iPECS

iPECS-MG

Web Administration Manual

Please read this manual carefully before
operating System. Retain it for future reference

Revision History

ISSUE	DATE	DESCRIPTION OF CHANGES
1. 0	2009. 12	Initial Release
1.5A	2010. 06	Update for iPECS-MG S/W V1.5 Table 1.5.2.4.1-1 Feature Numbering Codes updated Section 1.5.2.4.4 ACD Group Number added PGM 120 Gain Table Index added PGM 161 Gain Table Index added PGM 165 ISDN Progress indicator option added PGM 180 ARS service option added Section 1.5.6.10 ACD Group Assignment added Section 1.5.6.11 ACD Group Attributes added Section 1.5.6.12 ACD Group Announcement added Table 1.5.10.1-1 ISDN Board Attribute updated Section 1.5.10.4 Reset Board added
1.5B	2010. 09	Update for iPECS-MG S/W V1.5 (General edits for errata) Section 1.4 Web Admin & Maintenance Overview updated Table 1.5.1.7-1 System IP Address Plan updated Section 1.5.6.13 ACD Agent State & Priority added Section 1.5.7.3 System Password updated Section 1.5.7.10 System Date, Time updated Section 1.5.7.19 Web Access Authorization updated Section 1.5.16.1 Zone Attributes updated Section 1.5.16.4 Station Zone Attribute updated Table 1.5.18.1-1 DECT Registration updated Section 1.7.2 SMDR updated Section 1.8.10 ACD Group Management added Section 1.8.11 ACD Group Call Traffic added
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		Section 1.5.20.9 Dial One Digit Service
		Table 1.5.20.9-1 Dial One Digit Service (PGM508) updated
		Section 1.5.20.10 Check In/Out
		Section 1.5.20.11 Display Room Change
		Section 1.5.20.12 Bar Cost Change
v 2.0	2011. 11	Update for iPECS-MG S/W V2.0
		Section 1.5.1.2 Slot Assignment – PGM Code 101 updated
		Section 1.5.1.6 DTIM/SLTM Registration – PGM Code 107 updated
		Table 1.5.2.4-1 Feature Numbering Codes updated
		Table 1.5.3.2-1 Station Port Attributes updated
		Table 1.5.4.2-1 Station Directory Number Attributes updated
		Section 1.5.4.3 Station Private CO Group Attributes - PGM Code 136 added
		Section 1.5.4.6 Preset Call Forward – PGM Code 142 updated
		Table 1.5.4.8-1 Station VMIB Attributes updated
		Table 1.5.5.1-1 CO LINE ATTRIBUTES updated
		Table 1.5.5.2-1 Incoming Co Line Attributes updated
		Table 1.5.5.6-1 CO OUTGOING ATTRIBUTE updated
		Section 1.5.5.14 CO MATM Attribute - PGM Code 182 added
		Table 1.5.7.1-1 System Timers updated
		Table 1.5.7.2-1 System Attributes updated
		Table 1.5.7.9-1 SMDR Attributes updated
		Table 1.5.7.11-1 Button LED Flash Rate / Color Table updated
		Table 1.5.7.12-1 PPP Attributes updated
		Table 1.5.7.14-1 Intercom Busy One-Digit Attributes updated
		Table 1.5.7.18-1 VM COS Attribute updated
		Section 1.5.8.1 Toll Exception Tables – PGM Code 250 updated
		Section 1.5.8.19 Virtual CLI Table - PGM Code 750 added
		Section 1.5.8.20 Virtual Subscriber Table - PGM Code 751 added
		Table 1.5.9.5-1 Tenant Attributes updated
		Section 1.5.9.7 Call Restriction – PGM Codes 284–285 updated
		Section 1.5.9.8 Local Call Prefix Tables – PGM Code 286 updated
		Section 1.5.9.9 Long Distance Call Prefix Tables – PGM Code 287 updated
		Section 1.5.9.10 International Call Prefix Tables – PGM Code 288 updated
		Section 1.5.9.11 Mobile Call Prefix Tables - PGM Code 289 added
		Section 1.5.9.12 Tone Tables – PGM Code 290 updated
2.1	2012. 12	Changed CI to Ericsson-LG

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1. WEB SERVICE

1.1 General

iPECS-MG incorporates a Web Server located in the MPB, which is employed by the system's Web Service. Using a Web browser to access the system Web Server and the database managed in a user-friendly environment. In addition to modifying the system database, the iPECS-MG Web Admin provides for system file upload, remote upgrade, and database download.

The iPECS-MG default database includes assignment of a private IP address to the system. This address (10.10.10.1) may be used to access the system from the LAN. However, a routable IP address must be assigned for access from a remote location refer to Section 1.2.1.

To access the iPECS-MG Web Server requires the following:

- Operating iPECS-MG system
- Known IP address assigned in MPB
- Known TCP port assigned in MPB
- iPECS-MG connected to an accessible LAN
- iPECS-MG id & password (Maint, Admin, User), where applicable

1.1.1 PC/Browser

- MS Internet Explorer (IE) 5.5 or higher version is recommended.
- Windows PC, containing at least 32MB RAM free (64MB or more RAM is recommended).
- Network Interface Card (NIC)

1.1.2 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 public/private IP address for the iPECS-MG system Web server (must be assigned to the system prior to access).

1.1.3 Web Browser setting

Web browsers may store (cache) a copy of the iPECS Web pages in cache memory. The Web browser may use these copies to provide a "quick view". If the Web page has been altered by data entered in Station Admin or a file upgrade, the cached copy will be out-of-date and could cause unexpected system operation. To assure proper page views and data entry, the browser can be set to eliminate the use of the cached pages:

1. On your PC, run MS Internet Explore and click **[Tools]**.
2. Click **[Internet Options]**.
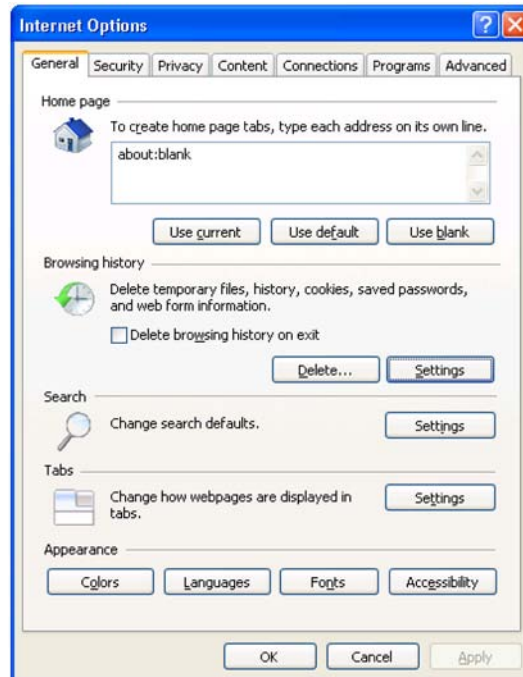
Figure 1.1.3-1 MS Internet Explore Options General Menu

3. Click **[Settings]** in Browsing history.
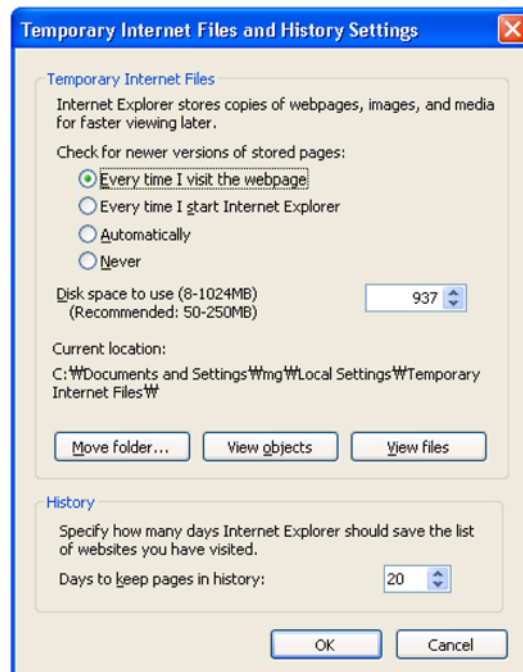
Figure 1.1.3-2 MS Internet Explore Settings Menu

4. Check "Every visit to the page" and click **[OK]**.

1.2   Web Home Page

1.2.1   Browser Access

During initialization, a default database is established; refer to Section 1.3.1 in the *iPECS-MG Administration and Maintenance Manual*. While the system will function employing the defaults, there are several data entries, which MUST be completed to assure proper operation of the system. The system employs the Country Code to establish tone and gain plans specific to the country. In addition, the MPB IP address, sub-net mask and Router IP address must be assigned for proper external IP call operation, Remote services, and Remote Admin access.

In the browser 'ADDRESS' field, enter the MPB IP address and TCP port. Select GO; the Web server returns the iPECS-MG Web Services Home page. On the Home page, one of three services may be selected, the brief *User Guide*, *Station Program* or *Admin & Maintenance*.

Figure 1.2.1-1 iPECS-MG Home page

1.2.2 User Guide

Selecting the User Guide will display a brief user manual. The user may select a feature from the left frame (as shown); to select a brief description of the feature, which then will be displayed in the right frame.

Figure 1.2.2-1 User Guide

1.2.3 Station Program

If the Station Program item is selected from the Home page, the user receives the Station Program displays starting with the Station Program password Web page, refer to Figure 1.2.3-1. Note that if a password is not assigned for the station, the user will not be able to log in to the Station Program Web page. For detailed descriptions, refer to section 'Station Program (User Portal)'.

Figure 1.2.3-1 Station Password

1.2.4 Web Admin & Maintenance

If the Admin & Maintenance item is selected from the Home page, the Admin & Maintenance manual will display. For detailed description refer to section 1.4.

1.3 Web Admin Data Modification & Access

1.3.1 Web Admin Data Modification

Each of the system's data entry Web pages includes a frame for data display and modification.

To modify data:

1. Click in the data field; either a drop-down menu will appear for entry selection, or a cursor will appear in the field for the user to type in the data required.
2. When finished, click the **[Save]** button to send the new page to the system and including the modified data.

Some of the Web pages include blue colored text in the table headers. Selecting this text will order the table based on the column selected.

In some cases, where mentioned, it may be necessary to reset the system. The system can be reset manually as described in the ***iPECS-MG Installation and Description Manual*** or by selecting the **[Reset System]** button on the Initialization Web page.

1.3.2 Maintenance & Admin ID & Password

The iPECS-MG System supports a multi-level ID & password structure. The Maintenance ID & Password controls the access rights of the Admin and User level id & passwords. It is highly recommended that an ID & password be assigned. In addition, the Web password can be encrypted, refer to Section 1.3.3.

1. From the Home page, click on Admin & Maintenance, the System ID and password Web page will be displayed (refer to Figure 1.3.2-1).

Figure 1.3.2-1 System ID & Password

1.3.3 Password Encryption

When enabled, the iPECS-MG can implement decryption of a password employing RC-6 block encryption (PGM 223). iPECS-MG employs a Sun Java Virtual Machine applet to implement AES encryption. The PC entering the Password must have a JAVA Virtual Machine and the JRE (Java Runtime Environment) Explorer option enabled to properly handle encrypted passwords. The Sun JVM is downloaded from the Java home page (www.java.com). Once downloaded, execute the downloaded file. To enable the Explorer JRE option:

1. From the Explorer menu select Internet Options>Advanced.
2. Click the checkbox to activate the "Use JRE…." Option.
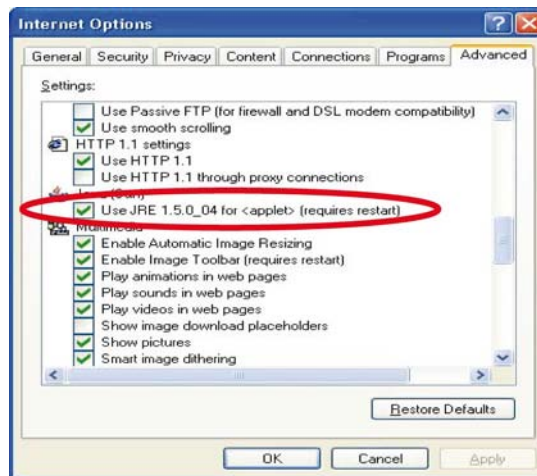
3. After Restarting the computer, access the iPECS-MG Web ID & password page; the Applet iPECSPwd started message will display in the bottom-left corner of the screen to indicate password encryption is active (This message would not display according to Internet Explorer version or PC's model.).

1.4 Web Admin & Maintenance Overview

In the Web Admin initial screen (Section 1.3.2), enter the user ID and the password and click on the Login button to access the iPECS-MG Admin & Maintenance Main Page, refer to Figure 1.4-1.

Figure 1.4-1 iPECS Admin & Maintenance Main Page

Based on the user ID and the password entered, access to database items and maintenance functions is determined. The Admin & Maintenance Main Page is comprised of three sections:

- Menu bar – Upper frame
- Web site directory & navigation section – Left frame
- Info and Entry section – Central frame

Items in the Menu bar are mouse-clickable for selections of:

- Administration – access to system database.
- S/W Upload – permits upload of operating files to the iPECS-MG system and board.
- System Management – permits databases to be downloaded, including all data, system speed dial and SMDR.

1.5 iPECS Web Administration

To enter the system database, select the iPECS-MG Administration item in the menu bar. The Administration Navigation frame will be displayed on the left (refer to Figure 1.5-1).

Figure 1.5-1 Admin Menu

1.5.1 Pre-Programmed Data

Selecting a Pre-Programmed Data program group will display the sub-menu shown, Figure 1.5.1-1, and described in the following sections.

Figure 1.5.1-1 Pre-Programmed Data Sub-Menu

1.5.1.1 Location Program – PGM Code 100

Selecting Location Program will display the Input Entry page, Figure 1.5.1.1-1.
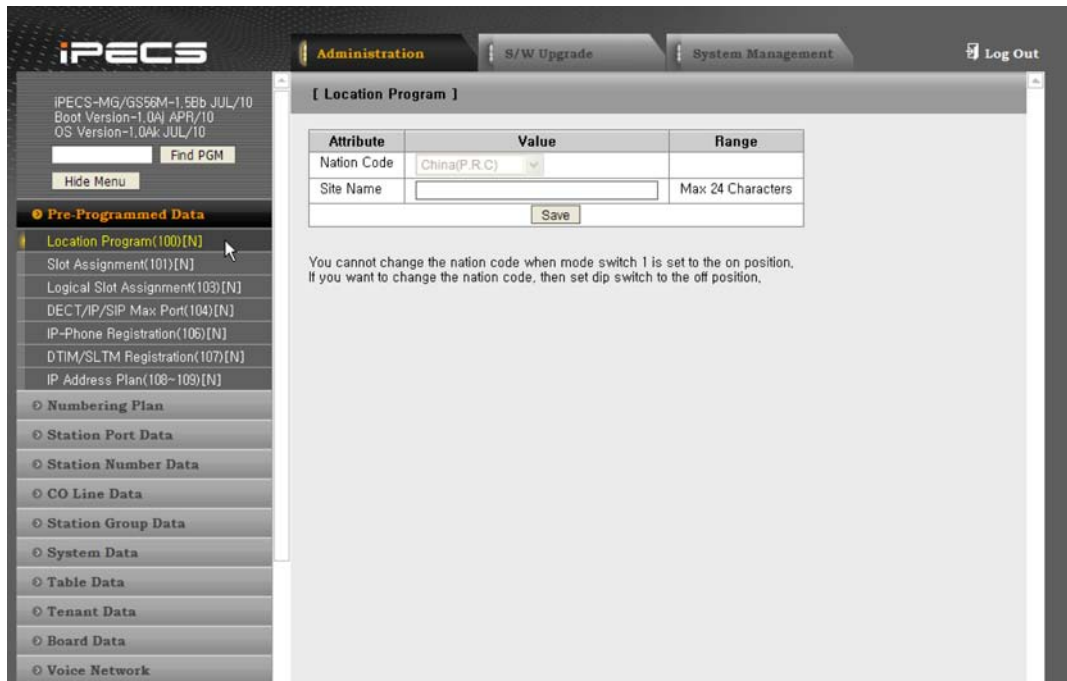
Figure 1.5.1.1-1 Location Program

Under Location Program, the country is identified using international dial codes (Nation Code). A 24-character Site Name may be 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.

1.5.1.2 Slot Assignment – PGM Code 101

Selecting Slot Assignment will display the page shown, Figure 1.5.1.2-1.
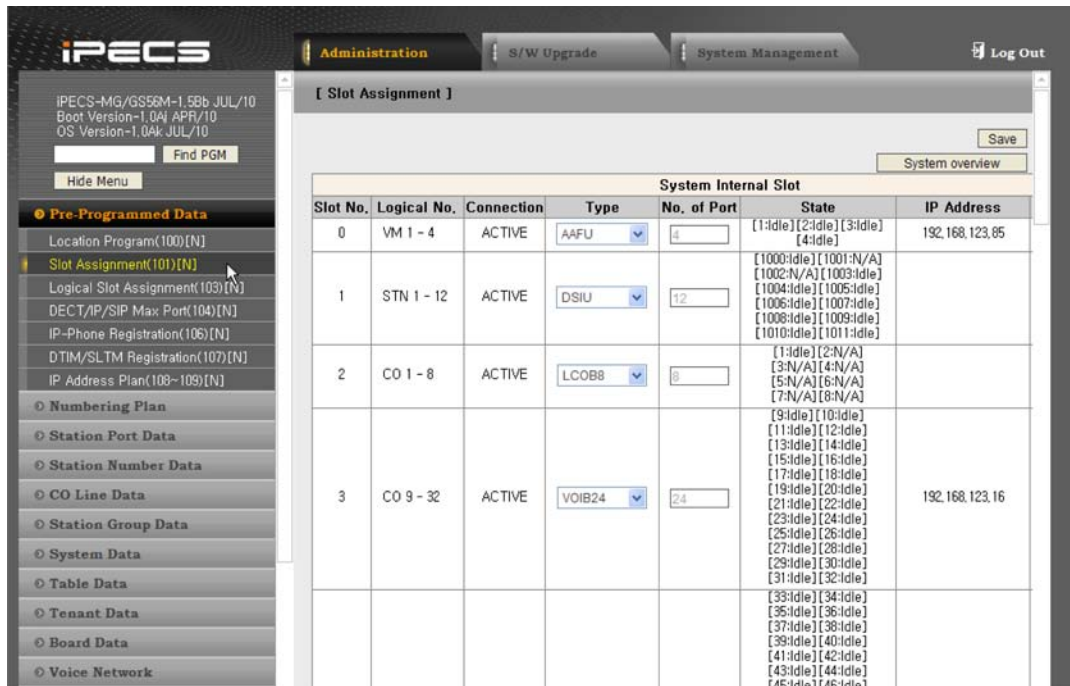
Figure 1.5.1.2-1 Slot Assignment

Table 1.5.1.2-1 Slot Assignment Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Slot No.	The slot no 0: The virtual slot for AAFU or VOIU in MPB 1: DSIU slot on MPB 2-18: The real slot no 19-56: Slot no for iPECS Gateway(DTIM/SLTM/MATM) 88: The virtual slot for SIP Phone 99: The virtual slot for proprietary phone(IP Phone or Phontage)	
Logical No.	Display logical number of device.	
Connection	Display the board connection status.	
Type	Display the board type. Select the board type to add new board.	
No. of Port	Display the port number of board.	
State	Display the device status on board.	
MAC Address	Display the MAC address of gateway.	
IP Address	Display the IP Address of board or gateway.	
Version	Display the version of board or gateway.	
CPU	Display the CPU type of board or gateway.	

1.5.1.3 Logical Slot Assignment

Selecting Logical Slot Assignment will display the page shown, Figure 1.5.1.3-1.
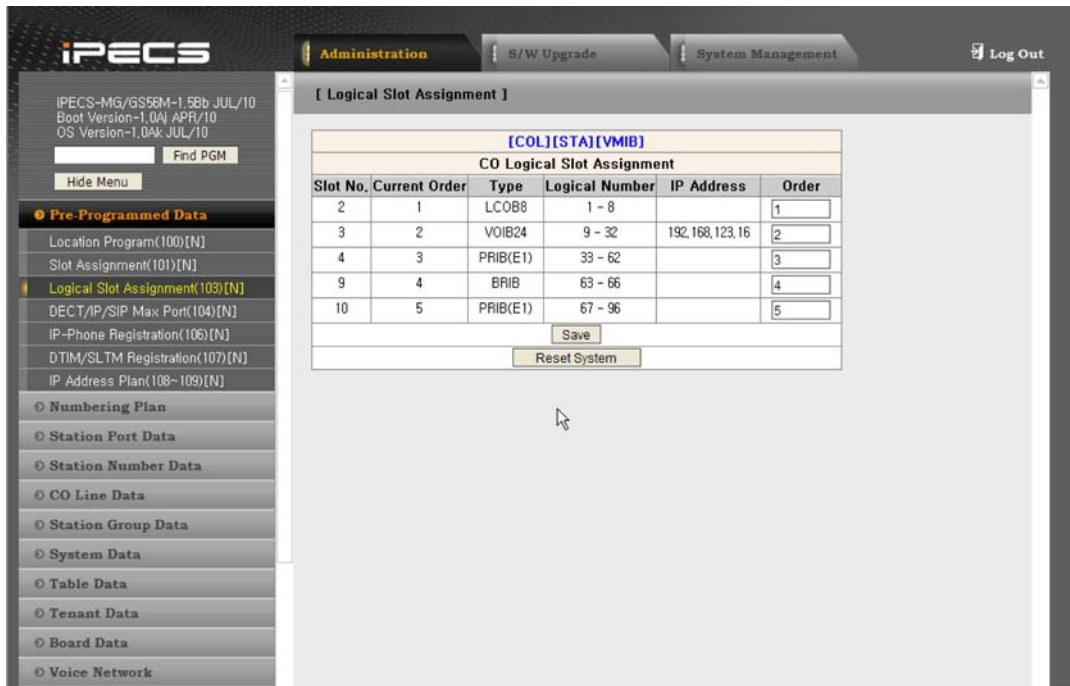
Figure 1.5.1.3-1 Logical Slot Assignment of CO Board

Figure 1.5.1.3-2 Logical Slot Assignment of Station Board
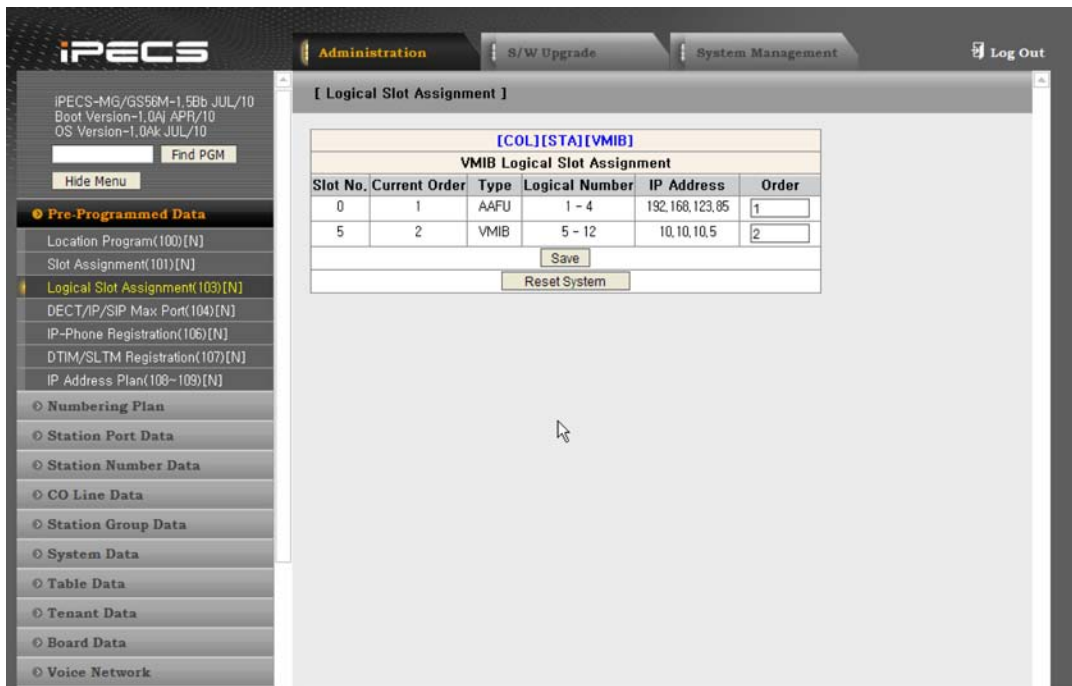
Figure 1.5.1.3-3 Logical Slot Assignment of VMIB Board

The CO/Station/VMIB logical order can be changed by adding a new board, deleting a board or re-arranging the slot order. After changing the logical slot assignment, the system should be reset to apply the updated order.

1.5.1.4 DECT/IP Phone/SIP Phone Max. Port – PGM Code 104

Selecting DECT/IP/SIP Max Port will display the page shown, Figure 1.5.1.4-1.
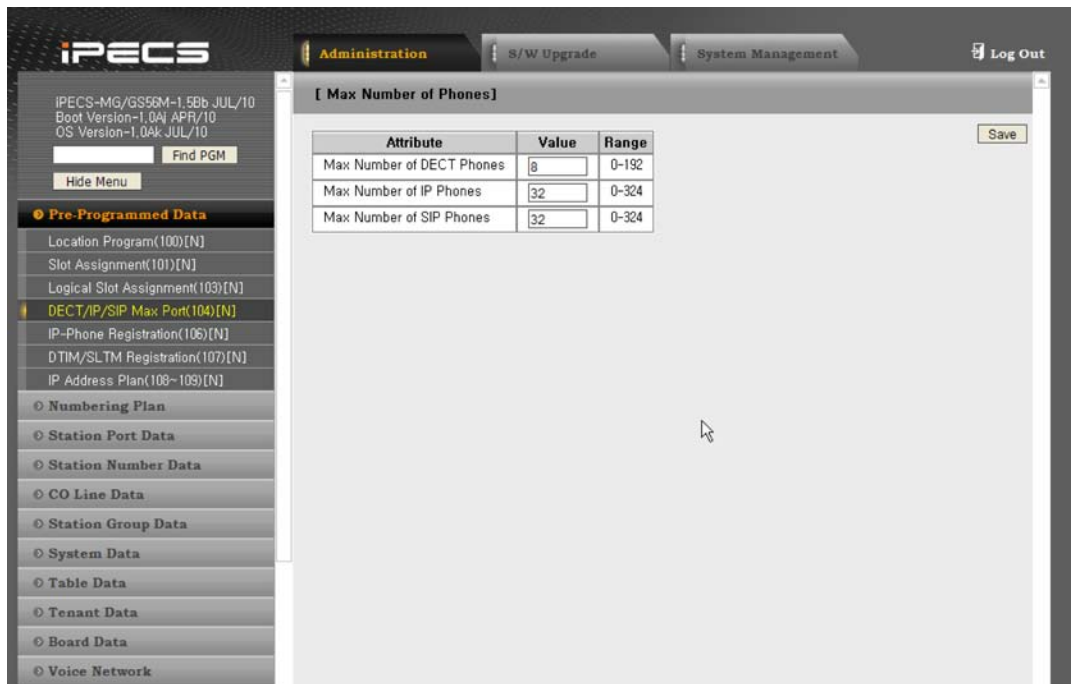
Figure 1.5.1.4-1 DECT/IP/SIP Maximum Port Assignment

The DECT, Proprietary Phone (IP Phone or Phontage) and SIP Phone number to be registered can be assigned. After making the necessary updates, reset the system to apply the changes.

Table 1.5.1.4-1 Maximum Port Assignment Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Maximum Number of DECT	Max. No of DECT that can be registered to the System.	8
Maximum Number of IP Phone	Max. No of IP Phone that can be registered to the System.	32
Maximum Number of SIP Phone	Max. No of SIP Phone that can be registered to the System.	32

1.5.1.5 IP-Phone Registration – PGM Code 106

Selecting IP-Phone Registration will display the page shown, Figure 1.5.1.5-1.
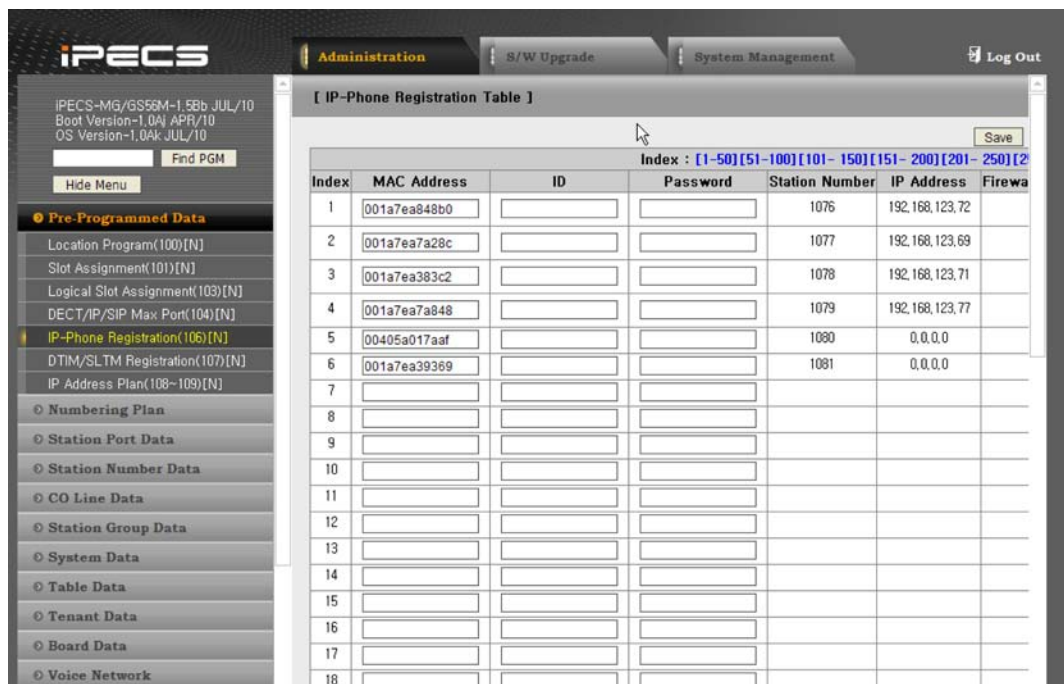
Figure 1.5.1.5-1 IP-Phone Registration Table

When the desired Index is selected on the screen, the range is shown above (ex., [1–50], [51–100], [101–150]).

Table 1.5.1.5-1 Registration Table Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Index	The index of IP phone	
MAC Address	MAC Address of IP phone registered	
ID	ID of Phontage registered	
Password	Password of Phontage registered	
Station Number	Displays the station number if IP phone/Phontage is registered.	
IP Address	Displays the IP Address of the IP phone/Phontage.	
Firewall IP Address	Displays the Firewall IP Address of the IP phone/Phontage.	
Type	Displays the model name of the IP phone/Phontage.	
RTP Security	Enable or disable RTP Security of the IP phone.	
State	Displays the connection status of the IP phone/Phontage.	
Mode	Displays the connection mode of the IP phone/Phontage.	
Version	Displays the version of the IP phone/Phontage.	

1.5.1.6 DTIM/SLTM Registration – PGM Code 107

Selecting DTIM/SLTM/MATM Registration will display the page shown, Figure 1.5.1.6-1.
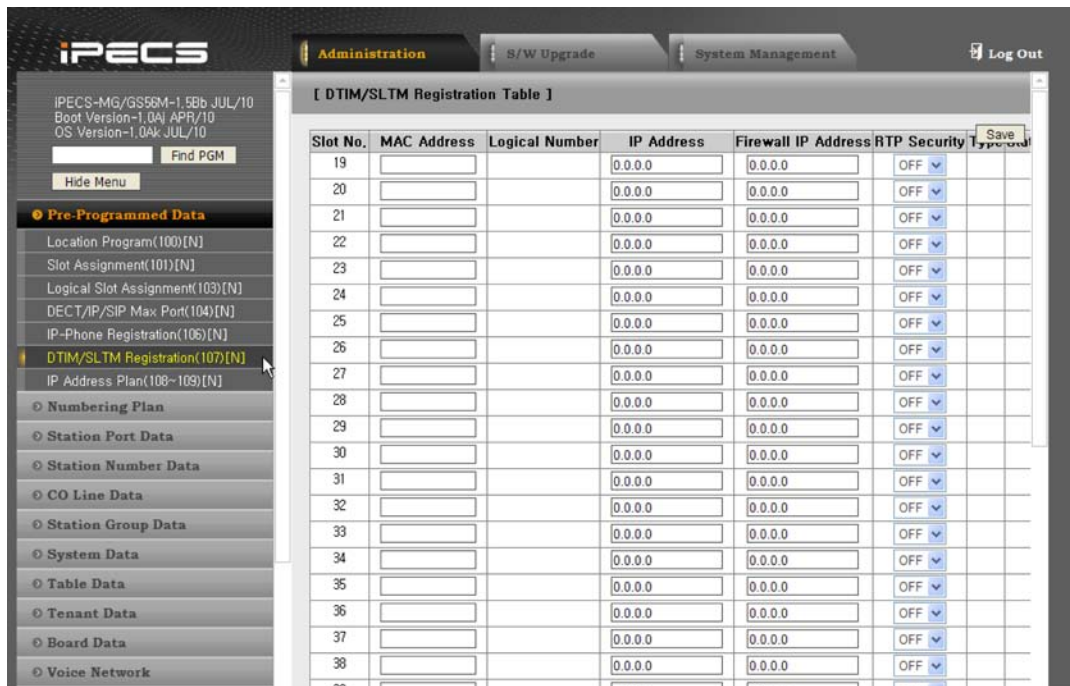
Figure 1.5.1.6-1 DTIM/SLTM/MATM Registration Table

Table 1.5.1.6-1 Registration Table Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Slot No.	Slot number of DTIM/SLTM/MATM	
MAC Address	MAC Address of gateway	
Logical Number	Display the station number of DTIM/SLTM/MATM	
Firewall IP Address	Displays the Firewall IP Address of the gateway.	
RTP Security	Enables or disables RTP Security of the gateway.	
Type	Displays the gateway type.	
State	Displays the connection status of the gateway.	
Mode	Displays the connection mode of DTIM/SLTM/MATM.	
Version	Displays the version of the DTIM/SLTM/MATM.	

1.5.1.7 IP Address Plan – PGM Codes 108–109

Selecting IP Address Plan will display the page shown, Figure 1.5.1.7-1.

Figure 1.5.1.7-1 System IP Address Plan

The System IP Address Plan sets several IP addresses for external VoIP calls and the router, etc.

> **NOTE**
> The IP and Router addresses must be routable IP addresses for access to an external VoIP network, remote access by an IP Phone and remote Web access. System IP Address can't use '10.1.1.xxx'. This IP Address is used for inner board.

When used, the VOIB (Voice over IP Board) must also have a routable IP address for access to/from an external VoIP network and a remote device.

iPECS-MG 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 MFIM address in the remote device.

Table 1.5.1.7-1 System IP Address Plan

ATTRIBUTE	DESCRIPTION	DEFAULT
IP Address	Public IP Address required for remote user and external VoIP network access (IPv4 format).	10.10.10.1
Subnet Mask		255.255.255.0
Router IP Address	IP Address of router for external network (WAN/IP) access. Required for shared voice and data LAN and remote Web access.	10.10.10.254
Firewall IP Address	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 MFIM address in remote devices.	0.0.0.0
DNS IP Address	IP Address of the first Domain Name Server, which iPECS will use to resolve URLs to an IP address.	0.0.0.0
Primary DNS Address	IP Address of the second Domain Name Server.	
Secondary DNS Address	IP Address of the third Domain Name Server.	
Third DNS Address	IP Address of the fourth Domain Name Server.	
Fourth DNS Address	IP Address of the fifth Domain Name Server.	
H. 323 Port (0-9999)	TCP Port for H. 323 signaling	1720
SIP Port (0-9999)	UDP Port for SIP signaling	5060
DHCP Usage	If this field is set to 'ON', the system obtains the IP-address from the DHCP Server when it is booting.	Off
Diffserv (0-63)	Diff-Serv pretag value	4
MAC Address	Display the MAC Address of MPB.	
IPKTS Protocol Port	Display UDP Port for communicating between MPB and Boards (or, IP Phone).	5588
Private Subnet Mask	Private Subnet Mask	
Application Release Version	Display system version.	
Application Release Date	Display the released date of system software.	
Boot Version	Display system boot version.	
Boot Release Date	Display the released date of system boot.	
OS Version	Display the version of system OS	
OS Release Date	Display the released date of system OS	

1.5.2 Numbering Plan

Selecting the Numbering Plan program group returns the sub-menu displayed, Figure 1.5.2-1.
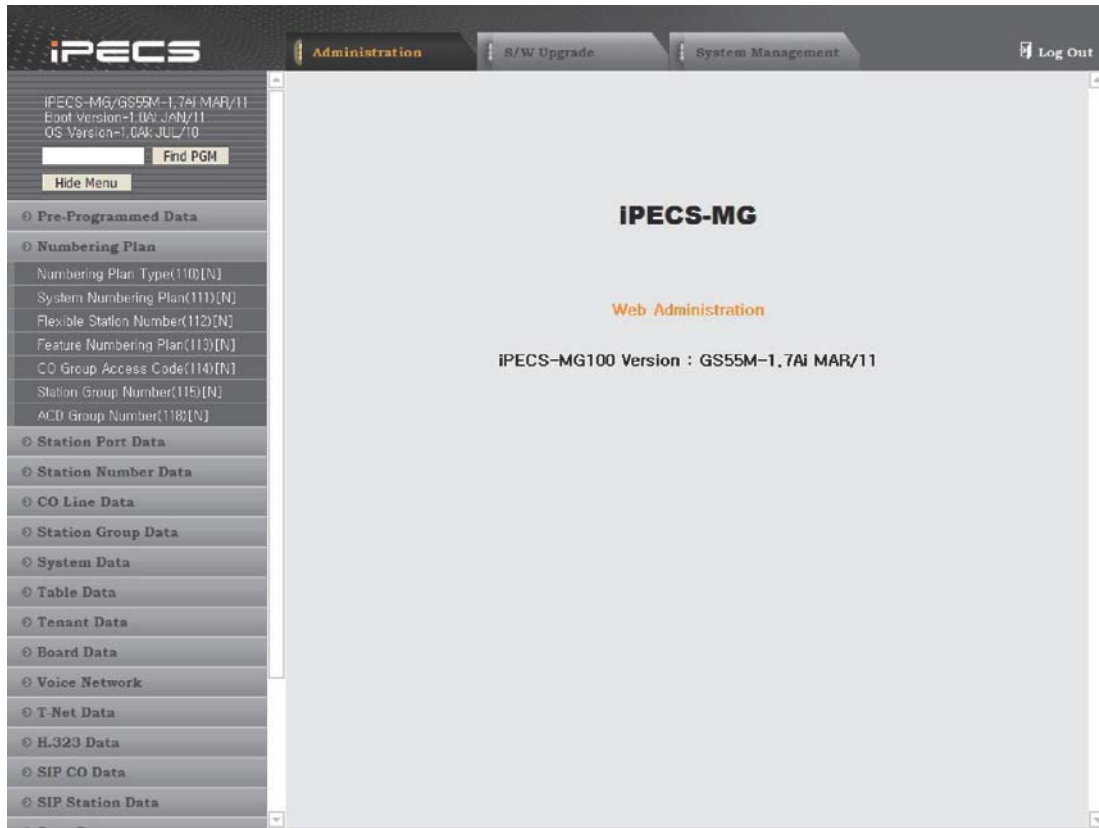
Figure 1.5.2-1 Numbering Plan sub-menu

1.5.2.1 Numbering Plan Type – PGM Code 110

Selecting Numbering Plan Type will display the page shown, Figure 1.5.2.1-1.
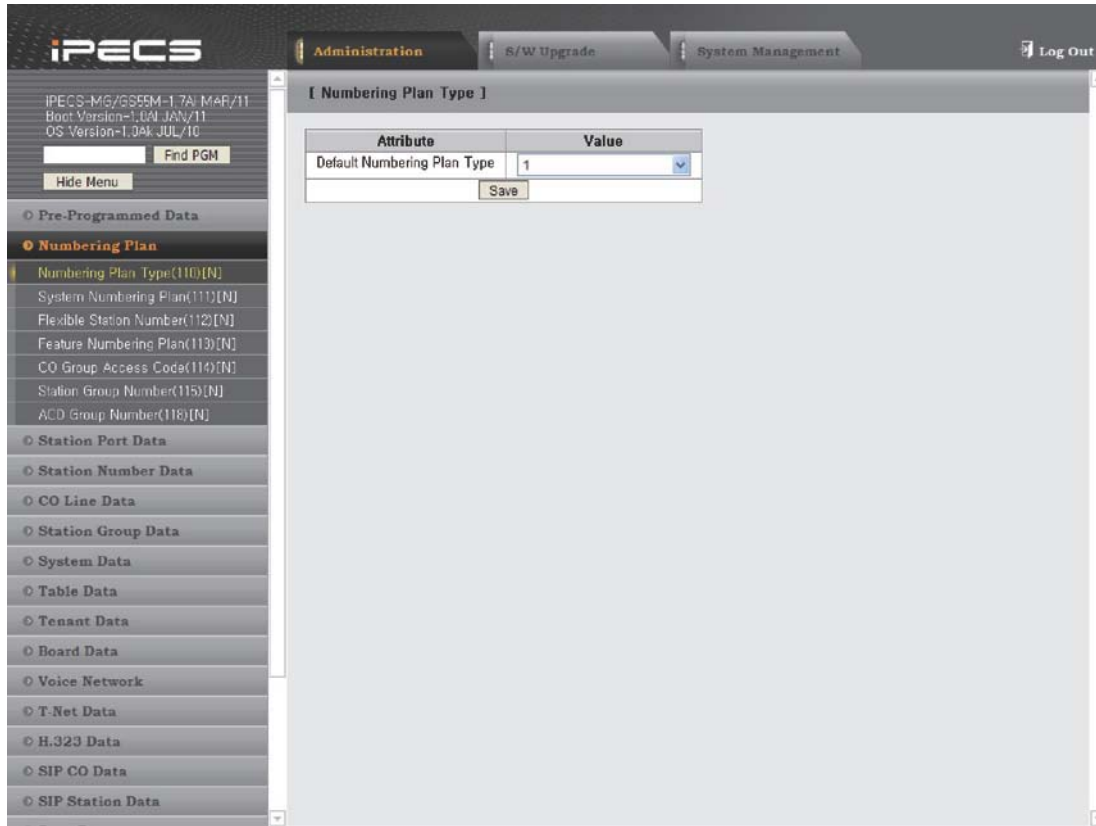
Figure 1.5.2.1-1 Numbering Plan Type

iPECS-MG system provides default Numbering plan set. One of any numbering plans can be installed or every numbering plan can be cleared.

If numbering plan type 7 (Delete All Numbering) is selected, all numbering codes are deleted. After deleting, user should assign the 'System Numbering Plan (PGM 111)' first. After configuring the system numbering plan, user can assign the other numbering plan code. This is useful when user wants to reconfigure all the numbering codes without default values.

1.5.2.2 System Numbering Plan – PGM Code 111

Selecting System Numbering Plan will display page shown, Figure 1.5.2.2-1.
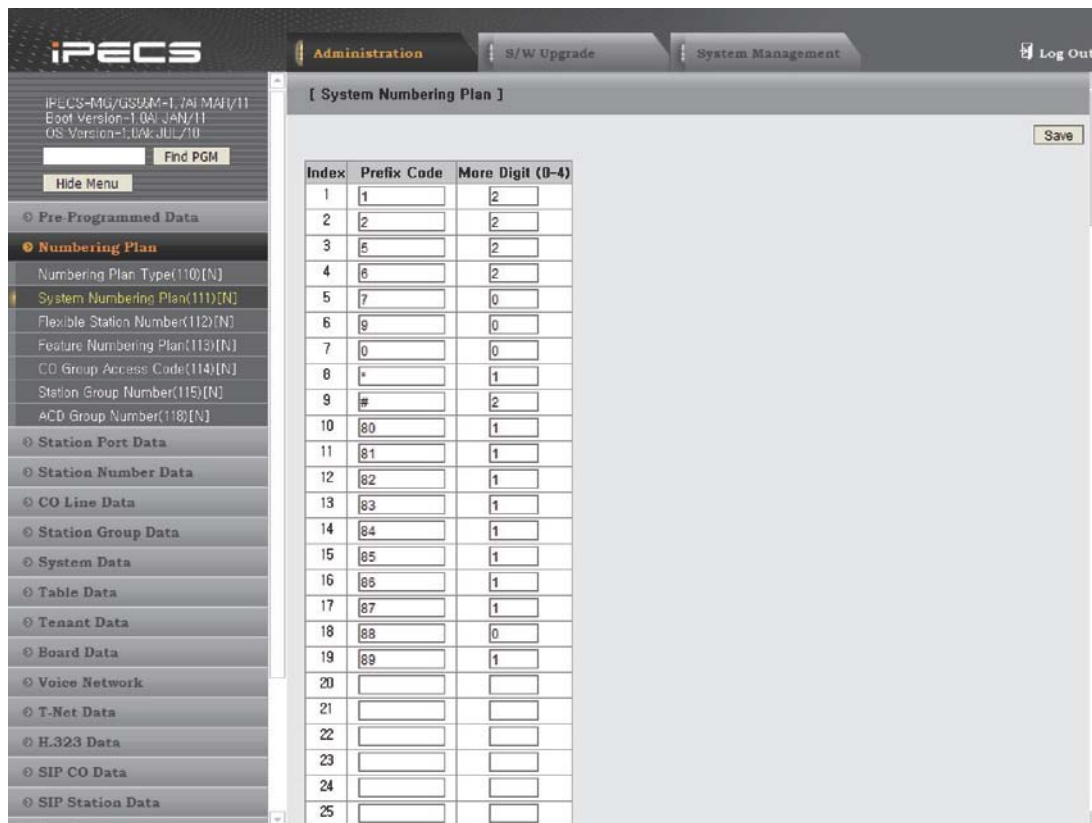
Figure 1.5.2.2-1 System Numbering Plan

To assign a numbering plan code, its type should be matched with a System Numbering Plan, which consists of a prefix, and more digits. Prefix means the leading digits of the numbering plan code, and more digits means number of following digits of that Prefix code. The maximum length of each numbering plan code is 8, and up to 4 more digits.

When a System Numbering Plan covers numbering plan codes of more than 4 digits, the preceding digits of the prefix code placed at more than 4th digits from end digit called Master Prefix Digits; Maximum 3 in MG-100 system and 5 in MG-300 system Master Prefix Digits can exist.

NOTE
System Numbering Plan conflict is not allowed; if there's Prefix '1' and more digit 4, then there cannot be other prefix '10' with more digit 4.

Table 1.5.2.2-1 System Numbering Plan

ATTRIBUTE	DESCRIPTION	DEFAULT
Prefix Code	Prefix Code	
More Digit (0-4)	More Digit	

1.5.2.3 Flexible Station Numbering Plan – PGM Code 112

Selecting Flexible Station Number will return the page shown, Figure 1.5.2.3-1. This page permits changes in the Station Numbering Plan using one of three methods:

- Do not Use Range Input: use to change an individual station number.
- Order Range: use to change the station numbers associated with a range of "Order Numbers" using the "Start Station Number" as the first station number to assign in the range. The station number is incremented by one over the range of Order numbers.
- Station Range: use to change station numbers over a range of stations using the "Start Station Number" as the first station number to assign range. The station number is incremented by one for each successive station in the range.
- Station Number Search: use to search station number. If station number is searched, the station number table is updated and the searched station number is displayed to red.

Selecting a Station Order, blue text in the table header, will display the Station Numbering Plan information for the selected Order Range.

