557	557	SLT
15	SLT Speed Dial Access	58	*558	58	*558	558	SLT
16	DND/FWD Cancel	59	*559	59	*559	559	SLT
17	SLT CO System Hold	690	*560	*10	*560	560	SLT
18	SLT Program Mode Access	691	*561	50	*561	561	SLT
19	Attendant Unavailable	692	*562	*12	*562	562	
20	AME Feature	694	*564	*36	*564	564	
21	Alarm Reset	695	*565	*13	*565	565	
22	Group Call Pickup	**	*566	*14	*566	**	
23	Universal Night Answer	697	*567	*15	*567	567	
24	Account Code with bin	698	*568	*16	*568	568	
25	Walking COS	699	*569	*17	*569	569	
26	ACD agent On/Off Duty	671	*571	*20	*571	571	
27	ACD Supervisor Login	672	*572	*21	*572	572	
28	ACD Supervisor Logout	673	*573	*22	*573	573	
29	ACD Help Code	674	*574	*23	*574	574	
30	ACD Calls In Queue Display	675	*575	*24	*575	575	

Table B-4-2eMG800 Basic Numbering Plan 5-9, Default Values

	Table 6-4-2ei			Numbering			
	Feature	5	6	7	8	9	Remark
31	ACD Supervisor Status	676	*576	*25	*576	576	Remark
32	ACD Supervisor Monitor	677	*577	*26	*577	577	
	ACD Reroute Queued Call	011			011	077	
33	Answer	678	*578	*27	*578	578	
	ACD Reroute Queued Call						
34	No answer	679	*579	*28	*579	579	
35	Camp-On Answer	621	*621	*29	*621	*621	SLT
36	Call Park Locations	#601-#619	#601–#619	601–619	#601–#619	#601~#619	
37	Station Group Pilot Number	720 – 759	*401 - *440	620 – 659	*401 - *440	620~659	
38	Station User VSF Features Access	*66	66	*11	66	*66	
39	Call Coverage Ring	*76	*76	*30	*76	76	
40	Direct Call Pickup	*77	*77	7	*77	*77	
41	Access CO Group	89	89	89	#89	89	
42	Access Individual CO/IP Line	88	88	88	#88	88	
43	Access Held CO/IP	8*	8*	8*	#8*	8*	
44	Access Held Individual CO/IP	8#	8#	8#	#8#	8#	
45	Access CO in First CO Group	0	9	9	0	9	
46	Attendant Call	9	0	0	#9	0	
47	VM Message Wait Enabled	*8	*8	*8	*8	*8	
48	VM Message Wait cancel	*9	*9	*9	*9	*9	
49	Door Open (1st Door)	#*1	#*1	*31	#*1	#*1	
50	Door Open (2nd Door)	#*2	#*2	*32	#*2	#*2	
51	MCID Request	*0	*0	*35	*0	*0	(Except USA)
52	Unsupervised conference time Extension code	*##	##	*37	##	##	
53	PTT Group Login/Logout	#*0	#0	*38	#0	#0	
54	ACD Agent primary login	681	*581	*40	*581	581	
55	ACD Agent primary logout	682	*582	*41	*582	582	
56	ACD Agent secondary login	683	*583	*42	*583	583	
57	ACD Agent secondary logout	684	*584	*43	*584	584	
58	Wrap-up end	685	*585	*44	*585	585	
59	T-NET CM Login/out	686	*586	*45	*586	586	
60	Enter Into Conf-Room	*59	*59	*46	*59	59	
61	Enter Into Conf-Group	*68	*68	*47	*68	*68	
62	Station ICR	687	*587	*48	*587	587	
63	Pick up Group Pick-Up	688	*588	*49	*588	588	
64	Emergency Page	689	*589	*50	*589	589	
65	Remote Mobile Extension Control	680	*580	**	580	580	

Table B-4-2eMG800 Basic Numbering Plan 5-9, Default Values

	Factions		Basic	c Numbering	Plan		
	Feature	5	6	7	8	9	Remark
66	ACDAgent ON/OFF Duty-All	68*	*58*	*5#	*58*	58*	
00	group	00	56	5#	56	56	
67	SLT ACNR	68#	*58#	*51	*58#	58#	
68	ACD Supervisor Ring Mode	67*	*570	*52	*570	570	
69	Company Directory Name	*21	*563	*53	*563	563	
70	ISDN Supplementary Hold	*22	*57*	*54	*57*	57*	
71	ISDN Supplementary Conf	*23	*57#	*55	*57#	57#	
72	Forced Channel Seize	*24	*56*	*56	*56*	56*	
73	Override DND/Forward	*25	*56#	*57	*56#	56#	
74	Cancel Call Back			*58			
75	Transfer to VSF Number	*55	*55*	*59	*55*	55*	
76	CCR	#2	#2*		#2	#2	
77	Room type conf Group join	5*0	5*0	*61	5*0		
77	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
78	Save Number Redial	[Save]	[Save]	[Save]	[Save]	[Save]	Keyset
70	Otation Consed Dial Assess	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	
79	Station Speed Dial Access	XXX	XXX	XXX	XXX	XXX	
90	System Chand Diel Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	
80	System Speed Dial Access	XXXX	XXXX	XXXX	XXXX	XXXX	

Table B-5-1UCP Basic Numbering Plan 1-4, Default Values

		Bas	ic Numbering	ı Plan	
Feature	1	2	3	4	Remark
Intercom Call	1000 ~3399	1000 ~3399	1000 ~3399	1000 ~3399	
Internal Page Zone	*301~*400	*301~*400	*101~*200	*301~*400	
Internal All Call Page	543	*543	#3	#43	
Meet Me Page	544	*544	##	##	
External Page Zone 1-2	545-546	*545-*546	#41-#42	#41-#42	
External All Call Page	548	*548	#5	#5	
All Call Page	549	*549	#00	#00	
SMDR Account Code Enter	550	*550	550	#9	SLT
Flash Command to CO Line	551	*551	551	551	SLT
SLT Last Number Redial	552	*552	552	552	SLT
DND (Toggle On/Off)	553	*553	553	553	SLT
Call Forward	554	*554	554	554	
Speed Dial Programming	555	*555	555	555	SLT
Activate Message Wait/Callback	556	*556	556	*66	SLT
Message Wait/Callback Answer	557	* 557	557	*67	SLT
SLT Speed Dial Access	558	* 558	558	#8	SLT
DND/FWD cancel	559	* 559	559	559	SLT
SLT CO System Hold	560	* 560	560	560	SLT
SLT Program Mode Access	561	* 561	561	561	SLT
Attendant Unavailable	562	* 562	562	562	
AME Feature	564	* 564	564	564	
Alarm Reset	565	* 565	565	* 565	
Group Call Pickup	566	* 566	**	*1	
Universal Night Answer	567	* 567	567	2	
Account Code with bin	568	* 568	568	568	
Walking COS	569	* 569	569	569	
ACD Agent On/Off Duty	571	* 571	571	571	
ACD Supervisor Login	572	* 572	572	572	
ACD Supervisor Logout	573	* 573	573	573	
ACD Help Code	574	* 574	574	574	
ACD Calls In Queue Display	575	* 575	575	575	
ACD Supervisor Status	576	* 576	576	576	
ACD Supervisor Monitor	577	* 577	577	577	
ACD Reroute Queued Call Answer	578	* 578	578	578	
ACD Reroute Queued Call NoAnswer	579	* 579	579	579	
Camp-On Answer	621	* 621	621	621	SLT
Call Parking Locations	#601~#800	#601~#800	#601~#800	#101~#300	
Station Group Pilot Number	401 – 500	*401 – *500	*401 – *500	#620 – #719	
Station User VSF Features Access	66x	66x	*66x	69x	x: 1 ~ 3
Call Coverage Ring	76	*76	*76	67	
Direct Call Pickup	77	*77	*77	*77	

Table B-5-1UCP Basic Numbering Plan 1-4, Default Values

_		Ва	ısic Numberii	ng Plan	
Feature	1	2	3	4	Remark
Access CO Group	89xx	89xx	89xx	89xx	xxx: 000~201,
Access Individual CO/IP Line	88xxx	88xxx	88xxx	48xxx	xxx: 001~999
Access Held CO/IP	8*	8*	8*	4*	
Access Held Individual CO/IP	8#xx	8#xx	8#xx	4#xx	xx: 01~74
Access CO in First CO Group	9	9	9	1	
Attendant Call	0	0	0	0	
VM Message Wait Enabled	*8	*8	*8	*8	
VM Message Wait Cancel	*9	*9	*9	*9	
Door Open (1st Door)	#*1	#*1	#*1	#*1	
Door Open (2nd Door)	#*2	#*2	#*2	#*2	
Door Open (3rd Door)	#*3	#*3	#*3	#*3	
Door Open (4th Door)	#*4	#*4	#*4	#*4	
MCID Request	*0	*0	*0	*0	
Unsupervised conference time Extension code	##	##	* ##	*22	
PTT Group Login/Logout	#0	#0	#*0	*21	
ACD Agent primary login	581	* 581	581	581	
ACD Agent primary logout	582	* 582	582	582	
ACD Agent secondary login	583	* 583	583	583	
ACD Agent secondary logout	584	* 584	584	584	
Wrap-up end	585	* 585	585	585	
T-NET CM Login/out	586	* 586	586	586	
Enter Into Conf-Room	59	* 59	* 59	59	
Enter Into Conf-Group	68	* 68	* 68	68	
Station ICR	587	* 587	587	587	
Pick up Group Pick-Up	588	* 588	588	588	
Emergency Page	589	* 589	589	589	
Remote Mobile Extension Control	580	* 580	580	580	
ACD Agent ON/OFF Duty-All group	58*	* 58*	58*	58*	
SLT ACNR	58#	* 58#	58#	58#	
ACD Supervisor Ring Mode	570	* 570	570	570	
Company Directory Name	563	* 563	563	563	
ISDN Supplementary Hold	57*	*57*	57*	57*	
ISDN Supplementary Conf	57#	*57#	57#	57#	
Forced Channel Seize	56*	*56*	56*	56*	
Override DND/Forward	56#	*56#	56#	56#	
Cancel Call Back					
Transfer to VSF Number	55*	*55*	55*	55*	
CCR	#2	#2	#2	#2	
Room type Conf Group join	5*0	5*0	5*0	5*0	
Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset

Table B-5-1UCP Basic Numbering Plan 1-4, Default Values

Factoria	Basic Numbering Plan						
Feature	1	2	3	4	Remark		
Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset		
Station Speed Diel Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXX:		
Station Speed Dial Access	XXX	XXX	XXX	XXX	000~099		
System Speed Diel Assess	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXXXX:		
System Speed Dial Access	XXXXX	XXXXX	XXXXX	XXXXX	20000~31999		

Table B-5-2UCP Basic Numbering Plan 5-9, Default Values

_ ,		E	Basic Numbe	ering Plan		
Feature	5	6	7	8	9	Remark
Intercom Call	2000-4399	2100-4439	1000-3339	1000-3339	1000-3339	
Internal Page Zone	*101-*200	*301-*400	301- 400	*301- *400	*301- *400	
Internal All Call Page	#3	*543	43	*543	543	
Meet Me Page	##	*544	44	*544	544	
External Page Zone 1-2	#41- #42	*545 - *546	45- 46	*545 - *546	545-546	
External All Call Page	#5	*548	48	548	548	
All Call Page	#00	*549	49	*549	549	
SMDR Account Code Enter	50	*550	0	*550	550	SLT
Flash Command to CO Line	51	*551	51	*551	551	SLT
SLT Last Number Redial	52	*552	52	*552	552	SLT
DND (Toggle On/Off)	53	*553	53	*553	553	SLT
Call Forward	54	*554	54	*554	554	
Speed Dial Programming	55	*555	55	*555	555	SLT
Activate Message Wait/Callback	56	*556	56	*556	556	SLT
Message Wait/Callback Answer	57	*557	57	*557	557	SLT
SLT Speed Dial Access	58	*558	58	*558	558	SLT
DND/FWD cancel	59	*559	59	*559	559	SLT
SLT CO System Hold	690	*560	*10	*560	560	SLT
SLT Program Mode Access	691	*561	50	*561	561	SLT
Attendant Unavailable	692	*562	*12	*562	562	
AME Feature	694	*564	*36	*564	564	
Alarm Reset	695	*565	*13	*565	565	
Group Call Pickup	**	*566	*14	*566	**	
Universal Night Answer	697	*567	*15	*567	567	
Account Code with bin	698	*568	*16	*568	568	
Walking COS	699	*569	*17	*569	569	
ACD Agent On/Off Duty	671	*571	*20	*571	571	
ACD Supervisor Login	672	*572	*21	*572	572	
ACD Supervisor Logout	673	*573	*22	*573	573	
ACD Help Code	674	*574	*23	*574	574	
ACD Calls In Queue Display	675	*575	*24	*575	575	
ACD Supervisor Status	676	*576	*25	*576	576	