Figure 1.5.2.3-1 Flexible Station Number

1.5.2.4 Flexible Numbering Plan – PGM Codes 113

Selecting Feature Numbering of 'Feature Numbering Plan' will return the page shown, Figure 1.5.2.4-1.
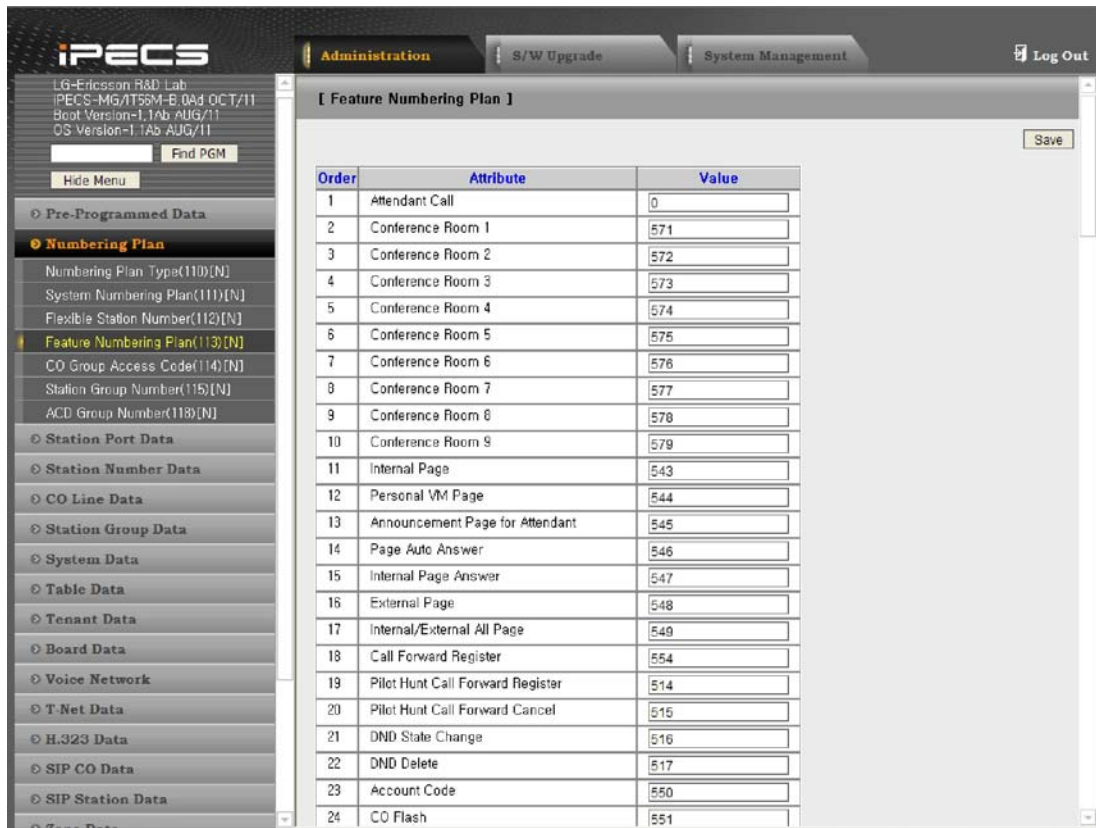
Figure 1.5.2.4-1 Flexible Number Plan

Feature dial codes for the system can be assigned using the system Flexible Number Plan. Feature codes should be matched 'System Numbering Plan' and must not conflict. The system will not update the database until correct data is entered.

Table 1.5.2.4-1 provides a brief description for each feature and the default codes as they appear in base Numbering Plan 1.

Table 1.5.2.4-1 Feature Numbering Codes

NO	FEATURE NAME	CODE	REMARK
1	Attendant Call	0	
2	Conference Room 1	571	
3	Conference Room 2	572	
4	Conference Room 3	573	
5	Conference Room 4	574	
6	Conference Room 5	575	
7	Conference Room 6	576	
8	Conference Room 7	577	
9	Conference Room 8	578	
10	Conference Room 9	579	

Table 1.5.2.4-1 Feature Numbering Codes

NO	FEATURE NAME	CODE	REMARK
11	Internal Page	543	543 + 00, xx 00: All Call Page Xx: Page Group #
12	Personal VM Page	544	
13	Announcement Page For Attendant	545	
14	Page Auto Answer	546	
15	Internal Page Answer (Meet-Me Page)	547	
16	External Page	548	
17	Internal-External Page All	549	
18	Call Forward Register	554	554 + Type + Destination
19	Pilot Hunt Call Forward Register	514	514 + Type + Destination
20	Pilot Hunt Call Forward Cancel	515	
21	DND Status Change	516	
22	DND Delete	517	
23	Account Code	550	
24	CO Flash	551	
25	Last Number Redial	552	
26	Speed Program	553	
27	Speed Dial	555	
28	Message Wait Register	557	
29	Message Wait Answer	558	
30	Record VM Subscriber Name	542	
31	Call Back Register	518	
32	Call Back Cancel	519	
33	Group Call Pickup	564	
34	Direct Call Pickup	7	
35	Walking COS	520	
36	Call Parking Location	541	541 + xx Xx: Parking Location (00-49)
37	PGM Mode Access	521	
38	Two-Way Record	522	
39	VMIB Access	523	
40	AME Access	524	
41	CO Line Access	88	88 + xxx Xxx: CO Line # (001-200: MG-300 01-80: MG-100)
42	External Voice Mail Message Wait Enable	*8	
43	External Voice Mail Message Wait Cancel	*9	

Table 1.5.2.4-1 Feature Numbering Codes

NO	FEATURE NAME	CODE	REMARK
44	MCID Request	*0	
45	Emergency Alert	563	
46	PTT Group Login/Logout	538	538 + (0-9,*) 0-9: PTT Group # *: Log out
47	Hot Desk Log In/Log out	525	
48	Station Name Register	526	
49	Create Conference Room	527	527 + Conf. Room #
50	Delete Conference Room	528	528 + Conf. Room #
51	Wake-Up Register	529	529 + HH: MM
52	Wake-Up Cancel	530	
53	Temporarily COS Down	531	
54	Retrieve COS	532	
55	Password Change	533	
56	Interphone Group Access	534	
57	Call Wait Register	535	
58	Pre-Selected MessagePGM	536	
59	Forced Handsfree Call	537	
60	Call Base CLIR	582	
61	CLIR Access	583	
62	COLR Access	584	
63	Pilot Hunt Call	585	
64	One-way Command Group Call	581	
65	Conference Command Group Call	580	
66	Intrude Register	589	
67	Camp-On Register	590	
68	Voice-OverRegister	591	
69	Mobile Extension Number Register	592	
70	Mobile Extension CLI Register	593	
71	Mobile Access	594	
72	Announcement table	670	
73	Announcement table and Drop	671	
74	Hold	560	
75	Record VM Greeting	561	
76	System Memo	675	
77	DISA Tone Service	678	
78	All Feature Cancel	679	
79	Add Conference Member	680	

Table 1.5.2.4-1 Feature Numbering Codes

NO	FEATURE NAME	CODE	REMARK
80	System Alarm Reset	565	
81	Fault Alarm Reset	564	
82	Door Open	#*1	
83	Keypad Facility	##*	
84	T-Net Login/Logout	586	
85	Universal Answer	587	
86	USB Call Record	588	
87	Delete All VM Message	681	
88	VM Page Message Record	682	
89	Direct VM Transfer	683	
90	Loop Key	684	
91	Call Log	685	
92	ACD Agent Login/Logout	500	
93	ACD Agent DND	501	
94	ACD Agent Work Mode	502	
95	ACD Agent Auto Work	503	
96	ACD Agent Auto answer	504	
97	ACD Call Indication	508	
98	Non-ACD Call Indication	509	
99	ACD Supervisor Group Call Forward	890	
100	ACD Supervisor Group Night Mode	891	
101	ACD Supervisor Group Holiday Mode	892	
102	ACD Supervisor Queued Call Answer	895	
103	ACD Supervisor Agent State Check	896	
104	ACD Supervisor Silent Monitor	897	
105	ACD Supervisor Traffic Check	898	
106	ACD Announce Play	899	
107	Day/Night Program	513	
108	DID/DISA Restriction	686	
109	Company Directory	539	
110	Outcall Notification	596	
111	Outcall Attempts	597	
112	Outcall Interval	598	
113	Outcall Phone Number	599	
114	Bath Alarm reset	#10	
115	Hotel Maid Status	#11	
116	Hotel Mini Bar	#12	
117	Hotel Guest Info Display	#13	
118	Hotel Room Monitor	#14	
119	Hotel Form Feed	#15	
120	Hotel VIP Wake Up	#16	

Table 1.5.2.4-1 Feature Numbering Codes

NO	FEATURE NAME	CODE	REMARK
121	Cancel Call Forward	#17	
122	Device BLF Indication	#18	
123	Register Call Forward of a group	#19	
124	Cancel Call Forward of a group	#20	
125	Selects answer greeting mode	#21	
126	Register Call Forward for FOP	#22	
127	Cancel Call Forward for FOP	#23	
128	Mobile Extension Status change feature code	595	
129	DND State change code about group call in station group	#24	
130	Retrieve a held CO line	#25	
131	Select auto call record mode	#26	
132	Override Hold feature code.	#27	
133	Override Disconnect feature code	#28	
134	Prepaid money input code for Attendant	#29	

1.5.2.5 CO Group Access Code - PGM code 114

Selecting CO Group Access Code of Feature Numbering Plan will return the data entry page, Figure 1.5.2.5-1. This page permits changes in the CO Group Access Code using one of two methods:

- Not Use Range Input: use to change an individual CO Group Access Code.
- Order Range: use to change the CO Group Access Codes associated with a range of "Order Numbers" using the "Start CO Group Access Code" as the first number to assign in the range. The CO group access code is incremented by one over the range of Order numbers.

Figure 1.5.2.5-1 CO Group Access Code

1.5.2.6 Station Group Number - PGM code 115

Selecting Station Group Number of Feature Numbering Plan will return the page shown,
Figure 1.5.2.6-1. This page permits changes in the Station Group Number using one of two
methods:

- Not Use Range Input: use to change an individual station group number.
- Order Range: use to change the station group numbers associated with a range of
  "Order Numbers" using the "Start Station Group Number" as the first station group
  number to assign in the range. The station group number is incremented by one over
  the range of Order numbers.
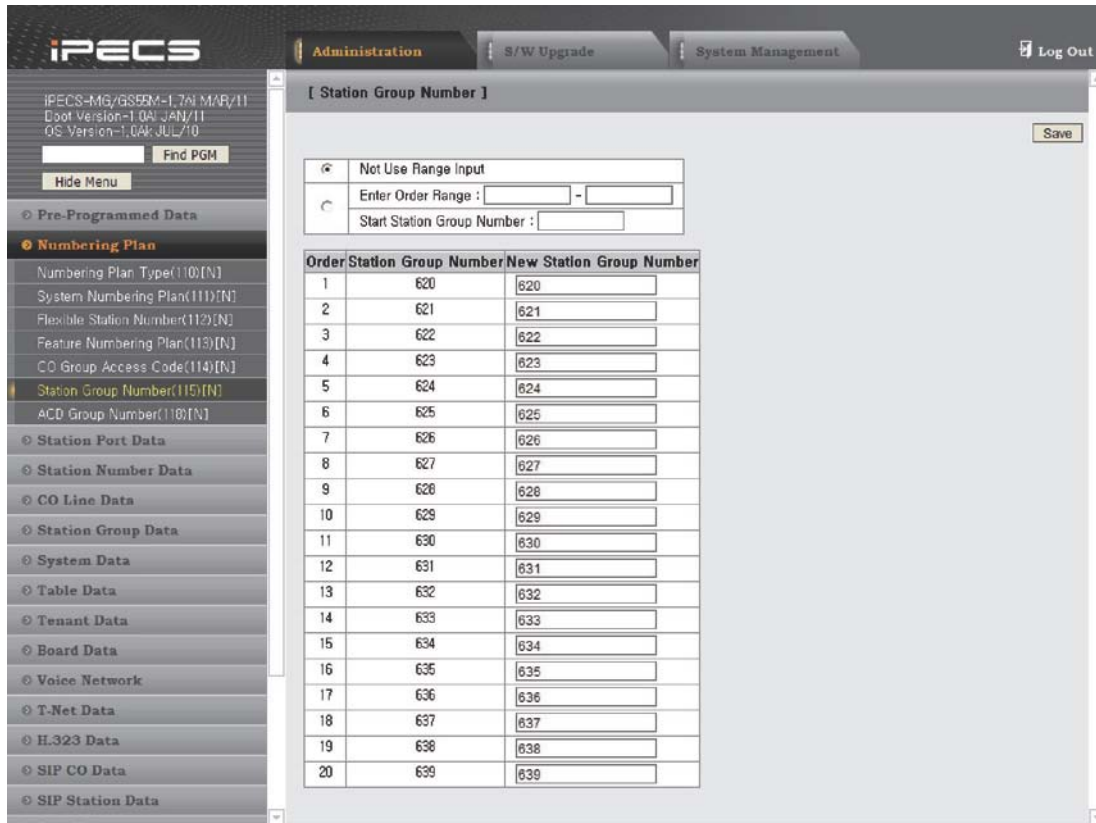
Figure 1.5.2.6-1 Station Group Number

1.5.2.7 ACD Group Number - PGM code 118

Selecting ACD Group Number of Feature Numbering Plan will return the page shown, Figure 1.5.2.7-1. This page permits changes in the ACD Group Number using one of two methods:

- Not Use Range Input: use to change an individual ACD group number.
- Order Range: use to change the ACD group numbers associated with a range of "Order Numbers" using the "Start ACD Group Number" as the first ACD group number to assign in the range. The ACD group number is incremented by one over the range of Order numbers.

Figure 1.5.2.7-1 ACDGroup Number

1.5.3 Station Port Data

Selecting the Station Port Data program group returns the sub-menu displayed, Figure 1.5.3-1.
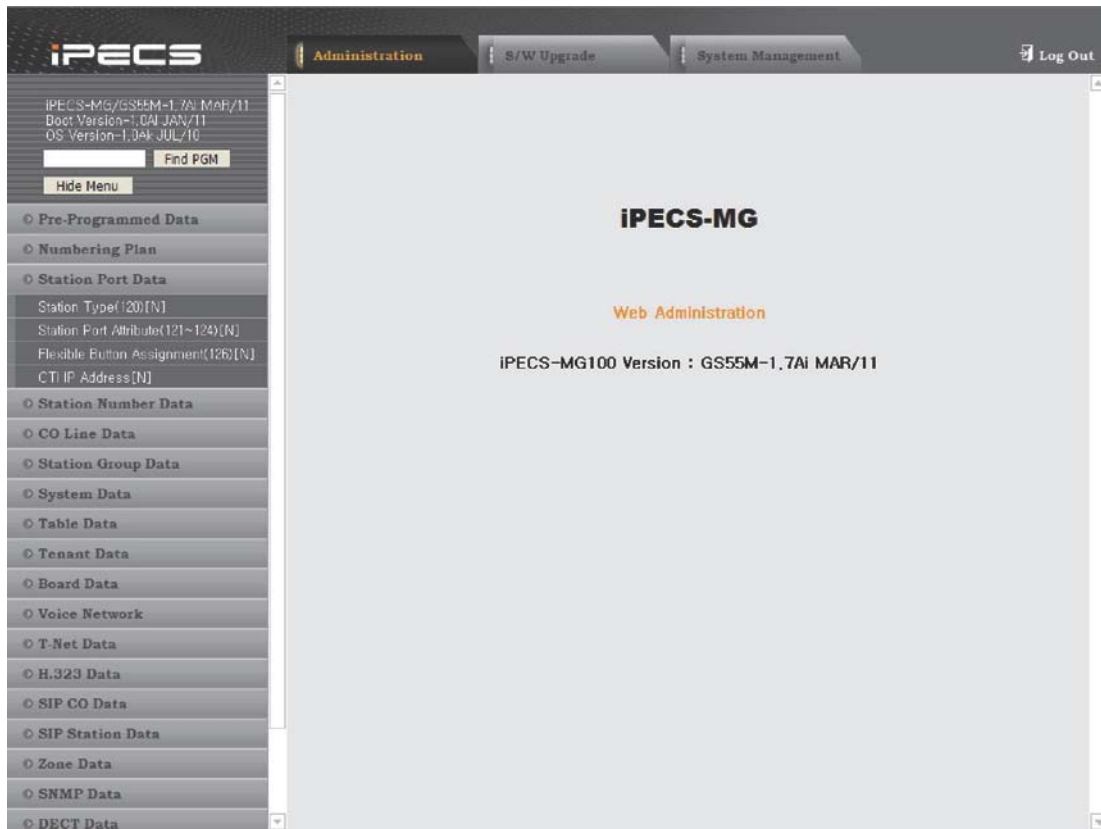
Figure 1.5.3-1 Station Port Data Sub-menu

1.5.3.1 Station Type – PGM Code 120

Selecting Station Type will display the Station Type data page shown, Figure 1.5.3.1-1. Select the 'Station Order' desired shown above table the header, [1–50], [51–100], [101–150]. The range selected displays on screen.
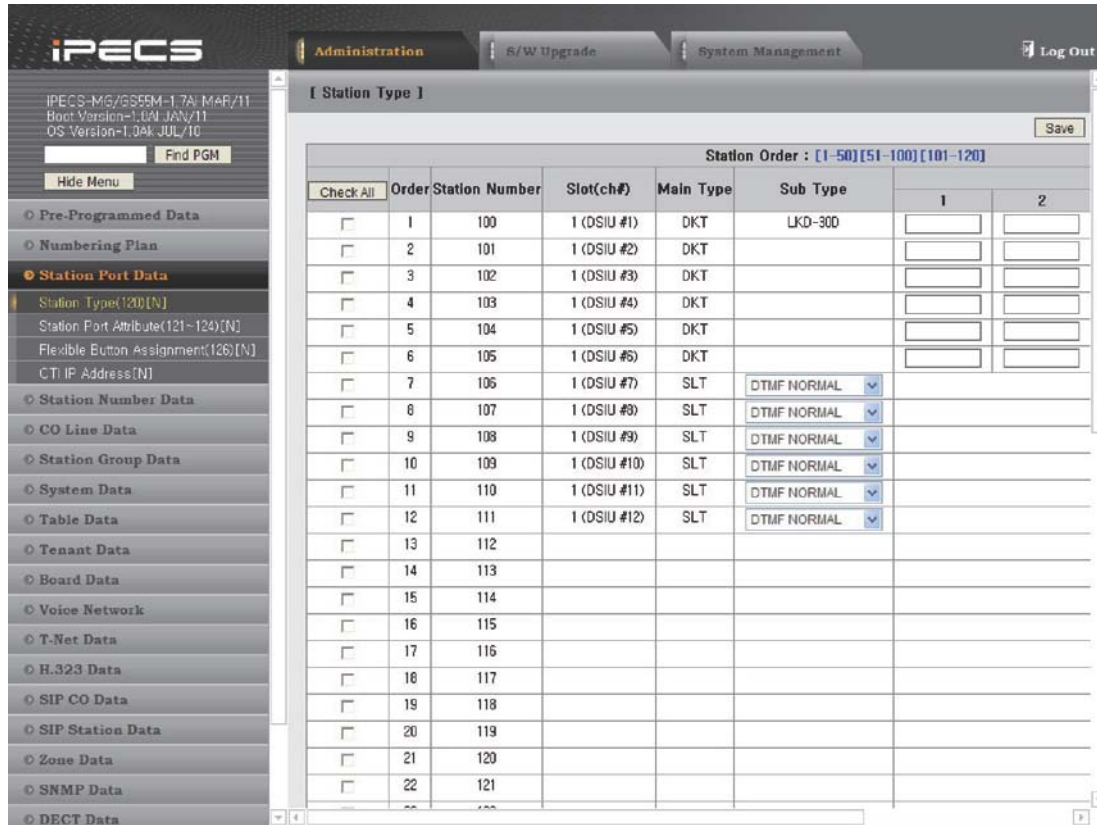
Figure 1.5.3.1-1 Station Type

The SLT sub-type can be assigned a type used by the system to recognize the station's capability. Additionally, for DSS consoles the associated station is identified.

Table 1.5.3.1-1 STATION TYPE

ATTRIBUTE	DESCRIPTION	DEFAULT
Station Number	Station Number	
Slot (ch#)	Displays the board name and slot number and channel (port) index at the board.	
Main Type	Displays main type of station	
Sub Type	Displays the station's type or select SLT type.	
DSS Map	DSS associated station number or LIP Serial DSS type.	

1.5.3.2 Station Port Attributes – PGM Codes 121–124

Selecting Station Port Attributes will display the Station Port Attributes page, Figure 1.5.3.2-1.
Enter a valid station range and click **[Load]** to enter Station Port Attributes data.
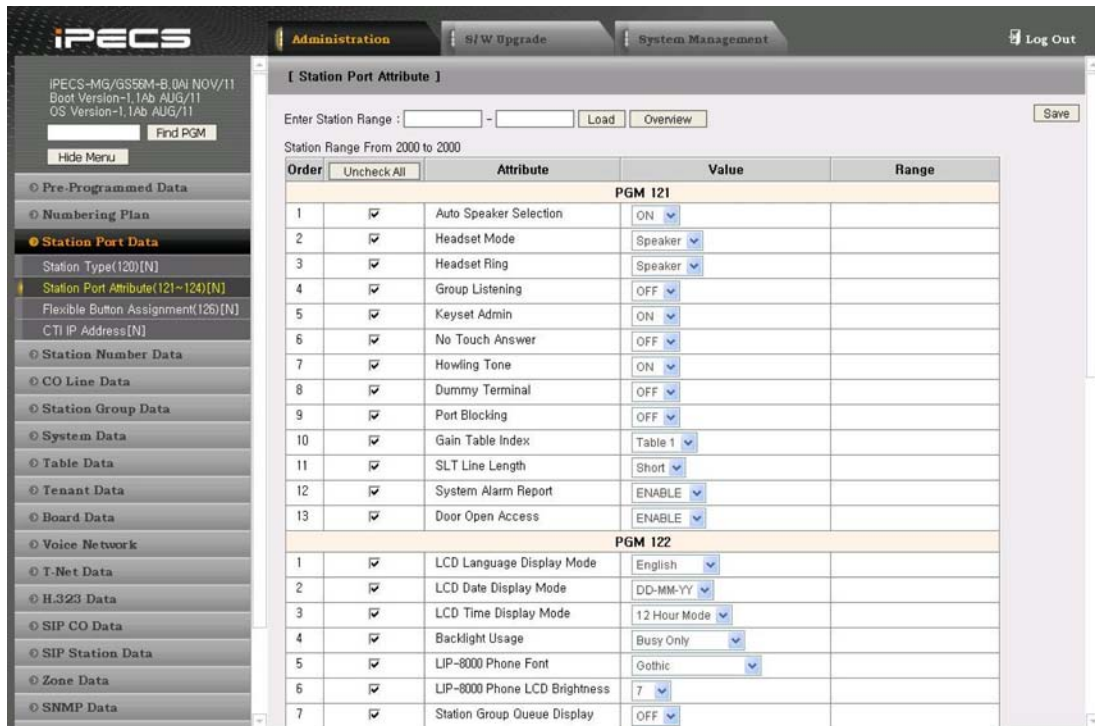
Figure 1.5.3.2-1 Station Port Attributes

Station Port Attributes define the specific features and functions available to the installed
terminal. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table
1.5.3.2-1 for a description of the features and the input required.

Table 1.5.3.2-1 STATION PORT ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Speak Selection	Enables **[SPEAKER]** activation when a CO/IP, DSS or other feature button is pressed, no need to lift handset.	0: OFF 1: ON	ON
Headset Mode	Select of if Speakerphone mode, Headset mode and Ear Mic Mode.	0: Speaker 1: Headset 2: Ear-Mic	Speaker
Headset Ring	In Headset mode, this item selects device to receive incoming ring signals.	0: Speaker 1: Headset 2: Both 3: Ear-Mic	Speaker
Group Listening	Enables Group Listen feature, audio is sent to both the handset and speaker with the handset microphone active and speakerphone microphone OFF.	0: OFF 1: ON	OFF
Keyset Admin	Enables station access to the System Database.	0: OFF 1: ON	ON
No Touch Answer	Enables No-touch answer; this will automatically connect transferred calls to the station's speakerphone.	0: OFF 1: ON	OFF
Howling Tone	Permits Howler tone to be sent to a SLT when left off-hook.	0: OFF 1: ON	ON
Dummy Terminal	Determines whether a station is used as a Hot Desk terminal (must be set to 'ON').	0: OFF 1: ON	OFF
Port Blocking	If this value is set to ON, Station is blocked so it is impossible to use that station.	0: OFF 1: ON	OFF
Gain Table Index	Determines Gain Table for each Station	0: Table1 1: Table2 2: Table3	Table 1
SLT Line Length	This feature is used to distinguish the line length when the distance between SLT station and SLIB board is too variable. (Short: 0km, Long: 0-3km, Far: 3-7. 5km)	0: Short 1: Long 2: Far	Short
System Alarm Report	Enable to receive system alarm signal.	0: DISABLE 1: ENABLE	ENABLE
Door Open Access	Enable to use door open feature.	0: DISABLE 1: ENABLE	DISABLE

Table 1.5.3.2-1 STATION PORT ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCD language Display Mode	Sets the Language used in the Station's LCD.	0: English 1: Italian 2: Finnish 3: Dutch 4: Swedish 5: Danish 6: Norwegian 7: Hebrew 8: German 9: French 10: Portuguese 11: Spanish 12: Korean 13: Estonian 14: Russian 15: Turkish 16: Polish 17: Greek	English
LCD Date Display Mode	Sets the Station Date display format as month/day or day/month.	0: DDMMYY 1: MMDDYY	DD-MM-YY
LCD Time Display Mode	Sets the Time display mode as 12 hour or 24-hour (military) time.	0: 12 Hour Mode 1: 24 Hour Mode	12 Hour Mode
Backlight Usage	If a station can support LCD backlight, you can set backlight usage option.	0: Always Off 1: Busy Only 2: Always On 3: Auto (PGM 281-7) 4: Delay Off	Busy Only
LIP-8000 Phone Font	Determines the Font for LIP-8000 Series between Times New Roman and Gothic.	0: Times New Roman 1: Gothic	Gothic
LIP-8000 Phone LCD Brightness	LIP-8000 Series terminal can adjust LCD brightness.	0-15	7
Station Group Queue Display	If this value set to ON, Queue Information of station group is display to member of group.	0: OFF 1: ON	OFF
IDLE Soft Menu Type	Sets Idle soft menu for each station. ‒ Type1(LOG/DIR/REDIAL) ‒ Type2(LOG/DIR/PICKUP) ‒ Type3(LOG/PICKUP/REDIAL	0-2	0
Prime Number Button (1-48)	Among My-DN and several Sub-DNs which are assigned to station flex buttons, determines the first-seized DN when the user initiates a call. If set, the system scans sequentially from FLEX 1-48 and takes the unused and valid flexible button as prime button. **NOTE** DN buttons on an associated DSS box cannot be a prime number button.	1-48	1

Table 1.5.3.2-1 STATION PORT ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Zone Number (1-9)	Determines the zone where a station belongs.	1-9	1
Automatic Hold	Enables Auto Hold for the station. With Auto Hold enabled, the system will place an active external call on hold if the user presses a CO/IP or DSS button.	0: OFF 1: ON	OFF
Enblock Dial Mode	If set to All, user-dialed digits are stored at the Digital Phone until explicitly sent by the user. When sent, all dialed digits are sent to the system in a bloc (only available to Digital Phones with soft keys).	0: Off 1: All 2: On Hook Dialing 3: Dialing in Ring	Off
Intercom Answer Mode	Selects Handsfree, Tone or Privacy ring ICM Signaling mode.	1: Handsfree 2: Tone 3: Privacy	Tone
Data Line Security	Disables override and camp-on tones to the station to avoid encountering an error when sending data.	0: OFF 1: ON	OFF
Sending Progress Indicator	If this value is set to ON, Progress Indicator information is included to Setup message (Origin is non-ISDN, like modem or analogue FAX)	0: OFF 1: ON	OFF
FAX Mode	If this value is set to ON, Bearer Capability information with 3.1 Khz is provided to PX. (If SLT or analogue FAX accesses ISDN, only 3.1 KHz Audio is available)	0: OFF 1: ON	OFF
Emergency Supervisor	If this value is set to ON, Station can use Call Wait/Voice Over/Override feature though busy station is set to Auto Privacy, Voice Over rejection	0: OFF 1: ON	OFF
Mute Ring Service	If this value is set to MUTE RING 1~8, system provides MUTE RING 1~8 to user. If this value is set to NO RING, system does not provide MUTE RING	1-8:Mute Ring(1-8) 9: No Ring	No Ring
Auto Idle Service	If this value is set to AUTO, system provides Auto Idle service.	0: Auto 1: Manual	Auto
Call Wait Indication	When a busy station receive Call Wait request, call wait indication can be provided. (None, Tone, Mute ring)	0: NONE 1: TONE 2: MUTE RING	MUTE RING
ICM Call Duration Time Display	During ICM call, user can check call duration time with this admin. When ICM call, call-time can be displayed on user LCD of digital keyset.	0: OFF 1: ON	OFF
Prepaid Call Cost Display	When prepaid money is used, current cost or left money can be displayed on user LCD of digital keyset.	0: Left Money 1: Used Money 2: Call Time	Left Money

Table 1.5.3.2-1 STATION PORT ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Message-Wait Indication	Determines the way to notify a station of wait message.	0: Not Assigned 1: RING LED 2: MW Remind Tone 3: RING LED + Remind Tone	MW Remind Tone
Apply Differential Ring	Determines differential ring mode.	0: All Ring 1: Normal Ring Only	All Ring
Intercom Differential Ring ID (0-168)	Sets the intercom differential ring ID (1-4 usually valid).	LDP: 1-15 Music Bell: 129-168 LIP: 1-8 Etc.: 1-4	1
CO Differential Ring ID (0-168)	Sets the CO line differential ring ID (1-4 usually valid).	LDP: 1-15 Music Bell: 129-168 LIP: 1-8 Etc.: 1-4	1
COS Apply	Determine whether the applied COS is the COS of SUB-DN or COS if MY-DN when station access SUB-DN.	0: SUB-DN 1: MY-DN	SUB-DN
Hook Flash When Transfer	Determines the operation when the user presses the hook-flash button while transferring a call. 0. Cancel transfer: drops current call and recover previous call. 1. Broker Call: holds current call and recover previous held call. 2. Conference: establishes 3-way conference call. 3. Conference after Broker Call: establishes conference when hook flash within 2 sec in broker call.	0: Cancel transfer 1: Broker Call 2: Conference 3: Conference after Broker Call	Cancel transfer
Off-Hook On Paged	When lifting handset while listening to paging message, user can make another call or continue to listen. 0: continue to listen to paging message. 1: stop listening, seize a DN, and hear dial tone. User can make an another call.	0: PAGED 1: DIAL TONE	PAGED
Preferred Line Answer	Enables Ringing Line Preference for the station. Calls that ring the telephone are answered by going off-hook (Reserved).	0: OFF 1: ON	ON
Pick-Up By DSS Button	This value determines the method of pickup when pressing DSS button.	0: Disable 1: Group Pickup 2: Direct Pickup	Direct Pickup
CTI IP Address	Set the CLI IP Address	IP Address	0.0.0.0
ACD Agent Priority	When station is member of ACD Group, this value will be used for priority as agent.	01 – 20	10
Intercom Caller Ring ID	When station make intercom call, this ring ID can be provided to called party.	LDP : 1 ~ 15 LDP Music Bell : 129 ~ 168 LIP : 1 ~ 8	0

1.5.3.3 Flexible Button Assignment – PGM Code 126

Selecting Flex Button Assignment will display the page shown, Figure 1.5.3.3-1.

1. Enter a valid station range.
2. Click **[Load]** to enter Flex button data.
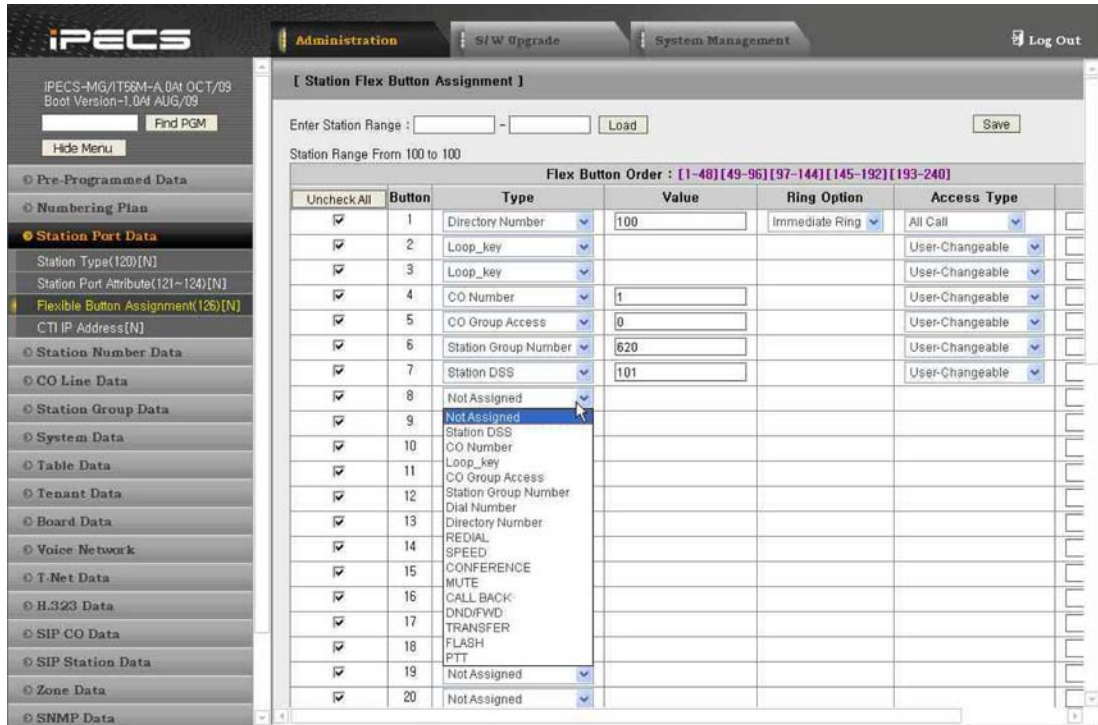
Figure 1.5.3.3-1 Flex Buttons Assignment

3. Each Flex button for each station can be assigned to a function (TYPE) as listed.
4. After selecting the Type for a button, enter the value   needed.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Type	Select button type from available choices: Not Assigned Station DSS: assign station DSS button CO Number: assign CO line button Loop key: assign Loop Key CO Group Access: assign CO Group Access Code Station Group Number: assign Station Group Number ACD Group Number: assign ACD Group Number Dial Number: assign feature code or digits Directory Number: assign Directory Number Redial: assign **[REDIAL]** button Speed: assign **[SPEED]** button Conference: assign **[CONFERENCE]** button Mute: assign **[MUTE]** button Call Back: assign **[CALL BK]** button DND/FWD: assign **[DND/FORWARD]** button Transfer: assign **[TRANSFER]** button Flash: assign **[FLASH]** button PTT: assign **[PTT]** button		
Value	Station Number (if button is 'Directory Number' type) or Dial digit (if button is 'Dial digit' type)		
Ring Option	The Ring Option of Directory Number		
Access type	Determines Directory Number access type if button is 'Directory Number' type. 0. All call: there is no restriction. 1. Dial After Seizure: Unable to seize only by off-hook when making outgoing calls even if the button is set to prime number button. First, you must press the button occupies DN. 2. Incoming only: Unable to make an outgoing call using this button and only answering incoming call is allowed. Or, Button Assignment privilege at the station if button is 'Dial Number' type.		
Name	Button Name		

1.5.3.4 CTI IP Address Assignment

Selecting CTI IP Address will display the CTI IP Address data input entry page,
Figure 1.5.3.4-1. Select the 'Station Order' desired shown above table the header, [1–50], [51–100], [101–150]; the range selected will display.
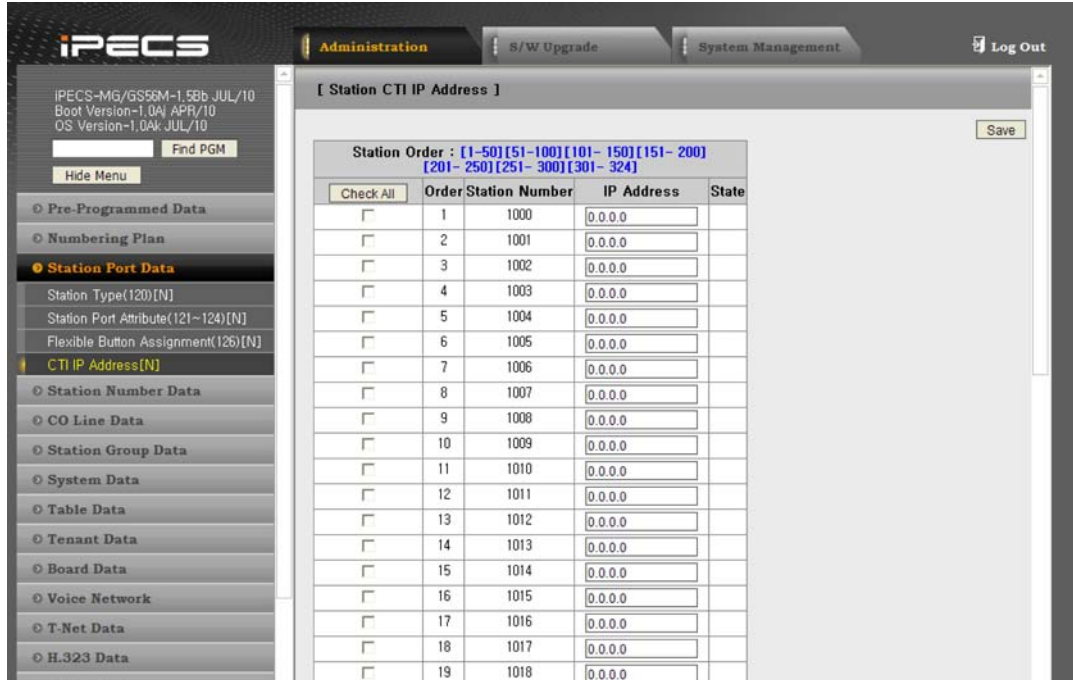

Figure 1.5.3.4-1 CTI IP Address Assignment

CTI IP Address defines the PC IP Address to be integrated as first party CTI Application.

1.5.4 Station Number Data

Selecting the Station Number Data program group returns the sub-menu displayed,
Figure 1.5.4-1.

Figure 1.5.4-1 Station Number Data sub-menu

1.5.4.1 Station DN (Directory Number) Assignment – PGM Code 130

Selecting Station DN Assignment will display the page shown, Figure 1.5.4.1-1.

1. Enter a valid station directory number.
2. Click **[Load]** to assign DN.

Figure 1.5.4.1-1 SADN Assignment
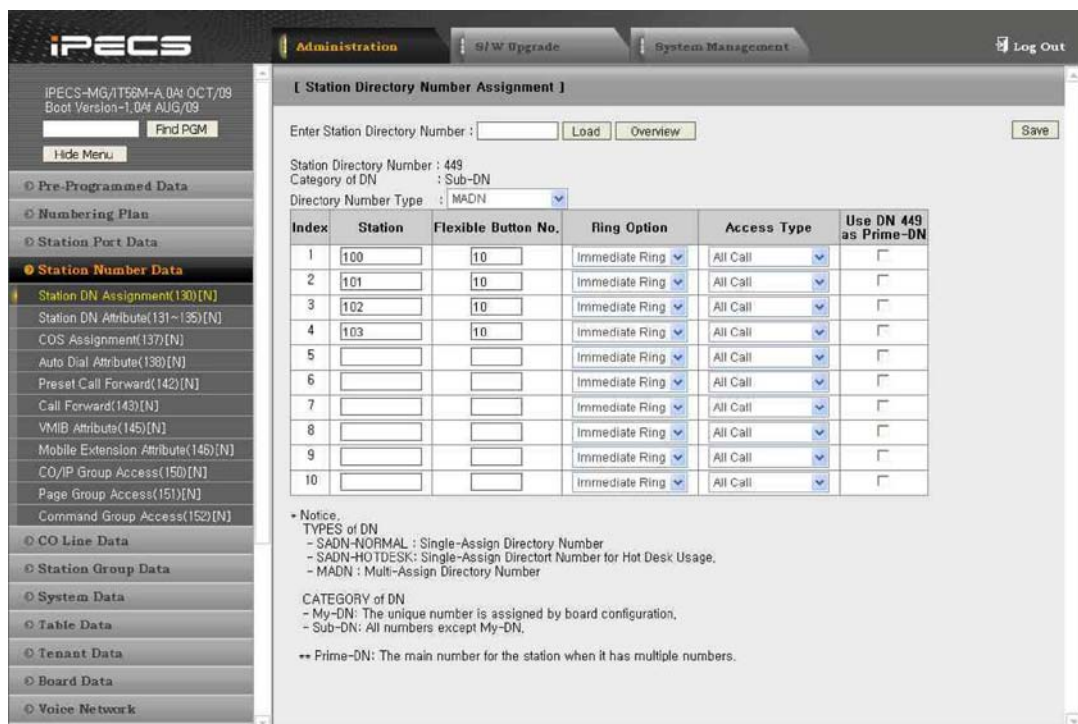
Figure 1.5.4.1-2 MADN Assignment

In accordance with its physical characteristics, the station number is divided into My-DN and Sub-DN. My-DN is Single-Assign Directory Number (SADN) and one My-DN is assigned to a physical terminal only. In the iPECS-MG system, the range of the station numbers used for My-DN is predefined – the station bin index from 1 to 324 for MG-300, from 1 to 120 for MG-100. Station number with station bin index greater than My-DN's bin index is Sub-DN. Sub-DN is used for MADN or SADN. Multi-Assign Directory Number (MADN). When Sub-DN is used for SADN, one Sub-DN can be used only for a station. When Sub-DN is used for MADN, one Sub-DN can be used for 10 different stations. In addition to, Sub-DN, which is used for SADN, can be configured as a hot-desk agent number. If Sub-DN is used as a hot-desk agent, the station is not allocated explicitly for Sub-DN member. Only when a terminal login to Hot Desk with Sub-DN, Sub-DN has the terminal's station number (My-DN) as its member.

Table 1.5.4.1-1 Station DN Assignment

ATTRIBUTE	DESCRIPTION	DEFAULT
Index	The index of DN Member	
Station Number	My-DN station number to be assigned as DN member	
Flexible Button No.	The button number to assign DN to My-DN station	
Ring Option	Ring option for DN	
Access Type	Access type of DN 0. All call: there is no restriction. 1. Dial After Seizure: Unable to seize only by off-hook when making outgoing call even if the button is set to prime number button. First, you must press the button occupies DN. 2. Incoming only: Unable to make an outgoing call using this button. Only answering incoming call is allowed.	
Use DN as Prime-DN	Select button for assigning the DN as Prime-DN. Prime-DN is a Directory Number that is used when user makes outgoing call without seizure of any DN button.	

1.5.4.2 Station Directory Number Attributes – PGM Codes 131–135

Selecting Station DN Attributes will display the page shown, Figure 1.5.4.2-1.

1. Enter a valid station range.
2. Click **[Load]** to enter Station DN Attributes data.
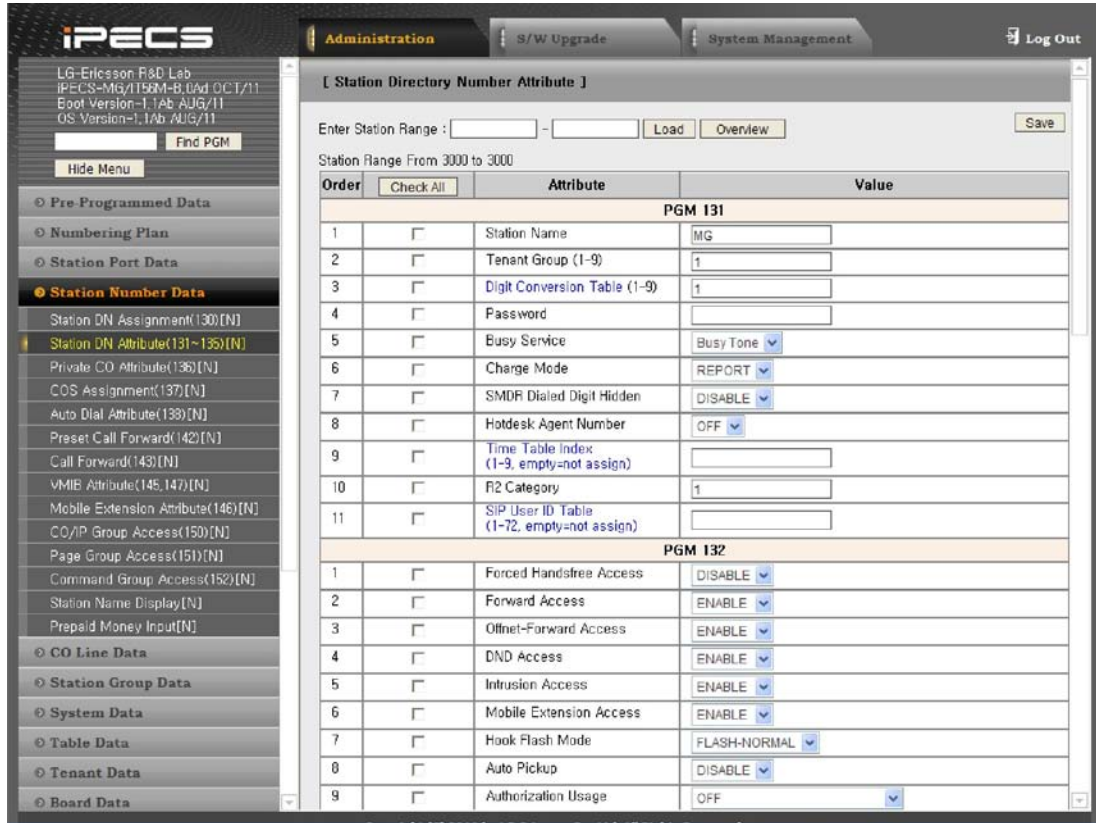
Figure 1.5.4.2-1 Station Directory Number Attributes

Station Directory Number Attributes define features available to the station directory number. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 1.5.4.2-1 for a description of the features and the input required.