Table B-5-2UCP Basic Numbering Plan 5-9, Default Values

	Basic Numbering Plan					
Feature	5	6	7	8	9	Remark
ACD Supervisor Monitor	677	*577	*26	*577	577	
ACD Reroute Queued Call			+0=			
Answer	678	*578	*27	*578	578	
ACD Reroute Queued Call	670	*570	*00	*570	F70	
NoAnswer	679	*579	*28	*579	579	
Camp-On Answer	621	*621	*629	*621	*621	SLT
Call Parking Locations	#601–#800	#601–#800	#601–#800	#601–#800	#601–#800	
Station Group Pilot Number	720 – 819	*401 - *500	#401-#500	*401 - *500	620-719	
Station User VSF Features	*66x	66x	67x	66x	*66	x: 1 ~ 3
Access	00%	001	07.X	OOX	00	X. 1 ~ 3
Call Coverage Ring	*76	*76	*76	*76	76	
Direct Call Pickup	*77	*77	*77	*77	*77	
Access CO Group	89xxx	89xxx	89xxx	#89xxx	89	xxx:
Access CC Group	OSAAA	OUXXX	OOAAA	#OJAAA	00	000-201
Access Individual CO/IP Line	88xxx	88xxx	88xxx	#88xxx	88	xxx:
7.00000 Individual CO/II Line						001~999
Access Held CO/IP	8*	8*	8*	#8*	8*	
Access Held Individual CO/IP	8#xxx	8#xxx	8#xxx	#8#xxx	8#	xxx: 001~999
Access CO in First CO Group	0	9	9	0	9	
Attendant Call	9	0	0	#9	0	
VM Message Wait Enabled	*8	*8	*8	*8	*8	
VM Message Wait Cancel	*9	*9	*9	*9	*9	
Door Open (1st Door)	#*1	#*1	*31	#*1	#*1	
Door Open (2nd Door)	#*2	#*2	*32	#*2	#*2	
Door Open (3rd Door)	#*3	#*3	*33	#*3		
Door Open (4th Door)	#*4	#*4	*34	#*4		
MCID Request	*0	*0	*35	*0	*0	(Except USA)
Uncuparticed conference time						USA)
Unsupervised conference time Extension code	*##	##	*37	##	##	
PTT Group Login/Logout	#*0	#0	*38	#0	#0	
ACD Agent primary login	681	*581	*40	*581	581	
ACD Agent primary logout	682	*582	*41	*582	582	
ACD Agent secondary login	683	*583	*42	*583	583	
ACD Agent secondary logout	684	*584	*43	*584	584	
Wrap-up end	685	*585	*44	*585	585	
T-NET CM Login/out	686	*586	*45	*586	586	
Enter Into Conf-Room	*59	*59	*46	*59	59	
Enter Into Conf-Group	*68	*68	*47	*68	*68	
Station ICR	687	*587	*48	*587	587	
Pick up Group Pick-Up	688	588	*49	*588	588	
rick up Group Fick-Up	000	J00	43	500	300	<u>I</u>

Table B-5-2UCP Basic Numbering Plan 5-9, Default Values

Factions		Basic Numbering Plan							
Feature	5	6	7	8	9	Remark			
Emergency Page	689	*589	*50	*589	589				
Remote Mobile Extension Control	680	*580	**	#1	580				
ACD Agent ON/OFF Duty-All group	68*	*58*	*5#	*58*	58*				
SLT ACNR	68#	*58#	*51	*58#	58#				
ACD Supervisor Ring Mode	67*	*570	*52	*570	570				
Company Directory Name	*21	*563	*53	*563	563				
ISDN Supplementary Hold	*22	*57*	*54	*57*	57*				
ISDN Supplementary Conf	*23	*57#	*55	*57#	57#				
Forced Channel Seize	*24	*56*	*56	*56*	56*				
Override DND/Forward	*25	*56#	*57	*56#	56#				
Cancel Call Back									
Transfer to VSF Number	55*	*55*	*59	*55*	55*				
CCR	#2	#2*	#2	#2	#2				
Room type Conf Group join	5*0	5*0	5*0	5*0					
Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset			
Save Number Redial	[Save]	[Save]	[Save]	[Save]	[Save]	Keyset			
Station Speed Dial Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXX:			
Station Speed Dial Access	XXX	XXX	XXX	XXX	XXX	000~099			
System Speed Dial Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXXXX: 20000~ 31999			

7 Appendix C: Database Details & Default for Station Admin for eMG

The following Tables, divided based on the Program group and Program, provide the default values assigned to all Admin entries. Prior to changing an entry during programming assure you have an understanding of the PROGRAMand its purpose.

Table C-1 SYSTEM ID

BTN	SUB-MENU	DEFAULT	REMARK
		P	GM: 100 -System ID
1	Country Code	1	Maximum 4 digits
2	Customer Site Name		Maximum 24 characters
3	My Area Code		Maximum 6 digits
		1	Overall default Numbering Plan, the 1st station digit should be 1 – 4.
		2	The station number can be from 100~799.
		3	Australia Default
		4	New Zealand Default
4	Numbering Plan Type	5	Italy Default
		6	Finland Default, Max Station Ports is 60. Stations above Max ports will be displayed "***".
		7	Max Station Ports 70 Stations above Max ports will be displayed "***".
		8	The station number can be from 100~ 999.
5	PRIFIX Usage		
6	System ID reset		System reset

Table C-2 Numbering Plans

BTN	SUB-MENU	DEFAULT	REMARK			
	PGM: 102 -System IP Address Plan					
1	MPB Address	10.10.10.2	Public IP Address for H.323 calls			
2	MPB Subnet mask	255.255.255.0				
3	Router IP Address	10.10.10.1	Router IP Address for WAN access			
4	System start ID address	110.10.10.10	Private start address for system to module			
4	System start IP address		& terminal communications			
5	System and ID address	10.10.10.254	Private end address for system to module 8			
Э	System end IP address		terminal communications			
6	System Subnet mask	255.255.255.0				
7	Automatic IP Address Assignment	ON				
8	Second System IP Address	0.0.0.0	Second Private IP Address for modules			
9	Second System Net Mask	255.255.255.0	Second Private Sub-net Mask for modules			
10	Firewell ID Address	0.0.0.0	IP Address of firewall for external network			
10	Firewall IP Address		(WAN/IP) access			

Table C-2 Numbering Plans

BTN	SUB-MENU	DEFAULT	REMARK
11	First Start Mac Address	00:00:00:00:00	First : Start MAC Address to register a
11	First Start Mac Address	00.00.00.00.00.00	device regardless of the 3rd dip switch
12	First End Mac Address	00:00:00:00:00	First : End MAC Address to register a
12	This End Mac Address	00.00.00.00.00.00	device regardless of the 3rd dip switch
13	Second Start Mac Address	00:00:00:00:00:00	Second : Start MAC Address to register a
13	Oecond Start Mac Address	00.00.00.00.00.00	device regardless of the 3rd dip switch
14	Second End Mac Address	00:00:00:00:00	Second : End MAC Address to register a
'-	Occord End Mac Address	00.00.00.00.00.00	device regardless of the 3rd dip switch
15	System IP Address plan Reset		Returns System IP Address Plan to default
10	Cystem in Address plan Reset		values.
16	Unused	0.0.0.0	
17	Unused	0.0.0.0	
18	MPB DNS IP Address	0.0.0.0	
19	MPB DHCP	OFF	
	PGM: 10	3 Device IP Addre	ess Plan
			Flex 1: Set IP Address
	CO/IP Device IP Address	10.10.10.10~254	Flex 2: Set Mac Address
1		-	Flex 3: ARP
'		OFF	Flex 4: Registration
		MCAST	Flex 5: CPU Type
			Flex 6: Device ID (type)
			Flex 1: Set IP Address
		10.10.10.10~254	Flex 2: Set Mac Address
2	Station IP Address	-	Flex 3: ARP
_	Claudi ii Addiess	OFF	Flex 4: Registration
		MCAST	Flex 5: CPU Type
			Flex 6: Device ID (type)
			Flex 1: Set IP Address
		10.10.10.10~254	Flex 2: Set Mac Address
3	MISU IP Address	-	Flex 3: ARP
	Wilde II Address	OFF	Flex 4: Registration
		MCAST	Flex 5: CPU Type
			Flex 6: Device ID (type)
			Flex 1: Set IP Address
		10.10.10.10~254	Flex 2: Set Mac Address
4	VMIB& VSF IP Address	-	Flex 3: ARP
-	Times voi ii Address	On	Flex 4: Registration
		On	Flex 5: CPU Type
			Flex 6: Device ID (type)

Table C-2 Numbering Plans

BTN	SUB-MENU	DEFAULT	REMARK
			Flex 1: Set IP Address
		10.10.10.10~254	Flex 2: Set Mac Address
		-	Flex 3: ARP
5	MCIB_V IP Address	OFF	Flex 4: Registration
		MCAST	Flex 5: CPU Type
			Flex 6: Device ID (type)
6	Device IP Address Plan	System Reset	, , ,
			Flex 1: Set IP Address
		10.10.10.10~254	Flex 2: Set Mac Address
7	WITB IP Address	-	Flex 3: ARP
/	WITE IP Address	OFF	Flex 4: Registration
		MCAST	Flex 5: CPU Type
			Flex 6: Device ID (type)
	PGM: 104 - C	O/IP Device Sequ	ence Number
	CO/IP Device Sequence Assignment	Next available	Sequence numbers are assigned to the
	CO/IF Device Sequence Assignment	INEXT available	maximum available for the system.
	PGM: 105 - F	lexible Station Nu	mber, Base 1
	Flexible Station Number	1~140	Default Numbering Plan Country Code 1.
	PGM: 106 -Flexi	ble Numbering Pla	n part A, Base 1
1	Internal Page Zone	301~335	
2	Internal All Call Page	543	
3	Meet Me Page	544	
4	External Page Zone 1	545	
5	Unused		
6	External All Call Page	548	
7	All Call Page (Internal & External)	549	
8	SMDR Account Code Enter	550	SLT
9	Flash Command to CO Line	551	SLT
10	Last Number Redial	552	SLT
11	DND (Toggle On/Off)	553	SLT
12	Call Forward	554	
13	Speed Dial Programming	555	SLT
14	Message Wait/Callback Enable	556	SLT
15	Message Wait/Callback Return	557	SLT
16	Speed Dial Access	558	SLT
17	Cancel DND/FWD/Pre-MSG	559	SLT
18	CO System Hold	560	SLT
19	Programming Mode Enter Code	561	SLT
20	Attendant Unavailable	562	
21	Alarm Reset	565	
22	Group Call Pickup	566	
23	Universal Night Answer	567	
24	Account Code	568	

Table C-2 Numbering Plans

BTN	SUB-MENU	DEFAULT	REMARK
		ble Numbering Pla	
1	Walking COS Code	569	lii part B, Base i
2	ACD Agent On/Off Duty	571	
3	ACD/UCD Supervisor Login	572	
4	ACD/UCD Supervisor Logout	573	
5	ACD/UCD Help Code	574	
6	ACD/UCD Calls In Queue Display	575	
7	ACD/UCD Supervisor Status Display	576	
8	ACD Supervisor Monitor	577	
9	ACD Reroute Queued Call w/ answer		
	ACD Reroute Queued Call w/o	370	
10	answer	579	
11	Camp-On Answer	621	
12	Call Park Locations	#601~#619	
13	Group Pilot Number	401-440	
14	Station User VSF Features	*66	
15	Call Coverage Ring	76	
16	Direct Call Pickup	*77	
17	CO/IP Group Access	89	
18	Individual CO/IP Access	88	
19	Retrieve Last Held CO/IP	8*	
20	Retrieve Held Individual CO/IP	8#	
21	Access 1st available CO Line	9	
22	Attendant Call	0	
23	VM Message Waiting Enable	*8	
24	VM Message Waiting Cancel	*9	
		ble Numbering Pla	an part C, Base 1
1	1st Door Open	#*1	
2	2nd Door Open	#*2	
3	3rd Door Open	#*3	
4	4th Door Open	#*4	
	·	ble Numbering Pla	an part D, Base 1
1	MCID Request	*0	
2	Answering Machine Emulation	564	
	Unsupervised conference extend		
3	code	##	
4	PTT Group login in-out code	#0	
5	ACD Agent Primary Login Code	581	
6	ACD Agent Primary Logout Code	582	
7	ACD Agent Secondary Login Code	583	
8	ACD Agent Secondary Logout Code	584	
9	ACD Wrap-up End	585	

Table C-2 Numbering Plans

BTN	SUB-MENU	DEFAULT	REMARK
10	TNET Login/out Code	586	
11	Enter Into Conf-Room	59	
12	Enter into Conf-Group	68	
13	Station ICR	587	
14	Pick Up Group Pick-up	588	
15	Emergency Page	589	
16	Remote MEX Control	580	
17	All Group Agent On/Off Duty	58*	
18	SLT ACNR Code	58#	
19	ACD Supervisor Ring Mode	570	
20	Company Directory Name	563	
21	ISDN SUPPLEMENT HOLD	57*	
22	ISDN SUPPLEMENT CONFERENCE	57#	
23	Forced Seize Busy Station/CO	56*	
24	Added Flexible Numbering Plan		
24-1	Override DND/Call forward	56#	
24-2	Cancel Call Back		
24.2	Transfer To VSF Announcement		
24-3	Number	55*	
24-4	CCR	#2	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK			
	PGM: 110 - Station Type						
1	Station Type	1-8					
2	DSS/DLS MAP	Station					
		PGM: 111 -Station Attr	ibutes I				
1	Auto Speaker Selection	1: ON, 0: OFF	ON				
2	Call Forward	1: ON, 0: OFF	OFF				
		0: OFF, 1:ALL,					
3	DND	2:icm call only,	OFF				
		3:co call only					
4	Data Line Security	1: ON, 0: OFF	OFF				
5	Howler Tone	1: ON, 0: OFF	ON				
6	No Touch Answer	1: ON, 0: OFF	OFF				
7	Page Access	1: ON, 0: OFF	OFF				
8	Speaker/Headset Ring	S/H/BOTH	Speaker	SPKR: Speakerphone			
9	Speakerphone/Headset	ON/OFF	Speaker	ON: Speakerphone			
10	LCD Display LED	Ring/MWI	MWI				