Table 1.5.4.2-1 Station Directory Number Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Name	Enables user name entry. The name is displayed on the LCD of Digital Phones.	Max. 16 Chars	
Tenant Group	Specifies tenant group for station.	1-9(MG-300) 1-5(MG-100)	1
Digit Conversion Table	Specifies Digit conversion table for station.	1-9	1
Password	Password is employed to control access to the system resources and facilities. Walking COS, CO/IP Group access of DISA callers and certain Call Forward types may require the input of a valid password.	0-12 digits	
Busy Service	When a station is busy and if another new call arrives, station treats this new call base on this option.	0: Busy Tone 1: Camp-on 2: Call Wait 3: Pilot Hunt	Busy Tone
Charge Mode	If 'FREE', the intercom call is not printed/saved to SMDR even though 'ICM CALL' SMDR is enabled. If 'REPORT', the intercom call is included to SMDR according to the ICM CALL SMDR Attributes.	0: Free 1: Report	Report
SMDR Dialed Digit Hidden	If enabled and station makes an outgoing call, then dialed digit in SMDR data can be shown with hidden digit rule by SMDR attribute. If disabled, all dialed digits will be displayed.	0: Disable 1: Enable	Disable
Hot Desk Agent Number	Permits a station number as Hot Desk agent number. To make this feature effective, station number must be Sub-DN & SADN.	0: OFF 1: ON	OFF
Time Table Index	Specify Time Table index for station.	1-9, None	None
R2 Category	Set R2 category for the station.	1-15	1
SIP User ID Table	SIP User table index for SIP outgoing call's caller ID information. If none, then iPECS-MG system makes caller ID based on SIP CO User-ID Table index value in 'User ID Start Index' in PGM 371. If 01~72, then programmed ID in SIP CO User-ID Table (PGM code – 373) is used.	1~72 (MG-300) 1~24 (MG-100)	none
Forced Handsfree Access	When placing an intercom call, a user can change the ICM signaling mode, Tone Ring to Hands free answer mode or Hands free answer to Tone Ring mode.	0: Disable 1: Enable	Disable
Forward Access	Enables Call Forward to be activated by the station.	0: Disable 1: Enable	Enable
Offnet-Forward Access	A station must be allowed Off Net Fwd to forward external incoming calls outside the system or establish other CO-to-CO connection.	0: Disable 1: Enable	Enable
DND Access	Enables DND to be activated by the station.	0: Disable 1: Enable	Enable

Table 1.5.4.2-1 Station Directory Number Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Intrusion Access	Enables intrusion to gain access to an active call.	0: Disable 1: Enable	Disable
Mobile Extension Access	Enables mobile extension ability.	0: Disable 1: Enable	Enable
Hook Flash Mode	Determines the operation when the SLT user presses the hook-flash button during a conversation. 0. FLASH NORMAL: Hook Flash can be detected. In addition, it will be operated as normal case flow. 1. FLASH IGNORE: Hook Flash cannot be detected. All of hook flash will be ignored at any time. 2. FLASH DROP: When Hook Flash is detected, the line will be disconnected. 3. HOLD RELEASE: When Hook Flash is detected, the line will be held and then On-Hook is detected, the line will be disconnected.	0. FLASH NORMAL 1. FLASH IGNORE 2. FLASH DROP 3. HOLD RELEASE	FLASH NORMAL
Auto Pickup	If a group member phone is ringing, another member of the Group can Pick-Up a call ringing at the member station by simply going "Off-hook".	0: Disable 1: Enable	Disable
Authorization Usage	If this value is set to 1, 2, or 3, a user should enter the authorization code for some specific cases as below. -. OFF - Disable -. CO Access Only - Only when a user accesses CO line, system requests authorization code(station number + password, or * + ID + Password) -. Authorization Table – User dials digits in authorization table, system requests authorization code(station number + password, or * + ID + Password) -.CO Access, Authorization Table - When a user accesses CO line or user dials digits in authorization table, system requests authorization code(station number + password, or * + ID + Password)	0: Off 1: CO Access 2: Authorization Table 3: CO, Authorization Table	OFF
CO Queue Access	Enables CO Queuing.	0: Disable 1: Enable	Enable
Conference Access	Enables Conference call.	0: Disable 1: Enable	Enable
Wake-up Access	Enables Wake-up Alarm feature.	0: Disable 1: Enable	Enable
Station Call Back Access	Enables call back feature when a called station is busy.	0: Disable 1: Enable	Enable
ACNR Access	Enables ACNR feature.	0: Disable 1: Enable	Enable
Absence Notice Access	Enables Absence notice feature.	0: Disable 1: Enable	Enable

Table 1.5.4.2-1 Station Directory Number Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call Wait Access	Enables to leave a call wait when a called station does not answer or is in DND state.	0: Disable 1: Enable	Enable
Camp-on Access	Enables camp-on feature.	0: Disable 1: Enable	Enable
Voice Over Access	Enables voice over feature.	0: Disable 1: Enable	Disable
Rejection of Voice Over	Enable of rejection authority about voice over feature.	0: Disable 1: Enable	Disable
Prepaid Call Usage	Enables prepaid call.	0: Disable 1: Enable	Disable
Keypad Facility Usage	Enable keypad facility.	0: Disable 1: Enable	Disable
Speed Access	Enables station speed dial bin access authority.	0: Disable 1: Enable	Enable
Page Access	Permits station to make page.	0: Disable 1: Enable	Enable
Meet-Me Access	Enables 'meet me' feature when there is a page made.	0: Disable 1: Enable	Enable
Call Duration Restriction Table	CDR Table number for Reference to check the CDR rule. If table number is assigned, when user make call, defined CDR rule will be applied.	00:Not-Used 01-30	Not-Used
CO Call Duration Restrict	Restricts CO Call Duration to station.	0: Disable 1: Enable	Disable
SLT Block Back Call	If this enabled, when SLT extension attempts to transfer a CO call to a CO line it is blocked and the call is released.	0: Disable 1: Enable	Disable
Pilot Hunt Ring	Permits station to receive pilot hunt ring.	0: Disable 1: Enable	Enable
ACR User	Sets Anonymous Call Restrict service.	0: OFF 1: ON	OFF
Wake-Up Time (1-5)	You can assign five different wake-up settings with each mode. There are five types of wake-up mode. 1. Once 2. Daily 3. Monday – Friday 4. Monday – Saturday 5. Specific Date/Time	HH: MM	
Branch Line/Bridge Line Mode	Enables branch line feature. Branch: Press the **{DN}** button used, the conference call is established. Bridge by pressing DN: Press the **{DN}** button used, bridge call is connected. Auto Bridge if Phontage/UCS Client's IP Bridge is enabled (softphone): If Phontage or UC client's IP is enabled, the bridge will be made automatically.	0: OFF 1: Branch 2: Bridge by pressing DN. 3: Auto Bridge if Phontage/UCS Client's IP Bridge is enabled.	OFF

Table 1.5.4.2-1 Station Directory Number Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Privacy	Enables auto privacy feature (to restrict the intrusion/call-wait/camp-on/OHVA at a busy station).	0: OFF 1: ON	OFF
DID/DISA Restriction	If set, incoming DID and DISA calls to DN are restricted.	0: OFF 1: ON	OFF
DID/DISA Restriction LCD Display	If set, when DID/DISA Restriction is enabled, LCD shows this information.	0: OFF 1: ON	ON
CLIP Display	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, the number will be shown in the Digital phone LCD.	0: DISABLE 1: ENABLE	ENABLE
COLP Display	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, the number will be shown in the Digital Phone LCD.	0: DISABLE 1: ENABLE	ENABLE
CLI/Redirect	When an incoming ISDN call is redirected, the call SETUP message will contain an original and redirected CLI. This selection determines if the Digital Phone will display the original or redirected CLI number.	0: Original CLI 1: Redirect CLI	Original CLI
CLIR When Outgoing	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, the system will send RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	0: DISABLE 1: ENABLE	DISABLE
COLR When Incoming Answer	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, the system will send the restrict instruction to the PSTN when the station answers an ISDN call.	0: DISABLE 1: ENABLE	DISABLE
CLI Number	When not restricted (by using CLIR/COLR above), entry configured is added to the number sent in the ISDN call SETUP or CONNECT message in place of the station number.	24 digits	
Call Forward CLI/Redirect	When an incoming ISDN call is forwardedto other ISDN CO, the call SETUP message will contain an original and redirected CLI. This selection determines if SETUP includes the original or redirected CLI number.	0: Original CLI 1: Redirect CLI	Original CLI
Ignore Caller's CLIR option	If it is enabled, when a call with CLIR option is received, option will be ignored andCLI will be displayed.	0: DISABLE 1: ENABLE	DISABLE

Table 1.5.4.2-1 Feature Numbering Codes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Mobile Extension CLI	When mobile extension makes a call, CLI is determined by this option. 0: Caller Number 1: Mobile Station Number 2: (Caller + Mobile Station) Number	0: Caller Number 1: Mobile Station Number 2: (Caller+Mobile Station) Number	Caller Number
Long CLI 1	If CLI type of outgoing CO line is set to 1, (Long CLI 1), Long CLI 1is sent.	24 digits	
Long CLI 2	If CLI type of outgoing CO line is set to 2, (Long CLI 2), Long CLI 2 is sent.	24 digits	
Long CLI 3	If CLI type of outgoing CO line is set to 3, (Long CLI 3), Long CLI 3 is sent.	24 digits	
CLI Name Display	This feature determines whether to display the CLI name. If it is enabled, following name will be searched and display if programmed. 1. Flexible button label name with this CLI number. 2. Station Speed Bin Name. 3. System Speed Bin Name. 4. Received CLI Name.	0: DISABLE 1: ENABLE	DISABLE
Station No. Hidden	If this is set to ON, station number is not displayed at calling or called party LCD. .	0: OFF 1: ON	OFF
Call Transfer CLI	When a station makes transfer call, call SETUP message will contain a transferor or transferred CLI. This feature determines which CLI will be used.	0: Transferor 1: Transferred	Transferor

1.5.4.3 Station Private CO Group Attributes – PGM Code 136

Selecting Private CO Group Attributes will display the page shown, Figure 1.5.4.3-1.

1. Enter a valid station range.
2. Click **[Load]** button to enter the Station Private CO Group data.
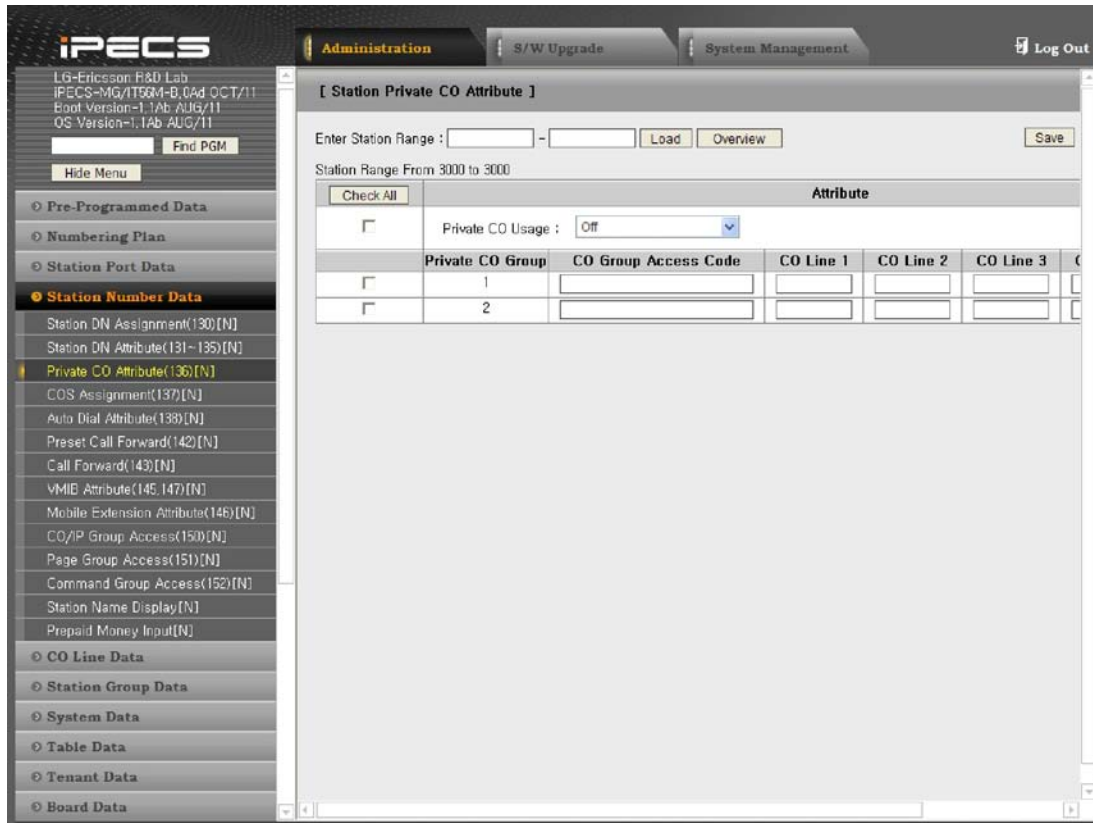
Figure 1.5.4.3-1 Station Private CO Attributes

Station Private CO Group Attributes defines CO group code and a private CO line for private CO group of each station.

Table 1.5.4.3-1 Station Private CO Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Private CO Usage	Determines seize mode 0. OFF: Disable Private CO Group operation. 1. Private CO: if all private CO line is busy, a user hears busy tone. 2. Private &Normal: if all private CO line is busy, a system seizes normal CO line related to CO Group access code. 3. Normal &Private: if all CO line in CO Group is busy, a system seizes private CO line.	0-2 0: OFF 1:Private CO 2: Private & Normal 3: Normal & Private	OFF
Private CO Group 1 CO Group Access Code	Determines CO group access code for Private CO Group 1.	Max 8 digits	
Private CO Group 1 1st ~5th CO line	Determines 1st ~5th CO line number for Private CO group1.	001-240 (MG300) 01-80(MG-100)	

Table 1.5.4.3-1 Station Private CO Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Private CO Group 2 CO Group Access Code	Determines CO group access code for Private CO Group 2.	Max 8 digits	
Private CO Group 2 1st ~5th CO line	Determines 1st ~5th CO line number for Private CO group2.	001-240 (MG300) 01-80(MG-100)	

1.5.4.4 Station COS Assignment – PGM Code 137

Selecting COS Assignment will display the page shown, Figure 1.5.4.3-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station COS data.
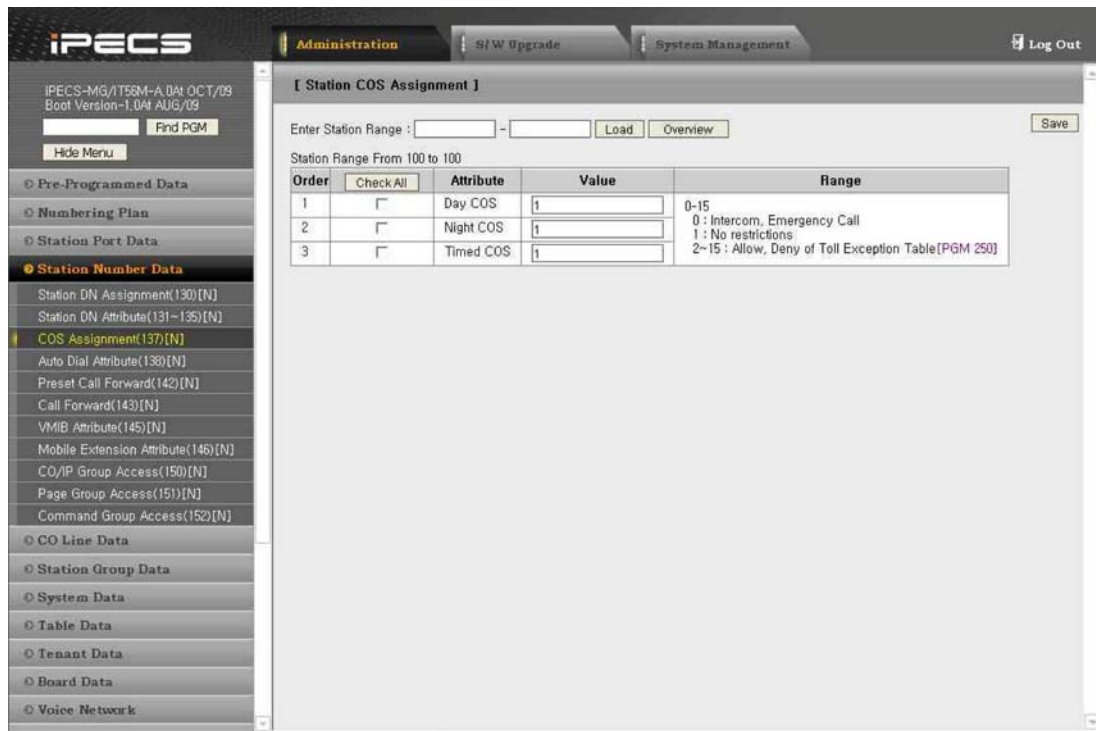
Figure 1.5.4.4-1 Station COS Assignment

All stations are assigned to a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls. Separate COS assignments are configured for Day, Night and Timed Mode operation. As a default all stations are assigned with a Station COS of 1 for all modes, no restrictions.

Table 1.5.4.4-1 Station Class-Of-Service

STATION COS	RESTRICTIONS
0	Intercom and Emergency number calls are allowed. Incoming and transferred calls are allowed.
1	No restrictions are placed on dialing.
2-15	Configured toll exception tables for these COS are monitored for allow and deny numbers. − If a table has no entries, no restrictions are applied. − If there are only Deny entries, restrictions are provided as Deny only. − If there are only Allow entries, restrictions are provided as Allow only. − If there are both Allow and Deny entries, the Deny entries are searched. If the dialed number matches a Deny entry, the call is restricted; if no match is found the call is allowed.

1.5.4.5 Station Auto Dial Attribute – PGM Code 138

Selecting Auto Dial Attribute will display the Station page shown, Figure 1.5.4.4-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station Auto Dial Attribute.
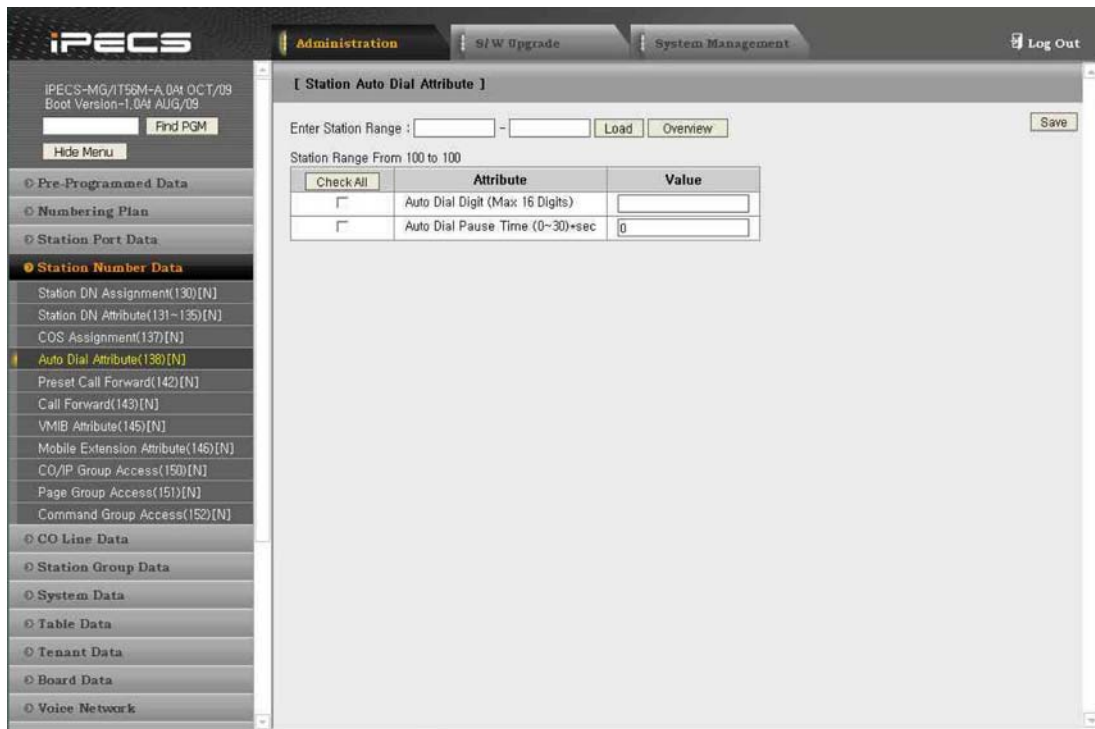
Figure 1.5.4.5-1 Station Auto Dial Attribute

When a station goes off-hook (lifts handset or presses **[Speaker]** button), the system normally provides an intercom dial tone. In place of the dial tone, the station can be programmed to dial preprogrammed Auto-Dial Digit. If Auto Dial Digits is configured and if no digit is entered within the 'auto dial pause time after off-hook,' the system will dial the digits in 'Auto Dial Digit' automatically.

Table 1.5.4.5-1 Station Auto Dial Attribute

ATTRIBUTE	DESCRIPTION	DEFAULT
Auto Dial Digit	Digits will be dialed automatically Max 16 digits	
Auto Dial Pause Time	Auto dial pause time	

1.5.4.6 Preset Call Forward – PGM Code 142

Selecting Preset Call Forward will display the page shown, Figure 1.5.4.5-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station Preset Call Forward data.
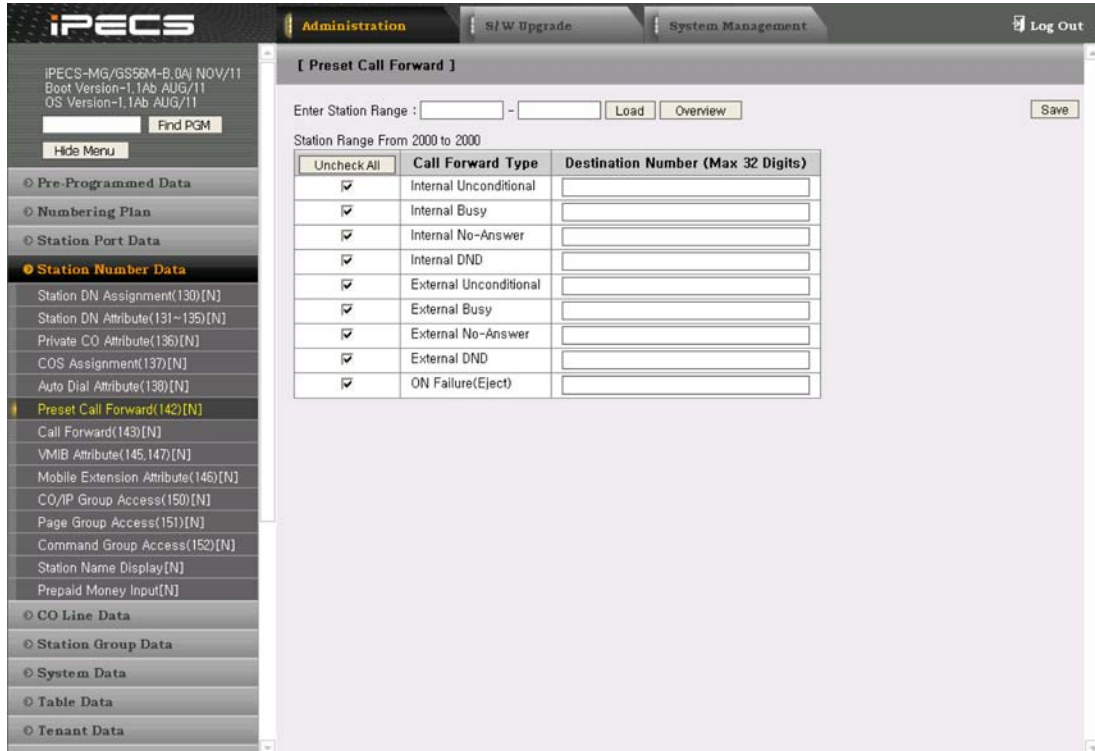
Figure 1.5.4.6-1 Preset Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a preset station or station group. This allows an external call 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, External Unconditional, External Busy, External No Answer, External DND or ON Failure (Eject) preset forwarding to any station, station group or external number. As a default, no Preset Call Forward is assigned.

1.5.4.7 Call Forward – PGM Code 143

Selecting Call Forward will display the page shown, Figure 1.5.4.6-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station Call Forward data.
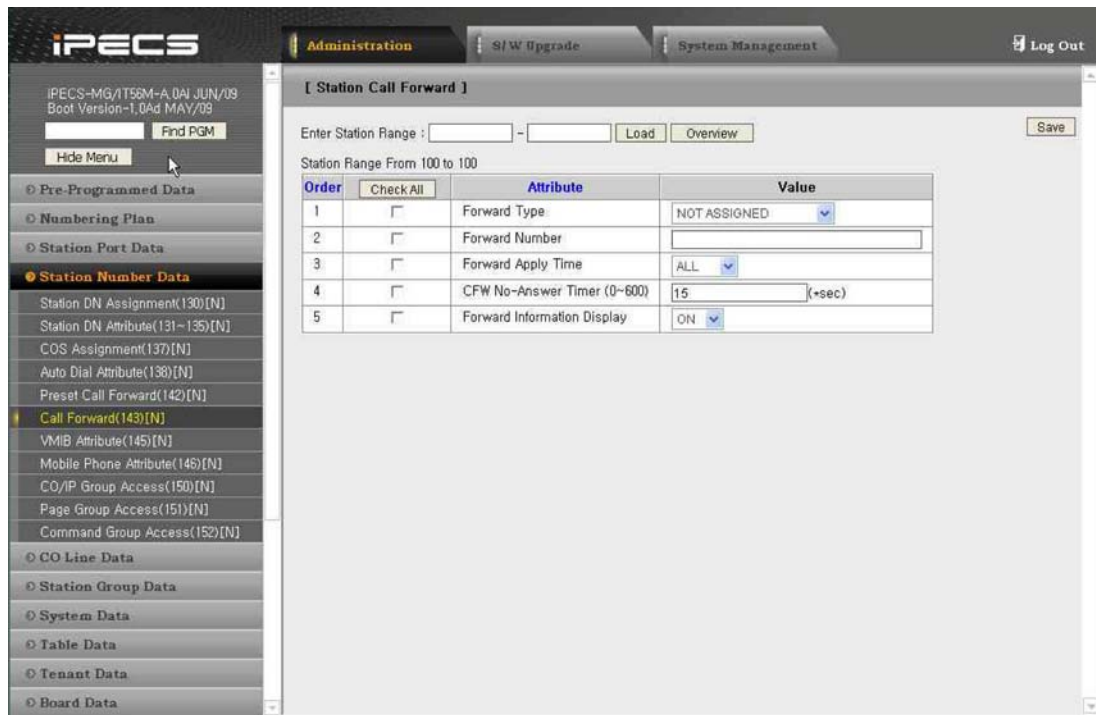
Figure 1.5.4.7-1 Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a station, station group or external number.

Table 1.5.4.7-1 Station Call Forward

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Forward Type	Specify call forward type.	0: Not Assigned 1: Unconditional 2: Busy 3: No Answer 4: Busy or No Answer	Not Assigned
Forward Number	Specify Call Forward Destination by entering dial digits.	Max. 32 digits	-
Forward Apply Time	Specify Call Forward Applying Time.	0: All / 1: Day 2: Night / 3: Timed	ALL
CFW No-Answer Timer	Call is forwarded to 'Call Forward Destination,' if station does not respond during this 'CFW NO ANS TMR' timer.	0-600 sec	15
Forward Information Display	Enables Forward Information Display Option to display forward information durning idle state.	0: OFF 1: ON	ON

1.5.4.8 VMIB Attribute – PGM Code 145, 147

Selecting VMIB Attribute will display the page shown, Figure 1.5.4.7-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Station VMIB Attribute Data.

Figure 1.5.4.8-1 VMIB Attribute

Station VMIB Attributes define VMIB features available to the station directory number.

Table 1.5.4.8-1 Station VMIB Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VMIB Access	Permits station access to VMIB.	0: Disable 1: Enable	Disable
Prompt Language Index	Selected language type prompt is played to the user when accessing the VMIB.	0: First 1: Second 2: Third	First
Auto-Record Service	When allowed, if user is in conversation with internal/external users, their conversation will be automatically recorded. It can be used without two-way record button.	0: Disable 1: Enable	Disable
Two-Way Record Access	When allowed, the station can activate the Two-way record feature to record a conversation.	0: Disable 1: Enable	Disable
Two-Way Recording Destination	It defines the location of Two-Way recorded wav files. When VM Boards, recorded wav files aresaved at internal VM boards. In addition, if assign specific Phontage and this Phontage is supportable s/w version (Deluxw version), recorded wav files is saved at hard disk of Phontage program installed PC.	Empty Digits	Empty (VM Internal Boards).
VM Message Backup Phontage Number	When station has new voice mail in VM internal boards, this information is reported to assigned Phontage number. In addition, Phontage user can backup these saved voice mail from VM internal boards to hard disk of Phontage program installed PC.		
VM Message Backup Delete Option	Whenit is enabled, Phontage user can delete all voice mail in VM internal boards.	0: Disable 1: Enable	Disable
VMIB Message Retrieve Type	Messages stored in the VMIB may be retrieved in either a FIFO (first-in-first-out) or LIFO (last-in-first-out) order based on this entry.	0: LIFO 1: FIFO	LIFO
VMIB Urgent Message No	Display the number of urgent messages.	0 ~ 250	0
VMIB New Message No	Displays the number of new messages.	0 ~ 250	0
VMIB Saved Message No	Displays the number of saved messages.	0 ~ 250	0
Company Directory - First Name	First name of the user can be programmed for the name search in company directory feature.	Max 12	
Company Directory - Last Name	Last name of the user can be programmed for the name search in company directory feature.	Max 12	
Administrator Mail Box	Administrator features for voice mail can be allowed or disallowed for the user.	0:DISABLE 1:ENABLE	DISABLE
Announce only Mail Box	If enabled and station is forwarded to voice mail, only the station greeting is played without recording.	0:DISABLE 1:ENABLE	DISABLE
Announce only Option	After accessing announce-only mailbox, the call can be routed back to CCR previous menu or hanged up.	0:Previous Menu 1: Hang up	Previous Menu
Cascade Mail Box	If the station receives a voice message, it is copied to the cascade mailbox automatically.	Max 8	
Cascade Type	The voice message cascade feature can be disabled, or performed immediately when voice message is left, or only when outcall notification fails, or only for urgent messages.	0: Off 1: Immediate 2: Noti Fail 3: Urgent	0: Off

Table 1.5.4.8-1 Station VMIB Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VM COS	The class of service for voice mail features	1 - 5	1
Outcall Notification	When a voice message is left to a station, it can be notified to an outside telephone.	0: OFF 1: ON	OFF
Outcall Attempts	The number of attempts for outcall notification can be set here	1 - 9	3
Outcall Interval	Between each retrial of outcall notification, the interval can be set here	01 – 60 (minutes)	03
Outcall Phone Number	The telephone number for voice message notification can be set here including trunk access code		
VM MSG - SMTP Mail Server Address	SMTP Mail Server Address	IP address	-
VM MSG - User Mail Address	User Mail Address that will receive the e-mail.	IP address	-
VM MSG - SMTP Mail Server ID	SMTP Mail Server ID	Max. 20	-
VM MSG – SMTP Mail Server Password	SMTP Mail Server Password	Max. 20	-
VM MGS – SMTP Mail Sender Address	Sender Mail Address that will be put in the sender's address field in the e-mail.	Max. 48	-
VM MSG – Attach Message	This provides 3 options: Do not attach message in e-mail Attach message only Attach message and delete it from board	0: Off 1: Attach only 2: Attach & Delete	Off
VM Forward Reroute Destination	When Rerouting from Voice Mail Forward function is used, this destination is used.	8 digits	
Message Date/Time Prompt	When user voice message is checked, this determines the period to play time/date prompt	0: Before Msg 1: After Msg 2: Off	Before Msg
SMTP Port Number (0000~9999)	Each DN can have its own SMTP port number for VM E-mail notification.	0000-9999	0025
VM Slot No(01-18)	If VM Slot No is assigned for a DN, all voicemail messages for the DN will be stored at that board.	01-18	Not Assigned
VM Password Input	Password input method to access voice mailbox.	1:Extension+ Password 2:Password 3:No Password	Extension+ Password
Msg RW/FF Time(03~99)	This specifies the unit amount of time when user message is rewound or fast forwarded during play-back.	03-99	03

1.5.4.9 Mobile Phone Attribute – PGM Code 146

Selecting Mobile Phone Attribute will display the page shown, Figure 1.5.4.8-1. Enter a valid station range and click **[Load]** to enter the Station Mobile Phone Attribute Data.
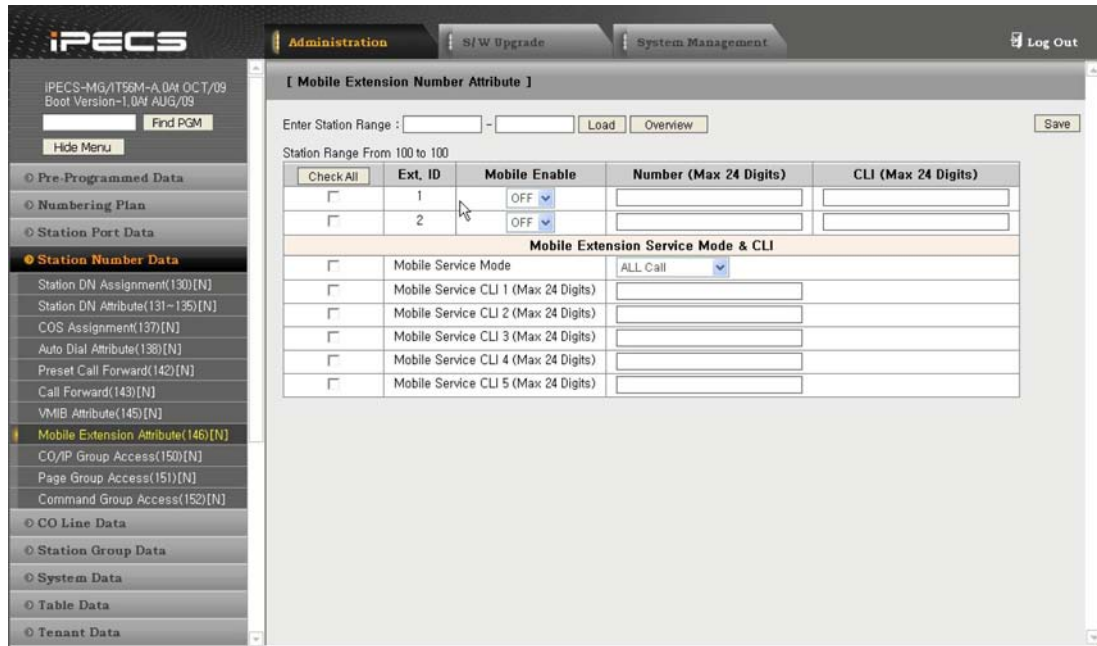
**Figure 1.5.4.9-1 Mobile Phone Attribute**

A mobile phone can be used in conjunction with a station. The Mobile phone can access system resources available to the user's wired phone and will receive ringing for incoming calls. The user may be allowed to enable the Mobile extension and define the mobile number.

Table 1.5.4.9-1 Mobile Phone Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
EXT. ID	Mobile phone index		
Mobile enable	Enable mobile extension ability.	0: OFF 1: ON	OFF
Number	Mobile extension number	Max. 24 digits	-
CLI	Mobile extension CLI number	Max. 24 digits	-
Mobile Service Mode	Select apply mobile service to ALL call or CLI1-CLI5. 0: ALL call – Enable Mobile extension service for all call. 1: Service CLI only – Enable Mobile extension service for only Mobile extension CLI number (CLI1~CLI5).	0: ALL Call 1: Service CLI only	ALL Call
Mobile Service CLI (1-5)	CLI for Mobile Service		

1.5.4.10 CO/IP Group Access – PGM Code 150

Selecting CO/IP Group Access will display the page shown, Figure 1.5.4.9-1.

1. Enter a valid station range.
2. Click **[Load]** to enter CO/IP Group Access data.
3. Check the appropriate boxes to allow or delete access to each CO/IP Group.
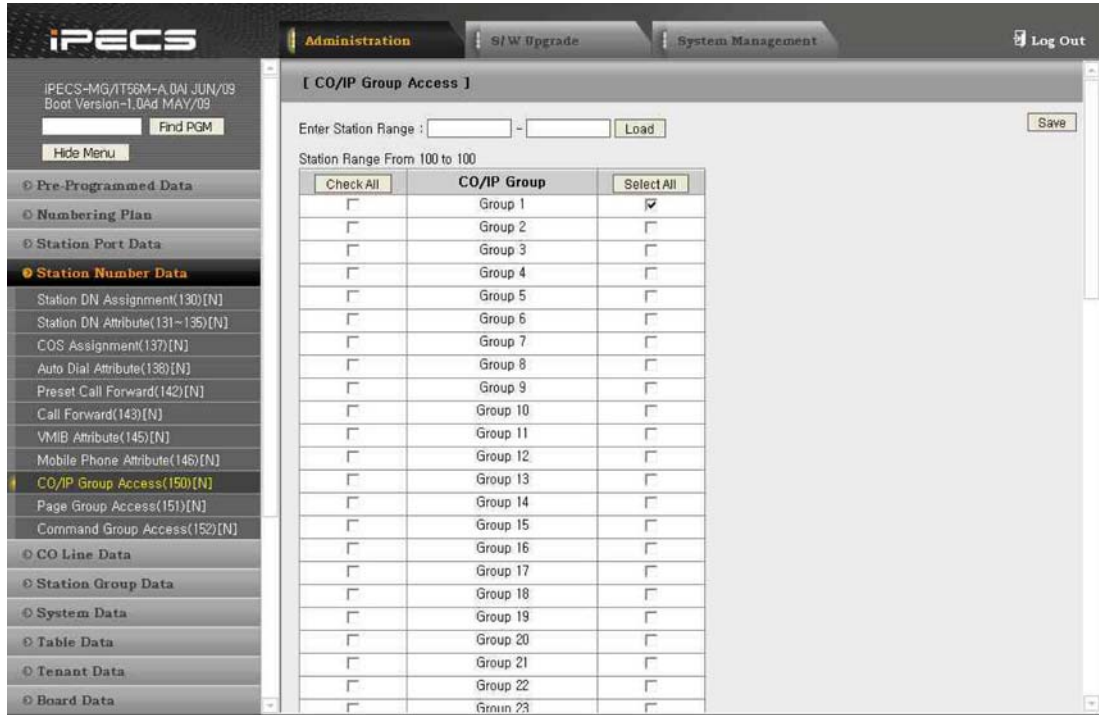
Figure 1.5.4.10-1 CO/IP Group Access

Stations can be allowed or denied access to CO Lines and IP Channels by group. As a default, all stations are allowed access to group 1.

1.5.4.11 Internal Page Group Access – PGM Code 151

Selecting Internal Page Group Access will display the page shown, Figure 1.5.4.10-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Internal Page Group Access data.
3. Check the appropriate boxes to allow or delete access to each Internal Group Zone.
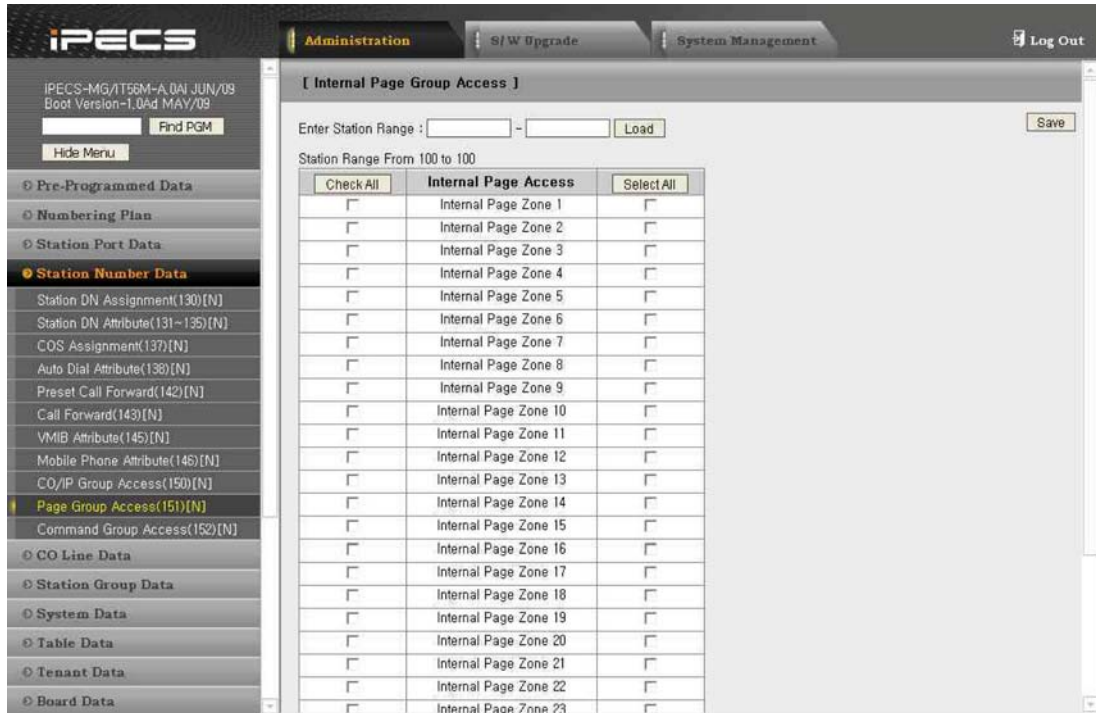
Figure 1.5.4.11-1 Internal Page Group Access

Each station is assigned for making announcements to each Internal Page Group.

1.5.4.12 Command Conference Group Access – PGM Code 152

Selecting Command Conference Group Access will display the page shown, Figure 1.5.4.11-1.

1. Enter a valid station range.
2. Click **[Load]** to enter the Command Conference Group Access data.
3. Check the appropriate boxes to allow or delete access to each Command Conference Group.
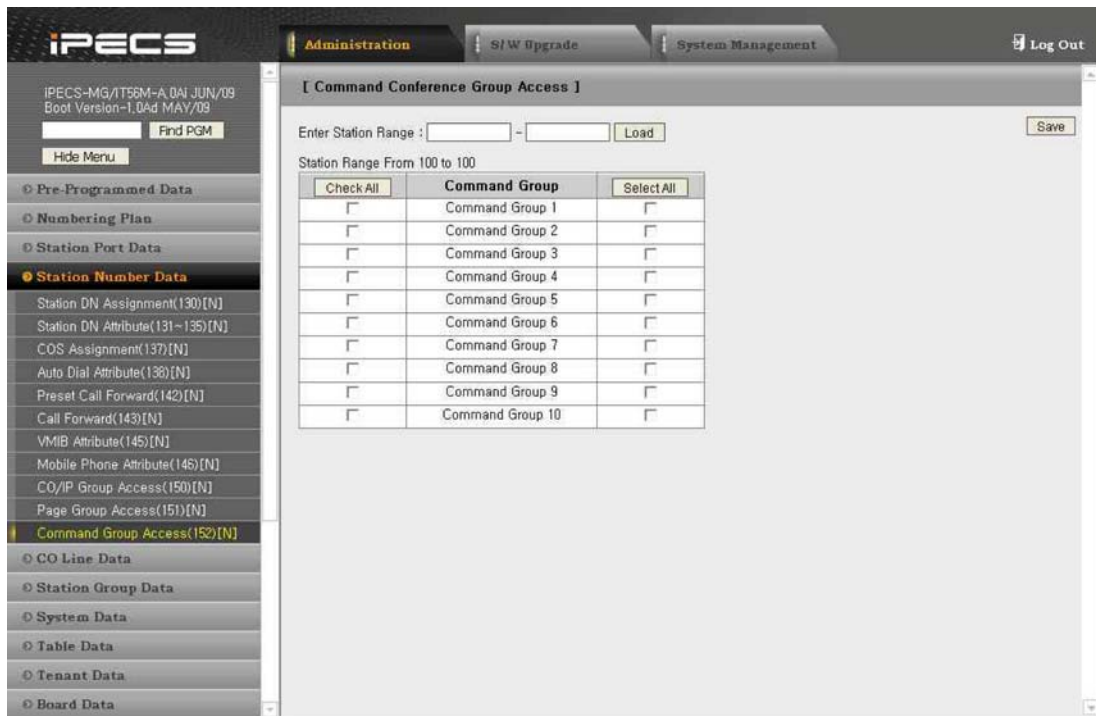
Figure 1.5.4.12-1 Command Conference Group Access

Stations can be allowed or denied access to Command Conference Group. If a station has command conference group access, the user can make a command conference group call (if command conference group members are assigned). As a default, all stations are denied to access to all groups.

1.5.5 CO Line Data

Selecting the CO Line Data program group returns the sub-menu displayed, Figure 1.5.5-1.

Figure 1.5.5-1 CO Line Data

1.5.5.1 CO Line Attribute – PGM Codes 160–163

Selecting CO Line Attributes will display the page shown, Figure 1.5.5.1-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.

Figure 1.5.5.1-1 CO Line Attribute

CO Attributes define various characteristics of CO lines.

Table 1.5.5.1-1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Type	Displays the line type of selected CO line.	Display only	-
Service Type	Sets CO line type as DID or Normal.	0: Normal 1: DID	Normal
Outgoing Group No	Sets CO Group Number to apply to outgoing calls. If deleted, the selected CO couldn't be used.	01–72, None(MG-300) 01–24, None(MG-100)	01
Incoming Group No	Sets CO Group Number to apply to incoming calls.	01–72, None(MG-300) 01–24, None(MG-100)	01
Tenant No	Sets Tenant group number to apply to CO lines.	1-9(MG-300) 1-5(MG-100)	1
Digit Conversion Table	Sets Digit Conversion Table index. Can set the destination for each DID number using Digit Conversion Table.	1-9	1
Signal Type	Sets Answer Signal Type.	0: No Signal 1: Send Wink(IC) 2: Wait Seize Ack(OG) 3: Send Wink & Wait Sz Ack 4: Send & Wait Sub-Answer 5: Send Wink & Send Sub-Answer(IC) 6: Wait Ack & Send Sub-Answer(OG) 7: Send All & Wait All	No Signal
Release Timing	If Release Timing is set to first release, CO line is released when one party releases the call. If Caller or Called Release is set, CO line is released when caller or called party releases the call.	0: First Release 1: Caller Release 2: Called Release	First Release
Incoming/Outgoing Mode	Each CO line can be set to only allow incoming or outgoing calls.	0: Incoming 1: Outgoing 2: Both	Both
Dialing Type	One of following dialing signal type can be selected; DTMF, Pulse, R2MFC.	0: DTMF 1: PULSE 2: R2	DTMF

Table 1.5.5.1-1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Charge Mode	Each CO line can be set whether it will be charged or not. FREE: SMDR data is not printed/saved even though SMDR is enabled. ALL CALL REPORT: SMDR data about all of call is printed/saved according to the SMDR Attributes. OUTGOING CALL REPORT: SMDR data about only outgoing call is printed/saved according to the SMDR Attributes. INCOMING CALL REPORT: SMDR data about only incoming call is printed/saved according to the SMDR Attributes.	0: Free 1: All Call Report 2: Outgoing Report 3: Incoming Report	All Call REPORT
Metering Usage	According to PSTN service type, metering type can be selected among 00-13to manage call charge. 01- 06 can be applied to LCO lines, 07-12 can be applied to ISDN lines. 13 can be a applied to all.	00: None 01: 12KHz 02: 16KHz 03: 50KHz 04: Single Polarity Reverse (SPR) 05: Plural Polarity Reverse (PPR) 06: No Polarity Reverse (NPR) 07: AOC (Standard) 08: AOC-1(Italy & Spain) 09: AOC-2(Finland) 10: AOC-3(Australia) 11: AOC-4(Belgium) 12: AOC-5(Netherlands) 13: TIME	None
CO Service mode	One of SIP (or PRI), H. 323 (or BRI) or Qsig type can be selected for each VOIP (or ISDN) lines. SIP/PRI : VOIB line is used for SIP or PRI line H.323/BRI : VOIB line is used for H.323/Gatekeeper or BRI line. QSIG : VOIB or PRI line is used for Voice Networking. T1 PRI : It is used for T1 PRI line. T1 QSIG: T1 PRI line is used for Voice Networking.	Not Assigned 1: SIP/PRI(E1) 2: H. 323 3: H. 450/QSIG(E1) 4: PRI(T1) 5: QSIG (T1)	

Table 1.5.5.1-1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Drop Type	LCO line drop type	0: Loop 1: Polarity	Loop
Flash type	LCO line Flash type	0: Loop 1: Ground	Loop
Flash timer	CO Flash Timer	000 – 300(10ms base)	50
Open Loop timer	Open Loop Timer	00 – 20(100ms base)	00
Line Length	LCO line length	0: 0km 1: 3km 2: 5km 3: 7km	0km
Zone No	Zone number of CO lines	1-9	1
VMIB Prompt Language Index	VMIB Prompt Sets the language of CO lines. Using CO line, announcement/ Prompt is provided for each VMB Prompt language.	0:First Prompt 1: Second Prompt 2:Third Prompt	First Prompt
Gain Table index	Gain table for each CO line	0: Table 1 1: Table 2 2: Table 3	Table 1
VOIP FW Usage	For H.323 call, if VOIP CO is behind NAT, , this admin should be configured to ON. And Firewall IP Address in PGM 108 is used. For H.323 Networking call, Firewall Routing field in PGM 321 is used.	0: OFF 1: ON	ON
Line Monitor	This determines that detect line fault or not.	0: OFF 1: ON	ON
Tone Table Index	Determines Tone table index to provide Tone for CO line. If this value is not assigned, a system refers to tenant tone table index.	1-9, NOT ASG	NOT ASG
VM Service Retry Count	This determines the retrial count of voice mail services when there's no available voice mail channel.	000-100	000
CO Access Mode	Blocked Line : If you do not use the trunk, it will be Blocked.. Normal CO Line : Normal CO Line attributes are applied to CDR. Dedicated Line : Dedicated Line attributes are applied to CDR	0: Blocked Line 1: Normal CO Line 2: Dedicated Line	Normal CO Line

Table 1.5.5.1-1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Digit Sending Mode	CO lines can be set to send digit with overlap or Overlap: When you dial a number, it will be sent for each digit. Enblock: When you dial a number, it will be sent at once together.	0: Overlap 1: Enblock	Overlap
Max. Digit Length	Maximum number of dialed digits can be limited with this admin.	00-32	32
Min. Digit Length for Overlap Mode	Maximum number of digits can be for overlap dialing. If it is set with 01-32, then SETUP message will not be sent to network until these minimum digits are dialed.	00-32	00
Check Password	Reserved	0: OFF 1: ON	0FF
R2 Connect Mode	R2 line connection mode can be set. END-TO-END : iPECS-MG system control the all signals of outgoing call. Set in the general case. LINK BY LINK : iPECS-MG system operates as tandem switch. In this case, iPECS-MG system by passes the signal.	0: END-TO-END 1: LINK-BY-LINK	ENE-TO-END
R2MFC Backward Value	R2MFC Backward Value	1-15	1
Dummy Dial-Tone Service	When CO line is seized, dummy dial tone can be provided for in case if PSTN does not provide it.	0: OFF 1: ON	OFF
T1 Normal Mode	Determines if Loop or Ground is selected for each T1 Digital lines.	0: Loop 1: Ground	Loop
T1 DID Mode	Determines if Immediate, Wink, Delay Wink is selected for each T1 DID lines.	0: Immediate 1: Wink 2: Delay Wink	WINK
CID Mode	CID signal type can be assigned according to the CID type PSTN provides.	0: Disabled 1: FSK 2: DTAS FSK 3: DTMF 4: R-CID	FSK

Table 1.5.5.1-1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
RCID Detect	Russia CID Detect Mode	0: LOCAL 1: ALL	ALL
RCID Request	Russia CID Request Mode	0: USER 1: AUTO	AUTO
RCID Digit Number	Russia CID Digit Number	4-10	7
RCID No-Answer Timer	Russia CID NO-Answer Timer	1-300(sec)	20
RCID Request Count	Russia CID Request Count	1-3	1
RCID Request First Delay Timer	Russia CID First Delay Timer	10-150(10msec)	20
RCID Request Retry Daly Timer	Russia CID Retry Delay Timer	10-30(10msec)	10
CID Detection Timer	CID Signal Detection Timer. When CID type is FSK or DTAS-FSK or RCID, during this time, system tries to detect CID	001-100(100msec)	40

1.5.5.2 Incoming CO Attributes – PGM Codes 165–166

Selecting Incoming CO ATTR will display the page shown, Figure 1.5.5.2-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the Incoming CO Line Attributes data.

Figure 1.5.5.2-1 Incoming CO Attribute

Incoming CO Attributes define various characteristics of CO lines. Refer to Table 1.5.5.2-1.

Table 1.5.5.2-1 Incoming Co Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Name	Incoming CO line name can be assigned.	Max. 16 characters	-
ISDN Screen Indicator	Decide to insert screen indicator to ISDN message.	0: user-provided, not screened 1: user-provided, verified and passed	user-provided, not screened
Calling Type	For Incoming calls on the ISDN Line, this parameter defines the "Type of Number Plan" provided in Connected Party Information Element of the ISDN call CONNECT message.	0: Unknown 1: International 2: National 3: Subscriber 4: Not Used	National

Table 1.5.5.2-1 Incoming Co Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Calling Numbering Type	Select Connected numbering plan type of ISDN CONNECT message. That type is included in the ISDN CONNECT Message when sending the called number.	0: Unknown 1: I SDN/Telephony 2: Data 3: Telex 4: National Standard 5: Private	Unknown
Sending Progress Indicator	If this feature is set to ALL, Progress Indicator is sent to the ISDN PSTN about All Message. If this feature is set to ALERTING, Progress Indicator is sent to the ISDN PSTN about Alerting Message.	0: NO 1: All Message 2: Altering Message	NO
R2 ANI Service Request	If this feature is set to ON to R2 line, system request ANI digits (CLI data) to the calling party.	0: Off 1: On	OFF
ICLID Service	If this feature is set to ON, incoming call is routed according to ICLID table (PGM 262).	0: Off 1: On	OFF
Own Code Add to Transit CLI	If this feature is set to ON, Own code is added before original caller's CLI is sent when there is transit call.	0: Off 1: On	OFF
Own code	Own Code	Max. 16 digits	-
CLI Prefix Code	Prefix code is inserted ahead of received CLI data.	Max. 2 digits	-
International Code	International Code is inserted ahead of received CLI data according to call type.	Max. 4 digits	-
Transit CLI 1	If Transit CLI type of outgoing CO line is set to 1, Transit CLI 1 is sent.	Max. 24 digits	-
Transit CLI 2	If Transit CLI type of outgoing CO line is set to 2, Transit CLI 2 is sent.	Max. 24 digits	-
Transit CLI 3	If Transit CLI type of outgoing CO line is set to 3, Transit CLI 3 is sent.	Max. 24 digits	-
CLI Conversion Table Index	CLI Conversion table index	1-9, empty = not adding	4 empty
Alternative Ring Table index for Holiday	If Ring mode is holiday and this is assigned, an incoming call is routed to the destination of holiday alternative ring index.	1-80, empty=not assign	None
Virtual Subscriber Usage	According to this value, virtual subscriber service is decided to apply or not. And how to apply virtual subscriber service	0:NO, Normal Service 1:ALLOW 2:DENY 3:MATCH	NO
Set Anonymous Call(CLIR) When No CLI	If a incoming call has no CLI, system handles the call as if CLIR is set.	0: Disable 1: Enable	Disable
Provide Dial Tone	If this feature is set to ON, dial tone is provided to networking CO.	0: Off 1: On	OFF
BLF Usage	If this feature is set to ON, flex button LED will be flashing when CO line is programmed on the button.	0: Off 1: On	ON

Table 1.5.5.2-1 Incoming Co Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Unsupervised Conference Extend	If this feature is set to ON, unsupervised conference timer can be extended by dial feature code after warning tone is heard.	0: Disable 1: Enable	DISABLE
Block after Clear Forward Waiting Time	If this feature is set to ON, CO line is blocked after clear forward waiting time.	0: Off 1: On	OFF
CPT Detect	If this feature is set to ON, Call processing tone is detected to disconnect LCO line.	0: Off 1: On	OFF
Answer to waiting call	If this feature is set to ON, system sends answer when call is waited.	0: Off 1: On	OFF
Universal Answer	If this feature is set to ON, any station can answer a call on the CO Line by dialing the Universal Answer feature code.	0: Off 1: On	OFF
Release Guard Time	If CO release signaling is not completed successfully, CO line is disconnected when this timer expires.	00-15 (sec)	1
Unsupervised Conference Timer	When there is a conference call without supervisor, or a CO-to-CO call, the call is disconnected after this timer expires; a warning tone is heard before the line is disconnected.	000-255(min)	10
Clear Forward Waiting Timer	Clear Forward Waiting Time.	1-300 (sec)	300
Max. Ring Time	Max. Ring Time when incoming CO is transferred/recalled.	15-300 (sec)	120
DISA Supervision Timer	DISA CO call will be answered after this time.	1-9 (sec)	2
VMIB Play Delay Timer	VMIB Announcement will be played after this time.	0-9 (sec)	0
Incoming Time Table Index	The time table index to be applied to incoming CO Call.	1-9, none	none
CO Delay Answer Timer	For Incoming calls on the ISDN Line, this parameter defines the delay time between Alerting and Connect Message.	0-100 (100 msec)	0
Offnet Call Forward Usage	ISDN lines can be set to use Call Deflection/Call Rerouting service if PSTN supports these features.	0: Join 1: ISDN Call Deflection 2: ISDN Call Rerouting	Join

Table 1.5.5.2-1 Incoming Co Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
R2 Signal Mapping Group	For R2 line, there is R2 signal group mapping table (PGM 268). This parameter defines the R2 signal group mapping table's index number for backward signal.	1-9	1
R2 Category	If R2 incoming call is routed to another CO, this parameter defines the outgoing call's R2 category.	1-15	1
R2 Line Status	For Incoming calls on the R2 line, this parameter defines the line status when an incoming destination is idle and sends ring back tone.	1-15	6
Collect Call Blocking	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 Indication	Disabled
Collect Call Answer Timer	If it is set to Double Answer for collect call blocking, this timer is sending dummy answer signal.	1-250 (100ms)	10
Collect Call Idle Timer	If it is set to Double Answer for collect call blocking, this timer is sending dummy idle signal.	1-250 (100ms)	20

1.5.5.3 CO Ring Assignment – PGM Code 167

Selecting CO Ring Assignment will display the page shown, Figure 1.5.5.3-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Ring Assignment data.
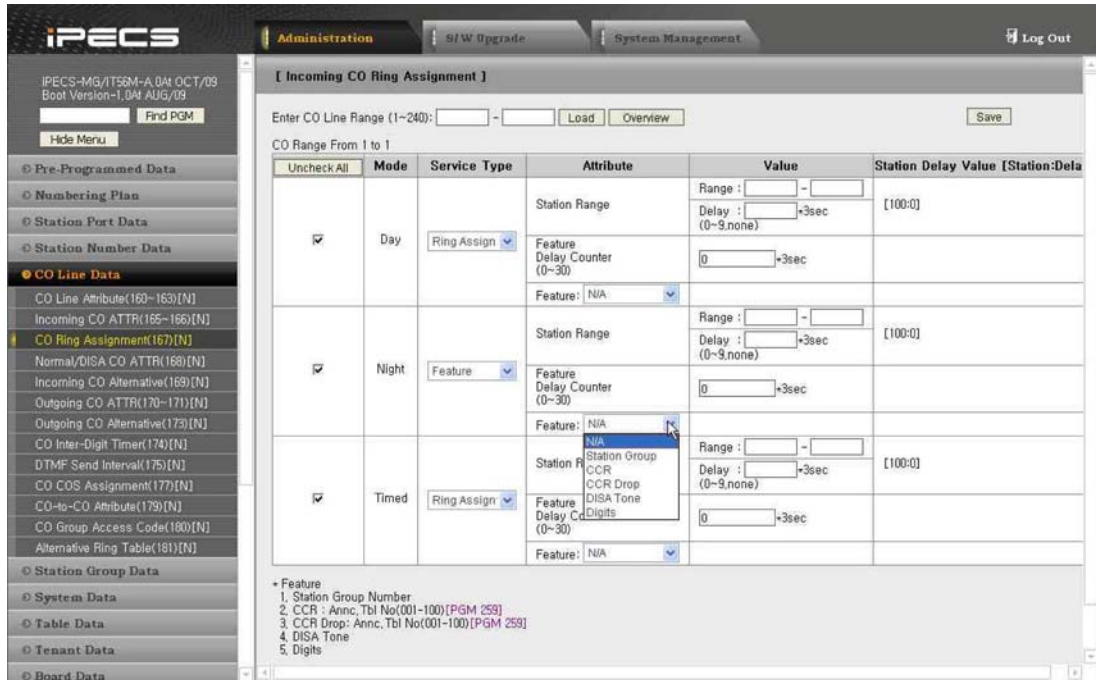
Figure 1.5.5.3-1 CO Ring Assignment

Each CO line is assigned to a station or feature code for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring modes. Ring signals can be on an immediate or delayed basis allowing other stations to be assigned ringing and answer prior to a delayed station. Delay can be set from 0 to 27 seconds.

NOTE
If the 'DISA Tone Service' feature code is assigned, DISA service is activated line.

Table 1.5.5.3-1 CO Ring Assignment

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Service Type	The service type can be set. Ring Assign : ring option is applied to ring assigned stations. Feature : feature is activated to an incoming call.	0: Ring Assign 1: Feature	Ring Assign
Station Range: Range	To change station's ring assign status, enter desired station range (Max. 30 stations can be assigned).	Start Station & End Station	-
Station Range: Delay	Enter delay value; if delay is 0, station will start to ring immediately. If delay value is deleted, the station will not ring. Otherwise if delay is 1-9, the station will start to ring after delay time (3 times delay value).	0-9	STA100(Port 0): delay 0 Others: not assigned
Station Delay Value [Station Delay]	Assigned station and delay value can be displayed.		-
Feature Delay counter	If Service type is set to Feature code, it can be displayed.	0-30	0
Feature	If Service type is set to 'Feature' and valid feature is assigned, then assigned feature is activated when there is an incoming call. The following feature can be assigned, 1) Station Group 2) ACD Group 3) Announcement Table 4) Announcement Table And Drop 5) DISA Tone 6) Direct VM transfer 7) Networking Number 8) Company Directory 9) Digits: Other digits. If user changes above feature codes from 1) to 9) to other codes, these will be displayed with this 'Digits' type.		-

1.5.5.4 Incoming CO Normal/DISA Attributes – PGM Code 168

Selecting Normal/DISA CO ATTR will display the page shown, Figure 1.5.5.4-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.
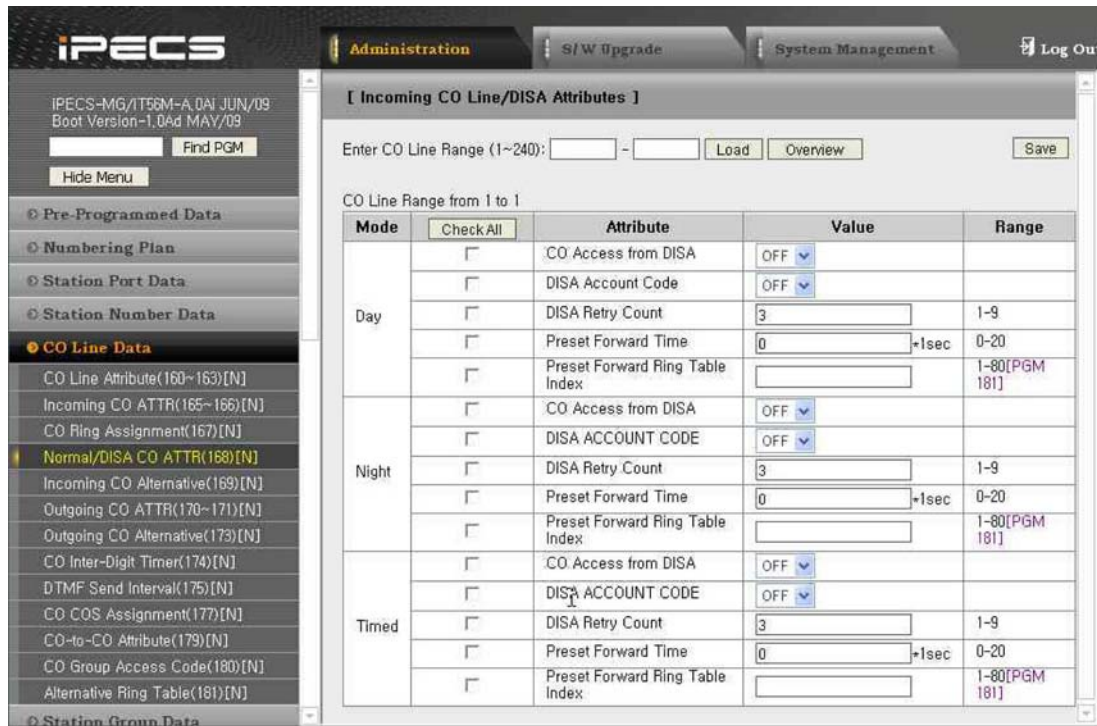
Figure 1.5.5.4-1 Incoming CO Normal/DISA Attributes

If the CO line is set to Normal type, it can have normal CO Attributes including DISA service option.

Table 1.5.5.4-1 INCOMING CO Line/DISA Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
CO Access from DISA	If this feature is set to ON, CO-to-CO call can be allowed from DISA line.	0: Off 1: On	OFF
DISA Account Code	When making CO-to-CO call from DISA line, password can be requested.	0: Off 1: On	OFF
DISA Retry Count	When DISA call fails to route to the desired destination, the call can be retried as many times as the Retry Count.	09	3
Preset Forward Time	If the CO is not answered in Preset Forward Time, it will be routed to the assigned ring table.	0-20(sec)	0
Preset Forward Ring Table Index	Preset Forward ring table index can be assigned (refer to PGM 181).	01-80	-

1.5.5.5 CO Incoming Alternate Destination – PGM Code 169

Selecting Incoming CO Alternative will display the page shown, Figure 1.5.5.5-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.
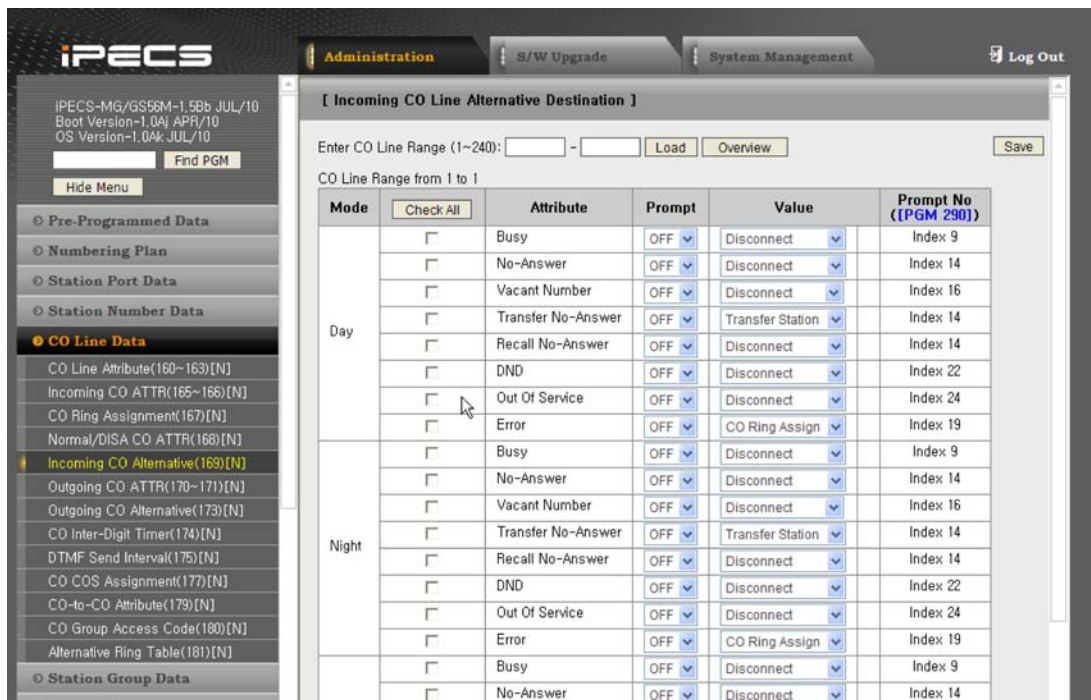
Figure 1.5.5.5-1 CO Incoming Alternate Destination

When a DID or DISA call is routed to an unavailable destination (busy, DND, not available number etc.), the call can be rerouted to alternate destination. The destination is separately defined for Day/ Night/ Timed mode according to several conditions (busy, no answer, number of errors, transfer no answer, recall no answer, DND, etc) as described. If Prompt usage is set to ON, the relevant tone will be played first and then the call will be routed to alternate destination.

Table 1.5.5.5-1 Incoming CO Alternate Destination

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Busy	A call can be routed to busy destination when a called party or channel is busy(ex, VMIB)	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	
No-Answer	A call can be routed to no-answer destination when a called party does not answer the call..	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	
Vacant Number	A call can be routed to vacant number destination when a called party number is invalid format or unallocated number	Disconnect Attendant CO Ring Assign ALT Ring Table Tone	
Transfer No-Answer	A call can be routed to transfer no-answer destination when a transferred to station does not answer the call.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group Ring Transfer Station	
Recall No-Answer	A call can be routed to recall no-answer destination when a station does not answer recall ring..	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Ring	
DND	A call can be routed to DND destination when a called part is DND status	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	

Table 1.5.5.5-1 Incoming CO Alternate Destination

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Out Of Service	A call can be routed to Out Of Service destination when a called part is Out Of Service status	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	
Error	A call can be routed to Error destination when a called part is other error case.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	

Table 1.5.5.5-2 Prompt

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Prompt	If set ON, the tone is heard first before being routed to alternate destination.	OFF/ON	OFF
Prompt No ([PGM 290])	The relevant tone index in tone table ([PGM 290]) that is played when Prompt is set ON		

1.5.5.6 CO Outgoing Attribute – PGM Codes 170–171

Selecting Outgoing CO ATTR will display the page shown, Figure 1.5.5.6-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Line Attributes data.

Figure 1.5.5.6-1 CO Outgoing Attribute

CO Outgoing Attributes define various characteristics of the CO lines under control of the system when there is an outgoing CO call.

Table 1.5.5.6-1 CO OUTGOING ATTRIBUTE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ISDN Screen Indicator	Inserts screen indicator to ISDN message.	0: Off (user-provided, not screened) 1: On (user-provided, verified and passed)	OFF
Sending Caller Number	If this is set to ON, Calling Party Number can be sent.	0: Off 1: On	ON
Calling Type	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: Subscriber 4: Not Used	Subscribe

Table 1.5.5.6-1 CO OUTGOING ATTRIBUTE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Calling Numbering Plan Identification	Select Calling number plan of ISDN SETUP message.	0: Unknown 1: I SDN/Telephony 2: Data 3: Telex 4: National 5: Private	Unknown
Called Numbering Plan Identification	Select Called number plan of ISDN SETUP message.	0: Unknown 1: ISDN/Telephony 2: Data 3: Telex 4: National 5: Private	Unknown
Bearer Capability	Select Bearer Capability of ISDN SETUP message.	0: Speech 1: Unrestricted 2: Restricted 3: 3. 1KHz Audio 4: 7KHz 5: Video	Speech
ISDN Line Type	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.	0: A-law 1: U-law	A-Law
Sending Complete IE for Information Message	Decide to send 'Sending Complete' IE to ISDN SETUP message.	0: Off 1: On	OFF
Make Transit CLI	When no CLI is sent with a transit call, the system will initiate a CLI to CO direct transit call.	0: Off 1: On	OFF
Own Code Add to Transit CLI	If this feature is set to ON and same feature of incoming CO attribute is also set to ON, then Own code of outgoing CO line is inserted to the CLI of transit CO call.	0: Off 1: On	OFF
Representative CLI Usage	If this feature is set to ON, representative CLI is used to every outgoing call of selected CO line.	0: Off 1: On	OFF
Representative CLI	When'Representative CLI Usage' (PGM170-F11) is set to ON, representative CLI is sent when making outgoing call regardless of other CLI attribute.	Max. 16 digits	-
Own code	CO Own code can be inserted before station number when making outgoing call CLI.	Max. 16 digits	-
CLI Type	CLI type can be selected. If set to Long CLI, only selected long CLI data is used instead of normal CLI.	0: Normal 1: Long CLI 1(PGM 135-F10) 2: Long CLI 2(PGM 135-F11) 3: Long CLI 3(PGM 135-F12)	Normal

Table 1.5.5.6-1 CO OUTGOING ATTRIBUTE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Transit CLI Type	Transit CLI type can be selected. If set to transit CLI, only selected transit CLI data is used instead of normal CLI.	0: Normal 1: CLI 1(PGM 165-F8) 2: CLI 2(PGM 165-F9) 3: CLI 3(PGM 165-F10)	Normal
CLI Conversion Table Index	Select CLI Conversion table index	1-9, none	none
Send Redirection Number	If this is set to ON, Redirection Number can be sent	0: Off 1: On	OFF
Digit Sending Mode	If this is set to ON, Digits can be sent as Information message after system receives Call Proceeding Message	0: Off 1: On	Off
Wait User Release for Inband	This defines the operation when system receive the Disconnect Message with Progress Indication(In-band information) Immediate: When a system receives the DISCONNECT Message, CO Line can be released immediately Wait User Release: When a system receives the DISCONNECT Message, CO line is not released till an user release the line.	0: Immediate 1: Wait User Release	Wait user Release
CPT Detect	If this feature is set to ON, CPT (Call Processing Tone) is detected and the line can be dropped.	0: Off 1: On	ON
Unsupervised Conference Extend	If this feature is set to ON, Unsupervised Conf Timer can be extended by dialing feature code after warning tone is heard.	0: Off 1: On	OFF
Provide Ring-Back Tone	If this feature is set to ON, dummy ring back tone is heard by system when CO line is seized.	0: Off 1: On	OFF
BLF Usage	If this feature is set to ON, flex button LED will be flashing when CO line is programmed on the button.	0: Off 1: On	ON
Release Guard Timer	Release Guard Timer can be set. If CO release signaling is not completed successfully, CO line is disconnected when this timer expires.	0-15 (sec)	2
Unsupervised Conference Timer	When there is conference call without supervisor, or there is any CO-to-CO call, the call is disconnected after this timer expires. The warning tone is heard before the line is disconnected.	0-255(min)	0

Table 1.5.5.6-1 CO OUTGOING ATTRIBUTE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Max. Transfer Ring Timer	Max. Ring Time when outgoing CO is transferred/recalled.	1-300 (sec)	120
Outgoing Time Table Index	The time table index to be applied to outgoing CO Call.	1-9, none	none
Analog CO Voice Connection	The Analog CO Voice Connection mode can be set. Inter Digit Timer: Voice path is connected after inter digit timer. Immediate Connection: Voice path is connected when a user seizes the CO line.	0: Inter Digit Timer 1: Immediate connection	Inter Digit Timer
R2 Signal Mapping Group	For R2 line, there is R2 signal group mapping table (PGM 268). This parameter defines the R2 signal group mapping table's index number for backward signal.	1-9	1
ARS Service	Alternative path can be used when all CO lines assigned to a CO access code are busy.	0: Off 1: On	Off
Send DTMF After Dial Tone	If this is set to ON, system sends DTMF signal after it detects the Dial Tone,	0: Off 1: On	Off

1.5.5.7 CO Outgoing Alternate Destination – PGM Code 173

Selecting Outgoing CO Alternative will display the page shown, Figure 1.5.5.7-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Outgoing Alternate Destination data.
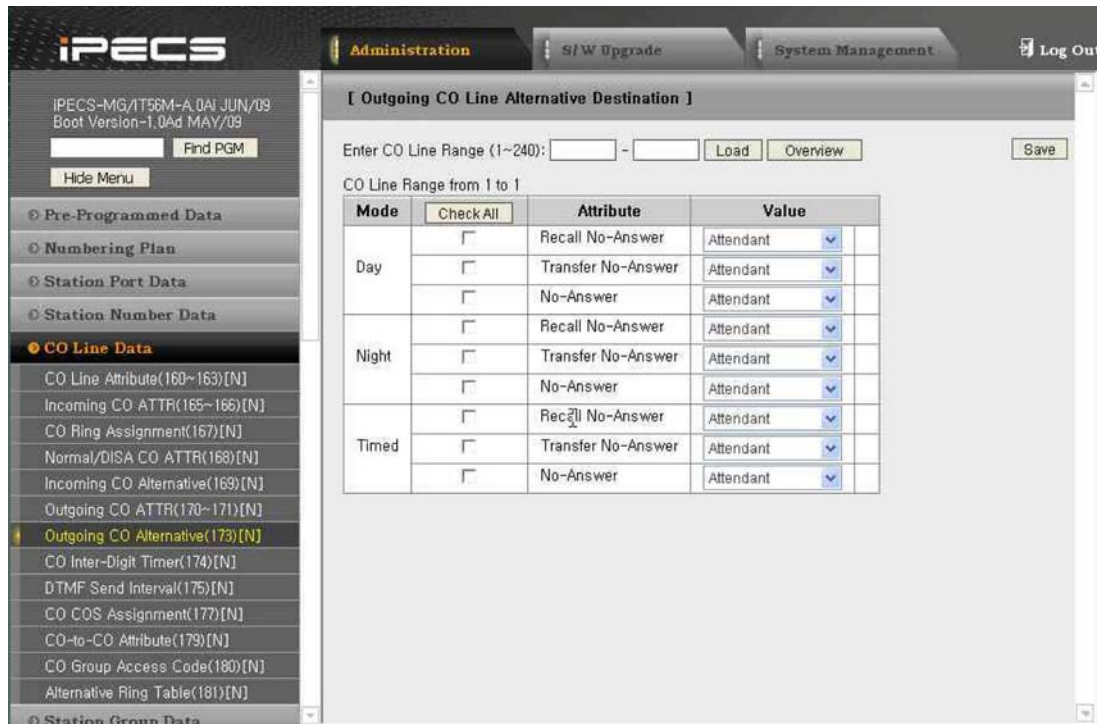
Figure 1.5.5.7-1 CO Outgoing Alternate Destination

When an outgoing call is routed to an abnormal destination, the call can be rerouted to an alternate destination. The destination is separately defined for Day/ Night/ Timed mode according to several conditions. (Recall no answer transfer no answer, no answer). You can set the destination to Disconnect, Attendant, CO Ring Assign, ALT Ring Table, Tone, Pilot etc. for each condition.

Table 1.5.5.7-1 CO OUTGOING ALTERNATIVE DESTINATION

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Recall No-Answer	A call can be routed to recall no-answer destination when a station does not answer recall ring.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group Ring	
Transfer No-Answer	A call can be routed to transfer no-answer destination when a transferred to station does not answer the call	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group Ring Transfer Station	
No-Answer	A call can be routed to transfer no-answer destination about all case except recall/transfer no answer	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group Ring	

1.5.5.8 CO Outgoing Inter Digit Timer – PGM Code 174

Selecting CO Inter-Digit Timer will display the page shown, Figure 1.5.5.8-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Outgoing Inter Digit Timer data.
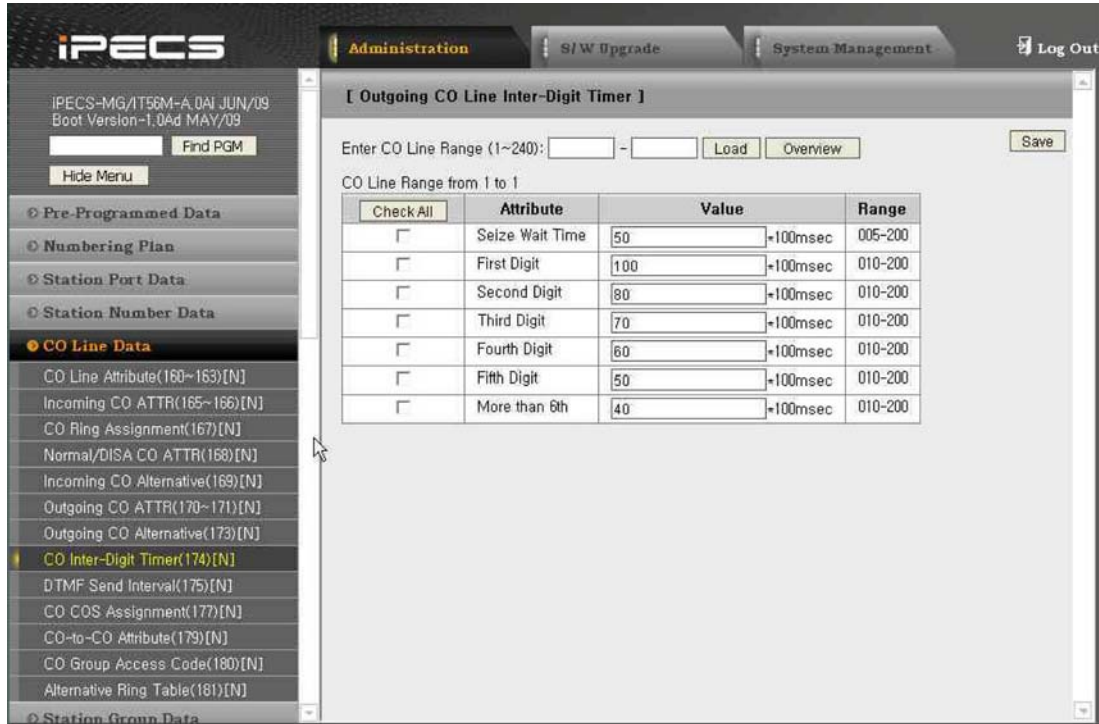
Figure 1.5.5.8-1 CO Outgoing Inter Digit Timer

When making an outgoing call with Inband DTMF tone, the time limit to enter digits can be adjusted. After timeout, the voice path is automatically connected.

Table 1.5.5.8-1 CO OUTGOING INTER-DIGIT TIMER

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Seize Wait Time	Wait time before first digit	005-200 (100msec)	020
First Digit	Time limit between first digit and the next digit.	010-200 (100msec)	100
Second digit	Time limit between second digit and the next digit.	010-200 (100msec)	080
Third Digit	Time limit between third digit and the next digit.	010-200 (100msec)	070
Fourth Digit	Time limit between fourth digit and the next digit.	010-200 (100msec)	060
Fifth Digit	Time limit between fifth digit and the next digit.	010-200 (100msec)	050
More than 6th	Time limit between digit and the next digit after sixth digit.	010-200 (100msec)	040

1.5.5.9 CO DTMF Sending Delay Timer – PGM Code 175

Selecting DTMF Send Interval will display the page shown, Figure 1.5.5.9-1.

    1. Enter a valid CO range.
    2. Click **[Load]** to enter the CO DTMF Sending Delay Timer data.

Figure 1.5.5.9-1 CO DTMF Sending Delay Timer

When making an outgoing CO call, the time interval to send DTMF tones of each digit can be adjusted.

Table 1.5.5.9-1 CO DTMF SENDING DELAY TIMER

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
First DTMF Delay	Delay time before sending first digit	00-90 (100msec)	05
Second DTMF Delay	Delay time before sending next digit after sending first digit DTMF tone.	00-90 (100msec)	02
Third DTMF Delay	Delay time before sending next digit after sending second digit DTMF tone.	00-90 (100msec)	02
Fourth DTMF Delay	Delay time before sending next digit after sending third digit DTMF tone.	00-90 (100msec)	02
Fifth DTMF Delay	Delay time before sending next digit after sending fourth digit DTMF tone.	00-90 (100msec)	02
Sixth DTMF Delay	Delay time before sending next digit after sending fifth digit DTMF tone.	00-90 (100msec)	02
More than 7th	Delay time before sending next digit after sending sixth digit DTMF tone.	00-90 (100msec)	02

1.5.5.10 CO COS Assignment – PGM Code 177

Selecting CO COS Assignment will display the page shown, Figure 1.5.5.10-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO COS Assignment data.
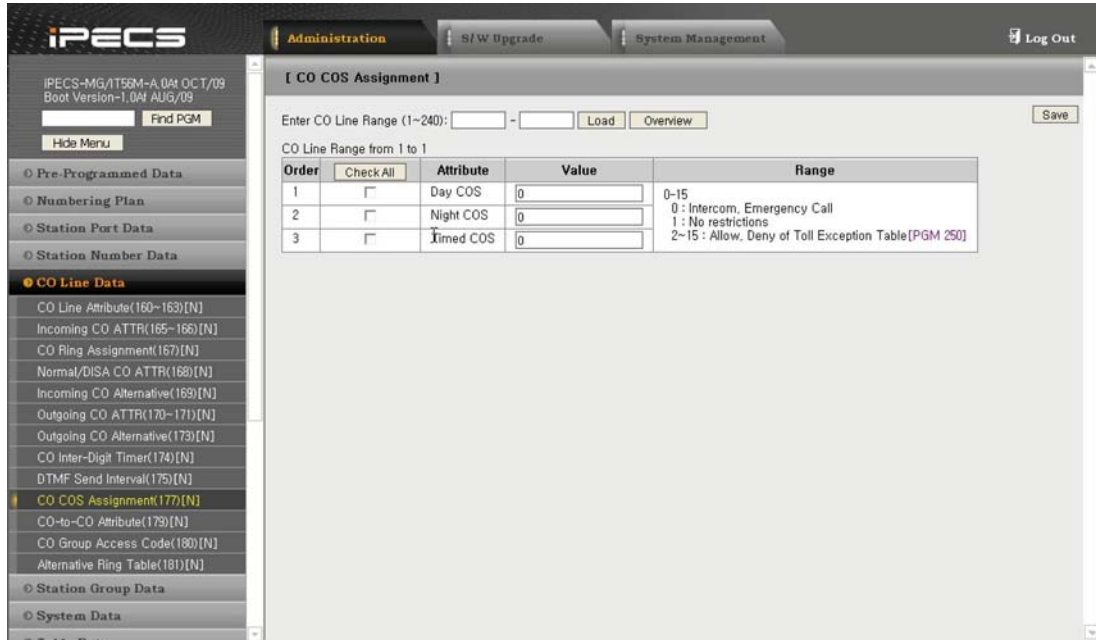
Figure 1.5.5.10-1 CO COS Assignment

Every CO line has its own COS and the toll of assigned COS is applied to the CO call (refer to Toll Exception Tables, PGM 250).

Table 1.5.5.10-1 CO COS ASSIGNMENT

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Day COS: 0	CO COS in Day mode	00-15	0
Day COS: 0	CO COS in Night mode	00-15	0
Day COS: 0	CO COS in Timed mode	00-15	0

1.5.5.11 CO to CO Call Attributes – PGM Code 179

Selecting CO-to-CO Attribute will display the CO-to-CO Call Attributes data input page,
Figure 1.5.5.11-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO-to-CO Call Attributes data.

Figure 1.5.5.11-1 CO to CO Attributes

CO to CO Call Attribute options can be set separately for each CO group (Incoming CO group
to Outgoing CO group, Outgoing CO group to Outgoing CO group).

Table 1.5.5.11-1 CO TO CO ATTRIBUTE

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Station Outgoing Call Transfer (Outgoing – Outgoing : Station)	While stations are connected to outgoing CO call of first CO Group, the station can transfer the call to second CO group.	0: Off 1: On	ON
Attendant Outgoing Call Transfer (Outgoing – Outgoing : Attendant)	While ATD is connected to outgoing CO call of first CO Group, the ATD can transfer the call to second CO group.	0: Off 1: On	ON
Outgoing Call Transfer Release Type (Outgoing – Outgoing : Release Type)	If outgoing CO call can be transferred to other CO call, release type can be set..	0: None 1: Release after Release Timer	None
Outgoing Call Transfer Release Time (Outgoing – Outgoing : Release Time)	If an outgoing CO call is transferred to CO call and CO-to-CO call is started, the call is disconnected after release time, when release type is set to 'Rls after Rls Time'; before disconnecting, warning tone is provided.	000-300 (sec)	060
Incoming Call Transfer Directly (Incoming – Outgoing : Direct)	If this feature is set to ON, CO incoming call can be transferred directly without any stations or ATD to transfer the call.	0: Off 1: On	OFF
Station Incoming Call Transfer (Incoming – Outgoing : Station)	While stations are connected to incoming CO call of first CO Group, the station can transfer the call to second CO group.	0: Off 1: On	ON
Attendant Incoming Call Transfer (Incoming – Outgoing : Attendant)	While ATD is connected to incoming CO call of first CO Group, the ATD can transfer the call to second CO group.	0: Off 1: On	ON
Incoming Call Transfer Release Type (Incoming – Outgoing : Release Type)	If incoming CO call can be transferred to other CO call, release type can be set.	0: None 1: Release after Release Timer	None
Incoming Call Transfer Release Time (Incoming – Outgoing : Release Time)	If an incoming CO call is transferred to CO call and CO-to-CO call is started, the call is disconnected after release time, when release type is set to 'Rls after Rls Time'; before disconnecting, a warning tone is provided.	000-300 (sec)	060

1.5.5.12 CO Group Access Code Attribute – PGM Code 180

Selecting CO Group Access Code will display the page shown, Figure 1.5.5.12-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO Group Access code Attributes data.
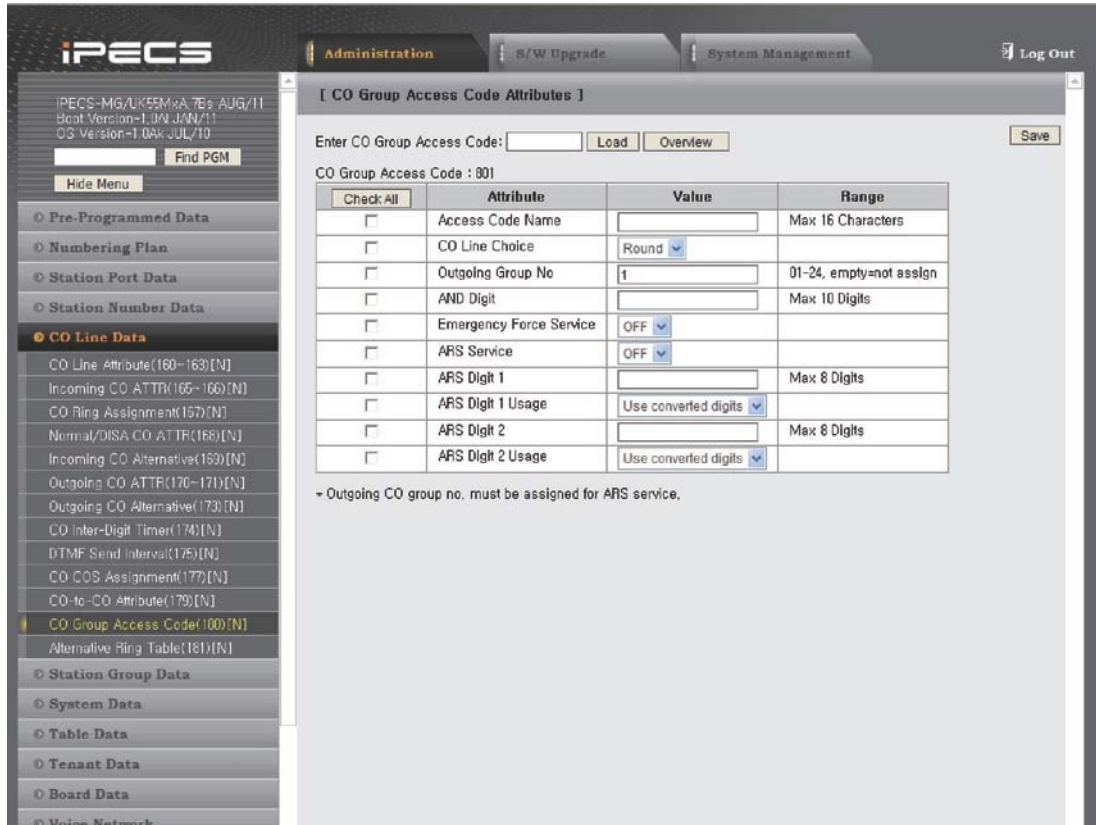

Figure 1.5.5.12-1 CO Group Access Code Attribute

Each CO Group Access Code has different attributes so the same CO group can be accessed using different codes and options.

Table 1.5.5.12-1 CO GROUP ACCESS CODE ATTRIBUTE

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Access Code Name	When CO Grp Access code is dialed or flex. Button of this code is pressed; name is displayed on the station LCD.	Max. 16 characters	-
CO Line Choice	Select a CO line priority to seize.	0: Round Robin 1: Last Line 2: First Line	Round Robin
Outgoing Group No	Decide CO Group number to seize. **NOTE** If not assigned, the access code is used as **[LOOP]** button.	01-72 (MG-300) 01-24 (MG-100)	Not assigned to the first access code. 01-72(MG-300) 01-24(MG-100) is assigned sequentially from the second access code
AND Digit	Automatic Network Dialing (AND) digit is sent after the CO line is seized. Establishes CO calls by dialing CO Group Access Code only.	Max. 10 digits	-
Emergency Force Service	If Emergency Force Service is set and all co line is busy, a CO line can be disconnected and emergency call can be served.	0: OFF 1: ON	OFF
ARS Service	If Alternate Route Selection (ARS) is set, ARS digit is dialed instead of CO Group Access code when there is no available path CO line.	0: OFF 1: ON	OFF
ARS Digit1	Alternate CO Group Access code to be used when original CO Group Access code failed to find available CO line.	Max. 8 digits	-
ARS Digit 1 Usage	When alternate CO Group Access code is used, this field defines if original digits or converted digits are used.	Converted Digits Original Digits	Converted Digits
ARS Digit2	Second alternate CO Group Access code to be used when original CO Group Access code and first ARS code failed to find available CO line.	Max. 8 digits	-
ARS Digit 2 Usage	When alternate CO Group Access code is used, this field defines if original digits or converted digits are used.	Converted Digits Original Digits	Converted Digits

1.5.5.13 Alternate Ring Assignment – PGM Code 181

Selecting Alternative Ring Table will display the page shown, Figure 1.5.5.13-1.

1. Enter a valid Table index.
2. Click **[Load]** to enter the Alternate Ring Assignment data.
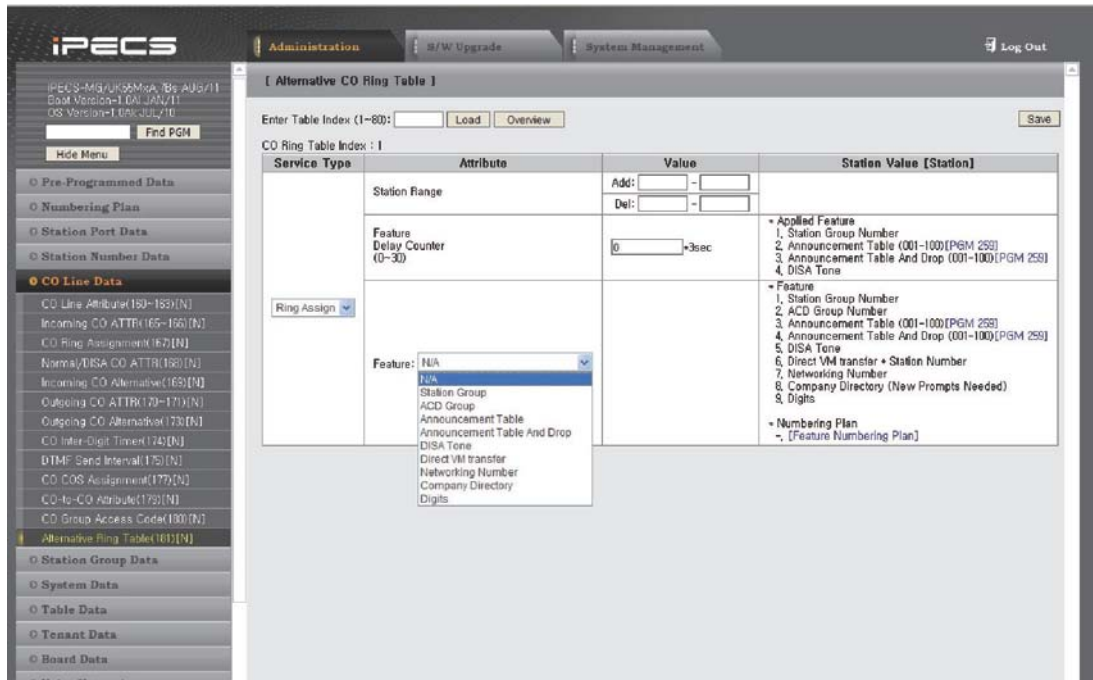
Figure 1.5.5.13-1 Alternate Ring Assignment

There is a supplementary ring assignment table, which is used for alternative destination or ICLID destination, CO Preset Call Forward, Holiday Ring Table, etc. The destination can be stations (no delay value) or any feature code.

Table 1.5.5.13-1 ALTERNATIVE CO RING TABLE ATTRIBUTE

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Service Type	If service type is set as 'Ring Assign', ring option is applied to ring assigned stations. Otherwise, if service type is set to 'Feature', feature is activated to an incoming call.	0: Ring Assign 1: Feature	Ring Assign
Station Range	Destination stations		
Feature Delay counter	If Service type is set to Ring assign, feature code is activated after feature delay counter.	00-30	00
Feature	If Service type is set to 'Feature' or Feature delay counter is set, then assigned feature is activated when there is an incoming call. The following feature can be assigned, 1) Station Group 2) ACD Group 3) Announcement Table 4) Announcement table and Drop 5) DISA Tone 6) Direct VM transfer 7) networking number		-

| | 8) Company Directory
9) Digits | | |

1.5.5.14 CO MATM Attribute – PGM Code 182

Selecting Alternative Ring Table will display the page shown, Figure 1.5.5.14-1.

1. Enter a valid CO range.
2. Click **[Load]** to enter the CO MATM Attribute data.

**Figure 1.5.5.14-1 CO MATM Attribute**

A number of timers can be assigned to control and affect MATM features and functions of the System.

Table 1.5.5.14-1 CO MATM Attribute

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Delay Start Timer	Determine the time of delay start timer. This timer only for EM type.	005–200 (100msec)	006
Send Wink Timer	Determine the time of send wink timer. This timer only for EM type.	010–200 (100msec)	006
Send Answer Timer	Determine the time of send answer timer. This timer only for EM type.	010–200 (100msec)	006
Osdn Release Timer	Determine the time of osnd release timer. This timer only for EM type.	010–200 (100msec)	013
Send Ring On Timer	Determine the time of send ring on timer. This timer only for CO, RD type.	010–200 (100msec)	020
Send Ring Off Timer	Determine the time of send ring off timer. This timer only for CO, RD type.	010–200 (100msec)	040
Send Ring Rptcnt Co Timer	Determine the time of send ring repeat count co timer. This timer only for CO, RD type.	010–200 (100msec)	008
Send Ring Rptcnt Rd Timer	Determine the time of send ring repeat count read timer. This timer only for CO, RD type.		02
EM Signal Mode	Determine the EM signal mode 2W(0) or 4W(1). This timer only for EM type. If you change this ADMIN, need MATM reset.		2W(0)

1.5.6 Station Group Data

Stations can be grouped for call routing, dialing, call pick-up, or various purposes.

The following groups can be defined:

- Station Group: Terminal / Circular / Ring / Longest Idle / VM
- Pick Up Group
- Paging Group
- Command call Group
- PTT Group
- Interphone Group
- Pilot Hunt Group
- ACD Group

Selecting the Station Group Data program group returns the sub-menu displayed, Figure 1.5.6-1.