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
11	Loop LCR Account	1: ON, 0: OFF	OFF	Station based LOOP LCR authorization option
12	Call Coverage	1: ON, 0: OFF	OFF	
13	Call Coverage Delay Ring	0~9	0	
14	Off-net Forward Disable	0:ENA, 1:DIS	Enable	Off-net Forward Activation (Except USA version)
15	Forced ICM Mode Change	1:ON, 0:OFF	OFF	
16	Active PTT Group	0~9		
17	Station ICM Tenancy Group	1~15	1	
18	VMIU/VMIBBoard			Sequence Number
19	SIP User ID Table Index	000-140	000	Index to Station SIP Attributes Table (PGM 126, Web only)
20	Camp on Tone	1: ON, 0: OFF	ON	
21	Serial DSS	1: Disable 0 : Enable	Enable	
22	ICM Dial Tone Source	0: dial tone 1: Int/Ext 1 2: Ext 2 3: VSF 4~8:SLT MOH1~5 9~37:VSF MOH2~30	dial tone	
23	ICM Ring Back Tone Source	0: ring back tone 1: Int/Ext 1 2: Ext 2 3: VSF 4~8:SLT MOH1~5 9~37:VSF MOH2~30	ring back tone	
24	UMS Attach Message	1: ON, 0: OFF	ON	
	P	GM: 112 - Station Attri	butes II	
1	CO Call Time Tone	1: ON, 0: OFF	OFF	
2	Automatic Hold	1: ON, 0: OFF	ATD:ON Others: OFF	
3	CO Call Time Restriction	1: ON, 0: OFF	OFF	
4	CO Line Access	EN/DIS	ENABLE	
5	CO/IP Line Queuing	EN/DIS	ENABLE	
6	CO PGM	EN/DIS	DISABLE	
7	Ringing Line Preference	EN/DIS	ENABLE	
8	Speed Dial Access	EN/DIS	ENABLE	
9	UCD Group Service	1: ON, 0: OFF	OFF	
10	Ring Group Service	1: ON, 0: OFF	OFF	
11	Two Way Record	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
12	Message Speed Scroll	0-7	3	Scroll speed for Graphic LCD Key-set
13	Hot Desk Station	1:ON, 0:OFF	OFF	,
14	Prefer CO/CO Group	CO Access Code Or CO Group Access Code		
15	Send SLT CLI	1:ON, 0:OFF	ON	Send CLI info to SLT/Soft/Wit phone.
16	ACD Member Priority	0 ~ 9	0	
17	ez Attendant Password	1: ON, 0: OFF	OFF	
18	Emergency CO	CO Access Code Or CO Group Access Code	Any CO	
19	Station Account code required	1: ON, 0: OFF	OFF	
20	Auto Call recording	1: ON, 0: OFF	OFF	
21	Call Recording Station	Station number		
22	Voice Mail Back-up	1: ON, 0: OFF	OFF	
23	VM Back-up Station	Station number		
24	VM Back-up Prompt	1: ON, 0: OFF	OFF	
	P	GM: 113 - Station Attri	butes III	
1	ADMIN	EN/DIS	ENABLE	
2	VSF Access	EN/DIS	ENABLE	
3	Group Listen	EN/DIS	DISABLE	
4	Override Privilege	EN/DIS	DISABLE	
5	SMDR Hidden Dialed Digits	EN/DIS	DISABLE	
6	Voice Over	EN/DIS	ENABLE	
7	Prime Line	1: HOT, 0: WARM	WARM	
8	Alarm/Door Bell Attribute	EN/DIS	DISABLE	
9	DID Call Wait	1: ON, 0: OFF	ON	
10	Left Message Executive	1: ON, 0: OFF	ON	
11	E & MIC Headset	1: ON, 0: OFF	OFF	For new Soft-Key Key-set
12	En-block Mode	1: ON, 0: OFF	OFF	For new Soft-Key Key-set
13	VSF Message Retrieve	1: FIFO, 0: LIFO	FIFO	
14	VMID Number	Station number	STA#	For adjunct Voice Mail-box id
15	Auto ACD DND	dial-pad digit	0	0=no reason code
16	Fwd if OOS	1: ON, 0: OFF	OFF	
17	Backlight	0 ~2	busy	0: Off, 1: busy, 2: always on
18	VSF Mail Server IP address	0.0.0.0		
19	VSF Mail Address			Web Admin 132 to modify
20	Block Back Call	1: ON, 0: OFF	OFF	
21	By Pass DTMF	1: ON, 0: OFF	OFF	
22	Proctor Monitor	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
23	VSF Mail Server ID			Web Admin
24	Added Station Attribute (2nd)			
24-1	VSF Mail Server P/W			Web Admin
24-2	Door Open	EN/DIS	ENABLE	
24-3	VSF MSG DD/TM	1: ON, 0: OFF	ON	
24-4	OGM DEST		NOT ASSIGNED	
24-5	VSF DEL MSG	1: ON, 0: OFF	OFF	
24-6	VM PWD CHECK	0: No password 1: PWD only 2: Station number and Password	Station number and password	
24-7	Barge In Mode	0: Disable 1: Monitor 2:Monitor&Join & Disconnect	Disable	
24-8	SLT Flash Mode	0: Transfer 1: Drop 2: Ignore 3: Hold Release	Transfer	
24-9	RLS Cost Display	1: ON, 0: OFF	OFF	
24-10	LDT Table Index	No. of LDT Table	1	
24-11	WEB Call Back	EN/DIS	DISABLE	
24-12	VSF SMTP Security	0-2	0	0 : NO Security 1 : SSL 2 : TLS
24-13	VSF SMTP Port	00001-65535	25	
24-14	VSF Sender Mail Address			Web Admin
24-15	Prepaid call	0: OFF 1: ON	OFF	
24-16	Prepaid money	000000 -999999	0	
24-17	Default VM number			
24-18	SKT mode	0: Default 1: Short 2: Long 3: Far	Default (0)	
	Off hook ring	0: BURST 1: MUTE 2: SYSTEM 3:SILENCE	Refer to System (2)	
24-20	SIP color ring			
	Forced account code	0: OFF, 1: ON	OFF	
24-22	Flexible Bin PGM	0: OFF, 1: ON	ON	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-23	Station Web level	LEVEL 1 ~ LEVEL 3	LEVEL 1	
		1: SPKR		
24-24	Headset page	2: HEADSET	1: SPKR	
		3: Both		
	P	GM: 114 - Station Attri	butes IV	
1	CLIP Display	1: ON, 0: OFF	OFF	
2	COLP Display	1: ON, 0: OFF	OFF	
3	Progress Indication	1: ON, 0: OFF	OFF	
4	CLIR Service	1: ON, 0: OFF	OFF	
5	COLR Service	1: ON, 0: OFF	OFF	
6	Station CLI 1	Max 12 digits	Station No	
7	3.1 kHz Audio	1: ON, 0: OFF	OFF	
8	CLI Name Display	1: ON, 0: OFF	OFF	
9	CLI/IP Redirect Display	1: Red, 0: CLI	CLI	
10	CLI Message Wait	1: ON, 0: OFF	OFF	
11	EXT OR ATD	1: ATD,0: EXT	EXT	
12	MSN Wait	1: ON, 0: OFF	OFF	
13	Unused			
14	DID Restriction	1: ON, 0: OFF	OFF	
15	DISA Restriction	1: ON, 0: OFF	OFF	
16	Unused			
17	Modem Enable	1: ON, 0: OFF	OFF	
18	FAST CLI For Transfer Call	1: ORI, 0: TRN	TRN	
19	Unused			
20	PICK UP By Flex Button	1: ON, 0: OFF	ON	
21	Multi Language	Prompt 1 – 6	1	
22	Pre-Sel Msg DND	1: ON, 0: OFF	OFF	
23	Pre-Sel Msg Language	Prompt 1 – 6	1	
24	Added station attributes			
24-1	Station CLI 2	Max 16 Chars	Station No	
24-2	Station CLI 3	Max 16 Chars	Station No	
24-3	Station CLI 4	Max 16 Chars	Station No	
24-4	Station CLI 5	Max 16 Chars	Station No	
24-5	SLT CID type	(0:FSK/1:DTMF)	FSK	
24-6	Wakeup announcement	0-200	0	
24-7	Camp on enable	0: OFF 1: ON	ON	
24-8	Gain table	1–3	1	
24-9	Tone table	1–5	1	
24-10	Digit conversion table	eMG80/100: 1-15 eMG800: 1-32	0	
24-11	Video on calling	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-12	E.164 CLI To	1: ON, 0: OFF	OFF	
24-13	Flexible page	1-3	3 page	
24-14	Align LCD	0-2	0	0: Not align, 1: Left, 2: Right
24-15	Two way recording	0-200	00	
24-16	LDT Zone	001-100	001	
24-17	ECM Fax (T38)	1: ON, 0: OFF	ON	
24-18	Display restrict	1: ON, 0: OFF	OFF	
24-19	Small popup use	1: ON, 0: OFF	OFF	
24-20	Large popup timer	0-5	0	
24-21	MWI LED	0-4	0	0:ALL MWI, 1:VM MWI 2: CLI MWI, 3: SMS MWI 4: ICM MWI
24-22	NFC Auth use	1: ON, 0: OFF	ON	
24-23	Short Modem	1: ON, 0: OFF	OFF	
	PGM:	115 - Flexible Buttons	Assignment	
		1: Empty Button		
		2: Station PGM Button		
01~	Flexible Buttons Assignment	3: {Speed Dial xx}Button		
24	Plexible buttons Assignment	4: Numbering Plan Button		
		5: Network DSS Number		
		6: MSN Number		
	,	PGM: 116 - Station (cos	
1	Station COS: Day Ring	1~11	1	
2	Station COS: Night Ring	1~11	1	
3	Station COS: Timed Ring	1~11	1	
		- CO Line/IP Channel	Group Acces	s
	CO/IP Group	01~20	1	
	PGM:	118 - Internal Page Zo	one Access	
	Internal Page Zone Access	001-024	Group 01	
		GM: 119 - PTT Group	Access	
	PTT Page Zone	01~10		
	PO	GM: 120 - Preset Call F	orward	
	Preset Call Forward	1~8 + destination	-	1: Unconditional Forward 2: Internal Busy Forward 3: Internal No Answer Forward 4: External Busy Forward 5: External No Answer Forward 6: Voice Mail box 7: Internal DND 8: External DND

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
	Р	GM: 121 - Idle Line Se	lection			
				1: Flex Button 2: CO Line		
	Type	4 7		3: CO Group 4: Station Number		
	Type	1~7	-			
				5: Hunt Group 6: Station Speed		
				7: System Speed		
	PG	l GM: 122 – Station IP A	tributes	7. System Speed		
1	Direct IP Call	EN/DIS	ENABLE			
•	Directi Can	PGM: 123 - Station Ti	1			
1	Station Fwd No-Answer Timer	000~600	000	1 second increments		
2	Cur off timer	00~99	00	1 minute increments		
		24 - Linked Pair Statio				
1	Set IP Address	xxx.xxx.xxx				
2	Router IP Address	xxx.xxx.xxx				
3	Set Mac Address	xx:xx:xx:xx:xx				
	Р	GM: 125 - ICM Tenant	Group			
1	Group Attendant	Station No.	-			
2	Group Access	Group 01~15	Group 01			
	PG	M: 127 – Station VM A	ttributes			
1	VM COS	1-5	1			
2	Administrator Mail Box	EN/DIS	DISABLE			
3	Announce Only Mail Box	EN/DIS	DISABLE			
4	Announce Only Option	Previous Menu Hang Up	Previous Menu			
5	Company Directory–First Name					
6	Company Directory–Last Name					
7	Cascade Mail Box					
8	Cascade Type	1: ON, 0: OFF	OFF			
9	Message Rewind/Fast Forward Time	3-99(SEC)	4			
10	Notify Retry count	00-99	3			
11	Notify Dial time	00-99	5			
	PGM: 128 – Station CCR Table					
1-10	Station CCR	1-14				
11	CCR table usage	1: ON, 0: OFF	OFF			
12	CCR One Digit	1: ON, 0: OFF	OFF			
13	* Button Used As	0-3	0			
14	# Button Used As	0-3	0			
PGM: 129 - DSS Label Edit						
	LSS Label	LSS index + button		Max 16 char.		

Table C-4 BOARD DATA

	Table 0-4 BOAILD DATA						
BTN	SUB-MENU	RANGE	DEFAULT	REMARK			
	PGM: 130 - H.323 VoIP Attributes						
1	H.323 Setup Mode	0~1	Fast	0: Fast/1: Normal			
2	H.323 Tunneling Mode	1: ON, 0: OFF	ON	0:Off/1:On			
3	H.323 DTMF Path	0~1	0: In-band	1:Out/0:In			
4	H.323 DiffServ Pre tagging	00~63	4				
5	RAS Usage	1: ON, 0: OFF	OFF				
6	RAS Multi-cast IP Address	IP address	224.0.1.41				
7	RAS Multi-cast IP port	Port number	1718				
8	RAS Uni-cast IP Address	IP address	82.134.80.2				
9	RAS Uni-cast IP port	Port number	1719				
10	RAS Keep-alive Timer	001 ~ 999	120	1 second increments			
11	RAS Numbering Plan prefix	24 digits					
12	RAS Gateway Id	128 characters		Web Admin only			
13	RAS Light RRQ	1: ON, 0: OFF	OFF				
14	TCP Keep Alive	1: ON, 0: OFF	ON				
15	FAIL OVER USAGE	1: ON, 0: OFF	OFF				
16	Fail over Time	03-10 (Sec.)	5				
17	Fail over Group	01-21					
18	Q931 START PORT	00001-65535	2048				
19	Q931 END PORT	00001-65535	2559				
20	H245 START PORT	00001-65535	2560				
21	H245 END PORT	00001-65535	3071				
22	RAS START PORT	00001-65535	2048				
23	RAS END PORT	00001-65535	3071				
24	H.323 VoIP Attributes						
24-1	MEDIA START PORT	00001-65535	6000				
24-2	MEDIA END PORT	00001-65535	7036				
24-3	DATA START PORT	00001-65535	8500				
24-4	DATA END PORT	00001-65535	8548				
	P	GM: 131 -T1/E1/PRI	Attributes				
1	T1 Setup Mode	0~1	D4	0:D4/1:ESF			
2	T1 Line Mode	0~1	B8ZS	0: B8ZS/1:AMI			
3	PRI Line Mode	0~1	TE	0:NT/1:TE			
4	PRI/E1 CRC Check	1: ON, 0: OFF	OFF				
5	E1 R2 DSP Check	1: ON, 0: OFF	OFF				
		1: S1240					
6	DCO PX Type	2: TDX1B	STANDARD				
6	DCO PX Type	3: STANDARD	O I AINDAIND				
		4: CONGES_DIS					
	PGM: 132 - Board Base Attributes						
1	Router IP address	IP Address					
2	Device CODEC Type	0-4	4	0: G.711,			

Table C-4 BOARD DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
				1: G.723.1,
				2: G.729,
				3: G.722
				4: System Codec refer to
				PGM 161-button 9.
3	Firewall IP address	IP Address		
4	RTP Security	1: ON, 0: OFF	ON	
5	TNET Enable	1: ON, 0: OFF	OFF	
6	UMS Sender e-mail address	40 Characters		Web only to modify
7	T38 Enable	1: ON, 0: OFF	OFF	
8	USE Board IP for SIP	1: ON, 0: OFF	OFF	
9	RTP firewall IP	IP address		
		0: DIFF WITH		
		VOICE		
10	T38 Port Usage	1: SAME AS	0	
		VOICE		
		2:TRIGGERING		
11	RFC2833 Payload	000-127	0	
12	RFC2833 Volume	00-36	0	-dB
13	RFC2833 Redundancy	1-8	0	

Table C-5 CO LINE DATA

вти	SUB-MENU	RANGE	DEFAULT	REMARK		
	PGM: 140 - CO Service Attributes					
	CO Sarviga Type	Flex 1~4	1 (Normal)	1: Normal CO line, 2: DID,		
	CO Service Type	riex 1~4	1 (Normal)	3: TIE Line,4: Unused		
	PG	M: 141 - CO/IP Line At	tributes I			
1	CO/IP Group Assignment	01-20				
2	CO Line COS	1~5	1			
3	CO Start Signal	1: Ground, 0: Loop	Loop			
4	CO Line Type	1: PBX, 0: CO	СО			
5	CO Line Signal Type	1: DTMF, 0: Pulse	DTMF			
6	Flash Type	1: Ground, 0: Loop	Loop			
7	Universal Night Answer	1: ON, 0: OFF	OFF			
8	CO/IP Group Auth	1: ON, 0: OFF	OFF			
0	Data Station No	4 digits		FAX/Modem can be assigned		
9				to STA		
10	Tenancy Group	00~ 15	00			
	CO VoIP Mode	1 ~ 6	Common	1: Common, 2: H.323 only, 3:		
11				SIP only, 4: RTP RLY, 5:		
11				H.323/TRP RLY, 6: SIP/RTP		
				RLY		

Table C-5 CO LINE DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
12	PROCTOR ON/OFF	1: ON, 0: OFF	OFF	
13	WAIT IF VSF BUSY	1: ON, 0: OFF	ON	
14	Unused			
15	Unused			
16	COL RING TONE	1-12	0	0 is Not Available
17	Unused			
18	Gain table index	1-3	1	
19	Tone table index	1-5	1	
20	Digit conversion table index	01-15	01	
	PGI	M: 142 - CO/IP Line At	tributes II	
1	CO Line Name Display	1: ON, 0: OFF	OFF	
2	CO Line Name Assign	12 characters	-	Max 12 character, alpha entry
3	Metering Unit	0~6	0	
4	Line Drop using CPT	1: ON, 0: OFF	OFF	Not Supported
5	DISA Authorization Code	1: ON, 0: OFF	ON	
6	CO Line MOH	0~37	1	0: Refer to System hold, 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~37: VSF MOH2~30
7	CO Dial Tone	1: ON, 0: OFF	ON	
8	CO Ring Back Tone	1: ON, 0: OFF	OFF	
9	CO Error Tone	1: ON, 0: OFF	OFF	
10	CO Busy Tone	1: ON, 0: OFF	OFF	
11	DISA CO Access	1: ON, 0: OFF	OFF	
12	CO Flash Timer	000~300	050	10 msec. Increments
13	Open Loop Detect Timer	00~20	04	100 msec. Increments
14	ICLID Detect Timer	00~20	00	1 sec. Increments
15	SMS OUTGOING	0:Disable 1:Enable	Disable	
16	SMS RCV STATION			
17	CO Line Dial Tone Source	0: dial tone 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~37: VSF MOH2~30	dial tone	
18	CO Line Ring Back Tone Source	0: ring back tone 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~37: VSF MOH2~30	ring back tone	

Table C-5 CO LINE DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
19	REJECT ANONYMOUS	1: ON / 0:OFF	OFF	
20	PREFIX TABLE ID	0-6	0	If prefix table ID is set to 0, then prefix dialing call cannot be applied. If prefix table ID is set to (1-6), then prefix dialing call can be applied with PREFIX DIALING TABLE(PGM 206)
21	Cut Off Timer	00-99	00	Co base call cut off timer can be set at this field.
22	DISA Delay Timer	0-9	0	
23	LDT Table Index	1-10	1	
24	DISA Answer Timer	0-9	0	
	PC	SM: 143 - ISDN Line A	ttributes	
1	COLP Table Index		None	
2	CLIP Table Index		None	
3	EN-BLOC Sending	1: ON, 0: OFF	ON	
4	Type Of Number	0~4	International	0: Unknown 1: International 2: National 3: Unused 4: Subscriber
5	DID Remove digit count	00~99	00	Received digits deleted from left
6	TEI Type	1: Auto, 0: Fixed	Auto	
7	ISDN-SS CD/CR	1: ON, 0: OFF	Disable	0: Disable, 1: Deflect, 3: Reroute (Except USA version)
8	ISDN One Digit Remove	1: ON, 0: OFF	OFF	(For Italy)
9	Advice of Charge Type	0~5	0	0: None 1: Italy/Spain 2: Finland 3: Australia 4: Belgium 5: ETSI Standard
10	ISDN Line Type	1: µ-Law, 0: A-Law	μ-Law	
11	Calling Sub-address	1: ON, 0: OFF	OFF	
12	Incoming Prefix Code Insertion	1: ON, 0: OFF	OFF	
13	Outgoing Prefix Code Insertion	1: ON, 0: OFF	ON	
14	International Access Code	Max 4 digit		
15	My Area Code	Max 6 Digits		
16	My Area Prefix Code	Max 4 Digits		
17	CLI Transit Code	1: ORI 0: CFW	CFW	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
18	Preserve Name for DID calls	1: ON, 0: OFF	OFF	
19	ISDN Redirecting number	No SVC / ORI/CFW	No SVC	
20	Choice Incoming CLI	Transit Point CLI / Original CLI	Transit Point CLI	
21	Calling Party Numbering Plan Called Party Numbering Plan	0-6 0-6	1	0: Unknown. 1: ISDN / Telephony. 2: Data / Numbering. 3: Telex. 4: National Standard. 5: Private. 6: Reserved. 0: Unknown. 1: ISDN / Telephony. 2: Data / Numbering. 3: Telex.
				4: National Standard. 5: Private. 6: Reserved.
23	Screening Indicator	0-3	0	0: User Provided, No Service.1: User Provided, Pass.2: User Provided, Fail.3: Network Provided.
24	Added CO line attributes			
24-1	Station CLI Type	Station CLI 1-5	Station CLI 1	
24-2	ISDN PLUS Code	Max 4 digits	-	
24-3	CP/ALERT INBAND	1: ON, 0: OFF	OFF	
24-4	Disconnect INBAND	1: ON, 0: OFF	OFF	
24-5	Bursting to Caller	1: ON, 0: OFF	OFF	
	PG	6M: 144 - CO Ring Ass	ignment	
1	Day	Station/Group		Dial 1: Station + Delay
2	Night	Station/Group		(0~9 ring cycles)
3	Timed Ring	Station/Group		Dial 2: Hunt group Dial 3: VSF announcement (01~70) Dial 4: AA Ring delay Time (00~30 sec.)
	PG	M: 145 - DID Service A	Attributes	
1	DID Signal	1: Immediate 2: Wink 3: Delayed Dial	Wink	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	DID conversion Type	0-2	1	0: DID Data Conversion(PGM230) 1: call to the valid extension. 2: convert with Flex DID Table (PGM231)
3	DID Digit Receive Number	2-4	3	
4	DID Digit Mask	4 digits	#***	
	PGN	1: 146 - DISA Service	Attributes	
	DISA (Day/Night/Timed Ring)	Flex 1: Day Flex 2: Night Flex 3: Timed		Enter VMIB/VMIU Announcement number.
	PGM: 1	47 - CO Preset Forwa	rd Attributes	
1	CO Preset Forward Timer	00~99	00	1 second increments
2	ICLID Ring Table Index	001~250	None	
3	VMID Number	0000~9999	None	
	PGN	/: 148 – CO Additiona	l Attribute	
1	CID type	0: Disabled 1: FSK 2: DTAS FSK 3: DTMF 4: Russian CID	FSK	
2	RCID detect	0: LOCAL 1: ALL	ALL	
3	RCID request	0: USER 1: AUTO	AUTO	
4	RCID request first delay timer	10-150(10msec)	20	
5	RCID no answer timer	1-300(sec)	20	
6	RCID digit number	4-10	7	
7	RCID request count	1-3	1	
8	RCID request retry delay timer	10-30(10msec)	10	
9	COLLECT CALL BLOCKING	0: Disabled1: Double Answer2: With Indication	Disabled	
10	COLLECT CALL ANSWER TIMER	1-250	10	
11	COLLECT CALL IDLE TIMER	1-250	20	
12	Analog line monitoring	ON/OFF	ON	
13	Ring detection register	000-255	000	
	PGN	1: 150 - NA ISDN Line	Attributes	
1	Local Exchange Type	1~4	NI 1	1: NI 1 2: NI 2 3: 5 ESS 4: NORTEL

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	SPID Number	9~23 digits		
3	Directory Number	23 digits		
4	EKTS Mode	1:EKTS /0:NONE	NONE	
				0: Unknown
				1: International
_	Type for 4/2/2	0~5		2: National
5	Type for 1/2/3	0~5	0	3: Network
				4: Subscriber
				5: Abbreviated
				0: Unknown
				1: International
6	Type for 4/5/6	0~5	0	2: National
	Type 01 4/3/0	0~3		3: Network
				4: Subscriber
				5: Abbreviated
				0: Unknown
			0	1: International
7	Type for 7/8/9	0~5		2: National
'				3: Network
				4: Subscriber
				5: Abbreviated
		0~5	0	0: Unknown
				1: International
8	Type for 10/11			2: National
	Type for 10/11	0~3		3: Network
				4: Subscriber
				5: Abbreviated
				0: Unknown
				1: International
5	Type for 1/2/3	0~5	0	2: National
	1790 101 1/2/0			3: Network
				4: Subscriber
				5: Abbreviated
		1: 151 - ISDN CO Line	Attributes	
1	T200	1~5 (Sec.)	1	
2	T201	1~5 (Sec.)	1	
3	T202	1~5 (Sec.)	2	
4	T203	5~15 (Sec.)	10	
5	T204	5~15 (Sec.)	10	
6	T302	10~30 (Sec.)	15	
7	T303	1~10 (Sec.)	4	
8	T305	10~60 (Sec.)	30	
9	T308	1~10 (Sec.)	4	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
10	T309	1~100 (Sec.)	90			
11	T310	10~60 (Sec.)	40			
12	N200	1%	3			
13	N201	250~300 (bytes)	260			
14	N202	1~5	3			
15	N204	1~5	1			
16	K_Valule	1~5	1			
	PGI	M: 152 - T1 Line Timer	s Attributes			
1	Pause Time	1~9	2	1 sec increments		
2	Release Guard Time	01~60	20	100 msec increments		
3	Dial-Tone Delay Time	02~50	10	100 msec increments		
4	Inter-Digit Time	15~30	15	20 msec increments		
5	Wink Time	07~15	10	20 msec increments		
6	Pulse Rate	0~3	0	0:60-40(10pps) 1:66-33(10pps) 2:60-40(20pps) 3:66-33(20pps)		
7	Seize DTC Time	0~127	3	20 msec increments		
8	Release Time	0~127	7	20 msec increments		
9	Address Signaling Type	1:DTMF, 0:Pulse	DTMF			
10	Ring Start Time	2~9	2	100 msec increments		
11	Ring Stop Time	10~60	60	100 msec increments		
12	Collect Digit	1~6	3			
13	Digit Store Time	01~15	15	1 sec increments		
	PGM: 153 - DCOB CO Line Attributes					
1	Line Status	1~9	6			
2	DNIS Service	1: ON, 0: OFF	OFF			
3	Number of CLI Digits	01-15	10			
4	DCOB Type	0-2	2			
5	Call Category	1-9	1			
6	DID Digit number	00~32	0			