Figure 1.5.6-1 System Group Data Main Page

The Station Group capacities for the iPECS-MG system are shown in the following table.

1.5.6.1 Station Group Assignment – PGM Code 200

Stations can be grouped so that incoming calls will search (hunt) for an idle station in the group. The system allows assignment of hunt processes, Terminal, Circular, Ring, Longest Idle and VM.

The Station Group capacities for the iPECS-MG system are shown in Table 1.5.6-1 STATION GROUP CAPACITY..

Table 1.5.6.1-1 STATION GROUP CAPACITY ITEM CAPACITY iPECS-MG 100 iPECS-MG 300

ITEM	CAPACITY	
	iPECS-MG 100	**iPECS-MG 300**
Number of Groups	20	50
Member in a Group	50	50

Selecting Station Group Assignment will display the page shown, Figure 1.5.6.1-1. Enter the desired Station Group Number and click **[Load]** to display the Station Group Assignment.

Figure 1.5.6.1-1 Station Group Assignment

The page consists of 2 menus – [Basic Attributes] & [Member Management]:

- [Basic Attributes] menu – 'group type', 'group name', 'tenant number', 'time table index' and 'pickup option' are assigned to the Station Group.
- [Member Management] menu – members of the Station group are managed. Adding members to the Station Group or deleting members from the Station Group is possible.

To add members to the Station Group:

> 1. Input the desired Station range to add.
> 2. Click **[Add]** button.

To delete members from the Station Group:

> 1. Input the desired Station range to delete.
> 2. Click **[Del]** button or check the members to delete.
> 3. Click the **[Delete Checked Member]** button.

> **NOTE**
> A station can belong to multiple groups.

Table 1.5.6.1-1 STATION GROUP ASSIGNMENT

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Group Type	Determines the type of station group.	0: Not Assign 1: Terminal 2: Circular 3: Ring 4: Longest Idle 5: Voice Mail	Not Assign
Group Name	Determines the name of group.	Max. 16 characters	-
Tenant Number	Assigns a tenant of station group. According to the Tenant Group Access, Stations in other groups are allowed or denied the ability to place intercom calls to this Station group.	1-9(MG-300) 1-5(MG-100)	1
Time Table Index	Determines the time table index of group It can be used to determine the forward destination with apply time type. Pickup Option	1-9	1
Pick Up Option	Stations can pick-up group calls ringing at other stations in the group. According to the value, Station group can be set to Pick-Up group.	0: Disable 1: All Call 2: Intercom 3: External	Disable
Member	Assigns stations as members of a station group.		-

1.5.6.2 Station Group Attributes – PGM Codes 201–202

Selecting Station Group Attributes will display the page shown, Figure 1.5.6.2-1. Enter the desired Station Group Number and click **[Load]** to display the Station Group Attributes data.
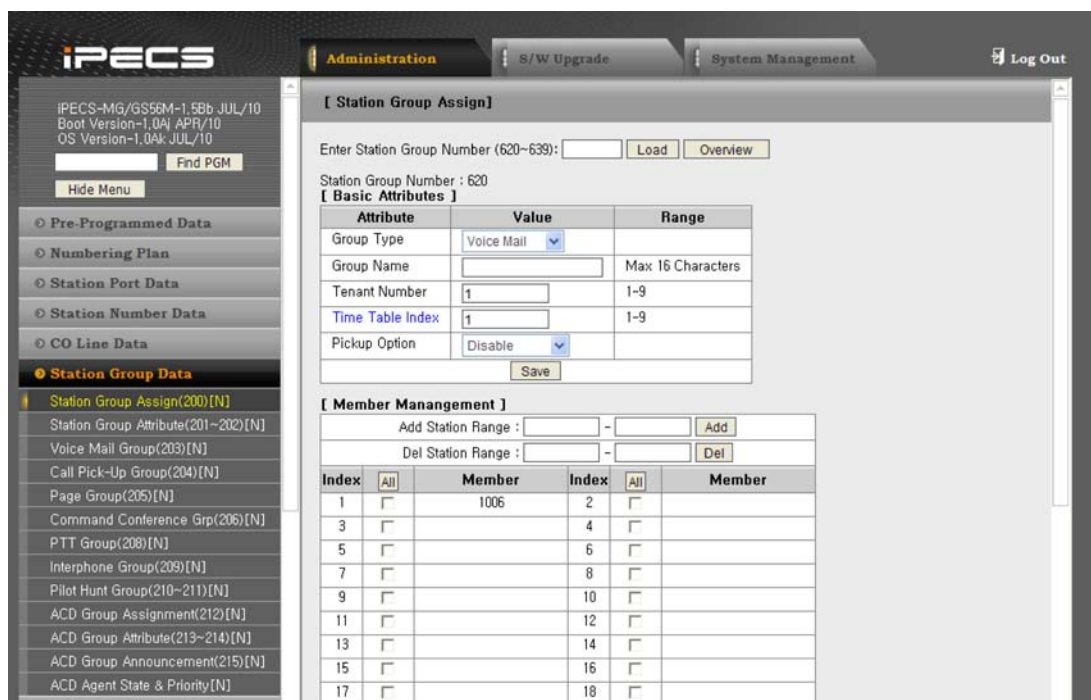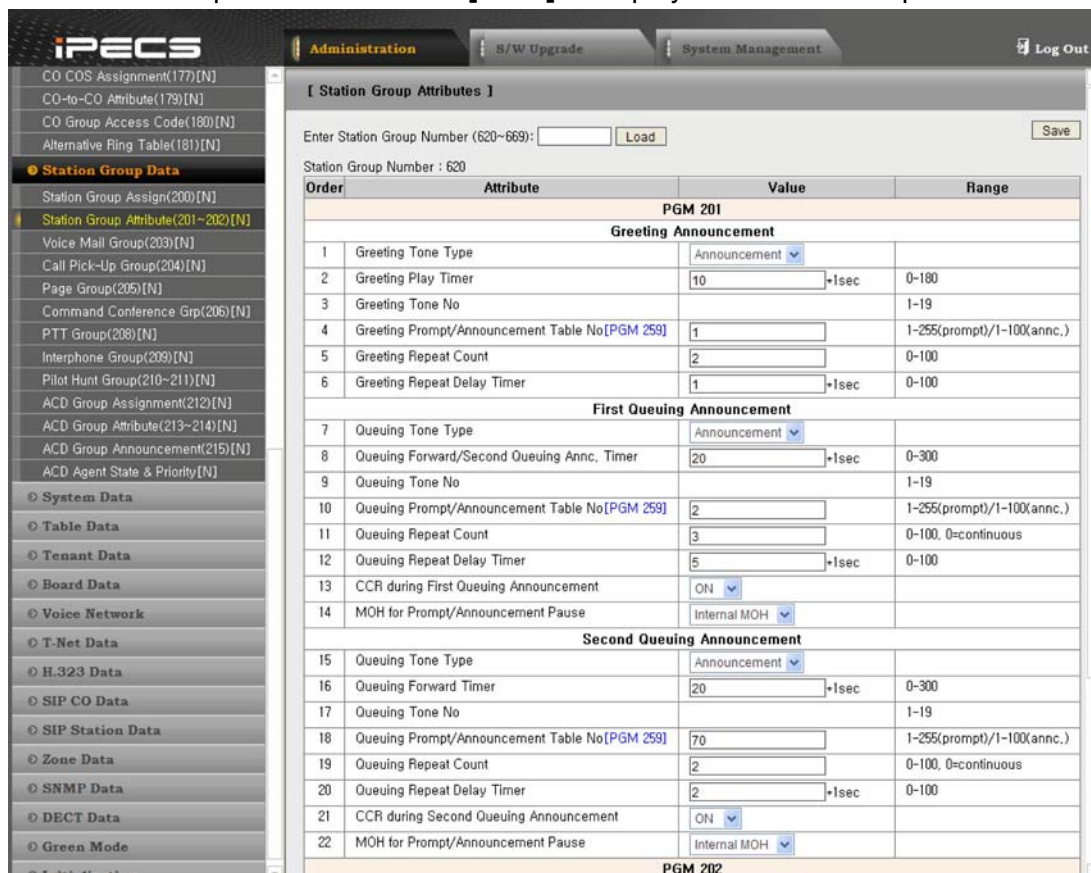

Figure 1.5.6.2-1 Station Group Attributes

Each type of group has a different set of available attributes relating to greeting and queuing announcements and timers. Station Group has available attributes relating to announcements, timers, forward, etc., as the following table describes.

Table 1.5.6.2-1 STATION GROUP ATTRIBUTES

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Greeting Tone Type	Determines the type of greeting tone. When the Station Group is called, Greeting Tone is always provided. Range 1 - 14, default 1 Normal Tone	1. Normal 2. Prompt 3. Annc 4. INT MOH 5. EXT MOH 6. VMIB MOH1 7. VMIB MOH2 8. VMIB MOH3 9. VMIB MOH4 (MG300 Only) 10. SLT MOH1 11. SLT MOH2 12. SLT MOH3 13. SLT MOH4	Normal

Table 1.5.6.2-1 STATION GROUP ATTRIBUTES

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
		14. SLT MOH5	
Greeting Play Timer	Determines greeting play time. Greeting announcement can be played during greeting play timer.	000~180 (seconds)	000
Greeting Tone No	Determines greeting tone number in case greeting type is normal.	01~19	NOT ASG
Greeting Prompt/ Announcement Table No (PGM 259)	Determines greeting prompt / annc number when greeting type is PROMPT/ANNC.	001-255	NOT ASG
Greeting Repeat Count	After a Greeting announcement is played, system repeats it for this value. If value is 0, the Greeting announcement is repeated infinitely. Or, greeting announcement is stop when the Greeting Play timer is expired.	000-100	3
Greeting Repeat Delay Timer	Determines the pause timer before greeting repeat. This is the time for the delay between Greeting announcements.	000-100 (seconds)	0
Queuing Tone Type	Determines the type of queuing tone. When all members are busy or set to Call Forward or in DND, Queuing Tone is provided.	1. Normal 2. Prompt 3. Annc 4. INT MOH 5. EXT MOH 6. VMIB MOH1 7. VMIB MOH2 8. VMIB MOH3 9. VMIB MOH4 (MG300 Only) 10. SLT MOH1 11. SLT MOH2 12. SLT MOH3 13. SLT MOH4 14. SLT MOH5	INT MOH
Queuing Forward/Second Queuing Annc. Timer	Determines queuing forward/second annc timer. When this timer is expired, the call is forwarded according to Forward Type..	010~300 (seconds)	30
Queuing Tone No	Determines tone number in case queuing type is normal. The tone of Tone Frequency/Cadence (PGM 264) is provided.	01~19	NOT ASG
Queuing Prompt/ Announcement Table No (PGM 259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Queuing Repeat Count	Determines queuing repeat number. After a Queuing announcement, system repeats the announcement for this value. If value is 0, the announcement is repeated infinitely. Or, announcement is stop when the	000-100	3

Table 1.5.6.2-1 STATION GROUP ATTRIBUTES

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
	Queuing timer is expired.		
Queuing Repeat Delay Timer	**Determines the pause timer before queuing repeat. This is the time for the delay between Queuing Announcements.**	**000-100 (seconds)**	**0**
CCR during First Queuing Announcement	**This entry defines CCR option during queuing announcement is provided. Determines CCR option during queuing announcement is provided.** **If Queuing Tone type is Announcement, CCR is operated according to CCR Table Index of Announcement Table(PGM 259).**	**0-1**	**0**
MOH for Prompt/Announcement Pause	**This entry defines MOH option during queuing annc. Pause time.**	**1. OFF** **2. INT MOH** **3. EXT MOH** **4. VMIB MOH1** **5. VMIB MOH2** **6. VMIB MOH3** **7. VMIB MOH4 (MG300 Only)** **8. SLT MOH1** **9. SLT MOH2** **10. SLT MOH3** **11. SLT MOH4** **12. SLT MOH5**	**OFF**
Second Queuing Tone Type	**Determines the type of queuing tone.**	**1. Normal** **2. Prompt** **3. Annc** **4. INT MOH** **5. EXT MOH** **6. VMIB MOH1** **7. VMIB MOH2** **8. VMIB MOH3** **9. VMIB MOH4 (MG300 Only)** **10. SLT MOH1** **11. SLT MOH2** **12. SLT MOH3** **13. SLT MOH4** **14. SLT MOH5**	**INT MOH**

Table 1.5.6.2-1 STATION GROUP ATTRIBUTES

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Second Queuing Forward/Second Queuing Annc. Timer	Determines queuing forward/second annc timer.	010~300 (seconds)	30
Second Queuing Tone No	Determines tone number in case queuing type is normal.	01~19	NOT ASG
Second Queuing Prompt/Announcement Table No (PGM259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Second Queuing Repeat Count	Determines queuing repeat number.	000-100	3
Second Queuing Repeat Delay Timer	Determines the pause timer before queuing repeat.	000-100 (seconds)	0
Second CCR during First Queuing Announcement	This entry defines CCR option during queuing announcement is provided. If Queuing Tone type is Announcement, CCR is operated according to CCR Table Index of Announcement Table(PGM 259).	0-1	0
Second MOH for Prompt/Announcement Pause	This entry defines MOH option during queuing annc. Pause time.	1. OFF 2. INT MOH 3. EXT MOH 4. VMIB MOH1 5. VMIB MOH2 6. VMIB MOH3 7. VMIB MOH4 (MG300 Only) 8. SLT MOH1 9. SLT MOH2 10. SLT MOH3 11. SLT MOH4 12. SLT MOH5	OFF
Call In Greeting	Determines if a call is routed to destination during greeting, tone is played.	0. After Greeting 1. In Greeting	After Greeting
Max. Queue Count	Determines queue count.	00~99	00

Table 1.5.6.2-1 STATION GROUP ATTRIBUTES

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Forward Type	Determines forward type. 0. Not used 1. Unconditional: a call is routed to a forward destination unconditionally. 2. Queuing overflow: a call is routed to a forward destination when a queue is overflow. 3. Tmeout: a call is routed to a forward destination when a timeout timer is expired. 4. All: a call is routed to a forward destination when a queue is overflow or Timeout timer is expired.	0. NOT USED 1. UNCOND 2. Q Overflow 3. Time out 4. All	NOT USED
Apply Time Type	Determines a time to apply forward type.	0. ALL 1. DAY 2. NIGHT 3. TIMED	ALL
Forward Destination	Determines a forward destination (trunk access code should be included).	Max. 16 digits	None
Wrap-Up Timer	Determines wrap up timer; a member is available when this timer is expired after a member goes to idle.	000-600	010
Member No-Answer Timer	Determines no answer timer; if this timer is expired, a call is routed to the next member.	05-60 (seconds)	15
Ring No-Answer Forward Timer	This entry defines ring no answer timer. If this timer is expired, a call is routed to the forward destination according to forward type.	0-180 (seconds)	0
Provide Announcement with Answer	This entry defines if system answer the call when a greeting or queuing announcement is provided.	0: with answer 1: w/o answer	with answer

1.5.6.3 Voice Mail Group Attributes – PGM Code 203

Selecting Voice Mail Group Attributes will display the page shown. Enter the Voice Mail Group number and click **[Load]**, the Web page for the selected group will be displayed, Figure 1.5.6.3-1.
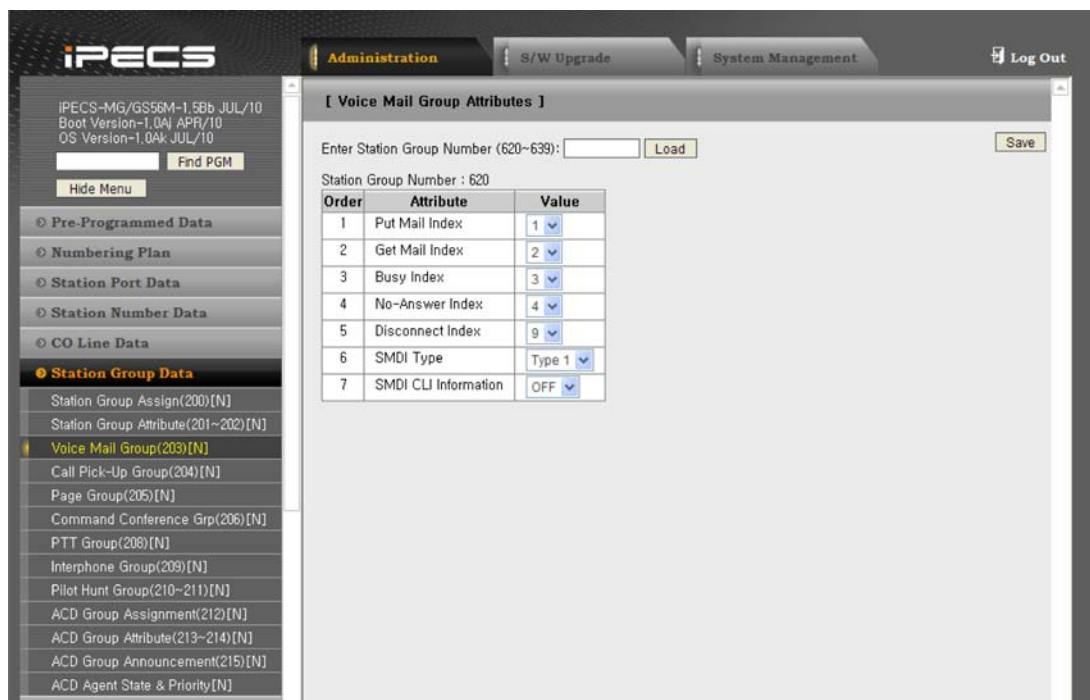

Figure 1.5.6.3-1 Voice Mail Group Attributes

Voice Mail group has available attributes relating to the dialing service such as put mail, get mail, etc., as described in the following Table 1.5.6.3-1.

Table 1.5.6.3-1 VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Put Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Put Mail" dial code.	1-9	1
Get Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Get Mail" dial code.	1-9	2
Busy Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Busy" dial code.	1-9	3
No-Answer Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, which contains the "No answer" dial code.	1-9	4
Disconnect Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Disconnect" dial code.	1-9	9
SMDI Type	This entry defines SMDI Type for external voice mail device.	0. Type1 1. Type2	Type1
SMDI CLI Information	This entry defines SMDI CLI Information. If set to enable, the system will send SMDI with CLI.	ON/OFF	OFF

1.5.6.4 Pick Up Group – PGM Code 204

Selecting Pick Up Group will display the page shown, Figure 1.5.6.4-1.

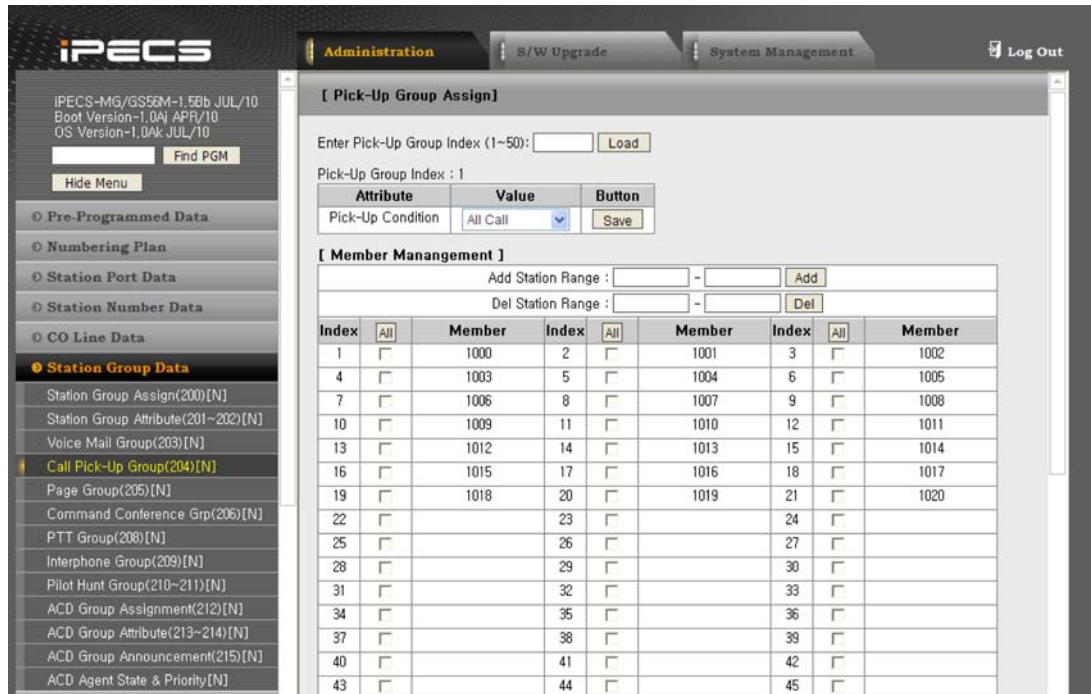Enter the desired Pick Up Group number and click **[Load]** to display the group member Assignment.

Figure 1.5.6.4-1 Pick-Up Group Assignment

Firstly, determine Pick-up Condition, and manage members of Pick-Up Group. How to manage members is the same as the way of Station Group Assignment (PGM 200).

Table 1.5.6.4-1 PICKUP GROUP ASSIGNMENT

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Pick-Up Condition	Determines pick up condition. (All/Internal/External)	All Call Intercom Call External Call	All Call
Member	Assigns stations as members of a station pickup group.		-

The Station Pick up Group capacities for the iPECS-MG system is described in Table 1.5.6.4-2.

Table 1.5.6.4-2 STATION PICK-UP GROUP CAPACITY

ITEM	CAPACITY	
	iPECS-MG 100	**iPECS-MG 300**
Number of Groups	20	50
Member in a Group	100	100

1.5.6.5 Page Group – PGM Code 205

Selecting Page Group Assignment will display the page shown, Figure 1.5.6.5-1. Enter the desired Page Group number and click **[Load]** to display the Group Assignment.
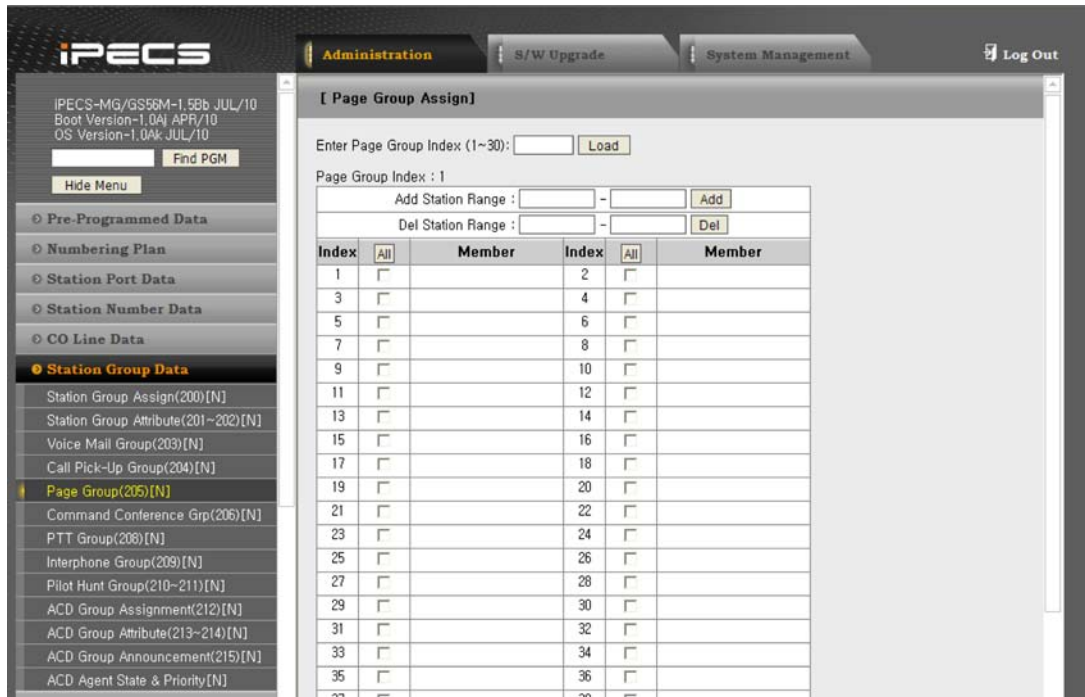

Figure 1.5.6.5-1 Page Group Assignment

Table 1.5.6.5-1 PAGE GROUP ATTRIBUTES

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Member	Assigns stations as members of a page group.		-

The Page Group capacities for the iPECS-MG system are shown in Table 1.5.6.5-2.

Table 1.5.6.5-2 PAGE GROUP CAPACITY

ITEM	CAPACITY	
	iPECS-MG 100	**iPECS-MG 300**
Number of Page Groups	15	30
Member in a Group	50	50

1.5.6.6 Command Conference Group – PGM Code 206

Selecting Command Conference Group will display the page shown, Figure 1.5.6.6-1.

1. Enter the desired Command Conference Group number.
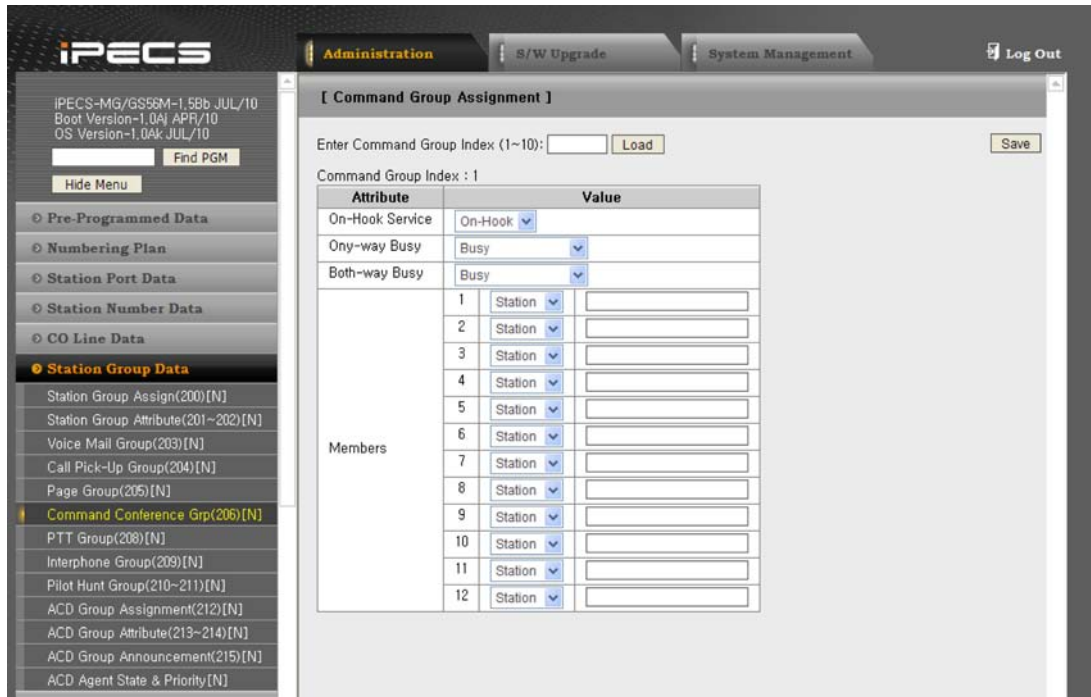2. Click **[Load]** to display the Group Assignment, Attributes.

Figure 1.5.6.6-1 Command Conference Group Assignment

A user can make command call with **{command group call (Page)}** feature code, **{Command group call (conference)}** feature code.

Stations and external telephone number can be arranged in groups so that a user may create a conference with all members of the group with a single call. Member assignment is only available from within Web Admin.

Table 1.5.6.6-1 COMMAND CALL GROUP ASSIGNMENT

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
On-Hook Service	Determines On Hook Service. 0. On Hook: When a user goes on hook, system allows ON HOOK service. 1. Recall: When a user goes on hook, system provides RECALL.	0. ON HOOK 1. RECALL	ON HOOK
One-Way Busy	Determines ONE WAY BUSY service. 0. BUSY : the call for busy station can be cannceled 1. Request Queuing : the call can be queued in busy station 2. Recover Call : the call can be override after the existing call is disconnected.	0. BUSY 1. REQEST QUEUING 2. RECOVER CALL	BUSY
Both-Way Busy	Determines BOTH WAY BUSY. 0. BUSY : the call for busy station can be canceled 1. Request Queuing : the call can be queued in busy station 2. Recover Call: the call can be override after the existing call is disconnected.	0. BUSY 1. REQEST QUEUING 2. RECOVER CALL	BUSY
Member	Determines member of group. Station: Station Number CO Grp: CO Grp Access code and Tel Number		

The Command Conference Group capacities for the iPECS-MG system are shown in Table 1.5.6.6-2.

Table 1.5.6.6-2 COMMAND CALL GROUP CAPACITY

ITEM	CAPACITY	
	iPECS-MG 100	**iPECS-MG 300**
Number of Groups	10	10
Member in a Group	12	12

1.5.6.7 PTT Group – PGM Code 208

Selecting PTT Group Assignment will display the page shown, Figure 1.5.6.7-1. Enter the desired PTT Group number and click **[Load]** to display the Group Assignment.
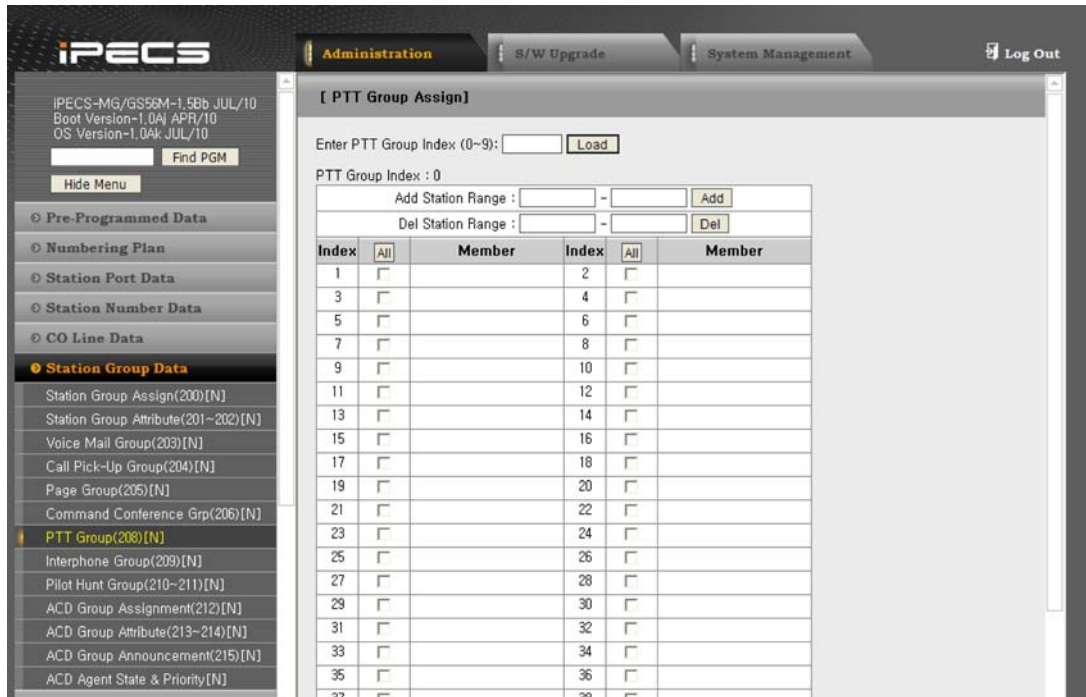

Figure 1.5.6.7-1 PTT Group Assignment

Each Phone can be assigned as a member of one or more of the system Push-To-Talk groups. a member can page to PTT group by using PTT button after the member logged in.

The PTT Group capacities for the iPECS-MG system are shown in Table 1.5.6.7-2.

Table 1.5.6.7-1 PTT GROUP ATTRIBUTES

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Member	This entry assigns stations as members of a PTT group.		-

The PTT Group capacities for the iPECS-MG system are shown in Table 1.5.6.7-2 as below.

Table 1.5.6.7-2 PTT GROUP CAPACITY

ITEM	CAPACITY	
	iPECS-MG 100	**iPECS-MG 300**
Number of PTT Groups	10	10
Member in a Group	50	50

1.5.6.8 Interphone Group – PGM Code 209

Selecting Interphone Group Assignment will display the page shown, Figure 1.5.6.8-1. Enter the desired Interphone Group number and click **[Load]** to display the Group Assignment.
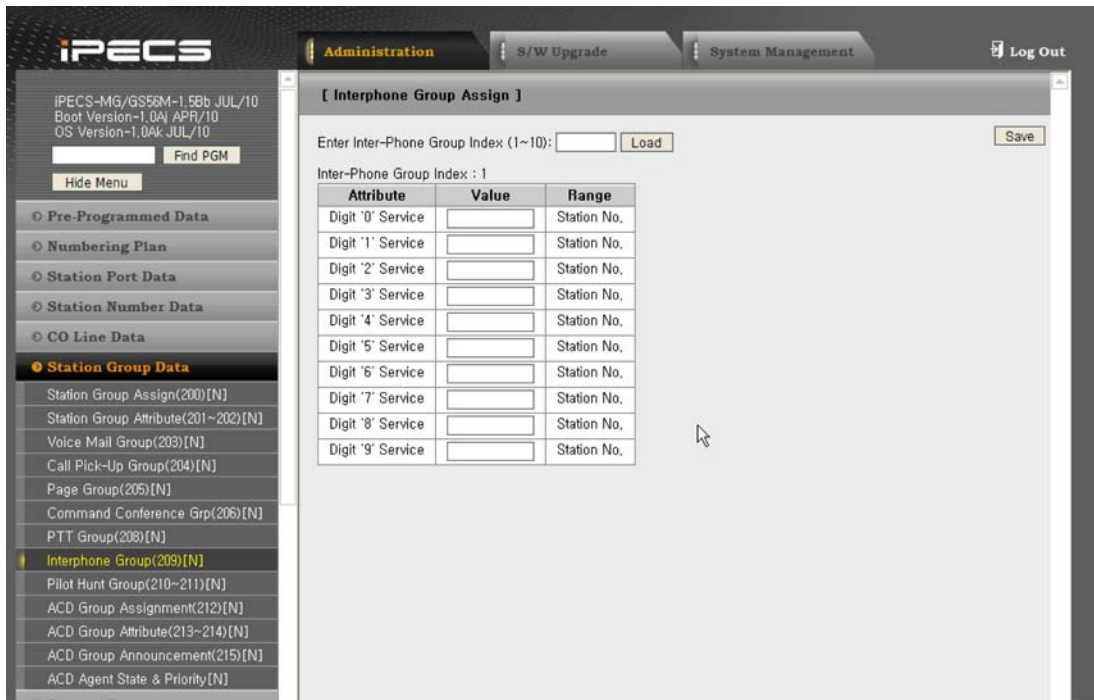

Figure 1.5.6.8-1 Interphone Group Digit Destination

To call the stations using one digits, some stations can be gathered into an 'Interphone Group' (refer to Table 1.5.6.8-1).

Table 1.5.6.8-1 INTERPHONE GROUP DIGIT DESTINATION

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Digit '0' Service	Determines the digit '0' destination of Interphone group.	Station Number	-
Digit '1' Service	Determines the digit '1' destination of Interphone group.	Station Number	-
Digit '2' Service	Determines the digit '2' destination of Interphone group.	Station Number	-
Digit '3' Service	Determines the digit '3' destination of Interphone group.	Station Number	-
Digit '4' Service	Determines the digit '4' destination of Interphone group.	Station Number	-
Digit '5' Service	Determines the digit '5' destination of Interphone group.	Station Number	-
Digit '6' Service	Determines the digit '6' destination of Interphone group.	Station Number	-
Digit '7' Service	Determines the digit '7' destination of Interphone group.	Station Number	-
Digit '8' Service	Determines the digit '8' destination of Interphone group.	Station Number	-
Digit '9' Service	Determines the digit '9' destination of Interphone group.	Station Number	-

The Interphone Group capacities for the iPECS-MG system are shown in Table 1.5.6.8-2.

Table 1.5.6.8-2 INTERPHONE GROUP CAPACITY

ITEM	CAPACITY	
	iPECS-MG 100	iPECS-MG 300
Number of Groups	10	10
Member in a Group	10	10

1.5.6.9 Pilot Hunt Group – PGM Codes 210–211

Selecting Pilot Hunt Group Assignment will display the page shown, Figure 1.5.6.9-1. Enter the desired Pilot Hunt Group number and click **[Load]** to display the Group Assignment.
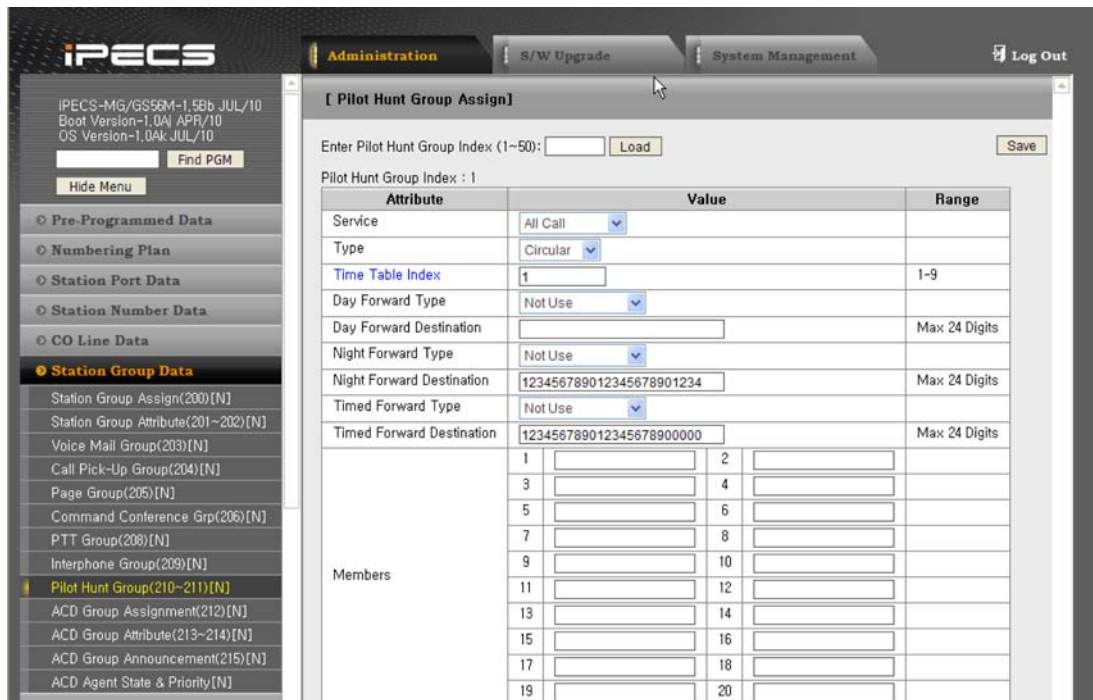

Figure 1.5.6.9-1 Pilot Hunt Group Attributes

A Station can be grouped for Pilot Hunt Feature.

Users may select incoming calls in the group to re-route to other stations (local or networked), station groups, the VMIB according to ring mode (Day/Night/Timed).

A member of the Pilot Hunt Group may have Pilot Hunt Ring Access authority set for call coverage on another member Station in a group.

Table 1.5.6.9-1 PILOT HUNT GROUP ATTRIBUTES

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Service	ALL call : Intercom and External call will be served for Pilot Hunt Feature. Intercom call: Only Intercom call will be served. External call: Only External call will be served.	0. ALL call 1. Intercom call 2. External call	ALL call
Type	Terminal: The call will proceed to the next listed station in the group until reaching the last listed station. Circular: The call will be directed to the next station defined in the group. The call will continue to hunt until each station in the group has been tried.	0. Terminal 1. Circular	Circular
Time Table Index	Time Table index	1-9	1

Table 1.5.6.9-1 PILOT HUNT GROUP ATTRIBUTES

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Day Forward Type	Determines call forward type during Day mode.	0. Not Use 1. Unconditional 2. Busy 3. No Answer 4. Busy/No Answer	Not Use
Day Forward Destination	Determines the forward destination during Day mode.	Max. 24 digits	
Night Forward Type	Determines call forward type during Night Mode.	0. Not Use 1. Unconditional 2. Busy 3. No Answer 4. Busy/No Answer	Not Use
Night Forward Destination	Determines the forward destination during Night mode.	Max. 24 digits	
Timed Forward Type	Determines the timed call forward type during Timed mode.	0. Not Use 1. Unconditional 2. Busy 3. No Answer 4. Busy/No Answer	Not Use
Timed Forward Destination	Determines the timed forward destination during Timed mode.	Max. 24 digits	
Members	Assigns stations as members of a pilot hunt group.		

The Pilot Hunt Group capacities for the iPECS-MG system are shown in Table 1.5.6.9-2 as shown.

Table 1.5.6.9-2 PILOT HUNT GROUP CAPACITY

ITEM	CAPACITY	
	iPECS-MG 100	iPECS-MG 300
Number of Groups	20	50
Member in a Group	20	20

1.5.6.10 ACD Group Assignment – PGM Code 212

Selecting ACD Group Assignment will display the page shown, Figure 1.5.6.10-1. Enter the desired ACD Group Number and click **[Load]** to display the ACD Group Assignment data.
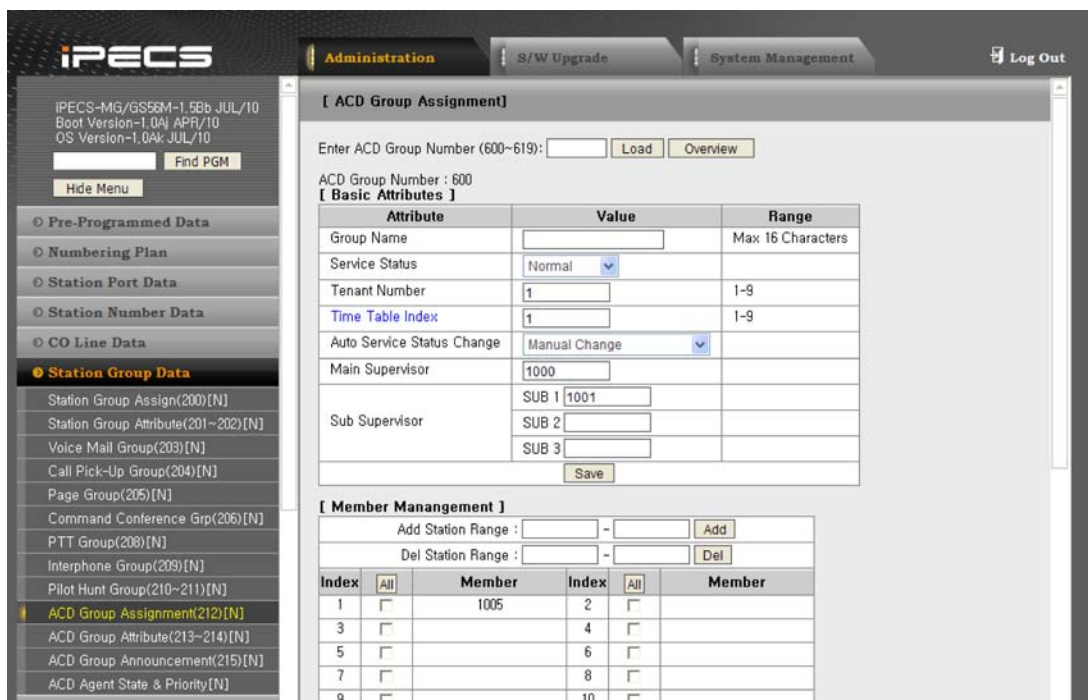

Figure 1.5.6.10-1 ACD Group Attributes

The ACD Group capacities for the iPECS-MG system are shown in the following table.

Table 1.5.6.10-1 ACD Group Capacity

Items	iPECS-MG 100	iPECS-MG 300
Number of ACD Group	20	50
Number of Supervisor	1	1
Number of Sub-Supervisor	3	3
Number of Agents	50	50
Max. Queue Count	99	99
Max. Steps for Queue Announcement	5	5
ACD Agent Priority	20 (1 ~ 20)	20 (1 ~ 20)

The page consists of 2 menus – [Basic Attributes] & [Member Management]:

- [Basic Attributes] menu – 'group name', 'service status', 'tenant number', 'time table index', 'auto service status change', 'main supervisor' and 'sub supervisor' are assigned to the ACD Group.
- [Member Management] menu – members of the ACD group are managed. Adding members to the ACD Group or deleting members from the ACD Group is possible.

To add members to the ACD Group:

1. Input the desired Station range to add.
2. Click **[Add]** button.

To delete members from the ACD Group:

1. Input the desired Station range to delete.
2. Click **[Del]** button or check the checkbox of members to be deleted.
3. Click the **[Delete Checked Member]** button.

Table 1.5.6.10-2 ACD GROUP ASSIGNMENT

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Group Name	Determines the name of group.	Max. 16 characters	-
Service Status	Group Status	0. Not-Service 1. Normal 2. Forward 3. Night 4. Holiday	Not-Service
Tenant Number	Assigns a tenant of station group.	1-9 (MG-300) 1-5 (MG-100)	1
Time Table Index	Time table index	1-9	1
Auto Service Status Change	Group Status change option for Automatically change with time table or Manually by Supervisor.	0. Manual Change 1. Night Auto Change 2. Holiday Auto Change 3. Night / Holiday Auto Change	Manual Change
Main Supervisor	Main Supervisor in a ACD Group		
Sub Supervisor	3 Sub-Supervisor in a ACD Group	Sub1 Sub2 Sub3	
Member	Assigns stations as members of a ACD group.		-

1.5.6.11 ACD Group Attributes – PGM Codes 213–214

Selecting ACD Group Attributes will display the page shown, Figure 1.5.6.11-1. Enter the desired ACD Group Number and click **[Load]** to display the ACD Group Attributes data.
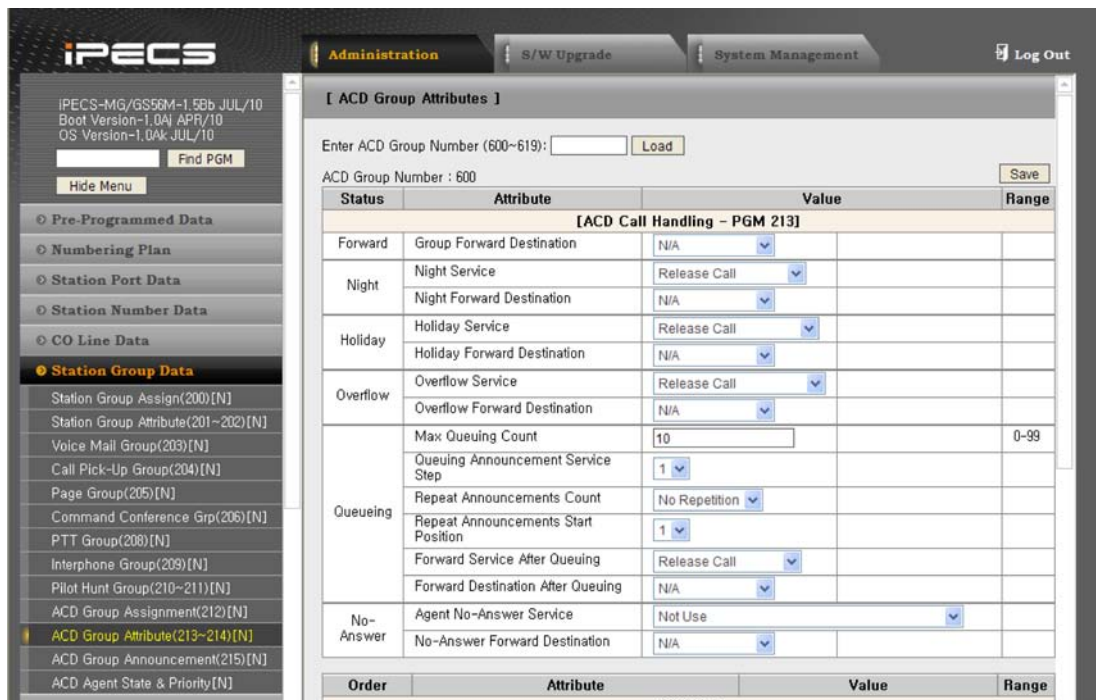

Figure 1.5.6.11-1 ACD Group Attributes

Table 1.5.6.11-1 ACD GROUP ATTRIBUTES (ACD Call Handling – PGM 213)

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Group Forward Destination	When ACD Group status is Group Forward Status, all of ACD call will be forwarded to this entry assigned destination.		
Night Service	This entry defines how to reroute ACD call when group status is Night Status.	0: Release Call 1: Night Announcement. 2: Forward Destination	Release Call
Night ForwardDestination	This entry defines the forward destination for night mode. When Night Service type is Forward Destination,this destination will be applied.		
Holiday Service	This entry defines how to reroute ACD call when group status is Holiday Status.	0: Release Call 1: Holiday Announcement. 2 Forward Destination	Release Call
Holiday ForwardDestination	This entry defines the forward destination for holiday mode. When Holiday Service type is Forward Destination, this destination will be applied.		
Overflow Service	This entry defines how to reroute ACD call when group status is Overflow.	0: Release Call 1: Overflow Announcement.	Release Call

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
		2: Forward Destination	
Overflow Forward Destination	This entry defines the forward destination for overflow service. When Overflow Service type is Forward Destination, this destination will be applied.		