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
	PGM: 160 - System Attributes I					
1	Attendant Call Queuing Ring- Back Tone	1: RBT, 0: MOH	МОН			
2	Camp-on, MOH/Ring-Back Tone	1: RBT, 0: MOH	МОН			
3	CO Dial-Tone Detect	1: ON, 0: OFF	OFF			
4	CO Line Choice	0 ~ 2	Last	0: Round Robin,1: Last Used, 2: First		

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
5	DISA Retry Counter	1~9	3	
6	External Night Ring	1: ON, 0: OFF	OFF	
7	Hold Preference	1: Sys, 0: Excl	System	System/Exclusive Hold
8	Print LCR Converted Digit	1: LCR, 0: User	LCR	
9	Attendant Call Queue Available	1: ON, 0: OFF	OFF	
10	All Attendant PGM '0' Access	1: ON, 0: OFF	OFF	(Except USA version)
11	Off-Net Prompt Usage	1: ON, 0: OFF	OFF	(Except USA version)
12	Unsupervised Conf Timer Extension	1: ON, 0: OFF	OFF	
13	ACD Information Print	1: ON, 0: OFF	OFF	
14	Call Log List Number	15 ~ 50	15	
15	Off-net DTMF Tone	1: ON, 0: OFF	ON	
16	Authorization Retry Counter	1 ~ 9	3	
17	Conference Room Telephone number	8 digits		
18	MPB DIFFSERV	00-63	04	
19	UPGRADE MODE	1: FTP, 0: TFTP	FTP	
20	TRANSFER TONE	1: RBT, 0: MOH	RBT	
21	CONF WARN TONE	1: ON, 0: OFF	ON	
22	TLS for WEB	1: ON, 0: OFF	OFF	
23	DUMMY DIAL TONE	1: ON, 0: OFF	OFF	
24	ADDED ATTR		ADDED ATTR	
24-1	SIP STA MODE	0: RTD, 1: PTP	RTD	
24-2	SYS AUTH END CODE	0: OFF, 1: ON	OFF	
24-3	STN VM FEATURE USAGE	0: OFF, 1: ON	ON	
24-4	Remote VM access	0: OFF, 1: ON	ON	
24-5	Transfer Tone usage	0: OFF, 1: ON	OFF	
24-6	LCR Dial tone detect	0: OFF, 1: ON	OFF	
24-7	ICM Call log	0: OFF, 1: ON	OFF	
24-8	ATD password usage	0: OFF, 1: ON	OFF	
24-9	Pickup STA name usage	0: OFF, 1: ON	OFF	
24-10	Display LCR mode	0: OFF, 1: ON	ON	
24-11	Easy 5 wake up usage	0: OFF, 1: ON	OFF	
24-12	WEB login usage	0: OFF, 1: ON	OFF	
24-13	VM MEX notify over LCO	0: DISABLE 1: ENABLE	DISABLE	
24-14	Modem ASC CO line	00-74	0	
24-15	Meet me soft display	0: OFF, 1: ON	ON	
24-16	Device information request interval time	015-255	015	
24-17	Number of CLI Wait list	000-255	000	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
		6M: 161 - System		
1	Off-Hook Ring Signal Type	1: Mute, 0: Burst		
2	Page Warning Tone	1: ON, 0: OFF	ON	
3	Privacy	1: ON, 0: OFF	ON	
4	Privacy Warning Tone	1: ON, 0: OFF	ON	
5	ACD PRNT Enable	1: ON, 0: OFF	OFF	
6	ACD PRNT Timer	001~255	10	10 second increments
7	ACD Clear after PRNT	1: ON, 0: OFF	OFF	
8	Override 1st CO Group	1: ON, 0: OFF	ON	
9	Base Codec Type	0-3	G711	0: G711, 1: G.723.1, 2: G.729, 3: G.722
10	G.711 Packetization	10/20/30	20	1 msec increments
11	G.723 Packetization	30/60	30	1 msec increments
12	Network Time/Date	0: DISABLE 1: ISDN CLOCK 2: NTP	DISABLE	(USA version do not support ISDN CLOCK)
13	Incoming Call Toll Check	1: ON, 0: OFF	ON	
14	Web Server TCP port	00001~65535	00080	
15	Web Password Security	1: ON, 0: OFF	OFF	
16	Old Auth. Code Usage	1: ON, 0: OFF	ON	
17	COS 7 on Auth code entry failure	1: ON, 0: OFF	OFF	
18	Unified Message Format	1: ON, 0: OFF	OFF	
19	Record Warning Tone	1: ON, 0: OFF	ON	
20	Unused			
21	Unused			
22	SMS CENTER NUMBER	23 digits		
23	SMS PROTOCOL	0 ~ 8	NONE	0: No PSTN SMS support, 1: ETSI-P1 2: ETSI-P2 3: KT-LivingNet 4: SIP-Text, 5: SIP-XML 6: KT-IP-PBX 7: SKN-IP-PBX 8: KT XML
24	ADDED ATTR			
24-1	G.722 PACKETIZATION(1ms)	10/20/30 msec	20	
24-2	Unused			
24-3	SMS CENTER CLI	23 digits		
24-4	TRANSIT-OUT SECURITY	1: ON, 0: OFF	ON	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-5	EMR CALL ATD NOTIFY	1: ON, 0: OFF	ON	
24-6	Unused			
24-7	FIRST DIGIT * IN SPD	0: DISPLAY SECURITY 1: DIGIT *	DISPLAY SECURITY	
24-8	Strong password	1: ON, 0: OFF	ON	
24-9	VSF/VMIB SMTP PORT	0 – 65535	25	
24-10	ICM BUSY SVC	1: OHVO, 0: INTR	ОНVО	
24-11	AUTO SAVE NEW MSG	1: ON, 0: OFF	OFF	
24-12	IGMP QUERY USAGE	1: ON, 0: OFF	OFF	
24-13	IGMP INTV_TMR(1sec)	0~3600 (Sec.)	180	
24-14	IGMP QUERY ALL HOSTS	1: ON, 0: OFF	ON	
24-15	IGMP QUERY GENERIC	1: ON, 0: OFF	OFF	
24-16	RING-GROUP INDICATION	1: ON, 0: OFF	OFF	
24-17	RESTRICT * AND #	1: ON, 0: OFF	OFF	
24-18	RESTRICT ANS DGT DISP	1: ON, 0: OFF	ON	
24-19	IP BIND USAGE	1: ON, 0: OFF	OFF	
24-20	ACD MAILSEND WEEKLY SET	0-7	0	
24-21	ACD MAILSEND DAILY SET	00-23		
24-22	ACD DEL AFTER MAILSEND	1: ON, 0: OFF	OFF	
24-23	NEW 5 WAKE UP USAGE	1: ON, 0: OFF	OFF	
24-24	ACD GROUP INDICATION	0: OFF, 1: ON RING, 2: ON LED	OFF	
	Р	GM: 162 - Systen	n Password	
1	Admin Password	Max 12 digits	-	
2	Maintenance Password	Max 12 digits	-	
	ı	PGM: 163 - Alarm	Attributes	
1	Alarm Enable	1: ON, 0: OFF	OFF	
2	Alarm Contact Type	1: Close, 0: Open	Close	
3	Alarm/Door Bell Mode	1: Alarm, 0: Door-Bell	Alarm	
4	Alarm Signal Mode	1: Repeat, 0: Once	Repeat	
5	Emergency call notification	0: OFF 1: ON	ON	
6	DCOB Fault notification	0: OFF 1: ON	ON	
7	SIP registration fault notification	0: OFF 1: ON	ON	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
	PGI	M: 164 - Attendan	t Assignment	
1	Attendant Assignment	Station	1: 100 (1000)	Button 1 : System Attendant Button 2: Main Attendants
	PG	M: 165 - Multicas	t RTP / RTCP	
1	Multicast RTP	Flex 1 – 61	8100-8220	Max 4 digit
2	Multicast RTCP	Flex 1 – 61	8101 - 8221	Max 4 digit
		PGM: 166 - DIS	SA COS	
1	Day mode COS	1~11	1	
2	Night mode COS	1~11	1	
3	Timed mode COS	1~11	1	
	PG	M: 167 - DID/DISA	A Destination	
1	Busy Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce
2	Error Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce
3	No Answer Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce
4	VSF Prompts usage	Flex 1~5	Flex 1~5: ON	1: ON, 0: OFF
5	Reroute Busy Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
6	Reroute Error Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
7	Reroute No Answer Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
8	DND Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
9	Reroute Net CO busy Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
	PGM:	168 - External Co	ontrol Contacts	
1	First Contact	1~3	-	1: LBC, 2: Door, 3: Ext. 1,
2	Second Contact	1~3	-	1: LBC, 2: Door, 3: Ext. 1,
	PGM: 169	- LCD Date/Time	& Language Mode	
1	Date Display Mode	1: MMDDYY 0: DDMMYY	MMDDYY	
2	Time Display Mode	1: 12H, 0: 24H	12H	
3	Language Display Mode	00~17	00 (Eng)	
4	Weekday Display Mode	0~2	0	0 : PGM 169 BTN 1 1 : MM/DD WDY 2 : MM DD WDY
	PGM: 170	- Flexible Button	LED Flashing Rate	
1	CO Incoming Ring Flashing Rate	00~14	FLASH 30 IPM (2)	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	CO Transfer Ring Flashing Rate	00~14	FLASH120 IPM(10)	
3	CO Queue Ring Flashing Rate	00~14	FLASH240 IPMFLUTTER(6)	
4	CO Recall Ring Flashing Rate	00~14	FLASH480 IPMFLUTTER(8)	
5	CO I Hold Flashing Rate	00~14	FLASH 30 IPM WINK(12)	
6	CO System Hold Flashing Rate	00~14	FLASH 60 IPM (3)	
7	CO Exclusive Hold Flashing Rate	00~14	FLASH120 IPM(10)	
8	CO Out-going disabled Flashing Rate	00~14	FLASH240 IPMFLUTTER(6)	
9	CO incoming call off-net forward Flashing Rate	00~14	FLASH240 IPMFLUTTER(6)	
10	CO DISA Indication Flashing Rate	00~14	FLASH240 IPM(5)	
11	CO supplementary call waiting Flashing Rate	00~14	FLASH240 IPMFLUTTER(6)	
12	CO Supplementary Hold Flashing Rate	00~14	FLASH480 IPM(7)	
13	DSS button Flashing Rate for CO Ring	00~14	FLASH 30 IPM (2)	
14	DSS button Flashing Rate for ICM all Call	00~14	FLASH 60 IPM (3)	
15	DSS button Flashing Rate for ICM Ring associate	00~14	FLASH120 IPM(10)	
16	DSS button Flashing Rate for a station in DND	00~14	FLASH 60 IPM (3)	
17	DSS button Flashing Rate for a station in Lock-out	00~14	FLASH480 IPMFLUTTER(8)	
18	DSS button Flashing Rate for a station in pre-selected message mode	00~14	FLASH 30 IPM (2)	
19	DSS button Flashing Rate for a station in ICM Hold	00~14	FLASH 60 IPM (3)	
20	DSS button Flashing Rate for a station in other case	00~14	FLASH120 IPM(10)	
21	CIQ #1 Threshold	00~14	FLASH 60 IPM (3)	
22	CIQ #2 Threshold	00~14	FLASH120 IPM(10)	
23	CIQ #3 Threshold	00~14	FLASH240 IPM(5)	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24	ACD DND button	00~14	FLASH120 IPM(10)	
25	ACD Warning tone	00~14	FLASH120 IPM(10)	
26	ACD Help Button	00~14	FLASH120 IPM(10)	
27	Voice Record button	00~14	FLASH240 IPM(5)	
28	Message Wait button	00~14	FLASH 30	
20	wessage wan bullon	00~14	IPM (2)	
29	DSS Out-of-service state	00~14	FLASHOFF (00)	
30	On-demand Ring mode	00~14	FLASH 60 IPM (3)	
31	Night Ring mode	00~14	FLASHSTEADY(01)	
32	Timed Ring mode	00~14	FLASH240 IPM(5)	
33	Auto Ring mode	00~14	FLASH480 IPM(7)	
0.4	David Hald David	00.44	FLASH 60	
34	Page Hold Button	00~14	IPM (3)	
35	DSS Off duty	00~14	FLASH 120IPM (10)	
		PGM: 171 - Mus	ic Source	
1	BGM Type	0~37	1	00: No BGM 01: INT Music 02: EXT Music 03: VSF MOH 04~08: SLT MOH1~5 09~37: VSF MOH2~30
2	МОН Туре	0~37	1	00: Hold tone 01: INT Music 02: EXT Music 03: VSF MOH 04~08: SLT MOH1~5 09~37: VSF MOH2~30
3	Int/Ext1 Music	00~12	Romance	00: ROMANCE 01: TURKISH MARCH 02: GREEN SLEEVE 03: FUR ELISE 04: CARMEN 05: WALTZ 06: PAVANE 07: SICHILIANO 08: SONATA 09: SPRING 10: CAMPANELLA 11: BADINERIE 12: BLUE DANUBE

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
		F1: SLTMOH1		
		F2: SLTMOH2		
4	SLT MOH	F3: SLTMOH3		
		F4: SLTMOH4		
		F5: SLTMOH5		
5	VSF MOH 2	01-70	N/A	
6	VSF MOH 3	01-70	N/A	
7~33	VSF MOH 4~30	01-70	N/A	
	P(GM: 172 - PBX Ac	cess Codes	I
1 –4	PBX Access Code	Max 2 digits	-	Maximum 4 PBX access code
	PGM: 17	3 - Ringing Line I	Preference Priority	
1	Transfer CO Call	1~4	1	
2	Recalling CO Call	1~4	2	
3	Incoming CO Call	1~4	3	
4	Queued CO Call	1~4	4	
	PG	M: 174 - RS-232 I	Port Settings	
				1: Unused
				2: 9600 BAUD
	Baud Rate	1~6	115200	3: 19200 BAUD
1				4: 38400 BAUD
				5: 57600 BAUD
				6: 115200 BAUD
2	CTS/RTS	1: ON, 0: OFF	OFF	
3	Page Break	1: ON, 0: OFF	OFF	
4	Line Page	001~199	066	
5	XON/XOF	1: XON,	XOFF	
3	X014/X01	0: XOFF	XOLL	
	PGM: 1	75 - Serial Port F	unction Selection	
	Print Port Selection	Flex 1~2		Flex 1: Select Print Port,
	Thirt of Colodion	1 10A 1 - Z		Flex 2: Select TCP port
1	Select Print Port		SERIAL1	1-2: Serial,
	SOIGHT HILL OIL		CENTALI	3-5: dynamic TCP port
1-1	Off-line SMDR/Statistics Print	1~7	SERIAL1	
1-2	Admin Print	1~7	SERIAL1	
1-3	Traffic Print	1~7	SERIAL1	
1-4	SMDI Print	1~7	SERIAL1	
1-5	Call Info Print	1~7	SERIAL1	
1-6	On-line SMDR Print	1~7	SERIAL1	
1-7	Trace Print	1~5	SERIAL1	
1-8	Debug Print	1~7	SERIAL1	
1-9	ACD Package Print	1~7	SERIAL1	
2	Select TCP port			

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2-1	Off-line SMDR/Statistics Print	1-9999	NULL	
2-2	Admin Print	1-9999	NULL	
2-3	Traffic Print	1-9999	NULL	
2-4	SMDI Print	1-9999	NULL	
2-5	Call Info Print	1-9999	NULL	
2-6	On-line SMDR Print	1-9999	NULL	
2-7	Trace Print	1-9999	NULL	
2-8	Debug Print	1-9999	NULL	
2-9	ACD Package Print	1-9999	NULL	
2-10	ISMDR Print	1-9999	NULL	
	P	GM: 176 - Break/	Make Ratio	-
1	Break/Make ratio	1: 66/33 0: 60/40	60/40	
	F	PGM: 177 - SMDR	Attributes	
1	SMDR Save Enable	1: ON, 0: OFF	OFF	
2	SMDR Print Enable	1: ON, 0: OFF	ON	ON: Real-time, OFF: Ondemand
3	SMDR Recording Call Type	1: LD, 0: ALL	LD	LD: Long Distance, ALL: All
4	SMDR LD Call Digit Counter	07~15	07	
5	Print Incoming Call	1: ON, 0: OFF	OFF	
6	Print Lost Call	1: ON, 0: OFF	ON	
7	Records in Detail	1: ON, 0: OFF	ON	
8	SMDR Dial Digit Hidden	0~9	0	
9	SMDR Currency unit	3 Characters	-	
10	SMDR Cost Per Unit Pulse	6 digits	000000	
11	SMDR Decimal Location	0~5	0	
12	SMDR Start Timer	000~250	000	1 sec increments
13	SMTP Mail Server Address	12 digits		
14	User Mail Address	e-mail address		40 character modify via Web only
	SMDR System Domain Name	18 characters		Web only
15	Mail Send Weekly Set	0-7	0	
16	Mail Send Daily Set	00-23	00	
17	Auto Send Mode	1: ON, 0: OFF	OFF	
18	Auto Delete Mode	1: ON, 0: OFF	OFF	
19	SMDR Long Distance Codes	Flex 1~Flex 5	0	Maximum 5 LD codes, 2 digits each
20	SMDR Ring/CLI/CPN (SVC_1)	0: Ring 1: CLI 2: CPN	RING	For incoming call, 0: Ring Service Time, 1: CLI, 2: CPN, 3: None Dialed number for outgoing call

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
21	MSN Print on SMDR	1: ON, 0: OFF	OFF		
22	SMDR Ring/CLI/CPN (SVC_2)	0: Ring 1: CLI 2: CPN 3: None	CPN	For incoming call, 0: Ring Service Time, 1: CLI, 2: CPN, 3: None	
23	Print Serial No	1: ON, 0: OFF	OFF		
24	SMDR Attributes	01-19			
24-1	Hidden digit location	1: Right, 0: Left	Left		
24-2	SMDR Interface Service	1: ON, 0: OFF	OFF		
24-3	SMDR ICM Save	1: ON, 0: OFF	OFF		
24-4	SMDR ICM Print	1: ON, 0: OFF	OFF		
24-5	SMDR Disconnect Cause	1: ON, 0: OFF	OFF		
24-6	Long Time Call(10min)	000-144	000		
24-7	SMDR No Out Net Call	1: ON, 0: OFF	OFF		
24-8	Unused				
24-9	Unused				
24-10	SMTP Mail Server ID	40 characters			
24-11	SMTP Mail Server PWID	20 characters			
24-12	Transferred Call Charge Rate	0,1,2	Individual	O: Individual 1: Integrate Transferring Station 2: Integrate Transferred Station	
24-13	Attendant Transfer Charge Rate	0,1,2	Individual	O: Individual 1: Attendant Charging 2: Transferred Station Charging	
24-14	SMTP Mail Server Domain Address	100 Character			
24-15	SMTP sender Mail (WEB)	Max 40 Characters	-		
24-16	SMTP security	0-2 0:No security 1:SSL 2:TLS	0		
24-17	SMTP port	1-65535	25		
24-18	VSF VM Display	0:'l' 1:'V'	0:'1'		
24-19	Display N type	1:ON, 2:OFF	OFF		
	PGM: 178 - System Date & Time				
1	System Time	нн:мм	-	Hour/Minute sequence.	
2	System Date	MMDDYY	-	Month/Day/Year sequence	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
3	DST Enable Mode	0: OFF, 1: ON	OFF	Activate / deactivate DST ability
4	DST Start Time	See DST Table	2nd Sunday of March at 2:00 AM	Web Only, DST Table format
5	DST End Time	See DST Table	1st Sunday in Nov. at 2:00 AM	Web Only, DST Table format
	PGN	⊥ I: 179 - Multi-Lang		Torrida
1	1st language	1: ON, 0: OFF	ON	US
2	2nd Language	1: ON, 0: OFF	OFF	Korea
3	3rd Language	1: ON, 0: OFF	OFF	Turkey
4	4th Language	1: ON, 0: OFF	OFF	Russia
5	5th Language	1: ON, 0: OFF	OFF	Australia
6	6th Language	1: ON, 0: OFF	OFF	Germany
		PGM: 180 - Syste		,
1	ATD Recall Timer	00~60	01	1 min increments
2	Call Park Timer	000~600	120	1 sec increments
3	Camp-On Recall Timer	000~200	030	1 sec increments
4	Exclusive Hold Recall Timer	000~300	060	1 sec increments
5	I-Hold Recall Timer	000~300	030	1 sec increments
6	System Hold Recall Timer	000~300	030	1 sec increments
7	Transfer Recall Timer	000~300	030	1 sec increments
8	ACNR Delay Timer	000~300	030	1 sec increments
9	ACNR Pause Timer	030~300	030	1 sec increments
10	ACNR Retry Counter	1~13	3	
11	ACNR Tone Detect Timer	001~300	030	1 sec increments
12	Automatic CO Release Timer	000~300	030	1 sec increments
13	CCR Inter-digit Timer	000~300	030	100 msec increments
14	CO Restrict Timer	00~99	00	1 minute increments
15	CO Dial Delay Timer	00~99	05	100 msec increments
16	CO Release Guard Timer	010~150	020	100 msec increments
17	CO Ring Off Timer	010~150	060	100 msec increments
18	CO Ring On Timer	1~9	2	100 msec increments
19	CO Elapsed Call Timer	005~900	180	1 sec increments
20	Web Password Guard Timer	001~999	5	1 min increments
21	On hook idle Timer	00~99	0	1 sec increments
22	Call recording repeat time	000~999	0	
		PGM: 181 - Systei	m Timers II	
1	Call Fwd No Answer Timer	000~600	015	1 sec increments
2	DID/DISA No Answer Timer	000~255	000	1 sec increments
3	VSF User Max Record Timer	000~999	60	1 sec increments
4	VSF Valid User Message Timer	0~9	4	1 sec increments

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
5	Door Open Timer	05~99	20	100 msec increments	
6	ICM Dial Tone Timer	01~20	10	1 sec increments	
7	Inter-Digit Timer	01~20	05	1 sec increments	
8	Message Wait Reminder Tone Timer	00~60	00	1 min increments	
9	Paging Timeout Timer	000~255	015	1 sec increments	
10	Pause Timer	1~9	3	1 sec increments	
11	3-Soft Auto Release Timer	01-30	10	1 sec increments (Reserved for new keyset)	
12	VM Pause Timer	1-90	30	100 msec increments (Except USA version)	
13	VSF cut error Timer	1-90	00	1 sec increments	
14	Unused				
15	Emergency retry timer	00~99 (1 sec.)	00	1 sec increments	
16	Error tone timer	005~180 (1 sec.)	30	1 sec increments	
17	Howling tone timer	000~180 (1 sec.)	30	1 sec increments	
18	Notification play delay	1~99 (1 sec.)	10	1 sec increments	
19	Short Modem timer	1~60 (1 sec.)	10	1 sec increments	
	P	GM: 182 - System	n Timers III		
1	SLT Hook Switch Bounce Timer	01~25	01	100 msec increments	
2	SLT Max Hook Switch Flash Timer	01~25	07	100 msec increments	
3	SLT Min Hook-flash Timer	000~250	010	10 msec increments	
4	Station Auto Release Timer	000~300	060	1 sec increments	
5	Unsupervised Conference Timer	00~99	10	1 minute increments	
6	Prime Line Delay Timer	01~20	05	1 sec increments	
7	Wink Timer	010~200	010	10 msec increments	
8	En-block Inter-Digit Timer	01~20	5	1 sec increments	
9	DTMF Duration Timer	04~99	10	10 msec increments	
10	Flexible DID Timer	01~99	30	100 msec increments	
11	Wakeup fail Timer	00~99	20	1 sec increments	
12	Prepaid warn timer	00~99	00	1 sec increments	
	P	GM: 183 -In room	indication		
1	Supervisor				
2	Member 01~20				
	PGM: 186 - DCOB System Attributes				

BTN	SUB-MENU	RANGE	DEFAULT	REMARK			
1	R2 Out manage Timer	01~50	14	1 sec increments			
2	R2 Incoming manage Timer	01~50	14	1 sec increments			
3	R2 Disappear Timer	01~50	14	1 sec increments			
4	R2 Pulse Timer	01~30	07	20 msec increments			
5	R2 Ready Timer	000~500	07	20 msec increments			
6	R2 Dial tone Delay Timer	01~30	20	1 sec increments			
		PGM: 195 – NTP	Attributes				
1	Network Time/Date	0 : Disable 1: ISDN 2: NTP	Disable	TIME SOURCE			
	PC	6M: 253 – VM CO	S Attributes				
1	Greeting Length	00-99	60				
2	Message Length	000-600	0				
3	Number Of Messages	000-250	0				
4	Retention Time	00-99	0				
5	E-mail Notification	0, 1, 2	Notification& Delete	0: OFF 1: Notification 2: Notification& Delete			
6	Future Delivery Message	1: ON, 0: OFF	OFF				
7	Confirm Message Receipt	1: ON, 0: OFF	OFF				
8	Private Message Mark	1: ON, 0: OFF	OFF				
	PGM: 260 – Personal Group						
1	Master Station	Station Range	-				
2	Member Station	Station Range	-				
	PGM: 261 – Personal Group Attributes						
1	Use Master Wake Up	1: ON, 0: OFF	OFF				
2	Use Master Call Forward	1: ON, 0: OFF	ON				
3	Use Master DND	1: ON, 0: OFF	OFF				
4	Set linked pair	1: ON, 0: OFF	OFF				