Table 1.5.6.11-1 ACD GROUP ATTRIBUTES (ACD Call Handling – PGM 213)

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
MAX Queuing Count	This entry defines Max. queuing call count. If queued ACD Call count is overthis count, ACD group status will be changed to Overflow Status.	00-99	10
Queuing Announcement Service Step	This entry defines queuing announcement play service step. One ACD Group can have max. 5 announcements for queuing ACD Call.	1 – 5	1
Repeat Announcement Count	This entry defines total queuing announcement repeat service count. If this entry is defines as ThreeTimes, Queuing Announcements will be played three times from 1st to defined Step. And then from Repeat Position Queuing Announcements will be restarted from Repeat Position to defined step until Repeat Count.	0: No Repeat 1: One Time 2: Three Times 3: Five Times 4: Ten Times 5: Twenty Times	No Repeat
Repeat Announcement Start Position	This entry defines Repeat Announcement Start Position.	1 – 5	1
Forward Service After Queuing	This entry defines reroute usagewhen all queuing announcements are over.	0: Release Call 1: Forward Destination	Release Call
Forward Destination After Queuing	This entry defines the forward destination when all queuing announcements are over.	0: N/A 1: Station Number 2: Station Group 3: ACD Group 4: Digits	N/A
Agent No-Answer Service	This entry defineswhat to do when an ACD agent does not answer an ACD call. 1. Not use 2. Forward Call to No-Answer Forward Destination: call will be forwarded to defined destination. 3. Agent DND State Change: Agent state will be changed automatically to DND state. 4. Agent DND State Change & Forward Call: Agent state will be changed to DND state, and ACD call will be forwarded to defined destination.	1. Not use 2. Forward Call to No-Answer Forward Destination 3. Agent DND State Change 4. Agent DND State Change & Forward Call	Not use
No-Answer Forward Destination	When Agent No-Answer Service option is Forward Call to No-Answer Forward Destination, this destination will be applied.	1. N/A 2. Station Number 3. Station Group 4. ACD Group 5. Digits	N/A

Table 1.5.6.11-2 ACD GROUP ATTRIBUTES (PGM 214)

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Password Check When Service Mode Changed	This entry defines whether to check the supervisor password when supervisor change group status.	1: On 0: Off	Off
Agent-Agent Call Restriction	This entry defines agent to agent call restriction.	0: Allow 1: Direct call 2: Forward call	Allow
Agent Work Mode Expired Time	This entry defines wrap up timer of Agent Work State.	001-240	60
Agent Auto Work Mode	This entry defines when change the agent work state. (It is applied, when only agent has auto-work option) 1 CALL: after conversation, agent state will be changed to work state. 2 CALL, RING: after conversation or after ringing, agent state will be changed to work state. 3 CALL, OG: after conversation or after make outgoing call, agent state will be changed to work state. 4 CALL, RING, OG: after conversation or after ringing or after make outgoing call, agent state will be changed to work state.	0: Call 1: Call, Ring 2: Call OG 3: Call, Ring. OG	Call
Announcement Usage when Incoming CO Call	This entry defines usage of Announcement when agent answer incoming ACD Call.	1: On 0: Off	Off
Queuing Count Display	This entry defines display of Queuing count of ACD call.	1: On 0: Off	Off
Queue Count Display Interval	This entry defines display interval seconds of Queuing count of ACD call.	0: Real Time 1: 10sec 2: 20sec 3: 30sec 4: 40sec 5: 50sec 6: 60sec	Real Time
Password Check when Agent Log-In	This entry defines whether to check the password when agent log-in.	1: On 0: Off	Off
Agent State when Agent Log-In	This entry defines the default Agent State option when agent log-in.	0: Ready state 1: DND state 2: Work state	Ready state
Auto Answer Use when Agent Log-In	This entry defines usage of Agent Auto Answer option when agent log-in.	1: On 0: Off	Off
Auto Work-Mode Use when Agent Log-In	This entry defines usage of Agent Auto Work option when agent log-in.	1: On 0: Off	Off
Handset Mode when Agent Log-In	This entry defines usage of Agent Headset option when agent log-in.	0: Headset mode 1: Handset Mode 2: Ear-Mic Mode 3: Bluetooth mode	Headset mode

Table 1.5.6.11-2 ACD GROUP ATTRIBUTES (PGM 214)

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Handset Mode when Agent Log-Out	This entry defines usage of Agent Headset option when agent log-out.	0: Handset mode 1: Headset Mode 2: Ear-Mic Mode 3: Bluetooth mode 4: N0 Changel	Handset Mode
Call Restriction when Agent Log-Out	This entry defines restriction of Logout State Agent.	0: Not use 1: CO outgoing 2: All call	Not use
Answer Time when Incoming CO Call	This entry defines when to connect to incoming CO call after it is queued. If this value is 'When Queued to ACD group', incoming call is connected as soon as it is queued to ACD group. And ACD group announcement can be provided. If this value is 'When Agent Answers', incoming call is not connected until an agent answers the call.	0: When Queued to ACD group 1: When Agent Answers	When Queued to ACD group
Information Data Print Usage	This entry defines usage of ACD Call Traffic Information data Print or Not. If this value is On, ACD Call Traffic data will be printed through the Call Information-Print Port in PGM 231.	1: On 0: Off	Off
Information Data Print Interval	This entry defines print interval seconds of Information Traffic data.	001-250	001 (10sec)
Information Data Clear After Print	If this value is ON, after print Information traffic data, previous data will be deleted	1: On 0: Off	Off

1.5.6.12 ACD Group Announcement – PGM Code 215

Selecting ACD Group Attributes will display the page shown, Figure 1.5.6.12-1. Enter the desired ACD Group Number and click **[Load]** to display the ACD Group Announcement data.
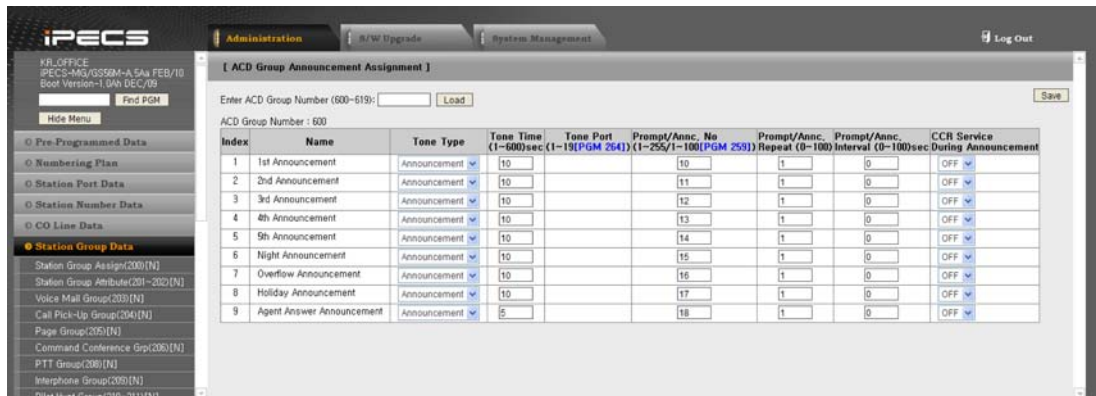
Figure 1.5.6.12-1 ACD Group Announcement

There 9 types Announcements are defined.

1. 1st Queuing Announcement
2. 2nd Queuing Announcement
3. 3rd Queuing Announcement
4. 4th Queuing Announcement
5. 5th Queuing Announcement
6. Night announcement
7. Holiday announcement
8. Overflow Announcement
9. Agent Answering Announcement.

Table 1.5.6.12-1 ACD GROUP Announcement (PGM 215)

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Tone Type	Designates the Tone type	01: Normal Tone 02: VMIB Prompt 03: VMIB Announcement 04: Internal MOH 05: External MOH 06-09: VMIB MOH 1/2/3/4 (MG 300) 10-14: SLT MOH 1-5	Normal Tone
Tone Time	Determines the amount of time tone is provided.	1-600	10
Tone Port	Tone port index of PGM 264. The cadence of tone port may be changed by using Web-Admin	1-19	
Prompt / Announcement NO.	The VMIB Prompt or Announcement number when tone type is VMIB Prompt or announcement.	1-255	
Prompt / Announcement Repeat during Tone Time	The VMIB Prompt or Announcement Repeat number when tone type is VMIB Prompt or announcement.	0-100	1
Prompt / Announcement Interval Time	The VMIB Prompt or Announcement Repeat interval when VMIB Prompt or announcement. Repeat is assigned.	0-100	0
CCR Usage	This option defines the usage of CCR feature during ACD group announcement.	1: On 0: Off	0:Off

1.5.6.13 ACD Agent State & Priority

Selecting ACD Agent State & Priority will display the page shown, Figure 1.5.6.13-1. This page displays the state and the priority of ACD agent.
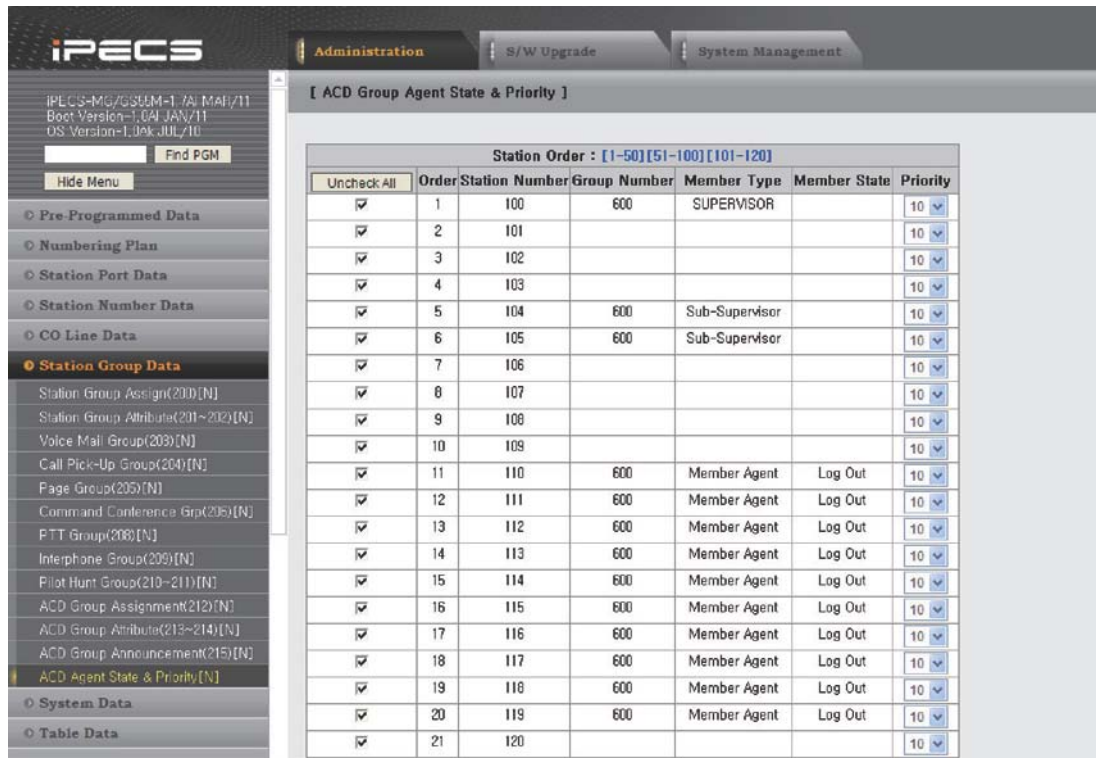
Figure 1.5.6.13-1 ACD Group Agent State & Priority

Table 1.5.6.13-1 ACD Group Agent State & priority

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Station Number			
Group Number	When a station belongs to an ACD group, The ACD group number will be displayed.		
Member Type	When a station belongs to an ACD group Its member type will be displayed.	Supervisor, Sub-supervisor, Member Agent	
Member State	When a station belongs to an ACD group, Log in/ Log-out state will be displayed.		
Priority	When station is member of ACD Group, this value will be used as the priority of agent.	1-20	1

1.5.7 System Data

Selecting the System Data program group returns the sub-menu displayed, Figure 1.5.7-1

Figure 1.5.7-1 System Data

1.5.7.1 System Timers I to III – PGM Codes 220–222

Selecting System Timer will display the page shown, Figure 1.5.7.1-1.

Figure 1.5.7.1-1 System Timers I to III

A number of timers can be assigned to control and affect various features and functions of the system. The following Tables describe the timers and any input required.

Table 1.5.7.1-1 System Timers

DISPLAY	DESCRIPTION	RANGE	DEFAULT
CO-to-CO Transfer Timer	Determines the waiting time for answer when the CO line is transferred to another CO line. If not answered within this time, the transferred CO call is routed to no-answer destination of incoming CO Alternative (PGM 169) or Outgoing CO Alternative (PGM 173).	000~300 (seconds)	030
HOT-DESK Logout Timer	Logged-in Hot-Desk agent will be logged out after this timer automatically.	0000–1440 (minutes)	00
ACNR Pause Timer	Determinesthe time between ACNR attempts.	005~300 (seconds)	030
PagingTimeout Timer	Determines the maximum duration of a page after which the caller and Page Zone are released.	000~300 (seconds)	15
Pause Timer	Determines the time for Pause which can be used in Speed Dial or other automatically dialed digits sent to the PSTN.	1~9 (seconds)	3
Voice Mail Pause Timer	When the system sends a "Pause" to Voice Mail using In-band signals, the Pause interval is defined by this timer.	1~9 (seconds)	3
VMIB-Message Minimum Record Timer	Sets the minimum duration allowed for a voice mail message in the system's VMIB. Messages shorter than this period are not stored.	1~9 (seconds)	4
VMIB-Message Maximum Record Timer	Sets the maximum duration allowed for a voice mail message in the system's VMIB. After this timer expires, the recording will be forced to stop automatically.	000~999 (seconds)	60
Call Wait Warning Timer	Determine the call-wait indication tone repeat time.	010~1800 (seconds)	030
Camp-On Warning Timer	Determine the camp-on indication tone repeat time.	010~1800 (seconds)	030
CCR Inter-Digit Timer	Inter-digit timer used with Customer Call Routing function. External user should dial a next digit within this timer. After this timer expires, CCR feature will be performed by analyzing input digits.	01~30 (seconds)	03
Web Password Guard Timer	Determine automatic log-out time for Web Admin. If no data packets are received within this time a password check will be initiated by the system.	001~999 (minutes)	5
UCS Status Check Timer	Determine the time of check period UCS status.	01-10 (seconds)	03
SLT Hook Switch Bounce Timer	Determines the amount of time the System considers an actual state change in the hook–switch and not a momentary contact bounce.	01~25 (100 msec.)	01
SLT Maximum Hook Flash Timer	Sets the maximum time an SLT user can depress the hook-switch for a Flash signal. If the hook-switch is pressed for more than this time, system will treat it as on-hook.	01~25 (100 msec.)	05
SLT Minimum Hook Flash Timer	Sets the minimum time an SLT user must depress the hook-switch for a Flash signal. If the hook-switch is pressed for more than this time and is released before SLT maximum hook flash timer, system will regard it as hook-flash.	000~250 (10 msec.)	020

Table 1.5.7.1-1 System Timers

DISPLAY	DESCRIPTION	RANGE	DEFAULT
LCO Ring On Timer	Sets the minimum 'ON' time to detect the incoming LCO ring from public exchange (PX). If the ring 'ON' signal is maintained for this time, System will detect it as an incoming LCO ring.	1~9 (100 msec.)	2
LCO Ring Off Timer	Sets the maximum 'OFF' time to detect the release of incoming LCO ring from public exchange (PX). If the ring 'OFF' signal is maintained for this time, System will detect it as a release of incoming LCO ring.	010~150 (100 msec)	060
LCO Release Guard Timer	When an analog CO Line is returned to idle, the system will deny access for this time to assure the PSTN returns the CO circuitry to idle.	001~150 (100 msec)	010
Door Open Timer	Sets the minimum contact closure time required to activate the contact assigned as a door open contact.	05~99 (100 msec.)	20
Message Wait Alert Tone Timer	A phone user will receive periodic reminder tones of a message waiting at intervals based on this timer.	00~60 (minutes)	00
Inter Digit Timer	Sets the maximum allowed time between user-dialed digits. At expiration, the user will receive an error-tone.	000~300 (seconds)	015
Incoming CO Inter Digit Timer	Sets the maximum allowed time between dialed digits from the Incoming CO.	01-60 (seconds)	15
Normal CO Ring No answer timer	No answer timer for Normal CO ring. If this timer expires, the incoming call will be served as no answer case.	001-600 (seconds)	30
DID/DISA No answer timer	No answer timer for DID/DISA CO ring. If this timer expires, the incoming DID call will be served as no answer case.	001-600 (seconds)	30
CO Recall Ring No answer timer	No answer timer for CO recall ring	001-600 (seconds)	30
CO Forward Ring No answer timer	No answer timer for CO Forward ring	001-600 (seconds)	30
CO Transfer Ring No answer timer	No answer timer for CO Transfer ring	001-600 (seconds)	30
R2 Forward Signal Detect Timer	For R2 incoming call, this R2 forward signal detect timer waits for receiving R2 forward signal. If this timer expires, R2 signaling is finished invalid.	1-254 (seconds)	14
Duplicated Digit Analysis Timer	Sets the duplication digit analysis timer. It allows duplicated numbering plan.	00-30 (seconds)	02

1.5.7.2 System Attributes – PGM Code 223

Selecting System Attributes will display the System Attributes data entry page,
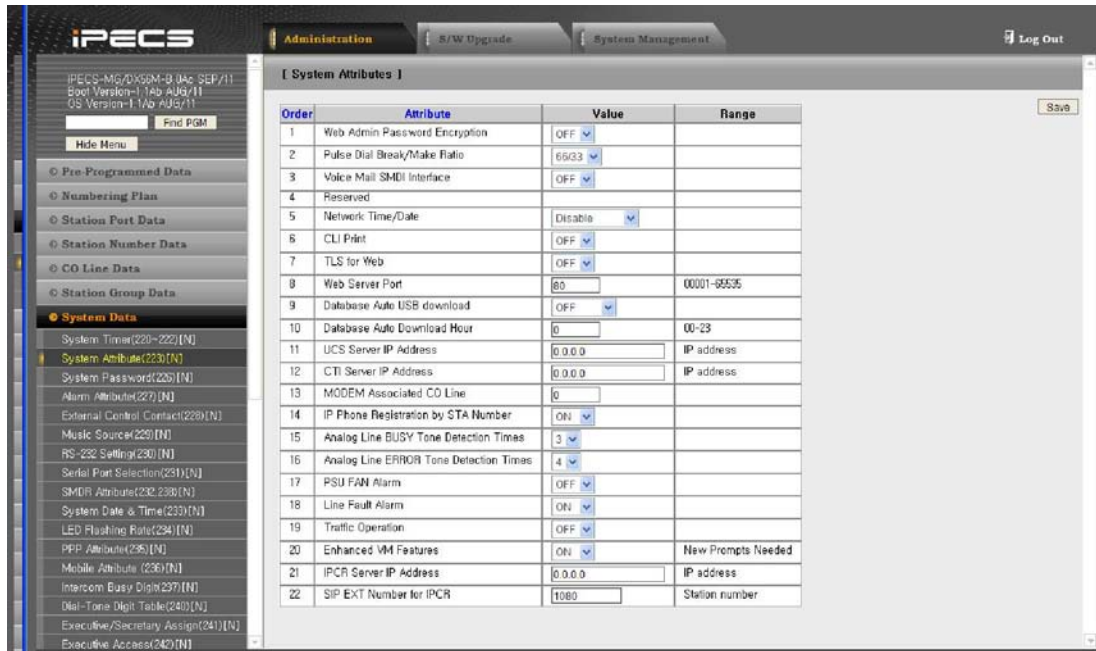
Figure 1.5.7.2-1.

Figure 1.5.7.2-1 System Attributes

System Attribute programs help 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 1.5.7.2-1 for a description of the Attributes, LCD displays and the data entries required.

Table 1.5.7.2-1 System Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Web Admin Password Encryption	The Web Admin password can be encrypted for security using RC-6 block encryption A Java VM must be installed on the user's PC.	0: OFF 1: ON	OFF
Pulse Dial Break/Make Ratio	The break/make ratio for pulse dialing (10pps) through analog CO line.	0: 60/40 1: 66/33 2: 50/50	1: 66/33
Voice Mail SMDI Interface	If it is set to ON, the system interfaces SMDI protocol with external Voice Mail, If 'OFF', system interfaces In-band message with external Voice Mail.	0: OFF 1: ON	OFF
VMIB SMTP Port	SMTP Port for VMIB message e-mail sending. When VMIB sends an e-mail to a user with new voice messages, this IP port number is used to connect to SMTP server.	0000-9999	0025
Network Time/Date	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. To disable time sync, use DISABLE.	0: DISABLE 1: ISDN CLOCK 2: NTP	DISABLE
CLI Print	If is set to; ON', CLI information is printed.	0: OFF 1: ON	OFF
TLS for Web	Enables Transport Layer Security (TLS) for Web access.	0: OFF 1: ON	OFF
Web Server Port	Web Server port number	1-65535	80
Database Auto USB download	Determines when system database downloads to USB automatically,	OFF 1:MON 2:TUE 3:WED 4:THU 5:FRI 6:SAT 7:SUN 8:Everyday	OFF
Database Auto Download Hour	The time for system database download to USB automatically.	00-23	00
UC Server IP Address	UC Server IP Address		
CTI Server IP Address	CTI Server IP Address		
MODEM Associated CO Line	MODEM Associated CO Line		0
IP Phone Registration by STA Number	Determines if IP phone can be registered only by station number or not.	0: OFF 1: ON	ON
Analog Line BUSY Tone Detection Times	It defines detection count for busy tone.	3-9	3
Analog Line Error Tone Detection Times	It defines detection count for error tone.	3-9	4

Table 1.5.7.2-1 System Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PSU FAN Alarm	If it is set to ON, system provides alarm ring when a FAN is broken.	0: OFF 1: ON	ON
Line Fault Alarm	If it is set to ON, system provides alarm ring when Line is fault.	0: OFF 1: ON	ON
Traffic Operation	If it is set to ON, system can save and print traffic information.	0: OFF 1: ON	OFF
Enhanced VM Features	Enables or disables the voice mail features that need the new prompt set from S/W version 1.6	0: OFF 1: ON	OFF
DB Protection Option	When DB is initialized, selected information is not initialized And also, this PGM is not initialized 0.OFF: All database is initialized 1. VM Database: the Database related to VM (VMIB) is not initialized. And VMIB does not clear physical user message.	0:OFF 1: VM Database	OFF
DB Protection Option	When DB is initialized, selected information is not initialized And also, this PGM is not initialized 0.OFF: All database is initialized 2. VM Info: the Database related to VM (VMIB) is not initialized. And VMIB does not clear physical user message.	0:OFF 1: VM DB	OFF
IPCR Server IP Address	The IP address of computer in which IPCR server application is installed.	0.0.0.0	
SIP EXT Number for IPCR	This SIP extension number is assigned to IPCR server.	SIP extension number	

1.5.7.3 System Authorization Code – PGM Code 225

System Authorization code table consists of 2000 entries and each entry consists of 8 fields: ID, Password, Day COS, Night COS, Timed COS, Digit Conversion Table, Tenant Number, CO Access.

By default, System Authorization Codes are not assigned at all

> **NOTE**
> There can be no duplicate ID.

Selecting System Authorization Code will display the System page shown, Figure 1.5.7.3-1.
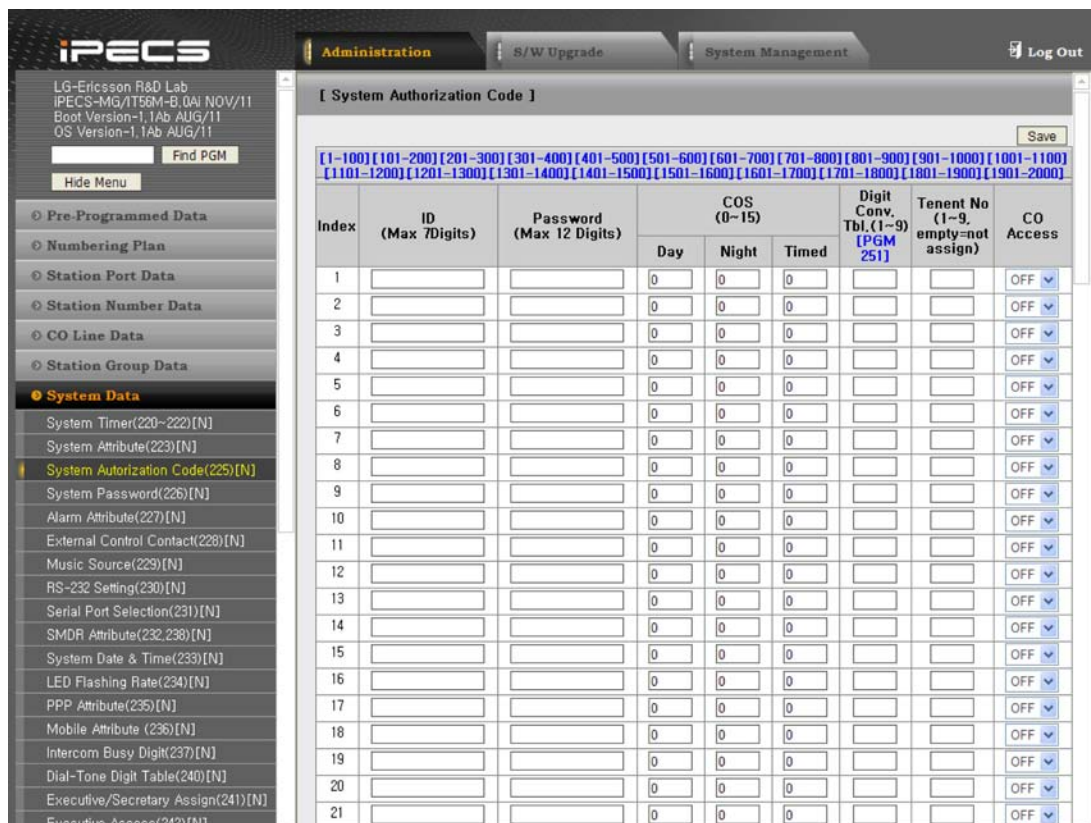
Figure 1.5.7.3-1 System Authorization Code

Table 1.5.7.3-1 System Authorization Code Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
ID	Defines the ID associated with the System Authorization code bin. *. This ID can be also printed for SMDR	Max. 7 digits	None
Password	Defines the Password associated with ID.	Max. 12 digits	None
Day COS	Defines Day COS associated with the System Authorization code	0-15	0
Night COS	Defines Night COS associated with the System Authorization code	0-15	0
Timed COS	Defines Timed COS associated with the System Authorization code	0-15	0

Table 1.5.7.3-1 System Authorization Code Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Digit Conversion Table	Defines Digit Conversion Table Index to use after authorization success. *. This can be supported when Dial Digit Process is type 1 (PGM281-3)	1-9, None	None
Tenant No	Defines Tenant number associated with the System Authorization code. If this is not assigned, this authorization code can be applied to all tenants.	1-9, None(MG-300) 1-5, None(MG-100)	None
CO Access	Defines CO Access associated with the System Authorization code. This is set to ON, this authorization code can be used for DISA CO Access.	ON/OFF	OFF

1.5.7.4 System Password – PGM Code 226

Selecting System Password will display the page shown, Figure 1.5.7.4-1.

Figure 1.5.7.4-1 System Password (Basic)

Figure 1.5.7.4-2 System Password (Additional)

Access to the system database and maintenance functions can be protected by ID(up to 16 digits) & passwords (up to 12 digits). Three basic sets of ID & password can be defined: User, Admin and Maintenance and four additional sets of ID & password can be defined: User2, User3, Admin2, Admin3.

Maintenance ID & password – has full and unlimited access to the database and maintenance functions of the system.

User and Admin ID & password – have access to database items defined in Web Admin.

NOTE
There are no default passwords.

Table 1.5.7.4-1 Password Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
User ID (2/3) & Password	Configurable database access in Web admin and cannot access Keyset admin.	ID: 16 PWD: 12	none
Admin ID (2/3) & Password	Configurable database access in Web Admin. Basic Admin Password can access Keyset Admin.	ID: 16 PWD: 12	none
Maint ID & Password	Full and unlimited access to database and maintenance functions.	ID: 16 PWD: 12	none

1.5.7.5 Alarm Attributes – PGM Code 227

Selecting Alarm Attributes will display the page shown, Figure 1.5.7.5-1.
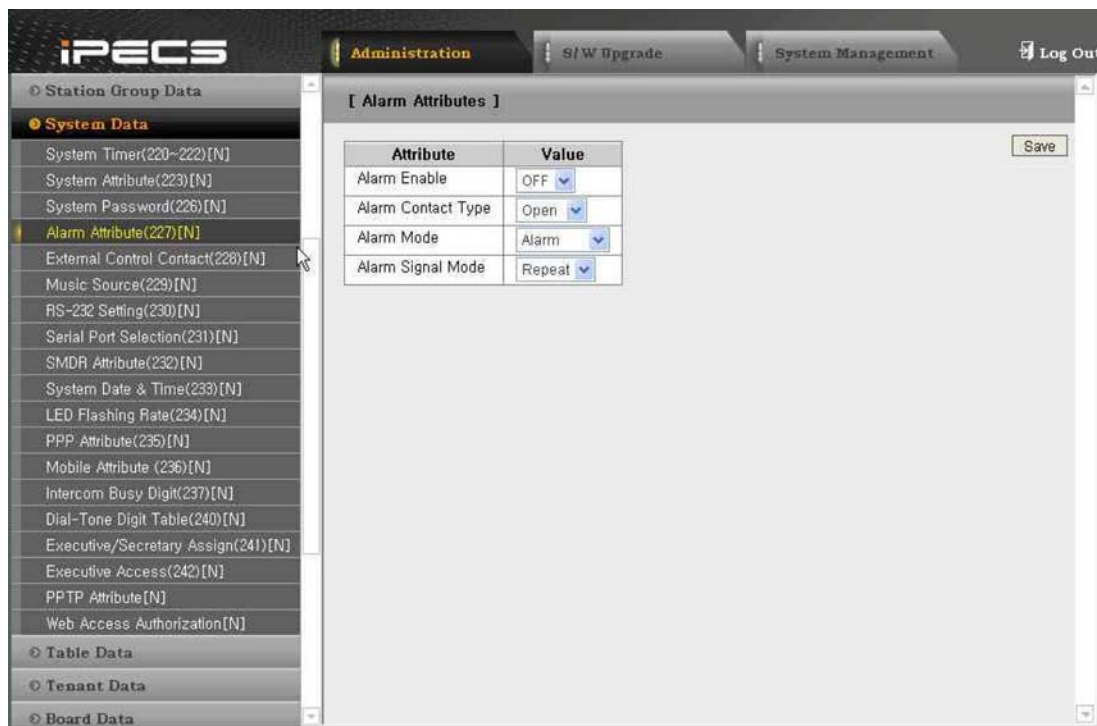
Figure 1.5.7.5-1 Alarm Attributes

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. 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. Table 1.5.7.5-1 a description of the features, the data entries required and LCD displays for each attribute.

Table 1.5.7.5-1 Alarm Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Alarm Enable	Enables the external contact monitoring circuitry.	0: OFF 1: ON	OFF
Alarm Contact Type	Establishes the contact state that will activate the Alarm, close or open.	0: Open 1: Close	Open
Alarm Mode	The contact can be treated to function as a doorbell instead of an alarm.	0: Door-Bell 1: Alarm	Alarm
Alarm Signal Mode	The assigned stations will receive an alarm tone Repeating signal or single burst (Once).	0: Once 1: Repeat	Repeat

1.5.7.6 External Control Contacts – PGM Code 228

Selecting External Control Contacts will display the page shown, Figure 1.5.7.6-1.

Figure 1.5.7.6-1 External Control Contacts

The MPB includes 1 contact, which can be used to control external devices. Contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station receives an external call.

> **NOTE**
> For LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UA calls and will ignore any station assignment. The contact may alternatively activate as a Door Lock Release contact, when the External Page Zone is accessed.

1.5.7.7 Music Sources – PGM Code 229

Selecting Music Sources will display the page shown, Figure 1.5.7.7-1.
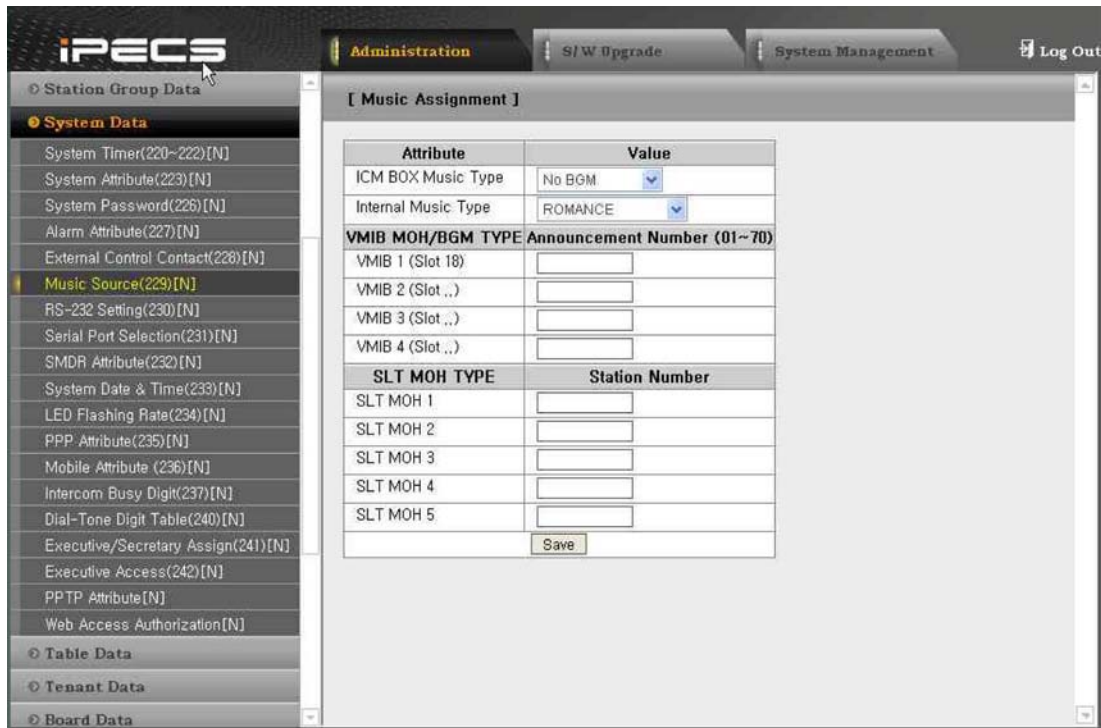
Figure 1.5.7.7-1 Music Sources

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. iPECS-MG MPB provides one (1) music input. Additionally, a VMIB announcement may be recorded and played as MOH, and the SLT port on SLIB is used as MOH.

Table 1.5.7.7-1 Music Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
ICM Box Music Type	Assigns the music source for ICM BOX.	00: NO BGM 01: Internal Music , 02: External Music 03: VMIB BGM 1 04: VMIB BGM 2 05: VMIB BGM 3 06: VMIB BGM 4 07: SLT MOH 1 08: SLT MOH 2 09: SLT MOH 3 10: SLT MOH 4 11: SLT MOH 5	NO BGM
Internal Music Type	Assigns the music for internal MOH.	00: Romance 01: Turkish March 02: Green Sleeves 03: Fur Elise 04: Carmen 05: Waltz 06: Pavane 07: Sichiliano 08: Sonata 09: Spring 10: Campanella 11: Badinerie 12: Blue Danube	
VMIB MOH/BGM Type	Assigns thesystem announcement to be used for VMIB MOH X.	01-70	
SL: T MOH Type	Assigns the SLT port for SLT MOH.		

1.5.7.8 RS-232 Port Settings – PGM Code 230

Selecting RS-232 Port Settings will display the page shown, Figure 1.5.7.8-1.
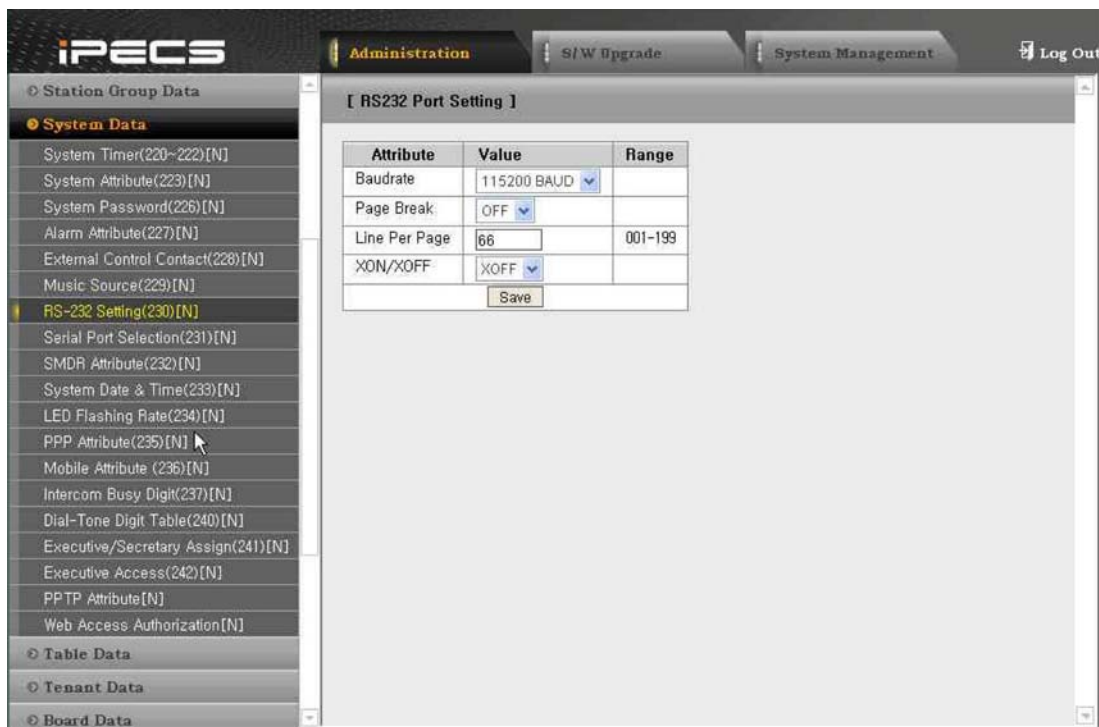
Figure 1.5.7.8-1 RS-232 Port Settings

The system has one RS-232 serial port located on the MPB. Certain port characteristics are programmable, such as the baud rate, RS-232 control, and page settings. Refer to the following Table for a description of the settings and the data entries required.

Table 1.5.7.8-1 RS-232 Port Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
Baudrate	Establishes the BAUD rate for the RS-232 serial port.	1: 9600 2: 19200 3: 38400 4: 57600 5: 115200	115200
Page Break	System can send this command over the serial port at the end of each page.	0: OFF 1: ON	OFF
Line Per Page	This entry is used to set the page length. The system will send the number of lines before sending the page break.	001-199	66
XON/XOFF	Enables XON/XOFF protocol.	0: XOFF 1: XON	XOFF

1.5.7.9 Serial Port Function Selections – PGM Code 231

Selecting Serial Port Function Selection will display the page shown, Figure 1.5.7.9-1.
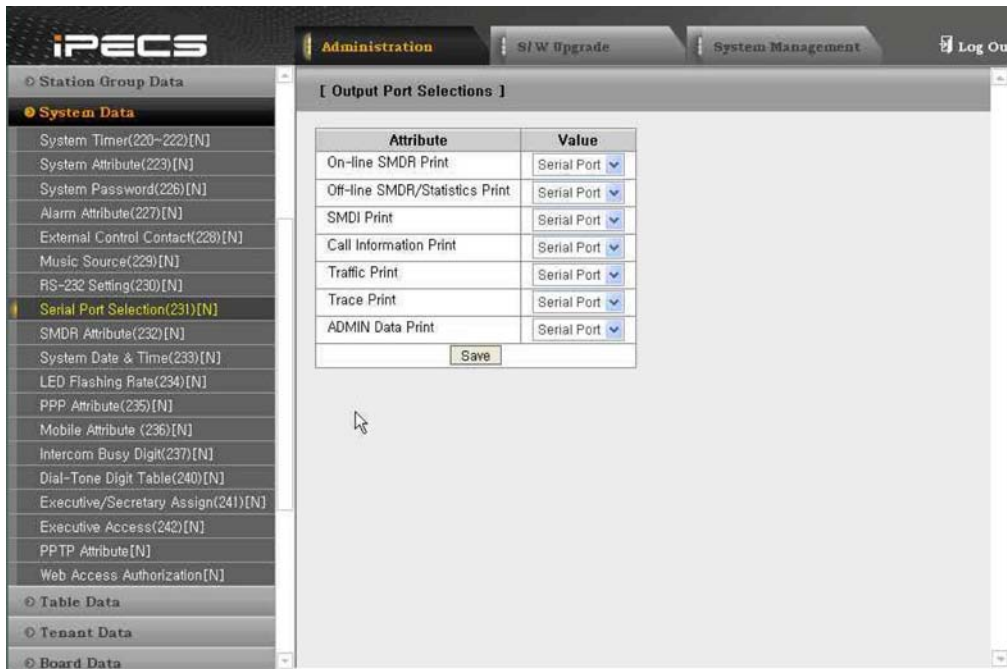
Figure 1.5.7.9-1 Serial Port Function Selections

The system has one RS 232 serial port located on the MPB. MODU (Modem Unit) can be installed on MPB as an optional board. Also, the system can employ IP over 5 TCP channels for the output of various system information.

Each output function is assigned a Serial port, MODU 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.

> **NOTE**
> Each function can be defined to use only one output. Refer to the following Table for a description of the selections and the data entries required.

Table 1.5.7.9-1 Serial Port Function Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
On-line SMDR Print	Defines the serial port or TCP channel used for the On-line SMDR.	0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5	COM
Off-line SMDR/Statistics Print	Defines the serial port or TCP channel used for Off-line SMDR.	0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5	COM
SMDI Print	Defines the serial port or TCP channel used for the SMDI output.	0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5	COM 1
Call Information Print	Defines the serial port or TCP channel used to receive Call Information output.	0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5	COM
Traffic Print	Defines the serial port or TCP channel used for the TRAFFIC report output.	0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5	COM
Trace Print	Defines the serial port or TCP channel used for the Trace output.	0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5	COM
ADMIN Data Print	Defines the serial port or TCP channel used for the ADMIN Report output.	0: COM 1: MODU 2: TCP 1 3: TCP 2 4: TCP 3 5: TCP 4 6: TCP 5	COM

1.5.7.10 SMDR Attributes – PGM Code 232, 238

Selecting SMDR Attributes will display the page shown, Figure 1.5.7.10-1.

Figure 1.5.7.10-1 SMDR Attributes

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 long distance (LD) only, call cost per pulse when using call metering, etc. Refer to the following Table for a description of each Attribute, LCD displays and the data entries required.