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
	PGM: 190 - Sta	ation Group Assi	gnment, 401 – 4	39
1	Group Type	0~10	0	0: No Assignment 1: Circular 2: Terminal 3: UCD/ACD 4: Ring 5: VM 6: Pick-Up 7: VSF-VM 8: UMS 9: NET-VM 10: UCS
2	Pick-up Attribute	1: ON, 0: OFF	OFF	Not applicable VM group
3	Circular group			
	PGM: 191 - Stati	ion Group Attribu		ype
		CIRCULAR GRO		
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	No Answer Timer	00~99	15	1 second increments
11	Pilot Hunt	1: ON, 0: OFF	ON	
12	Report No Member	1: ON, 0: OFF	OFF	
13	Music Source	00~37	1	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04~08: SLT MOH1~5 09~37: VSF MOH2~30
14	Member Forward	1: ON, 0: OFF	ON	
15	Mailbox Message Wait Station	Station Number	None	
16	Mailbox Password	12 digits	None	
17	Forced destination	1~4		
18	Forced forward destination usage	1: ON, 0: OFF	OFF	
19	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
20	Group name	20 character		
21	Maximum queue call count	00-99	99	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
		TERMINAL GRO	UP	
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	No Answer Timer	00~99	15	1 second increments
11	Pilot Hunt	1: ON, 0: OFF	ON	
12	Report No Member	1: ON, 0: OFF	OFF	
13	Music Source	00~37	1	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04~08: SLT MOH1~5 09~37: VSF MOH2~30
14	Member Forward	1: ON, 0: OFF	ON	
15	Mailbox Message Wait Station	Station Number	None	
16	Mailbox Password	12 digits	None	
17	Forced destination	1~4		
18	Forced forward destination usage	1: ON, 0: OFF	OFF	
19	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
20	Group name	20 character		
21	Maximum queue call count	00-99	99	
		UCD/ACD GRO	UP	
1	VSF Announce 1 Timer	000~999	15	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	00	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	000	1 second increments
10	Report No Member	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
11	Music Source	0~37	1	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04~08: SLT MOH1~5 09~37: VSF MOH2~30
12	ACD Warning Tone	1: ON, 0: OFF	OFF	
13	Alternate Destination	Station/Group /Speed		
14	Supervisor Timer	000~999	030	1 second increments
15	Supervisor Call Count	00~99	00	
16	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
17	Maximum Queued Call Counter	00~99	99	
18	Supervisors	Station	-	Max, 5 station can be supervisors
19	UCD/ACD Station Priority	0~9	0	
20	ACD DND Wrap-up Timer	002~200	010	1 second increments
21	ACD ICLID Usage	1: ON, 0: OFF	OFF	When guaranteed announcement is used
22	ACD Group Name	20 Character	-	
23	ACD CIQ Route	Flex 1 ~ 10		Flex 10: when caller dial "0" Flex 1~9: caller digit 1~9 Ex.) When Flex 1 is pressed 1: Station Number 2: Hunt Group Number 3: System Speed Number 4: Network Station Number
24	ACD Sub Attribute	Flex 1-20		
24-1	Zap Tone	1: ON, 0: OFF	OFF	
24-2	Mailbox Message Wait Station	Station Number	None	
24-3	Mailbox Password	12 digits	None	
24-4	Call In Queue Display	1: ON, 0: OFF	OFF	
24-5	Forced forward destination usage	1: ON, 0: OFF	OFF	
24-6	Call In Queue #1 Threshold	00~99	10	
24-7	Call In Queue #1 Announcement Location	00~200		
24-8	Call In Queue #1 Page zone	00~15 or 00~40	00	
24-9	Call In Queue #1 Announcement Delay Timer	000~180	015	1 second increments
24-10	Call In Queue #1 Announcement Repeat Timer	000~180	045	1 second increments
24-11	Call In Queue #2 Threshold	00~99	20	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-12	Call In Queue #2 Announcement Location	00~200		
24-13	Call In Queue #2 Page zone	00~15 or 00~40	00	
24-14	Call In Queue #2 Announcement Delay Timer	000~180	015	1 second increments
24-15	Call In Queue #2 Announcement Repeat Timer	000~180	025	1 second increments
24-16	Call In Queue #3 Threshold	00~99	30	
24-17	Call In Queue #3 Announcement Location	00~200		
24-18	Call In Queue #3 Page zone	00~15 or 00~40	00	
24-19	Call In Queue #3 Announcement Delay Timer	000~180	015	1 second increments
24-20	Call In Queue #3 Announcement Repeat Timer	000~180	005	1 second increments
24-21	Call in Queue Mention	1: ON, 0: OFF	OFF	
24-22	ACD No-answer Timer	000 ~ 180	000	1 second increments
24-23	Member Forward	1: ON, 0: OFF	ON	
24-24	Forward destination	1-4		
		RING GROUP	·	,
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	00	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	Music Source	0~37	1	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04~8: SLT MOH1~5 09~37: VSF MOH2~30
11	Maximum Queued Call Counter	00~99	99	00 -07. VOI WOTIZ~00
12	Member Forward	1: ON, 0: OFF	ON S	
13	Mailbox Message Wait Station	Station Number	None	
14	Mailbox Password	12 digits	None	
15	Forced destination	1~4	140116	
10	i orceu uesullation	1~4	<u> </u>	l

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
16	Forced forward destination usage	1: ON, 0: OFF	OFF	
17	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
18	Group name	20 characters		
		External VM GRO	UP	
1	Wrap-Up Timer	000~999	000	1 second increments
2	Put Mail Index	1~4	1	
3	Get Mail Index	1~4	2	
4	VM Group Hunt Type	1: Circular 0: Terminal	Terminal	
5	Overflow Timer	000~600	180	1 second increments
6	Overflow Destination	Station/Group orSystem Speed	-	
7	Forced forward usage	0: OFF / 1: ON	OFF	
8	Forced forward destination	1-4		
9	Group name	20 characters		
10	Server type	0: IPCR 1: 3rd	3rd	
11	Server number	01-10		
12	Member type	0: SIP 1: SLT	SIP	
13	Server capacity	000~140	0	
		PICK-UP GROU	Р	
1	Auto Pick-Up	1: ON, 0: OFF	OFF	
2	All Group Member Ringing	1: ON, 0: OFF	OFF	
		VSF-VM GROU	Р	
1	Retention	00 ~ 99	00	1 Day increments
2	Dial time	00 ~ 99	15	1 second increments
3	Group name	20 characters		
		UMS GROUP		
1	VSF Announce 1 Timer	000~999	15	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	01~70	00	
4	VSF Announce 2 Location	01~70	00	
5	VSF Announce 2 Repeat Timer	000~999	00	
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	No Answer Timer	00~99	15	1 second increments
10	Pilot Hunt	1: ON, 0: OFF	ON	
11	Alternate Destination	Station/Group		

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
12	Hunt Type	1: Circular	Circular		
12	нин туре	0: Terminal	Circulai		
13	Wrap-Up Timer	002~999	002	1 second increments	
1.1		0: OFF	OFF		
14	Forced forward usage	1: ON	OFF		
15	Forced forward destination	1-4			
16	Group name	20 characters			
		UCS GROUP			
	Select UCS	Flex 1			
1	UCS Server	01 ~ 16	1	Only selection 1 is supported	
	PGM: 192 - Pick up Group Assignment				
1	Member assignment	Station	-		

Table C-8 ISDN LINE & ICLID ROUTING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
	PC	GM: 200 - ISDN At	tributes	
1	CO ATD CODE	2 digits	-	
2	CLI Print To Serial	1: ON, 0: OFF	OFF	
3	Display DID info	1: ON, 0: OFF	OFF	
4	Print Destination in CLI Print	1: ON, 0: OFF	OFF	
	PG	M: 201 - CLIP/CO	LP Table	
1	CLIP/COLP Table	00~49		
		PGM: 202 - MSN	Table	
1	CO range			
2	Index	000~999		Index to PGM 231 Table
3	Telephone number	23 digits		
	PG	M: 203 - ICLID Ro	ute Table	
1	Index	001~250	-	The bin no of PGM 204
2	ICLID Telephone number	24 digits	-	
3	ICLID Name	12 characters		
4	ICLID Tone	01~12		2 digits
	PGM: 204	- ICLID RING Ass	signment Table	
1	Day	Station/Group		Flex 1: Station + Delay
2	Night	Station/Group		(0~9 ring cycles)
				Flex 2: Hunt group
				Flex 3: VSF announcement
3	Timed Ring	Station/Group		(01~70)
				Flex 4: AA Ring delay Time
				(00~30 sec.)
	Р	GM: 205 - PPP Att	ributes	
1	PPP Destination Station number	Station Number	None	

Table C-8 ISDN LINE & ICLID ROUTING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	PPP User ID 1	12 Characters	likppp01	
3	PPP Password 1	12 Characters	lpkts01	
4	PPP User ID 2	12 Characters	likppp02	
5	PPP Password 2	12 Characters	lpkts02	
6	Server IP address	IP address		
7	Client IP address	IP address		
	PGM: 206	- PREFIX Dialing	Table Attributes	
1	PREFIX CODE	Max. 8 digits	-	
2	TABLE ID	0-6	0	
3	MIN DIGIT	00-30	0	
4	MAX DIGIT	00-30	0	
				0:Unknown
				1:International
			0 (UNKNOWN)	2:National
5	NUM OF TYPE	0-6	0 (UNKNOWN)	3:Network Spec.
				4:Subscriber
				5:Abbreviated
				6:Reserved
				0:Unknonw
				1:ISDN/Telephony
				2:Data numbering
6	NUM PLAN	0-6	0 (UNKNOWN)	3:Telex
				4:National standard
				5:Private
				6:Reserved
7	SENDING COMPLETE	1:ON / 0:OFF	OFF	
				0:Unknown
				1:Local
8	CALL CHARGE TYPE	0-5	0 (UNKNOWN)	2:Long Distance
	-			3:International
				4:Mobile
				5:reserved
9	CALL CHARGE TIMER	000-999	000	
10	Prefix table			

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
	PGM: 220 - LCR Control Attributes					
1	LCR Access Mode	1~6	M00	1: M00, 2: M01, 3: M02 4: M11, 5: M12, 6: M13		
2	Set the Day of week zone	MON	1~3	1		

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
	2	TUE	1~3	1
	3	WED	1~3	1
	4	THUR	1~3	1
	5	FRI	1~3	1
	6	SAT	1~3	1
	7	SUN	1~3	1
3	Set the Time Zone of Day zone1			
3	1~3	00~24		
4	Set the Time Zone of Day zone1			
4	1~3	00~24		
5	Set the Time Zone of Day zone1			
5	1~3	00~24		
	PGM:	221 - LCR Leading	g Digit Table	
1	LCR Type	1~3	Both	1: Internal 2: CO Line, 3: Both
2	Code (leading digit)	Max. 12 digits	-	
3	Day Zone 1 DMT	6 digits		Time Zone 1~3: 2 digits each
4	Day Zone 2 DMT	6 digits		Time Zone 1~3: 2 digits each
5	Day Zone 3 DMT	6 digits		Time Zone 1~3: 2 digits each
6	Check Password	1: ON, 0: OFF	OFF	LCR code authorization
	PGM: 22	22 - LCR Digit Mod	ification Table	
1	Added Digit	Max. 25 digits		
2	Removal Position	01~12	01	
3	Number of Remove digits	00~12	00	
4	Add Position	01~13	01	
5	CO/IP Group	01-21	01	
6	Alt Index	00~99	-	
7	Net num plan bin	000~251		
8	SMDR code	4 digit		
	PGM:	223 - LCR Table I	nitialization	
1	DMT Of Day zone 1	6 digits		Time Zone 1~3: 2 digits each
2	DMT Of Day zone 2	6 digits		Time Zone 1~3: 2 digits each
3	DMT Of Day zone 3	6 digits		Time Zone 1~3: 2 digits each
4	CO Group Init	01-21		
5	Alt Index Init	00~99		
6	Initialize All LCR			
		PGM: 224 - TOLL	Table	
1	Allow Table A (01~50)	Max. 20 digits	-	
2	Deny Table A (01~50)	Max. 20 digits	-	
3	Allow Table B (01~50)	Max. 20 digits	-	
4	Deny Table B (01~50)	Max. 20 digits	-	
5	Allow Table C (01~50)	Max. 20 digits	-	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
6	Deny Table C (01~50)	Max. 20 digits	-	
7	Allow Table D (01~50)	Max. 20 digits	-	
8	Deny Table D (01~50)	Max. 20 digits	-	
9	Allow Table E (01~50)	Max. 20 digits	-	
10	Deny Table E (01~50)	Max. 20 digits	-	
	PGM:	226 - Emergency	Code Table	
	Emergency Code Table (01~10)	Max. 15 digits		
	PGM: 2	27 - Authorization	Code Table	
	Table entry	Max. 12 digits		Flex 1: Station Flex 2: System
1	Station Authorization code			
1-1	Station Authorization code	Max. 12 digits		
2	System Authorization code	001~360		
2-1	System Authorization code	Max. 12 digits		
2-2	Set COS	Flex1~3		
	PGM: 22	8 - Customer Call	Routing Table	
	CCR Table index	01 ~ 70		
1~14	Select Flex 1 ~ 15 1: Station 2: Hunt Group 3: System Speed 4: PABX Xfer 5: VSF Announcement 6: Call DisconnectAnnouncement 7: Route to Networked Station 8: Conference Room 9: Internal Page 10: External Page 11: All Call Page 12: Voice Mail (Station Group) 13: Company Directory 14: Record VM Greeting 15: Room Type Conf Group Join	Station	-	
	PGM: 2	29 - Executive/Se	cretary Pairs	
1	Executive/Secretary Pair	Station	36 entries	
2	CO Call to Secretary	ON/OFF	OFF	
3	Call to Exec if Secretary in DND	ON/OFF	OFF	
4	Executive grade	01 ~ 12	12	
5	ICM call to SEC	0: OFF 1: ON	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
6	SEC auto answer	0: OFF	OFF	
		1: ON		
7	EXEC GROUP	00-50	00	
		- Flexible DID Co	nversion Table	
1	DID Destination Name	11 characters	-	
2	Day Destination	1~15	-	1: station 2: group 3: System 4: PBX Xfer 5: VSF
3	Night Destination	1~15	-	6: VSF & Disconnect 7: Networked Station 8: Conference Room 9: Int Page 10: Ext Page
4	Timed Ring Destination	1~15	-	11 : All Page 12 : VM 13 : ICLID Table 14 : Company Directory 15 : Record VM Greeting
5	Reroute Destination	1~16	-	16: Room Type Conf Group Join
6	Use ICLID	ON/OFF	OFF	
7	Auto Ring Table	(00-16),16:N/A	N/A	
8	МОН	00-37	00	
9	Ring Tone	(00-12), 0:N/A	N/A	
	PGN	1: 232 - System Տր	peed Zone	
1	Speed Bin Range in Zone	2200~4999	2200~4999	
2	Station Range	100~239	100~239	
3	Toll Checking	1: ON, 0: OFF	ON	
4	Authorization check	1: ON, 0: OFF	ON	
	PGM: 233 Auto Ring Mo		Day/Night/Timed	I RING) Table
1	Monday Timer	0000~2359		
2	Tuesday Timer	0000~2359		
3	Wednesday	0000~2359		Assign Day, Night and Timed
4	Thursday	0000~2359		start times Default 0900,
5	Friday	0000~2359		1800, none
6	Saturday	0000~2359		
7	Sunday	0000~2359		
		: 234 - Voice Mail		
1	VM dial codes 1	12 digits	P#	1: Prefix/2: Suffix/Any digits
2	VM dial codes 2	12 digits	P##	1: Prefix/2: Suffix/Any digits
3	VM dial codes 3	12 digits	P#*3P	1: Prefix/2: Suffix/Any digits

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
4	VM dial codes 4	12 digits	P#*4P	1: Prefix/2: Suffix/Any digits
5	VM dial codes 5	12 digits	P#*5P	1: Prefix/2: Suffix/Any digits
6	VM dial codes 6	12 digits	P#*6P	1: Prefix/2: Suffix/Any digits
7	VM dial codes 7	12 digits		1: Prefix/2: Suffix/Any digits
8	VM dial codes 8	12 digits		1: Prefix/2: Suffix/Any digits
9	VM dial codes 9	12 digits	****	1: Prefix/2: Suffix/Any digits
	PGM:	235 – MAC Regist	ration Table	
1	Mac Address Information		-	
2	Max port of device	00~99	0	
3	Device ID	0~255	0 (N/A)	
	PGM:	236 - Mobile Exte	nsion Table	
1	Program Authority	1: ON, 0: OFF	OFF	
		0: Disable		
2	Access Authority	1: Mobile EXT.	Disable	
		2: Fail over		
3	CO Group	01-20	01	
4	Telephone number			
5	Mobile extension CLI			
6	Hunt Call enable	1: ON, 0: OFF	OFF	
7	VSF Notify	1: ON, 0: OFF	OFF	
8	Notify Retry	1 to 9 Times	3 Times	
9	Retry Interval	1 to 3 minute	3 minute	
10	Notify by My CLI	0: OFF, 1: ON	OFF	
11	Call back	0: OFF, 1: ON	OFF	
12	Delay timer	000~255	0	
13	Announcement	0~200	0	
14	Suffix DID table	0: OFF, 1: ON	OFF	
	PGN	1: 250 –Hot Desk	Attributes	
1	Number of Agents	000~140	000	
2	View Agent Range		N/A	
3	Auto Logout Timer	00~24	00	1 hours increments
		M: 252 –CO Call F	1	ı
1	Enable CRR	1: ON, 0: OFF	OFF	
2	Init CRR			
3	CRR attributes	000~169		
3-1	Compare CO group	01~20	01	
3-2	Receive digit	Max. 12 digits		
3-3	CO+TEL number	Max. 20 digits		
3-4	Туре			
	PGM:	270 –Digit conve	rsion table	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
		0: Unconditional		
1	Apply time	1: Follow DNT	Unconditional	
		2: Follow LCR		
2	Dialed digit	Max.24 digits		
3	Unconditionally changed	Max.24 digits		
4-15	Changed digit	Max.24 digits		
16	Ring mode table	00–15, none	0	
		0: All		
17	A 1	1: Reserved	A II	
17	Apply option	2: CO line	All	
		3: Disable		

Table C-10 NETWORKING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
	PGM: 3	320 - Network Bas	ic Attributes		
1	Networking Enable	1: ON, 0: OFF	OFF		
2	Retry Count	00~99	00		
3	CNIP Enable	1: ON, 0: OFF	ON		
4	CONP Enable	1: ON, 0: OFF	OFF		
5	Signal Method	1: FAC, 0: UUS	FAC		
6	CAS Enable	1: ON, 0: OFF	OFF	(Not used)	
7	VPN Enable	1: ON, 0: OFF	OFF	(Not used)	
8	CC Retain Mode	1: ON, 0: OFF	OFF	(Not used)	
	PGM: 321 - Network Supplementary Attributes				
1	Transfer Mode	1: REROUTE 0: JOIN	REROUTE		
2	TCP Port for BLF	0000~9999	9500		
3	UDP Port for BLF	0000~9999	9501		
4	BLF Manager IP Address	IP address	0.0.0.0	(#: Skip)	
5	Duration of BLF STS	01~99	10	100 ms increments	
6	Multicast IP Address	IP address	0.0.0.0	(#: Skip)	
7	Transfer Fault Recall Timer	001~300	10	1 second increments	
8	VoIP Call Reroute	00~20	00		
9	BLF service usage	1: ON, 0: OFF	ON		
	PGM: 32	22 - Network CO L	ine Attributes		
1	Network CO Line Group	00~24	00	CO group programming for Networking call between systems.	
2	Net CO Line Type	0: PSTN 1: NET	PSTN		
	PGM: 324	- Network Number	ering Plan Table		

Table C-10 NETWORKING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
1	System Use	0: NET	NET	
	1: PSTN	1121		
2	Numbering Plan Code	16 digits	-	
3	Numbering Plan Net CO Group	00~24		
4	CPN Information	Flex 1~2	-	
5	Alternate Speed Bin	2000~4999	-	
6	Destination MPB IP Address	IP address	0.0.0.0	(Skip: #)
7	Destination MPB Port No	0000-9999	5588	
8	Digit Repeat	0: NO, 1: YES	NO	
9	Net PSTN En-block	0: NO, 1: YES	NO	
10	CO ATD code CLI	1: ON, 0: OFF	OFF	
11	Firewall	1: ON, 0: OFF	OFF	
12	AUTHO CODE COS USE	0: NO, 1: YES	NO	
13	SMDR DIAL HIDDEN	0: NO, 1: YES	NO	
14	NET PSTN CLI	0: NET 1: PSTN	NET	
4.5	C:42	Max.12		
15	Site name	characters		
16	Emergency reroute	00~10	00	
	PGM:	325 - Network Fe	ature Code	
1	Net Feature Code	16 digits	-	
				1 : INT PAGE
				2 : EXT PAGE
2	Net Feature Destination	1.6		3 : ALL CALL PAGE
2	Net reature Destination	1~6	-	4: DOOR OPEN
				5:Conference Room (1-9)
				6:Call park (01-19)

Table C-11Zone Holiday Assignment

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
	PGM: 444 – Zone Holiday Assignment				
		0:DAY			
1	Ring Mode	1: NIGHT	TIMED		
'		2:TIMED			
		3: N/A			
2	Vacation	12 digits	-		
3	Holiday	4 digits	-		

Table D-12Green Mode Activation

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
	PGM: 500 – Green Mode Activation					

Table D-12Green Mode Activation

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
1	Power Save Heade	0: Disable	Disable		
I	1 Power Save Usage	1: Enable	Disable		
	0 0 10"	0: OFF	ON		
2	Power On/Off	1: ON	ON		
3	Power Save Mode	Flex 1~6	-		
4	Power Current State	Flex 1~6	-		
	PGM: 501 – Green Mode Time Setting				
1	Power ON Time				
2	Power OFF Time				

Table C-13 INITIALIZATION

ITEM	DESCRIPTION	REMARK		
	PGM: 450 - Initialization			
1	Flexible Numbering Plan			
2	Station Data			
3	CO Line Data			
4	System Data			
5	Station Group Data			
6	ISDN Data			
7	System Timer Data			
8	Toll Table Data			
9	LCR Table Data			
10	Other Tables			
11	Flexible Button Data			
12	Network			
13	All Data			
14	System Reset			
15	Unused	·		
16	Personal Group	·		
17	Default Password			

Table C-14 PRINT-OUT DATABASE

ITEM	DESCRIPTION	REMARK
1	Flexible Numbering Plan	
2	IP Setting Plan	
3	Station Data	Enter station range
4	CO Line Data	Enter CO range
5	System Data	
6	Station Group Data	
7	ISDN Data	
8	System Timer Data	

Table C-14 PRINT-OUT DATABASE

ITEM	DESCRIPTION	REMARK
9	Toll Table Data	
10	LCR Table Data	
11	Other Tables	
12	Nation Specific Data	
13	Flexible Button Data	Enter station range
14	All Data	
15	LCD Message	
16	QUIT Print Out	
17	String Length	10 or 20 character
18	Board Base Attributes	
19	Networking Table	
20	Hotel Data	
21	String Length	
22	Working LCD Print-out	

Table C-15 VIRTUAL DIP SWITCH

BTN	SUB-MENU	RANGE	REMARK	
	PGM: 452 - Virtual Trace Dip Switch Access			
1	Call Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
2	VoIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
3	HTTP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
4	Multicast Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
5	CTI Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
6	Raw Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
7	MPMP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
8	CPU Redundancy Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
9	MISU/VMIU Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
10	DSP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
11	SIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	
12	ISMDR Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)	

Table C-15 VIRTUAL DIP SWITCH

BTN	SUB-MENU	RANGE	REMARK		
13	SIP MSG Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
14	FULL SIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
15	Hotel Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
16	SIP EXT Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
17	DEBUG Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
18	IPATD Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
19	ISDN Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
20	SPI Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
21	DECT Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
22	HTTPXML Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
	PGM: 453 - Virtual Dip Switch Access				
1	Device Polling	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
2	SMDI Setting	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
3	Multicast LED	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
4	Auto Negotiation	MANUAL/AUTO	Press Flex Button (Toggle: ON/OFF, LED lights if trace is Manual)		
5	Full or Half duplex	FULL/HALF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is HALF)		
6	100 M or 10 M Tx/Rx bps	100/10	Press Flex Button (Toggle: ON/OFF, LED lights if trace is 10 M bps)		

Table C-16 DECT DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
	PGM: 491 - DECT ATTRIBUTES			
1	AUTO CALL RLS	ON/OFF	OFF	
2	BASE FAULT ALARM	Enable/Disable	Disable	
3	CHAIN FAULT ALARM	Enable/Disable	Disable	

Table C-17 NATION SPECIFIC

BTN	SUB-MENU	RANGE	REMARK	
PGM:	PGM: 400 - IP Phone (H/S) Receive Gain Control			
-	IPKT Rx Gain	Flex 1-8		
PGM:	401 - IP Phone (H/F) Receive Gain Cont	trol		
-	IPKT Rx Gain	Flex 1-8		
PGM:	402 - SLT Receive Gain Control			
-	SLT Rx Gain	Flex 1-8		
PGM:	403 - ACO Receive Gain Control			
-	ACO Rx Gain	Flex 1-8		
PGM:	404 - DCO Receive Gain Control			
-	DCO Rx Gain	Flex 1-8		
PGM:	422 - Tone Generation Gain			
-	Tone Generation Gain	01-37		
PGM:	423 - ACNR Tone Cadence			
-	ACNR Tone Cadence	1-5		
PGM:	424 - ACNR Ring Frequency			
-	ACNR-Ring Frequency	1-5		
PGM:	425 - SLT Tone Cadence			
-	SLT Tone Cadence	1-2		
PGM:	426 - DTMF PCM Tone Generation Gair	1		
-	DTMF PCM Tone Generation Gain	1-5		
PGM:	427 - DTMF RTP Tone Generation Gain			
-	DTMF RTP Tone Generation Gain	1-4		
PGM:	429 - LCOB Configuration			
-	LCOB Configuration Type	1-5		
PGM:	480 - WIT Phone Rx Gain Control			
-	WIT Rx Gain	Flex 1-14		
PGM:	481 - WIT Phone Tx Gain Control			
-	WIT Tx Gain	Flex 1-14		
PGM:	496 - DKT Phone (H/S) Rx Gain Control			
-	DKT(H/S) Rx Gain	Flex 1-13		
PGM:	497 - DKT Phone (H/S) Tx Gain Control	,		
-	DKT(H/S) Tx Gain	Flex 1-13		
PGM:	498 - DKT Phone (H/F) Rx Gain Control			
-	DKT(H/F) Rx Gain	Flex 1-13		
PGM:	499 - DKT Phone (H/F) Tx Gain Control			
-	DKT(H/F) Tx Gain	Flex 1-13		

Thanks for purchasing iPECS system!

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