Table 1.5.7.10-1 SMDR Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
SMDR	On-Line service enables SMDR information to be printed out in real time. Off-Line service enables SMDR information to be recorded automatically and attendant or administrator can print out or delete it. SMDR Interface service can deliver SMDR information to external application. E-Mail service deliver SMDR information using e-mail at certain times. Combination of several services can be used.	0: Not Use 1: On-Line 2: Off-Line 3: On-Line/Off-Line 4: SMDR-Interface 5: SMDR E-Mail 6: Off-Line & E-Mail 7: On/Off-Line & E-Mail 8: Interface & E-Mail	Not Use
Outgoing Call Report	Outgoing Call Report Option for SMDR Service. If this option is set, outgoing call will be included at SMDR data	0: OFF 1: ON	OFF
Incoming Call Report	Incoming Call Report Option for SMDR Service. If this option is set, incoming call will be included at SMDR data	0: OFF 1: ON	OFF
Internal Call Report	Internal Call Report Option for SMDR Service. If this option is set, internal call will be included at SMDR data	0: OFF 1: ON	OFF
Outgoing / Incoming Lost Call Report	Outgoing or Incoming Lost Call Report Option for SMDR Service. If this option is set, CO lost call will be included at SMDR data	0: OFF 1: ON	OFF
Outgoing Call Record Type	Determines whether to record all outgoing calls or only Long Distance calls. Long distance calls can be identified by the 'Outgoing Call Long Distance digit count' or 'Long Call Prefix Code'.	1: Long Distance Call 0: ALL CALL	ALL CALL
Outgoing Call Long Distance Digit Counter	Dialed numbers, which exceed the assigned LD digit count, are considered as long distance calls for SMDR.	07-15	07
Hidden Digit Count	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. Below "Hidden Digit Position." Below defines whether leading or trailing digits are hidden. In addition, the station must be assigned for SMDR HIDE (PGM 131-FLEX7).	0~9	0
Hidden Digit Position	When "SMDR DIALED DIGIT HIDDEN" is enabled, this field determines if leading or trailing digits are hidden.	0: Left 1: Right	Right
Station Transfer Charge Rate	Determines where call is charged in the event of a transferred call. 1. Individual Charging: charged to both stations respectively. 2. Transferring Charging: charged to the transferring station. 3. Transferred Charging: charged to the transferred station.	0: Individual Charging 1: Transferring Charging 2: Transferred Charging	Individual Charging

Table 1.5.7.10-1 SMDR Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
Attendant Transfer Charge Rate	Determines where call is charged in the event of Attendant placing a call and transferring the call. 1. Individual Charging: charged to both stations respectively. 2. ATD Charging: charged to the Attendant. 3. Transferred Charging: charged to the transferred station.	0: Individual Charging 1: ATD Charging 2: Transferred Charging	Individual Charging
Second Information in Start Time	If this option set ON, second information is printed with call start time in SDMR. (MM/DD/YY HH/MM/SS)	0:OFF 1:ON	ON
Incoming Call Dialed Number Print Option	For incoming calls, the system will send the defined data item for "Dialed Number" field. The data item may be CLI, Dialed Number and with Ring Service Time. Note the User dialed number is always provided for an outgoing call. 1. CLI: If there are Incoming call CLI, always CLI will be printed, 2. Dialed Number: Dialed digit from external user will be printed. 3. CLI & Ring Time: CLI data and ringing time will be printed. 4. Dialed Number & Ring Time: Dialed digit from external user and ringing time will be printed.	0: CLI 1: DIALED NUM 2: CLI & RING 3: DIALED NUM & RING	CLI
Incoming Call 2nd Dialed Field Print Option	For incoming calls, additional dialed field is supported. The data item may be CLI, Dialed Number and with Ring Service Time. Note the User dialed number is always provided for an outgoing call. 1. NOT-USE 2. CLI: If there are Incoming call CLI, always CLI will be printed, 3. Dialed Number: Dialed digit from external user will be printed. 4. CLI & RING: CLI data and ringing time will be printed. 5. Dialed Number & RING: Dialed digit from external user and ringing time will be printed	0: Not-Use 1: CLI 2: DIALED NUM 3: CLI & RING 4: DIALED NUM & RING	Not-Use
Date Mode Print Option	Date mode print type option in SMDR data.	1:MMDDYY 0:DDMMYY	MMDDYY
Autho. Number Print as Calling Station	When user make outgoing call with authorization, authorization DN number can be printed as calling-station in SMDR data.	0: OFF 1: ON	OFF
Additional Information Filed Print	Additional information can be printed in SMDR data Information: 1. Authorization DN number 2. Physical Station number 3. Transfer Station number 4. Networking related number	0: OFF 1: ON	OFF

Table 1.5.7.10-1 SMDR Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
Cost Currency Unit	The unit of currency used for call cost can be identified with 3 alpha characters for easy reference.	Max 3 characters	-
Cost Per Metering Pulse	When metering is provided by the PSTN, the cost per metering pulse can be assigned.	6 digits	000000
Cost Fraction	Determines the position of the decimal in the Cost per Pulse, starting from the right-most digit.	0~5	0
Incoming Call Cost Per Minute	If CO line Metering Type is Time and incoming cal is set as report, this metering cost will be applied in every minute.	6 digits	000000
Normal Outgoing Call Cost Per Minute	If CO line Metering Type is Time and outgoing call is normal-outgoing, this metering cost will be applied in every minute. Normal-Outgoing call is not Local/Long/International call and not Mobile call.	6 digits	000000
Local Call Cost Per Minute	If CO line Metering Type is Time and outgoing call is local call, this metering cost will be applied in every minute	6 digits	000000
Long Call Cost Per Minute	If CO line Metering Type is Time and outgoing call is long call, this metering cost will be applied in every minute	6 digits	000000
International Call Cost Per Minute	If CO line Metering Type is Time and outgoing call is international call, this metering cost will be applied in every	6 digits	000000
Dedicated Line Call Cost Per Minute	If CO line Metering Type is Time and used CO line is dedicated line, this metering cost will be applied in every minute.	6 digits	000000
Mobile Call Cost Per Minute	If CO line Metering Type is Time and outgoing call is mobile call, this metering cost will be applied in every minute.	6 digits	000000
Attendant Warning Tone Service	If this option is enabled and SMDR service type is off-line, the system check free records space. And if free space is less than 1000, warning tone will be served as alarm to Attendant.	0:OFF 1:ON	OFF
SMDR Interface Connection Type	This assigns the port to be used for SMDR Interface (LAN or SIO)	0:SIO 1:LAN	SIO
SMDR Interface Option Length Type	It is SMDR Interface Option field data length option. Flexible Length or Fixed length type can be used for Option data.	0: Flexible Length 1: Fixed Length	Flexible Length
SMTP Mail Server Address	SMTP Mail Server Address		
SMTP Mail Server Port	SMTP Mail Server Port		
SMDR Reported Mail Address	Reported SMDR User Mail Address.	Max 64 Characters	
SMDR SMTP Mail Server ID	SMTP Mail Server User ID		

Table 1.5.7.10-1 SMDR Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
SMDR SMTP Mail Server Password	SMTP Mail Server User Password		
SMDR SMTP Sender Address	Sender Address of Reported SMDR E-Mail	Max 64 Characters	
SMDR Mail Send Weekly Set	Select SMDR Mail Send Day.	N/A (Monday ~ 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	00
SMDR Mail Auto Send Set	If the SMDR buffer is full, the system can automatically send a notification by e-mail.	0: OFF 1: ON	OFF
SMDR Mail Auto Delete Set	Deletes SMDR records after sending e-mail.	0: OFF 1: ON	OFF

1.5.7.11 System Date, Time – PGM Code 233

Selecting System Date, Time will display the page shown, Figure 1.5.7.11-1.
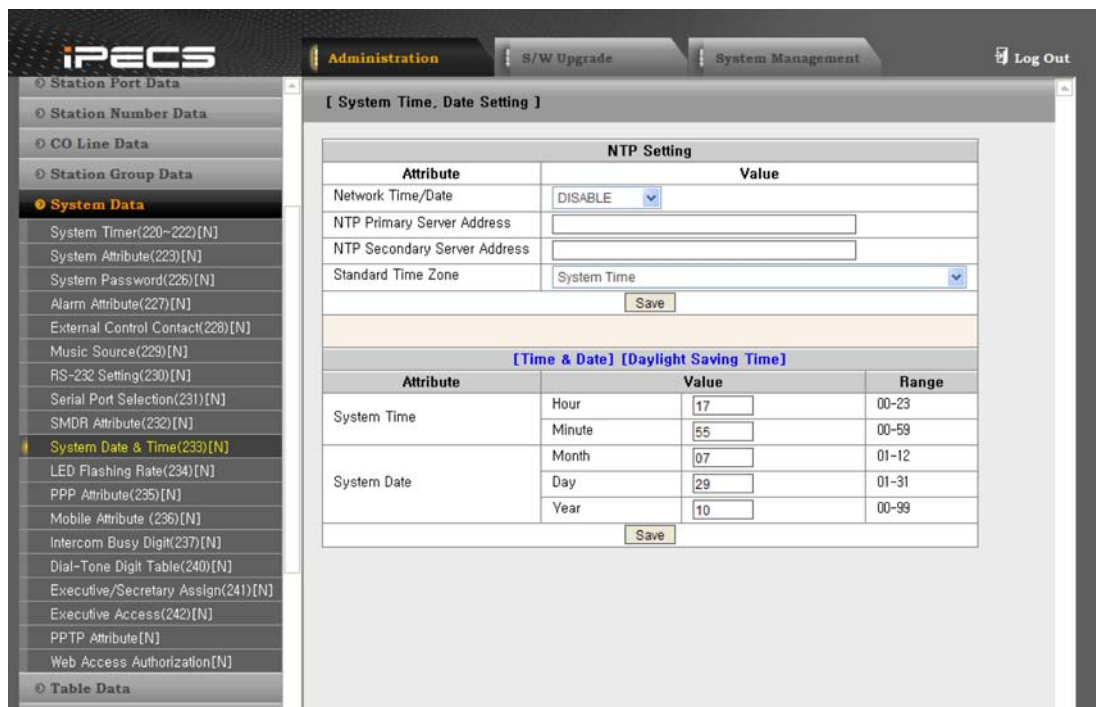
Figure 1.5.7.11-1 System Date, Time

The System Date, Time and NTP Attribute are established by this entry. The date and time are employed for several features and functions: LCR, LCD displays, SMDR outputs, Auto Ring Mode Selection, Wake-Up Alarm, etc. Network Time Protocol (NTP) can be employed 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.

Table 1.5.7.11-1 System Date, Time Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
Network Time/Date	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. To disable time sync, use DISABLE.	Disable ISDN Clock NTP	Disable
NTP Primary Server Address	When the system time synchronize with NTP server, this address is used for NTP server firstly.		
NTP Secondary Server Address	When the System time synchronize with NTP server and primary NTP server is not available, this address is used for NTP server secondly.		
Standard Time Zone			
System Time	Sets the system time.	HH: MM	
System Date	Sets the system date.	MMDDYY	
DST (Daylight Savings Time) Mode	Enables DST feature for System Time.	0: OFF 1: ON	OFF

Table 1.5.7.11-1 System Date, Time Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
DST Start Time	Set daylight saving start time.	Refer to DST Table	2nd Sunday of March at 2: 00 AM
DST End Time	Set daylight saving end time.	Refer to DST Table	1st Sunday in Nov. , at 2: 00 AM
System Date	Sets the system date.	MMDDYY	

1.5.7.12 Button LED Flash Rate – PGM Code 234

Selecting the Button LED Flash Rate will display the page shown, Figure 1.5.7.12-1.

Figure 1.5.7.12-1 Button LED Flash Rate

The LED Color and Flash Rate for various functions and states can be assigned. The various functions and states are shown in the following Table. The 3 colors available in the system are shown in the **[COLOR]** table and the 15 flash signals available in the system are shown in the **[FLASH RATE]** table.

Table 1.5.7.12-1 Button LED Flash Rate / Color Table

ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT (COLOR)	DEFAULT (FLASH RATE)
[CALLBK] INTERCOM	**[CALL BK]** button LED status on intercom call back.	RED	Flash 30 IPM
[CALL BK] CO LINE	**[CALL BK]** button LED status on CO queuing.	RED	Flash 120 IPM
[CALL BK] MSG WAIT	**[CALL BK]** button LED status when message is left.	RED	Flash 120 IPM
[MUTE] MUTE	**[MUTE]** button LED status when voice is muted.	RED	Flash Steady
[MUTE] COS CHANGE	**[MUTE]** button LED status when COS is downed.	RED	Flash 120 IPM
[DND] DND	**[DND]** button LED status in DND.	RED	Flash Steady
[DND] ONE-TIME	**[DND]** button LED status in one time DND.	RED	Flash 60 IPM
[DND] PRESELECT MSG	**[DND]** button LED status when station assigns preselected message.	RED	Flash 15 IPM
[CALL BK] ACNR	**[CALL BK]** button LED status when makes ACNR.	RED	Flash 480 IPM
[SPK] SPEAKER	**[SPEAKER]** button LED status in conversation through speaker.	RED	Flash Steady
[SPK] HEADSET	**[SPEAKER]** button LED status in conversation through headset.	RED	Flash Steady
[SPK] INCOMING CALL	**[SPEAKER]** button LED status when receiving intercom call.	RED	Flash 60 IPM
[HOLD] PAGED	**[HOLD]** button LED status in paging.	RED	Flash 60 IPM
[HOLD] VOICE OVER	**[HOLD]** button LED status in voice-over mode.	AMBER	Flash 60 IPM
[HOLD] ICM HOLD	**[HOLD]** button LED status when call is in intercom held state.	AMBER	Flash 60 IPM
[RING] ICM RING	**[RING]** LED status when receiving intercom call.	RED	Flash 60 IPM
[RING] CO RING	**[RING]** LED status when receiving CO incoming call.	RED	Flash 60 IPM
[RING] MSW WAIT	**[RING]** LED status when message is left	RED	Flash 60 IPM
[HEADSET] HEADSET	**[HEADSET]** LED status when headset is used (LIP-8000 Phone).	RED	Flash Steady
[HEADSET] BLUETOOTH	**[HEADSET]** LED status when Bluetooth is used (LIP-8000 Phone).	RED	Flash 60 IPM
[DN] I USE	**[DN]** button LED status when I use.	GREEN	Flash Steady
[DN] OTHER USE	**[DN]** button LED status when other station use.	RED	Flash Steady
[DN] DND	**[DN]** button LED status in DND.	RED	Flash Off
[DN] INCOMING CALL	**[DN]** button LED status when receiving intercom call.	GREEN	Flash 60 IPM
[DN] HOLD	**[DN]** button LED status in held.	AMBER	Flash 60 IPM

Table 1.5.7.12-1 Button LED Flash Rate Table

ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT (COLOR)	DEFAULT (FLASH RATE)
[DN] CALL FORWARD	**[DN]** button LED status when Call forward is set.	RED	FlashOff
[DN] I CONFERENCE	**[DN]** button LED status when I in conference.	GREEN	Flash Steady
[DN] OTHER CONFERENCE	**[DN]** button LED status when another station is in conference.	RED	Flash Steady
[DN] CONF SUPERVISOR	**[DN]** button LED status in conference supervisor.	AMBER	Flash 60 IPM
[DSS] INCOMING CALL	**[DSS]** button LED status when receiving incoming call.	RED	Flash 60 IPM
[DSS] BUSY	**[DSS]** button LED status during conversation.	RED	Flash Steady
[DSS] DND	**[DSS]** button LED status in DND.	RED	Flash Off
[DSS] CALL FORWARD	**[DSS]** button LED status when call forward is set.	RED	Flash Off
[DSS] HANDSET-LIFT	**[DSS]** button LED status when handset is lifted.	RED	Flash Off
[DSS] PRESELECTED MSG	**[DSS]** button LED status when preselected message is assigned.	RED	Flash Off
[DSS] HOLD	**[DSS]** button LED status on Hold.	RED	Flash Steady
[CO] Busy	**[CO]** button LED status when receiving an external call.	RED	Flash 60 IPM
[CO] Other Talk	**[CO]** button LED status during others' talk state.	RED	Flash Steady
[DN] VM Message Wait	**[DN]** button LED status when VM Message Wait is left.	AMBER	Flash 120 IPM
[DSS] VM Message Wait	**[DSS]** button LED status when VM Message Wait is left.	RED	Flash 120 IPM
[CO] Command Group Ring	**[CO]** button LED status during Command Group Ring.	RED	Flash 60 IPM
[CO] Command Group Talk	**[CO]** button LED status during Command Group Talk.	RED	Flash Steady
[CO] I Talk	**[CO]** button LED status during I Talk.	GREEN	Flash Steady
[CO] Hold	**[CO]** button LED status during Hold.	RED	Flash 60 IPM Wink
[CO] I HOLD	**[CO]** button LED status during I HOLD.	GREEN	Flash 60 IPM Wink
[CO] Recall	**[CO]** button LED status during Recall.	RED	Flash 480 IPM Flutter
[DSS] emergency Alert	[DSS] button LED status when receiving emergency alert.	RED	Flash 480 IPM Flutter
[DSS] Hotel VIP Wake Up	[DSS] button LED status when hotel VIP has wake-up alarm.	RED	Flash 240 IPM Flutter

Table 1.5.7.12-1 Button LED Flash Rate Table

ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT (COLOR)	DEFAULT (FLASH RATE)
[CLI] CLI (Incoming)	**[CLI]** button LED status for CLI incoming call		Flash: Steady Color: RED
[CLI] CLI (Outgoing)	**[CLI]** button LED status for CLI outgoing call		Flash: 60 IPM WINK Color: RED
[CLI] CLI (Talk)	**[CLI]** button LED status for CLI in talk status		Flash: Steady Color: RED

Table 1.5.7.12-2 Color Description

COLOR	DESCRIPTION
1	RED
2	GREEN
3	AMBER

NOTE
If Green/Amber color is not supported by digital phone, Red Color is applied.

Table 1.5.7.12-3 Flash Rate Description

FLASH RATE	DESCRIPTION
00	Flash OFF
01	Flash Steady
02	Flash 30 IPM
03	Flash 60 IPM
04	Flash 60 IPM Wink
05	Flash 240 IPM
06	Flash 240 IPM Flutter
07	Flash 480 IPM
08	Flash 480) IPM Flutter
09	Flash 15 IPM
10	Flash 120 IPM
11	Flash 120 IPM Flutter
12	Flash 30 IPM Wink
13	Flash 480 IPM Wink
14	Flash 480 IPM Double

1.5.7.13 PPP Attributes – PGM Code 235

Selecting PPP Attributes will display the page shown, Figure 1.5.7.13-1.
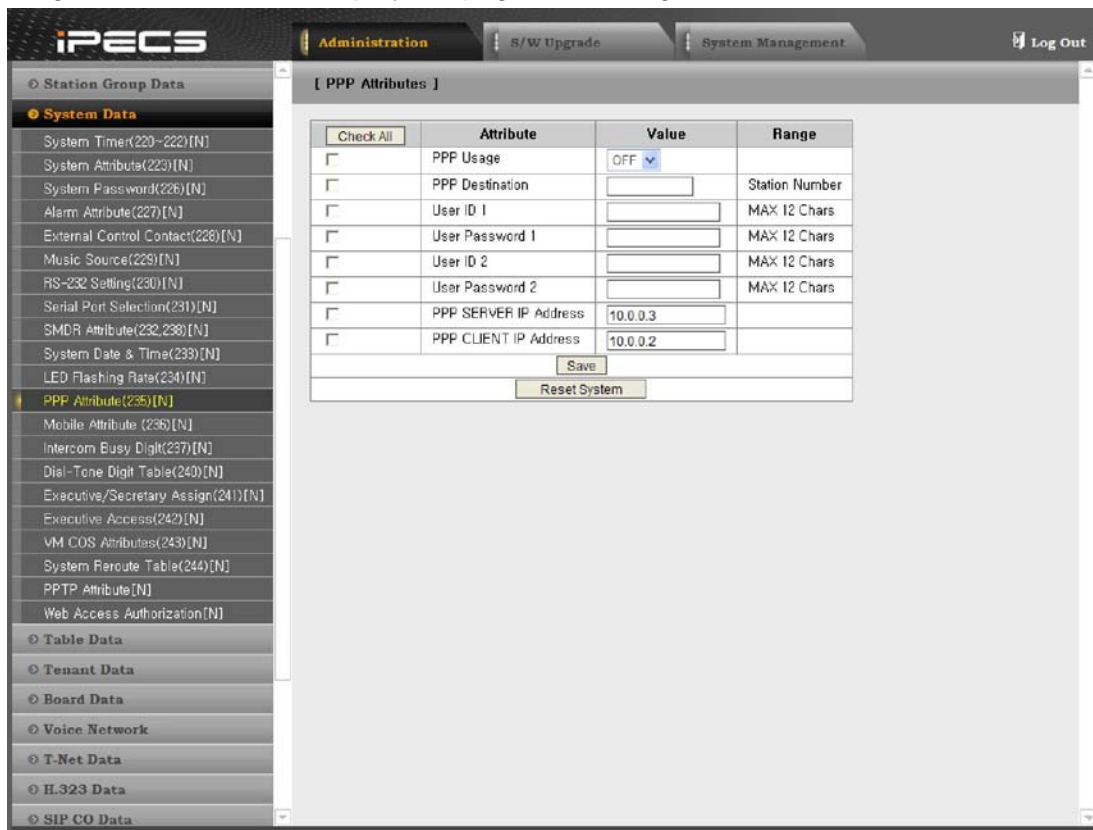
Figure 1.5.7.13-1 PPP Attributes

In addition to remote access via an IP network connection, the system database may be accessed remotely using 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 the matching id and password are entered, the iPECS-MG Home page is provided and Web Admin is accessed. If User ID or password does not match information contained in the system, an error will be returned.

Table 1.5.7.13-1 PPP Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
PPP Usage	Determines if PPP is enabled or disabled.	0: OFF 1: ON	OFF
PPP Destination	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination number, the system will automatically answer the call and request PPP ID and password.	Station number	None
User ID 1	System accepts PPP ID 1.	Max. 12. Character	None
User Password 1	The password entered is used to authorize PPP ID 1.	Max. 12. Character	None

Table 1.5.7.13-1 PPP Attribute

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
User ID 2	System accepts this PPP ID 2.	Max. 12. Character	None
User Password 2	The password entered is used to authorize PPP ID 2.	Max. 12. Character	None
PPP SERVER IP Address	This IP Address is used for a system as a PPP server.	IP Address	10.0.0.3
PPP CLIENT IP Address	This IP Address is used for a system as a PPP client.	IP Address	10.0.0.2

1.5.7.14 Mobile Attributes – PGM Code 236

Selecting Mobile Attributes will display the page shown, Figure 1.5.7.14-1.
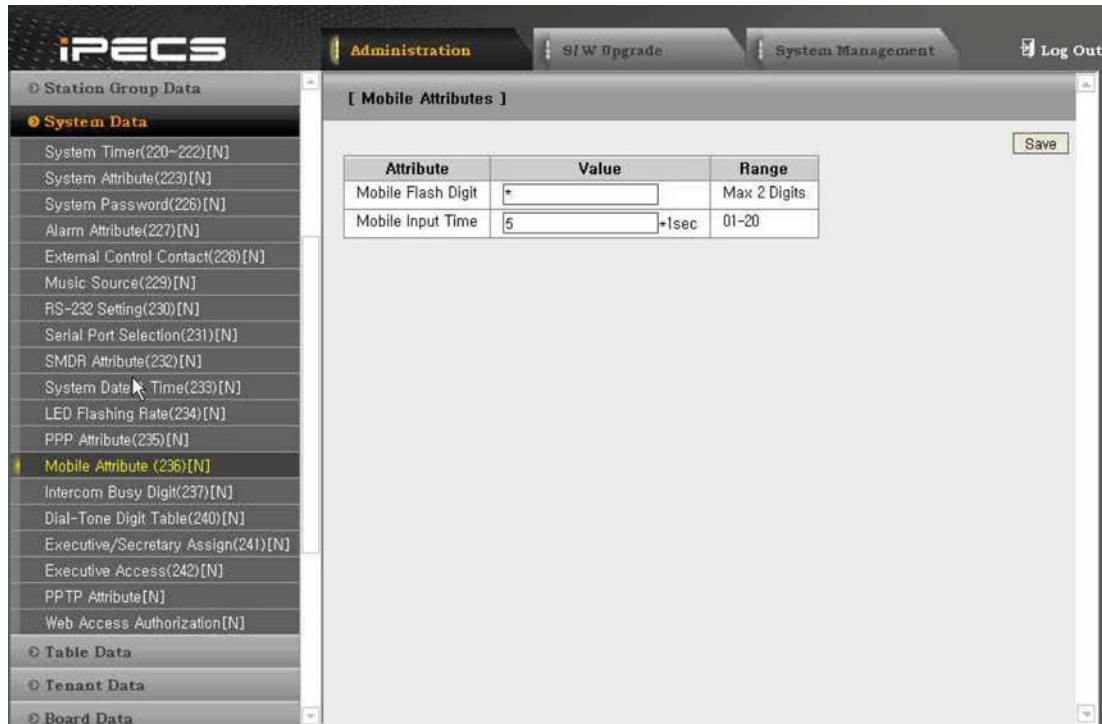
Figure 1.5.7.14-1 Mobile Attributes

The flash digit and input timer for call transferring from a mobile extension can be assigned according to the following Table.

Table 1.5.7.14-1 Mobile Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Mobile Flash Digit	Flash digits for accessing from a mobile extension.	Max. 2 digits	*
Mobile Input Time	Inter-digit timer for entering mobile flash digits.	01-20 (seconds)	05

1.5.7.15 Intercom Busy One-Digit Attributes – PGM Code 237

Selecting Intercom Busy One-Digit Attributes will display the page shown, Figure 1.5.7.15-1.
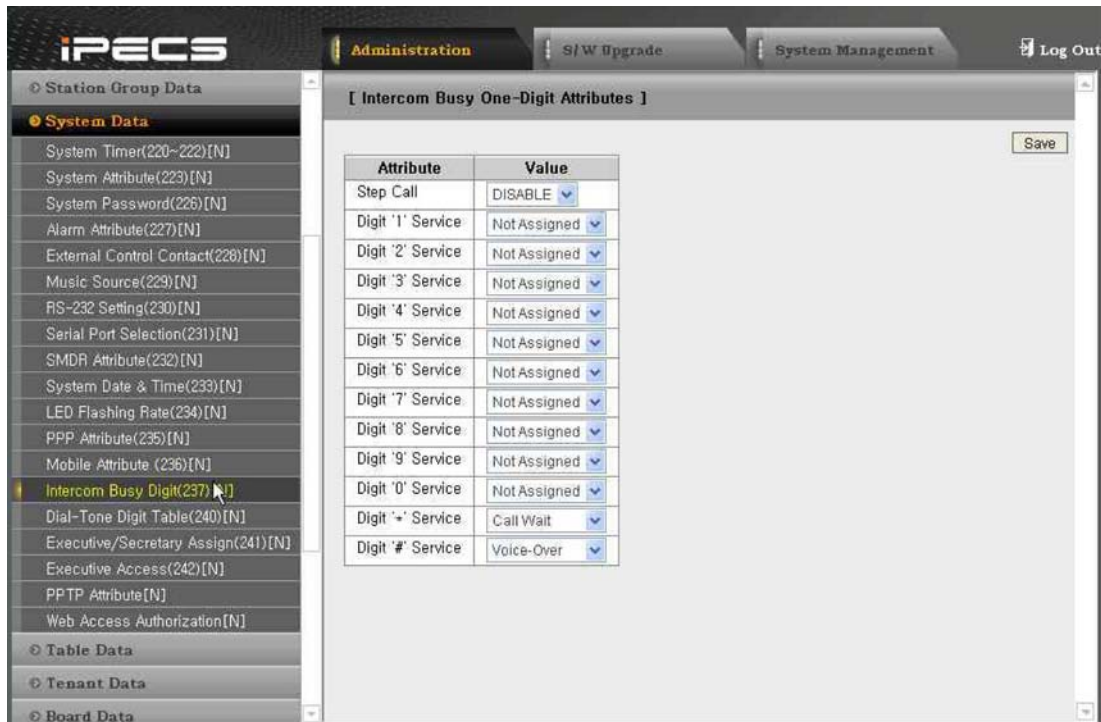
Figure 1.5.7.15-1 Intercom Busy One-Digit Attributes

When a user calls a busy station and receives a busy tone, the user can dial just one digit and the programmed feature is performed.

Table 1.5.7.15-1 Intercom Busy One-Digit Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Step Call	Determines if step call is enabled or disabled.	0: Disable 1: Enable	Disable
Digit '1' Service	When accessing a busy tone, User may dial for one of the one–touch services	0: N/A 1: Call-Back	Not Assigned
Digit '2' Service		2: Camp On 3: Call Wait	Not Assigned
Digit '3' Service		4: Voice Over	Not Assigned
Digit '4' Service		5: Intrusion 6: Hunt	Not Assigned
Digit '5' Service		7: Override-Hold 8: Override - Disconnect	Not Assigned
Digit '6' Service			Not Assigned
Digit '7' Service			Not Assigned
Digit '8' Service			Not Assigned
Digit '9' Service			Not Assigned
Digit '0' Service			Not Assigned
Digit '*' Service			Call Wait
Digit '#' Service			Voice-Over

1.5.7.16 Dummy Dial-Tone Table – PGM Code 240

Selecting Dummy Dial-Tone Table Attributes will display the page, Figure 1.5.7.16-1.
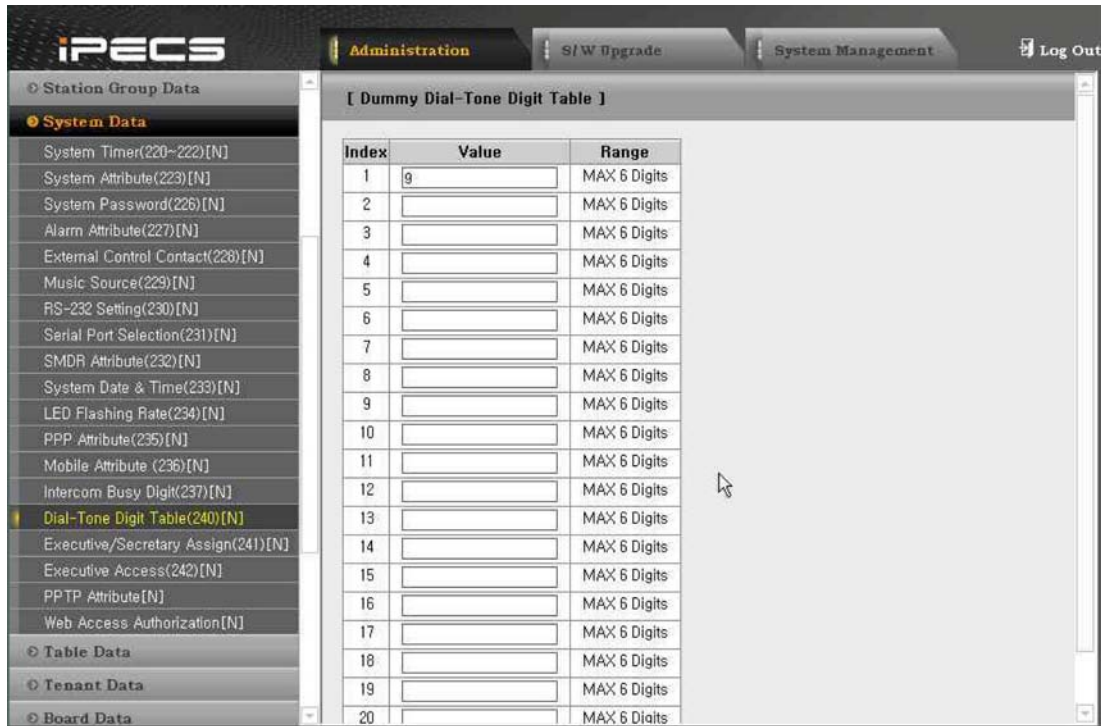
Figure 1.5.7.16-1 Dummy Dial-Tone Table

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 digit (0-9, *, #, X) will provide CO dial tone to the user regardless of CO line seizure.

1.5.7.17 Executive/Secretary Assign – PGM Code 241

Selecting Executive/Secretary Attributes will display the page shown, Figure 1.5.7.17-1.
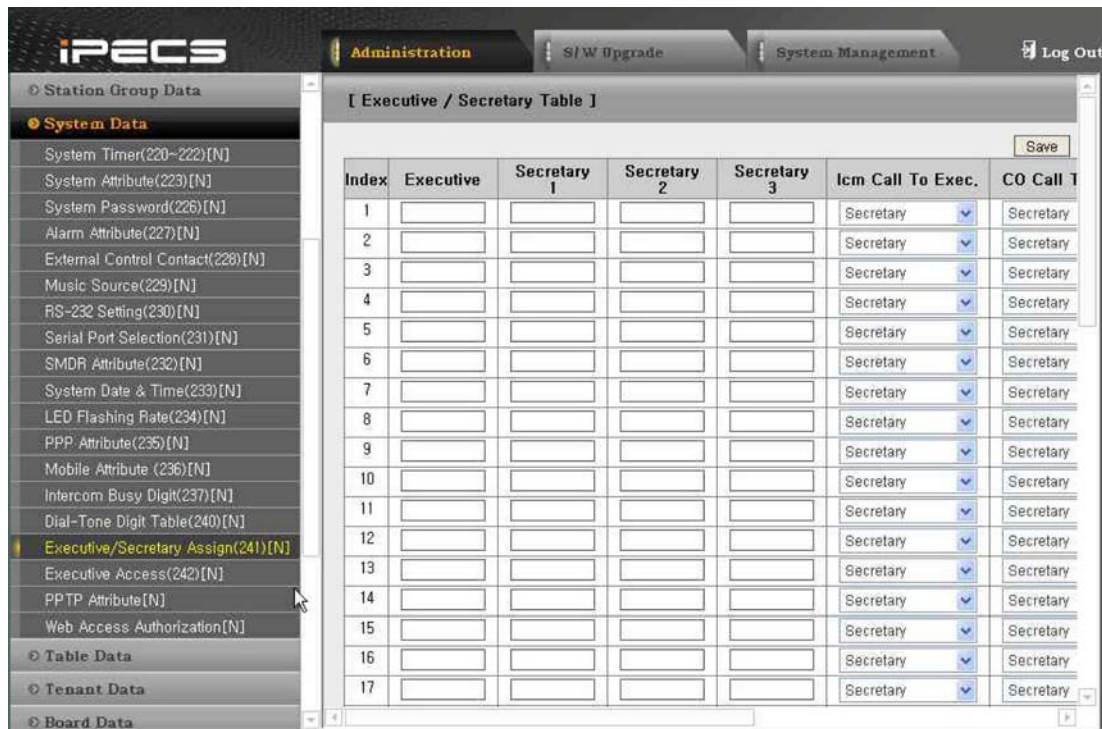
Figure 1.5.7.17-1 Executive/Secretary Assign

Stations can be grouped as Executive/Secretary so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have up to 3 Secretaries. 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.

Table 1.5.7.17-1 Executive/Secretary Assign

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Executive	Assigns Executive station.		
Secretary 1-3	Assigns Secretary stations. 3 secretary station numbers Is available.	1-3	Not Assigned
Executive ICM Call Route (ICM Call to Exec.)	If this option is 'SECRETARY', all internal calls to the Exec. Station (except for calls from executive having executive access privilege) is routed to the Secretary's station regardless of the Executive's status. If 'SEC IF ECEC DND', internal calls are routed to secretary when executive is in 'DND'.	0: Secretary 1: SEC IF EXEC DND	Secretary
CO Call To Exec.	If this option is 'SECRETARY', all incoming CO calls to the Exec. Station is routed to the Secretary station regardless of the Executive's status. If 'SEC IF EXEC DND', incoming CO calls are routed to secretary when executive is in 'DND'.	0: Secretary 1: SEC IF EXEC DND	SECRETARY
Call Executive	Directly routes Executive calls. If OFF, the executive call is routed to secretary. If FIRST SEC. DND, the executive gets a call when first secretary is in 'DND'. If ALL SEC. DND, the executive gets a call when all secretaries all in 'DND'.	OFF/ First Secretary. DND/ All Secretaries. DND	OFF
Secretary Choice	Determines the method of selecting a secretary station when multiple secretaries are assigned. There are two options. First Idle and Longest Idle.	First Idle/Longest Idle	First
Message Wait Station	Determines where message wait notification is left for executive calls. If EXECUTIVE, message is left at Exec. If FIRST SEC, message is left at first secretary.	0: Executive 1: First Secretary	Executive

1.5.7.18 Executive-Executive Access – PGM Code 242

Selecting Executive-Executive Access will display the page shown, Figure 1.5.7.18-1.
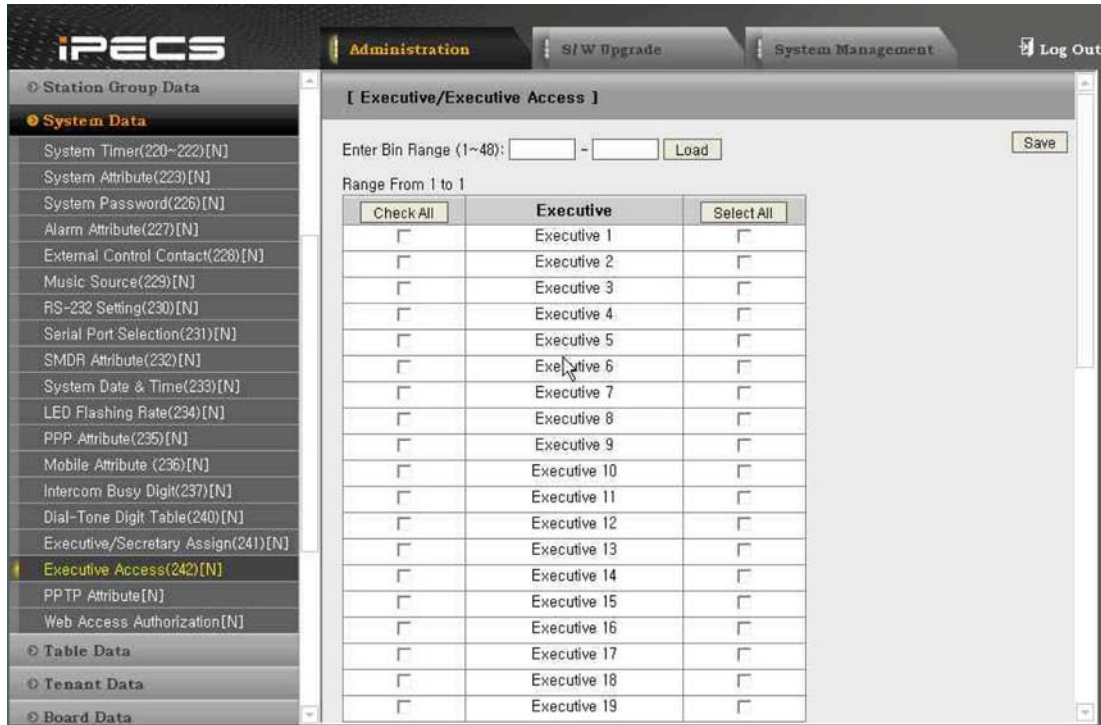
Figure 1.5.7.18-1 Executive-Executive Access

Each Executive can be allowed or denied access to other Executives. As a default, calls between Executives are disabled.

1.5.7.19 VM COS Attribute – PGM Code 243

Selecting VM COS Attribute will display the page shown, Figure 1.5.7.19-1. Enter a valid VM COS range and click **[Load]** to enter VM COS Attributes data.
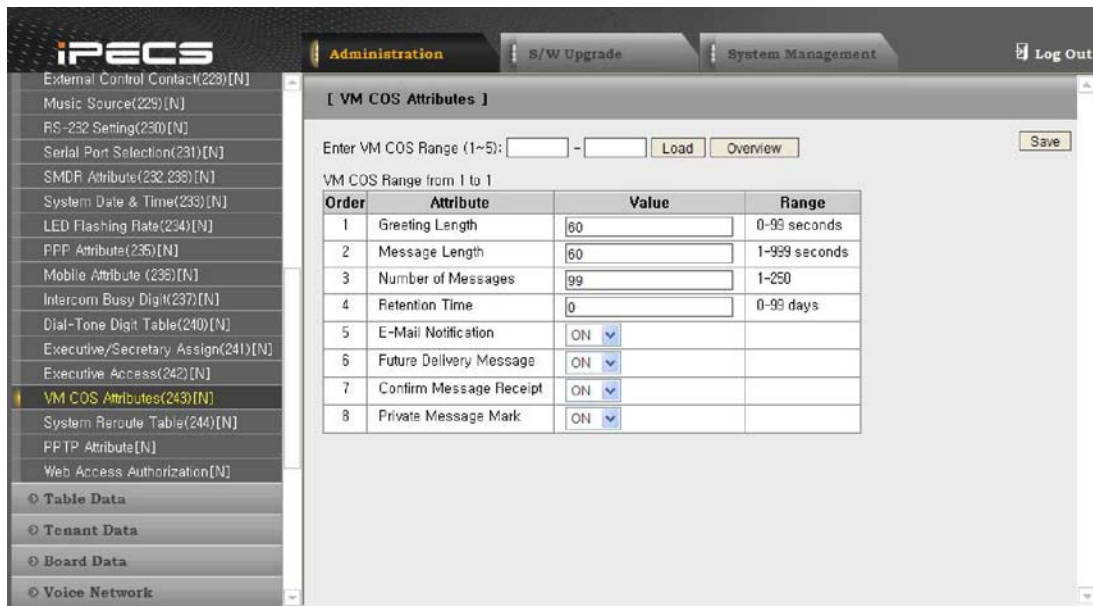
Figure 1.5.7.19-1 VM COS Attribute

The voice mailbox attributes for each VM COS (class of service) can be defined here.

Table 1.5.7.19-1 VM COS Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Greeting Length	The maximum length of greeting in second	00-99 (sec)	60
Message Length	The maximum length of voice message in second	001-999 (sec)	60
Number of Message	The maximum number of voice message of each mailbox	001-250	99
Retention Time	The maximum number of days until the voice message is erased automatically 0: The voice message is not deleted by system automatically.	0-99	0
E-Mail Notification	Determines if the voice message will be notified to the owner through e-mail	ON/OFF	ON
Future Delivery Message	The Voice message can be delivered in future instead of instant deliver. (P 2.0)	ON/OFF	OFF
Confirm Message Receipt	The receipt of voice message can be notified to the message sender (P 2.0)	ON/OFF	OFF
Private Message Mark	The voice message can be marked as private or not. If the voice message is set private, it cannot be forward to other users. (P 2.0)	ON/OFF	OFF

1.5.7.20 System Reroute Table – PGM Code 244

Selecting System Reroute Table will display the page shown, Figure 1.5.7.20-1.

1. Enter a valid index or an index range.
2. Click **[Load]** to enter the System Reroute Table data.

Figure 1.5.7.20-1 System Reroute Table

A call reaches a destination after CCR announcement is played. If the destination is not valid or is wrong number or does not answer due to some reasons, the call can be routed to an alternative destination programmed in this table.

According to Call-State (Busy/No-Answer/Vacant/Transfer No-Answer/Recall No-Answer /DND/Out-of-rvice/Error), alternative destination can be assigned.

Call Release, Attendant, Ring-Assignment, Alt-Ring Table and Pilot Hunt Group can be alternative destination.

Table 1.5.7.20-1 System Reroute Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Busy	User unavailable busy or channel busy (ex., VMIB).	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	
No-Answer	No response from User Station or CO line.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	

Table 1.5.7.20-1 System Reroute Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Vacant Number	Intended called party is invalid format or unallocated number.	Disconnect Attendant CO Ring Assign ALT ring Table Tone	
Transfer No-Answer	Call is transferred when receiving no response from User Station or CO line.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group Ring Transfer Station	
Recall No-Answer	A held call will recall in the event it is not picked up.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group Ring	
DND	Call is rejected at the Station	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	
Out of Service	Station is out of service	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	
Error	Station is in error state.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Hunt Group	

Table 1.5.7.20-2 Prompt

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Prompt	If set ON, the tone is heard first before being routed to alternate destination.	OFF/ON	OFF
Prompt No (PGM Code 290)	The relevant tone index in tone table (PGM 290) that is played when Prompt is set ON.		

1.5.7.21 PPTP Attribute

Selecting PPTP Attribute will display the page shown, Figure 1.5.7.21-1.

Figure 1.5.7.21-1 PPTP Attribute

If iPECS-MG system is in private network and PPTP function is set, iPECS-MG system can try to make PPTP connection to outside PC(PPTP Server). And then tunneling connection will be established between PC and iPECS-MG system.

After connecting outside PC, a user is able to access iPECS-MG system even though iPECS-MG system is in private network with private IP address.

1.5.7.21-1 PPTP Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
	Server 1		
PPTP Server IP Address	System accepts IP address of user's PC as PPTP Server IP Address 1.	IP address	Not Assigned
PPTP ID	System accepts PPTP ID for Server 1.	Max. 24 Characters	Not Assigned
PPTP Password	The password entered is used to authorize PPTP ID 1.	Max. 24 Characters	Not Assigned
PPTP Service CLI	When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically.	Max. 23 Digits	Not Assigned
	Server 2		
PPTP Server IP Address	System accepts IP address of user's PC as PPTP Server IP Address 2.	IP address	Not Assigned
PPTP ID	System accepts PPTP ID for Server 2.	Max. 24 Characters	Not Assigned
PPTP Password	The password entered is used to authorize PPTP ID 2.	Max. 24 Characters	Not Assigned
PPTP Service CLI	When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically.	Max. 23 Digits	Not Assigned
	Server 3		
PPTP Server IP Address	System accepts IP address of user's PC as PPTP Server IP Address 3.	IP address	Not Assigned
PPTP ID	System accepts PPTP ID for Server 3.	Max. 24 Characters	Not Assigned
PPTP Password	The password entered is used to authorize PPTP ID 3.	Max. 24 Characters	Not Assigned
PPTP Service CLI	When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically.	Max. 23 Digits	Not Assigned
	Server 4		
PPTP Server IP Address	System accepts IP address of user's PC as PPTP Server IP Address 4.	IP address	Not Assigned
PPTP ID	System accepts PPTP ID for Server 4.	Max. 24 Characters	Not Assigned
PPTP Password	The password entered is used to authorize PPTP ID 4.	Max. 24 Characters	Not Assigned
PPTP Service CLI	When a call is coming with this CLI, iPECS-MG system tries to make PPTP connection to outside PC (PPTP Server) automatically.	Max. 23 Digits	Not Assigned

1.5.7.22 Web Access Authorization

Selecting Web Access Authorization will display the Web Access Authorization data entry page, Figure 1.5.7.22-1. This page is only displayed when a password is defined.

Figure 1.5.7.22-1 Web Access Authorization

Seven different accounts (ID & password) can be assigned for the access to the iPECS-MG Web administration so that the different levels of access to the program fields can be allowed.

The User/User2/User3 level has access to assigned programming fields and File Upload & remote Upgrade page, which are mainly related to the system installation. The Admin/Admin2/Admin3 level has access to assigned programming fields.

The Maintenance account (ID & password) password has access all the programming fields and the maintenance fields including trace settings, gateway 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.

1.5.8 Table Data

Selecting the Table Data program group returns the sub-menu displayed in Figure 1.5.8-1.

Figure 1.5.8-1 Table Data Main Page

1.5.8.1 Toll Exception Tables – PGM Code 250

Selecting Toll Table will display the Toll Table data entry page, Figure 1.5.8.1-1. Select the desired Allow or Deny Table.
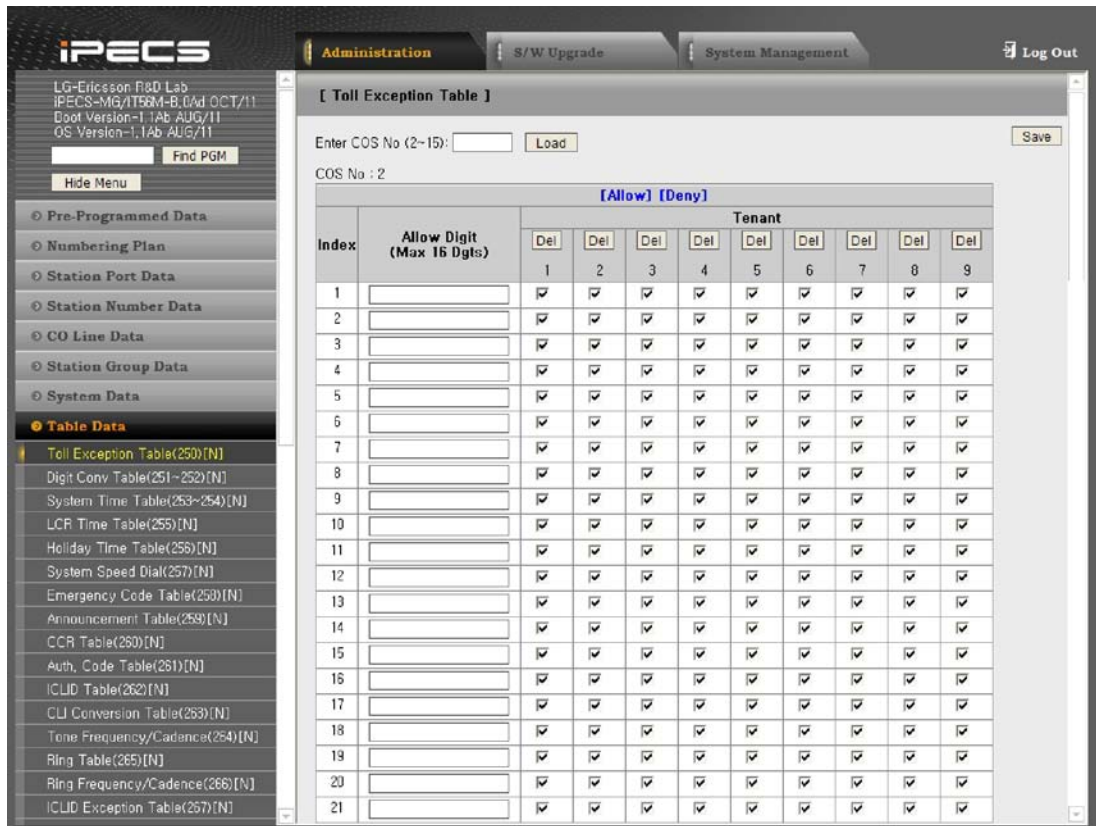

Figure 1.5.8.1-1 Toll Table

The COS numbers from 2 to 15 have both Allow and Deny values in the Toll Table. For each Table, there can be up to 100 separate Allow and Deny entries (up to 16 digits). Entries in the Tables can be any digit (0-9), "*", "#", "X".

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 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 and it is not in the Allow Table, the number will be restricted otherwise the number can be dialed without restriction.

Based on Table entries, tenant groups are determined to apply the table entry or not.

1.5.8.2 Digit Conversion Tables – PGM Codes 251–252

Selecting Digit Conversion Table will display the page shown, Figure 1.5.8.2-1.
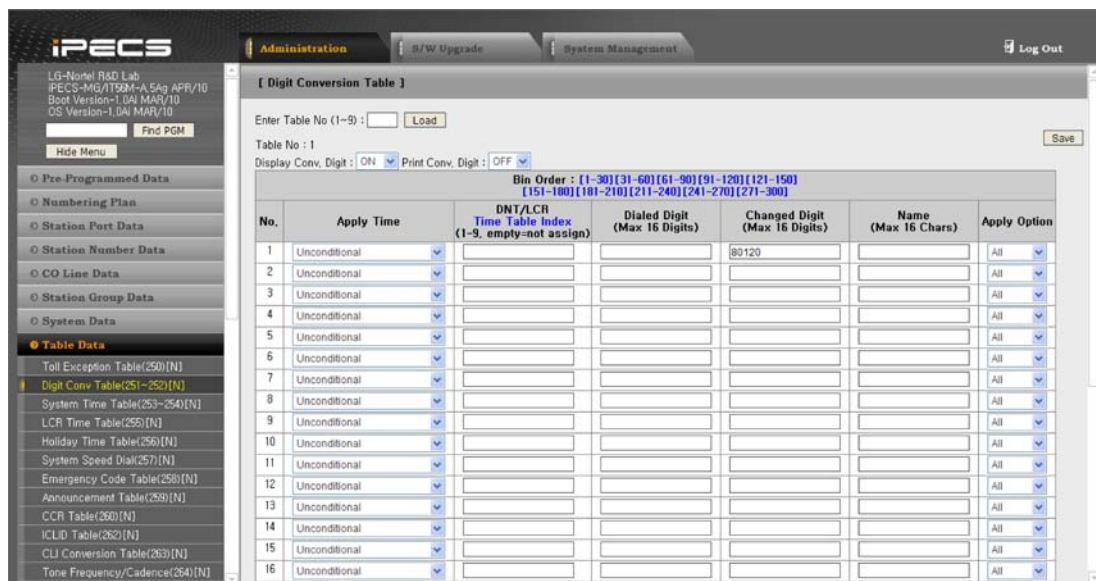

Figure 1.5.8.2-1 Digit Conversion Table

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 300 entries of up to 16 digits. Entries in the Tables can be any digit (0-9), "*", "#","X"(Mask Digit).

Each Index can be applied by Apply Option (All/Station/CO line/Disable). According to Display or Print Conversion Digit admin, user can see converted digit and also converted digit can be printed as SDMR data.

1.5.8.3 System Time Tables – PGM Codes 253–254

Selecting System Time Table will display the page shown, Figure 1.5.8.3-1.

Figure 1.5.8.3-1 System Time Tables

The system can automatically select Ring and COS Mode based on the System Time table. Day, Night, and Timed modes are supported.

Each Time Table has a ring mode related to the different ring assignments, COS and answering method for the system. The ring mode can be controlled automatically through definitions in the Auto Ring Mode & Weekly timetable based on Time Table. Start times for Day, and Night modes, and start and end times for Timed modes are entered for each day of week. The Attendant may change the system mode selection from Automatic to Manual.

Table 1.5.8.3-1 System Time Table Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Time Zone Comment	This entry defines comment of Time table.	32 Character	None
Time Zone	Determines the time zone to be used with the Time table	0-73	0. SYSTEM TIME
Daylight Saving Time	Determines Daylight saving time of Time table.	ON/OFF	OFF
Ring Mode	This entry defines the ring mode of Time table. 0. Day, 1. Night, 2. Timed	0-2	0
Auto Ring Mode	Designates Auto Ring mode for Time table.	ON/OFF	OFF
Weekly Table	Week day DAY/NIGHT/TIMED ring mode start times and TIMED mode end times. Workday/Holiday also can be selected.	0000-2359	DAY: 9: 00 NITE: 18: 00 TDS: . . : . . TDE: . . : . .

1.5.8.4 LCR Time Table – PGM Code 255

Selecting LCR Time Table will display the LCR page shown, Figure 1.5.8.4-1.
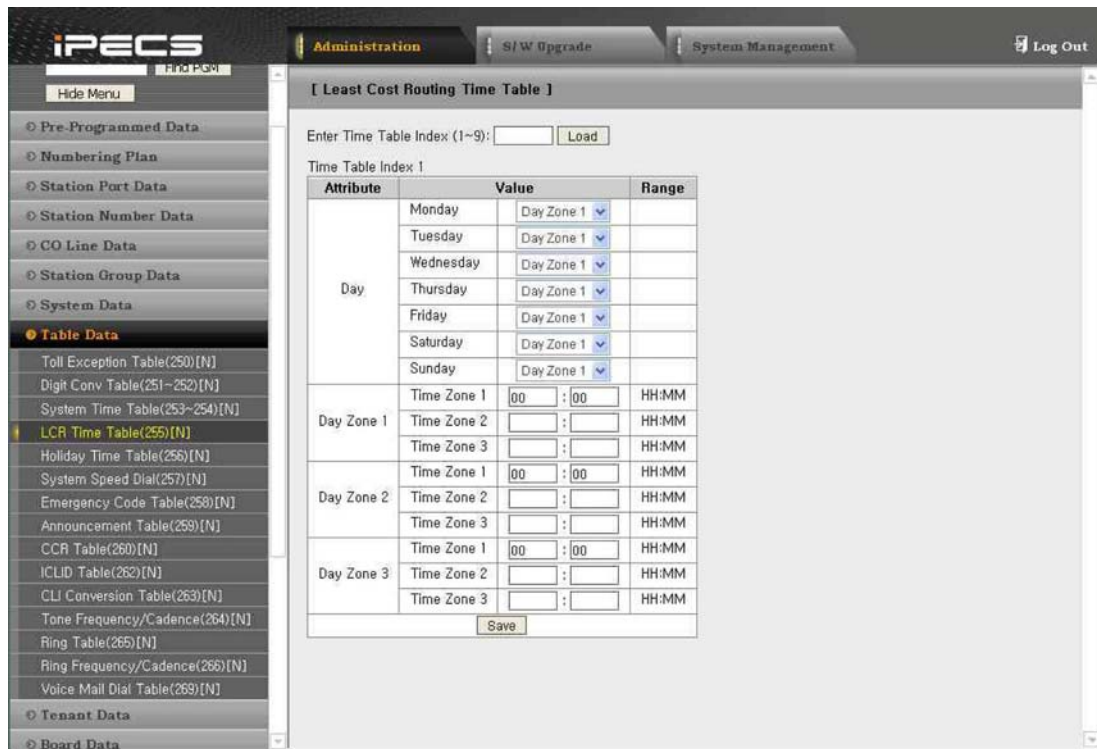

Figure 1.5.8.4-1 LCR Time Table

The LCR Time Tables provide a mechanism for defining the database with Digit Conversion Table (PGM 251–252), which will route outgoing calls, particularly long distance, using the most cost-effective route. Additionally, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). Table 1.5.8.4-1 provides general descriptive information and input ranges.

Table 1.5.8.4-1 LCR Time Table Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Day Zone	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.	1-3	Zone 1: all days of the week
Time Zone1	Determines the time zone 1 of day zone.	00-24	00-24
Time Zone2	Determines the time zone 2 of day zone.	00-24	
Time Zone3	Determines the time zone 3 of day zone.	00-24	

1.5.8.5 Holiday Time Table – PGM Code 256

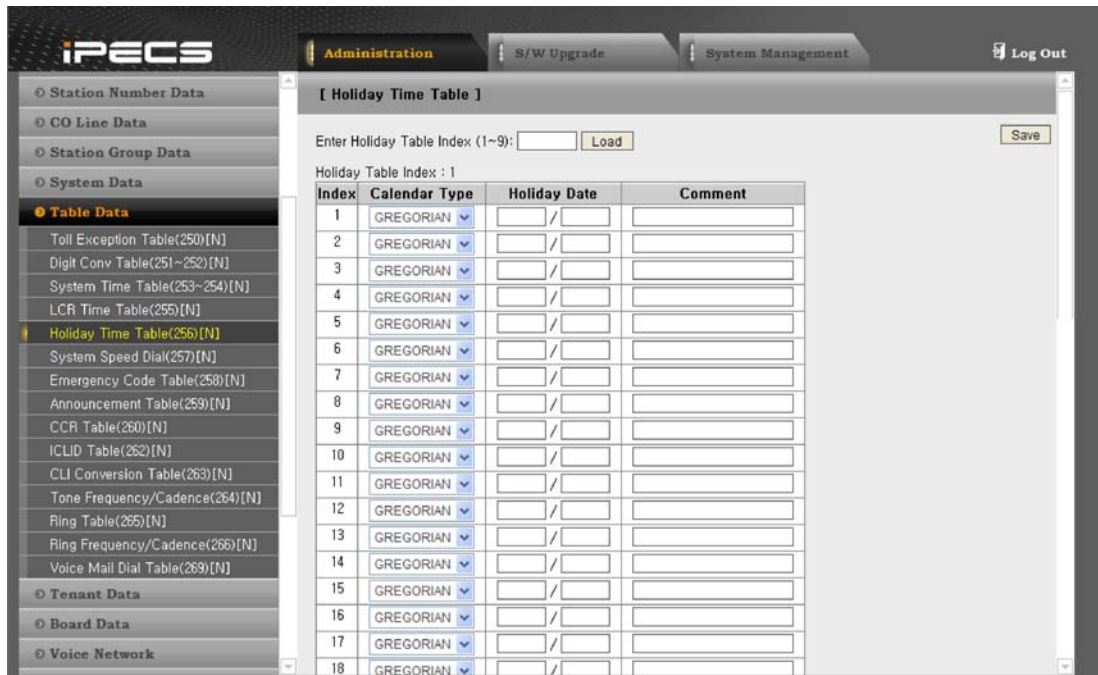Selecting Holiday Time Table will display the page shown, Figure 1.5.8.5-1.

Figure 1.5.8.5-1 Holiday Time Table

Each Time Table has a Holiday time table and ring mode that can be used in place of Night mode when the current date matches with Holiday time table election from automatic to manual.

Table 1.5.8.5-1 Holiday Time Table

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Calendar Type	Determines the Calendar Type for use with the Holiday time table.	LUNAR /GREGORIAN	GREGORIAN
Holiday Date	Designates Holiday Dates for use with the Holiday time table.	MM/DD	None

1.5.8.6 System Speed Table – PGM Code 257

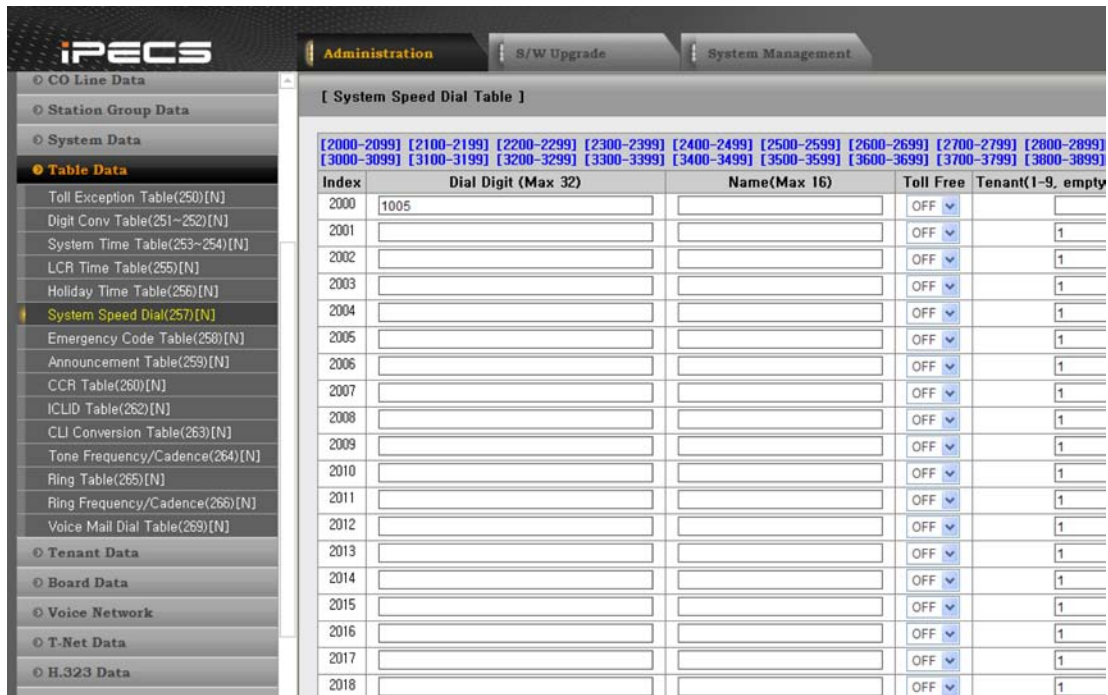Selecting System Speed Table will display the System page shown, Figure 1.5.8.6-1.

Figure 1.5.8.6-1 System Speed Table

Table 1.5.8.6-1 System Speed Dial Table Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Dial Digit	System Speed Dial Digits	Max. 32 digits	
Name	System Speed Dial Name	Max. 16 characters	
Toll Free	Assignment to apply Toll-Free	0: OFF 1: ON	OFF
Tenant Number	Tenant number to assign System Speed Access. If this field be leaved empty then all tenants adapt this entry.	1-9 (MG-300) 1-5 (MG-100)	1

1.5.8.7 Emergency Code Table – PGM Code 258

Selecting Emergency Code Table will display the page shown, Figure 1.5.8.7-1.
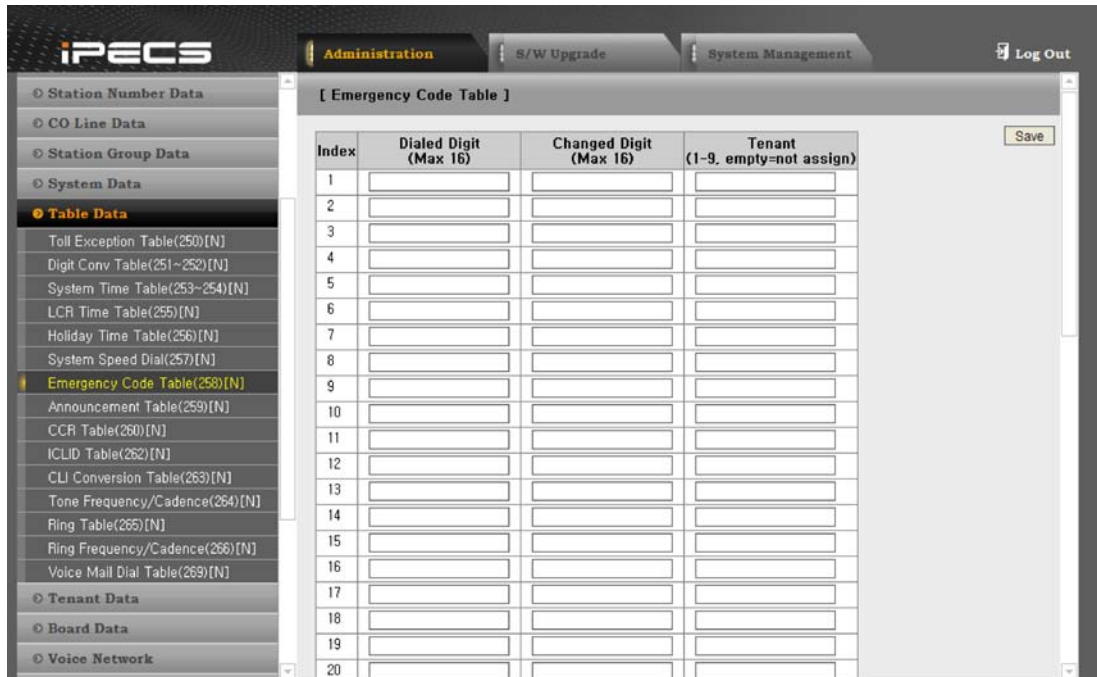

Figure 1.5.8.7-1 Emergency Code Table

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 sixteen (16) digits in length.

Table 1.5.8.7-1 Emergency Code Table Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Dialed Digit	Dialed digits from user	Max. 16 digits	
Changed Digit	CO Group Access Code and digits to be sent to PX when user dials the dialed digit.	Max. 16 digits	
Tenant Number	Tenant number to be applied when user dials emergency code. If this field be leaved empty, this entry will be adapted to all of tenants.	Empty, 1-9 (MG-300) 1-5 (MG-100)	1

1.5.8.8 VMIB Announcement Table – PGM Code 259

Selecting VMIB Announcement Table will display the page shown, Figure 1.5.8.8-1.

Figure 1.5.8.8-1 VMIB Announcement Table

The VMIB Announcement Table is used for play the VMIB Announcement.

Table 1.5.8.8-1 EMERGENCY CODE TABLE ATTRIBUTES

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
VMIB Slot No & Announcement No	Recorded VM message from VMIB slot and Announcement number will be used. VMIB Slot (00-18) & Annc. Number (01-70)		
CCR	CCR Table index number to perform CCR feature during Announcement playing.	1-100	1
Multi-Language	Multi-language announcement table index used for playing the VMIB Announcement No.	1-100, None	none

1.5.8.9 Customer Call Routing Table – PGM Code 260

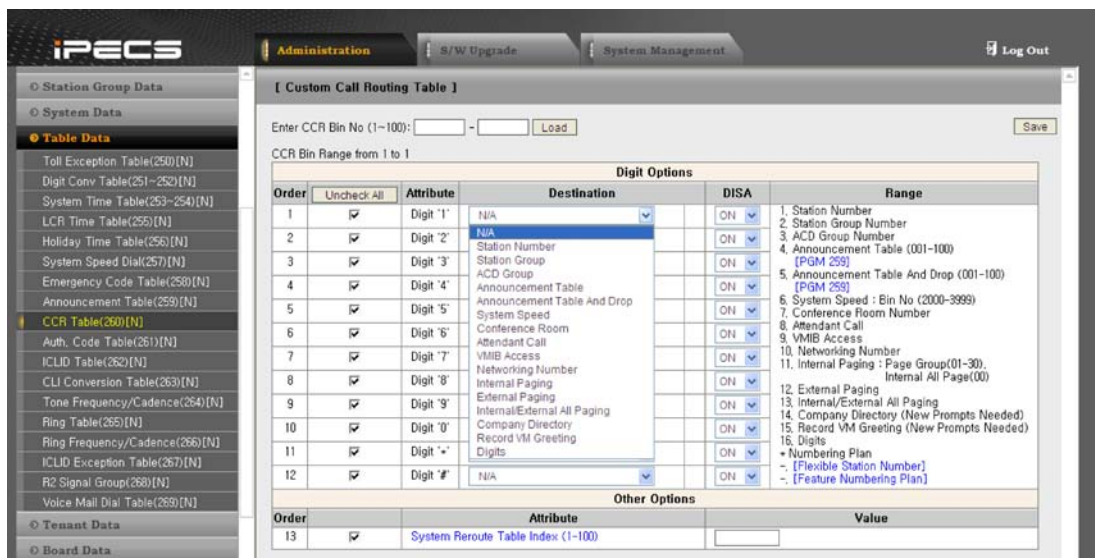Selecting CCR Table will display the Customer page shown, Figure 1.5.8.9-1.

Figure 1.5.8.9-1 Customer Call Routing Table

The system incorporates Integrated Voice Response (IVR) capabilities called Customer Call Routing (CCR). After or during a VMIB Announcement, a caller may dial a digit to select a destination or route for the call. The CCR Table defines the destination associated with digits dialed by the caller in response to a VMIB Announcement (001−100). Up to 100 single-level Audio Text menus may be assigned, or multi-level menu structures (maximum 100 levels) can be established using one menu as a destination for the previous level.

Table 1.5.8.9-1 CCR TABLE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Value	The destination of CCR. The following is the CCR destination. 1) Station Number 2) Station Group 3) ACD Group 4) Announcement Table (1-100) 5) Announcement Table and Drop (1-100), 6) System Speed (2000-2999) 7) Conference Room 8) Attendant Call 9) VMIB Access 10) Networking Number 11) Internal Paging 12) External Paging 13) Internal/External All Paging 14) Company Directory (New Prompt Needed) 15) Record VM Greeting (New Prompt Needed) 16) Digits		N/A
DISA	DISA can be enabled or disabled for each digit input.	ON/OFF	ON
System Reroute Table Index	Table index of system alternative reroute destination (PGM 244) can be set for the case the destination does not answer.	001-100	-

1.5.8.10 Authorization Code Table

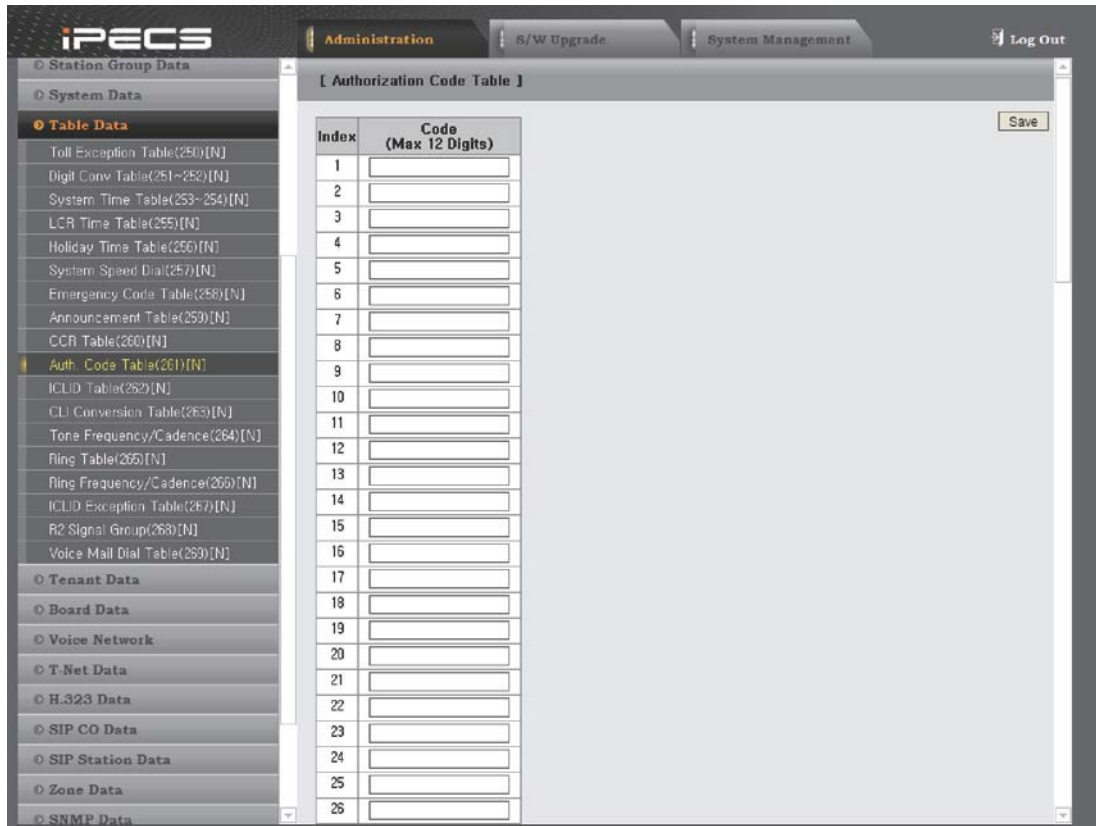Selecting Authorization Code Table will display the page shown, Figure 1.5.8.10-1.

Figure 1.5.8.10-1 Authorization Code Table

When a system wants to restrict dialing some codes, the codes can be assigned in Authorization Code Table.

The system compares the dialed digits to entries in Authorization Code Table, and if a match is found, the system will request the password to the caller.

Only when the user dials a valid password (a associated station number and the password (PGM 131 Index 4)), the dialed code is served for the caller.

1.5.8.11 ICLID Route Table – PGM Code 262

Selecting ICLID Route Table will display the page shown, Figure 1.5.8.10-1.
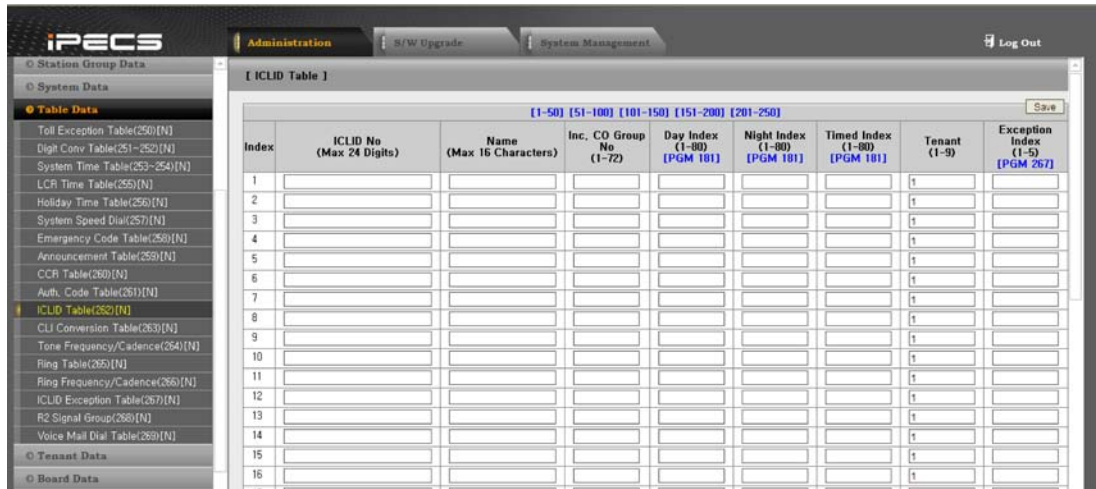

Figure 1.5.8.11-1 ICLID Routing Table

The system can employ Incoming Calling Line Id (ICLID) to determine the routing of incoming external calls. Each CO/IP Line may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table, and route the call based on destination indicated by the index (bin) number of PGM 181.

Table 1.5.8.11-1 ICLID Table

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
ICLID Number	ICLID to match for the index.	24-digits	None
Name	ICLID name that is sent by the system to the destination for the ICLID routed call.	16. Character	None
Inc CO Group Number	The Incoming CO Group Number to apply ICLID routing. If not assigned, ICLID is applied to all CO Groups.	1 – 72 (MG-300) 1-24 (MB-100)	
Day Index	Alternative Ring Index (PGM 181), for Day.	1 – 80	
Night Index	Alternative Ring Index (PGM 181), for Night.	1 – 80	
Timed Index	Alternative Ring Index (PGM 181), for Timed.	1 – 80	
Tenant Number	The tenant number to be applied to ICLID.	1~9(MG-300) 1-5(MG-100)	1
Exception Index	The index for the ICLID exception table can be set for the exception cases	1-5	

1.5.8.12 CLI Conversion Table – PGM Code 263

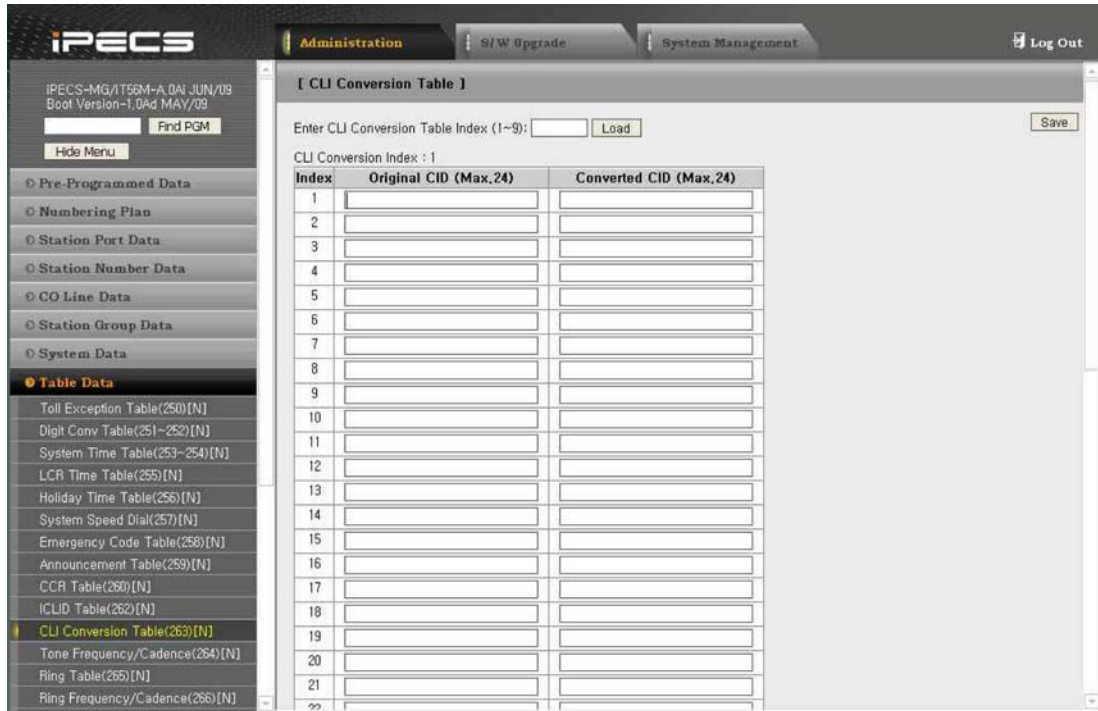Selecting the CLI Conversion Table will display the page shown, Figure 1.5.8.12-1.

Figure 1.5.8.12-1 CLI Conversion Table

The system will compare a received CLI or calling CLI to the conversion table.

Table 1.5.8.12-1 CLI Conv Tables

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Original CID	Received / Original CLI.	24-digits	None
Converted CID	Desired to change CLI.	24 digits	None

1.5.8.13 Tone Frequency/Cadence Table – PGM Code 264

Selecting Tone Frequency/Cadence will display the page shown, Figure 1.5.8.13-1.

Figure 1.5.8.13-1 Tone Frequency/Cadence Table

The system provides 19 different of tone ports. Each tone port may be designated a tone type according to the Tone Table (PGM 290).

Table 1.5.8.13-1 Tone Port Table (Default)

Index	Frequency		Cadence	Repeat
	FREQ 1	**FREQ 2**		
01	425 Hz	0 Hz	300 ms ON / 200 ms OFF	255 (Cont.)
02	620	0	200 ms ON / 200 ms OFF / 200 ms ON / 200 ms OFF	255 (Cont.)
03	1000	1020	500 ms ON / 500 ms OFF	3
04	440	0	1 sec ON / 4 sec OFF	255 (Cont.)
05	950	0	1 sec ON / 2 sec OFF	255 (Cont.)
06	950	0	400 ms ON / 100 ms OFF	2
07	950	0	200 ms ON / 200 ms OFF	3
08	1400	0	1200 ms ON / 320 ms OFF	1
09	1400	0	200 ms ON / 200 ms OFF	3
10	350	440	1 sec ON	255 (Cont.)
11	425	0	320 ms ON / 30 ms OFF	255 (Cont.)
12	620	0	200 ms ON / 200 ms OFF	3
13	950	0	100 ms ON / 200 ms OFF	2
14	425	0	200 ms ON / 200 ms OFF / 200 msec ON / 3400 msec OFF	255 (Cont.)
15	620	0	100 ms ON / 100 ms OFF	255 (Cont.)
16	425	620	500 ms ON / 500 ms OFF	255 (Cont.)
17	350	0	1 sec ON	255 (Cont.)
18	425	0	200 ms ON / 200 ms OFF / 200 ms ON / 1400 ms OFF	1
19	1260	1633	500 ms ON / 500 ms OFF	255 (Cont.)

1.5.8.14 Ring Table – PGM Code 265

Selecting Ring Table will display the page shown, Figure 1.5.8.14-1.

Figure 1.5.8.14-1 Ring Table

Each Ring type can have 4 different ring signals from among 15 available choices. After the 4 different ring indexes are programmed, CO line or Station may select one of the 4 types.

Table 1.5.8.14-1 Ring Table

INDEX	RING NAME	REMARK
1	Normal Call Ring (Station)	For an internal call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller gets error tone or goes to idle.
2	Normal Call Ring (CO)	For an external DID call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller is routed to the 'NO-Answer Destination' of incoming CO Alternative (PGM 169).
3	Recall Ring (Station)	For an internal recall, this ring type and ring timer is applied. If the call is not answered within this timer, the caller gets error tone or goes to idle.
4	Recall Ring (CO)	For an external recall, this ring type and ring timer is applied. If the call is not answered within this timer, the caller is routed to the 'NO-Answer Destination' of incoming/outgoing CO Alternative (PGM 169/173).
5	Forward Call Ring (Station)	When a user activates No-Answer Forward, For an internal call, this ring type will ring for station No-Answer Forward timer (PGM 143) before the calls are forward.
6	Forward Call Ring (CO)	When a user activates No-Answer Forward, For an external call, this ring type will ring for station No-Answer Forward timer (PGM 143) before the calls are forward.
7	Transfer Call Ring (Station)	Determines the amount of time a transferred internal call will ring at the receiving station before recalling the station that transferred the call.
8	Transfer Call Ring (CO)	Determines the amount of time a transferred internal call will ring at the receiving station. If the call is not answered within this timer, the caller is routed to the 'Trans NO-Answer Destination' of incoming/outgoing CO Alternative (PGM 169/173).
9	Call Back Indication Ring	For callback ring, this ring type and ring timer is applied.
10	Wakeup Indication Ring	For wakeup ring, this ring type and ring timer is applied.
11	Revertible Ring	For revertible ring, this ring type and ring timer is applied.
12	Paging Call Ring	When SLT gets paging call, this ring type and ring timer is applied. If SLT does not answer within time timer, the ring is cancelled.
13	Handsfree Answer Ring	When station is H-mode, the internal call is connected automatically after this ring time.
14	Command Call Ring	When station gets command conference call, this ring type and ring timer is applied. If command conference call does not answer within time timer, the ring is cancelled.
15	Msg Alert Ring	When message wait is left to the station, this ring type and ring timer is applied for message wait reminder.
16	Make Call Alert Ring	

Table 1.5.8.14-1 Ring Table

INDEX	RING NAME	REMARK
17	Alarm Ring	For external alarm ring, this ring type and ring timer is applied.
18	Fault Ring	For fault ring, this ring type and ring timer is applied.
19	DID Call Ring(CO)	For an external DID call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller is routed to the 'NO-Answer Destination' of incoming CO Alternative (PGM 169).
20	Emergency Alert Ring	When Emergency call is activated, Emergency Alert Ring can be defined.
21	Bath Alarm Ring	For bath alarm ring, this ring type is applied.(ring timer is not implemented)
22	VIP Wake-Up Ring	For VIP Wake-up ring, this ring type ring timer is applied.

1.5.8.15 Ring Frequency/Cadence Table – PGM Code 266

Selecting Ring Frequency/Cadence will display the page shown, Figure 1.5.8.14-1.

Figure 1.5.8.15-1 Ring Frequency/Cadence Table

Table 1.5.8.15-1 Ring Freq/Cadence Table

RING INDEX	FREQUENCY		CADENCE	REPEAT
	FREQ 1(HZ)	FREQ 2(HZ)		
01	1000	1020	200 ms ON / 200 ms OFF	255 (Cont.)
02	1000	1020	400 ms ON / 2 sec OFF	255 (Cont.)
03	1000	1020	400 ms ON / 600 ms OFF	255 (Cont.)
04	1000	1020	1 sec ON	1
05	1000	1020	800 ms ON / 2400 ms OFF	255 (Cont.)
06	890	910	800 ms ON / 2400 ms OFF	255 (Cont.)
07	1260	1280	800 ms ON / 2400 ms OFF	255 (Cont.)
08	800	820	800 ms ON / 2400 ms OFF	255 (Cont.)
09	1000	1020	400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF	255 (Cont.)
10	890	910	400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF	255 (Cont.)
11	1260	1280	400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF	255 (Cont.)
12	800	820	400 ms ON / 400 ms OFF / 400 ms ON / 2 sec OFF	255 (Cont.)
13	1000	1020	200 ms ON / 200 ms OFF	255 (Cont.)
14	1000	1020	400 ms ON / 400 ms OFF	255 (Cont.)
15	1000	1260	300 ms ON / 300 ms OFF	255 (Cont.)

1.5.8.16 ICLID Exception Table – PGM Code 267

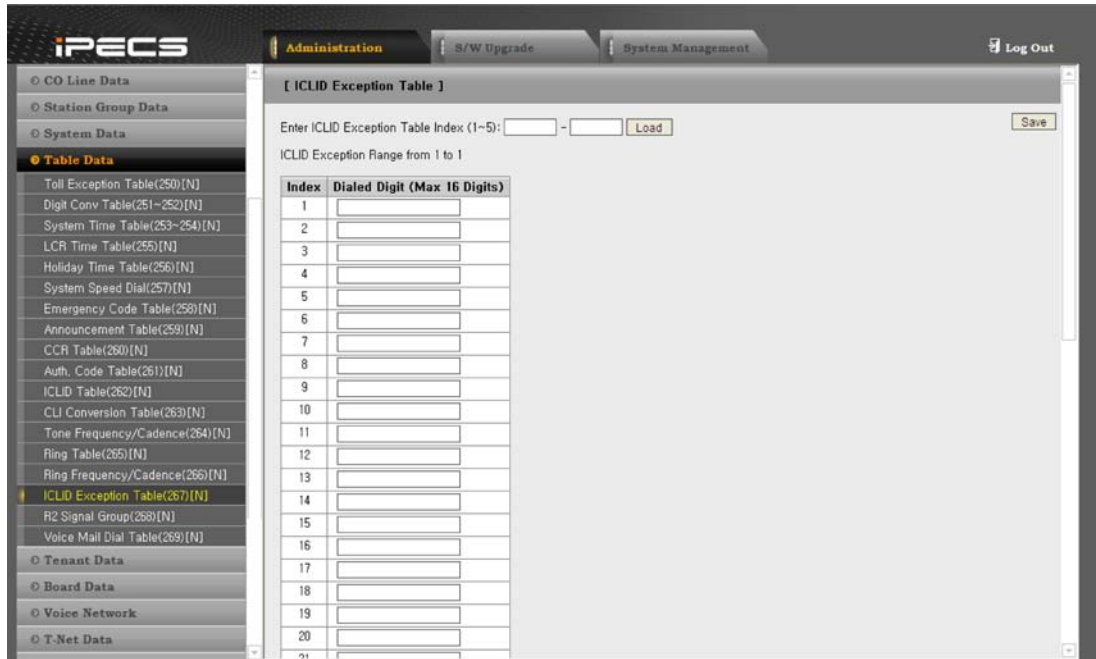Selecting ICLID Exception Table will display the page shown, Figure 1.5.8.16-1.

Figure 1.5.8.16-1 ICLID Exception Table

This table provides a way to handle some exceptional cases for ICLID (Incoming Calling Line ID) routing. If there's an entry matching the called party number, ICLID is not performed. But the called party rings for the call, which is an exception to ICLID routing.

Table 1.5.8.16-1 ICLID Exception Table

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Dialed Digit	Dialed digit stream activating ICLID exception	16-digit	None

1.5.8.17 R2 Signal Group Table – PGM Code 268

Selecting Voice Mail Dialing Table will display the page shown, Figure 1.5.8.17-1.

Selecting R2 Signal Group Table will display the page shown, Figure 1.5.8.17-1 and Figure 1.5.8.17-2. The Figure 1.5.8.17-1 is for R2 Forward Signaling table and the Figure 1.5.8.17-2 is for R2 Backward Signaling table.

Figure 1.5.8.17-1 R2 Signal Group Forward Table

Figure 1.5.8.17-2 R2 Signal Group Backward Table

1.5.8.18 Voice Mail Dialing Table – PGM Code 269

Selecting Voice Mail Dialing Table will display the page shown, Figure 1.5.8.18-1.

Figure 1.5.8.18-1 Voice Mail Dialing Table

When an external Voice Mail system is used that employs in-band signaling, a digit sequence must 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 call routing. The Voice Mail Dial Table permits the definition of digits as either a prefix or suffix to other digits (station number for mailbox identification). Sequences are defined for call characteristics such as Put Mail, Get Mail, No Answer Call, etc.

Table 1.5.8.18-1 Voice Mail Dial Table

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Voice Mail 1-Put	Code sent for receiving calls to record a message (Put Mail).	0: Prefix 1: Suffix	P#
Voice Mail 2-Get	Code sent for message playback (Get Mail).	0: Prefix 1: Suffix	P##
Voice Mail 3-Busy	Code sent when voice mail receives a call while the user is busy (Busy Mail).	0: Prefix 1: Suffix	P#*3P
Voice Mail 4-No Answer	Code sent when voice mail receives a call while the user does not answer (No Answer Mail).	0: Prefix 1: Suffix	P#*4P
Voice Mail 5 – Error	Code sent when voice mail receives a call when dialing error exists (Error Mail).	0: Prefix 1: Suffix	P#*5P
Voice Mail 6 – DND	Code sent when voice mail receives a call when user is in DND mode (DND Mail).	0: Prefix 1: Suffix	P#*6P
Voice Mail 7	RESERVED	0: Prefix 1: Suffix	
Voice Mail 8	RESERVED	0: Prefix 1: Suffix	
Voice Mail 9-Disconnect	Code sent when voice mail receives a disconnected call (Disconnect Mail).	0: Prefix 1: Suffix	*****

1.5.8.19 Virtual CLI Table – PGM Code 750

Selecting Virtual CLI Table will display the page shown, Figure 1.5.8.19-1.
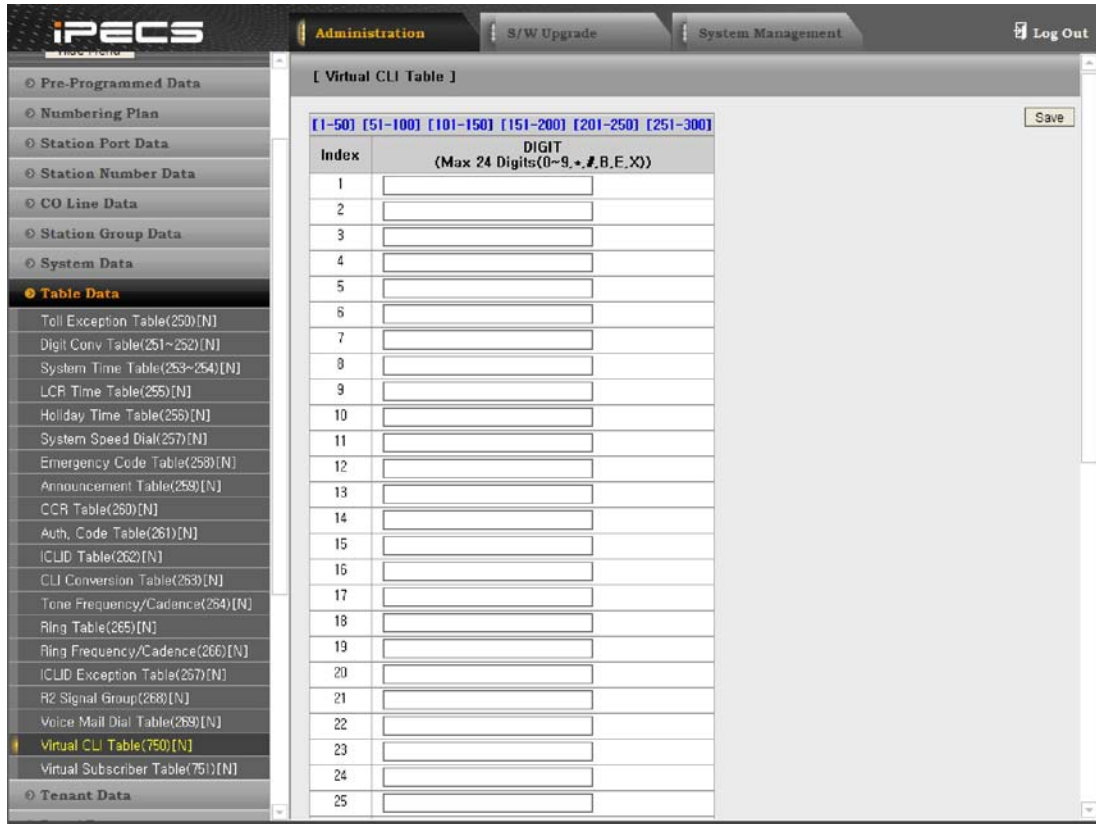
Figure 1.5.8.19-1 Virtual CLI Table

This table is used for CLI when a virtual subscriber makes outgoing call at PGM 751 Virtual Subscriber Table. Length of number is 24 digits. This table can be assigned up to 300 for iPECS-MG 300 and 100 for iPECS-MG 100.

> **NOTE**
> • B: Begin Copied, E: End Copied, X: any one digit.
> • Virtual CLI is assigned up to 24 digits in case of not including 'B' and 'E', 25 digits in case of including 'B' or 'E' and 26 digits in case of including both 'B' and 'E'.
> • 'X' should be after the 'B' or 'E'. And, 'B', 'E' and 'X' can't stand alone.

1.5.8.20 Virtual Subscriber Table – PGM Code 751

Selecting Virtual CLI Table will display the page shown, Figure 1.5.8.20-1.

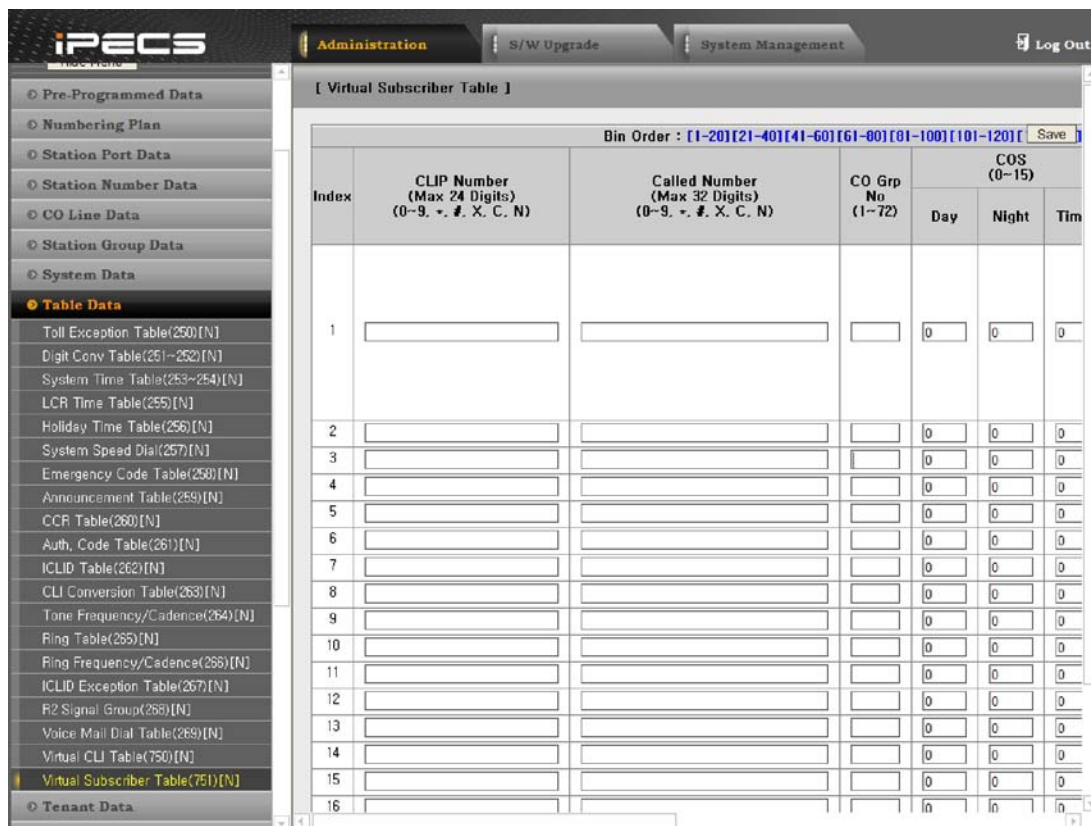**Figure 1.5.8.20-1 Virtual Subscriber Table**

The Virtual Subscriber Table contains incoming CLI, called number, incoming CO group, day/night/timed class, tenant, maximum virtual calls, digit conversion table, Virtual CLI table index and destination. The incoming CLI can be assigned up to 24 digits. The table can be assigned up to 300 for iPECS-MG 300 and 100 for iPECS-MG 100 tables.

> **NOTE**
> * C: any digits(block), N: No CLI, X: any one digit.
> * 'N', 'X' and 'C' can't be used in one CPN type at the same time.
> * 'C' can be only the first or last digit
> * 'N' can't be programmed with other digits.

Table 1.5.8.20-1 Virtual Subscriber Table

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
CLIP Number	CLI used to match the index.	24–digits	None
Called Number	Called Number to match the index.	32–digits	None
CO Incoming Group No	The CO Group Number to apply Virtual Subscriber route; if not assigned, Virtual Subscriber Service is NOT applied.	1–72 (MG-300) 1–24 (MG-100)	None

Table 1.5.8.20-1 Virtual Subscriber Table

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Day COS	Virtual Subscriber's temporary COS in Day mode.	00–15	00
Night COS	Virtual Subscriber's temporary COS in Night mode.	00–15	00
Timed COS	Virtual Subscriber's temporary COS in Timed mode..	00–15	00
Tenant No	The tenant number to be applied the Virtual Subscriber.	1–9 (MG–300) 1–5 (MG–100)	1
Max Virtual Calls	The maximum virtual subscriber service number with same CLI and Called Number at the same time.	000-254	None
Digit Conversion Table	Specify Digit Conversion Table for Virtual Subscriber's destination.	1–9.	1
Destination	If this destination is assigned, received called number is ignored.	32–digits	None
Virtual CLI Type	Virtual CLI Type when virtual subscriber makes outgoing call. − All : Apply for all outgoing calls − IND: Apply the Virtual CLI differently according to extensions, CO groups(max. 6) and the others.		ALL
Virtual CLI Table Index for Station	When the destination is an extension, this Virtual CLI index is used for display.	001–300 (MG–300) 001–100 (MG–100)	None
Virtual CLI Table Index for All Cases/Other	1) When Virtual CLI type is ALL 2) When Virtual CLI type is IND and the Virtual CLI index is not specified.	001–300 (MG–300) 001–100 (MG–100)	None
Outgoing CO Group	Assign the outgoing CO groups for using the Virtual CLI individually.	Refer to Table 1.5.8.20-1.	
Virtual CLI Table Index for Outgoing CO Group	Assign the Virtual CLI Table index for each CO group in Outgoing CO Group.	Refer to Table 1.5.8.20-1.	

Table 1.5.8.20-2 Outgoing CO Group/Virtual CLI

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Outgoing CO Groups for IND type	The outgoing CO group for using Virtual CLI.	1–72 (MG-300) 1–24 (MG-100)	
Virtual CLI Table Index for outgoing CO groups when IND type is selected.	The Virtual CLI Table index for the outgoing CO groups.	001–300 (MG–300) 001–100 (MG–100)	

1.5.9 Tenant Data

Selecting the Tenant Data program group returns the sub-menu displayed in Figure 1.5.9-1.

Figure 1.5.9-1 Tenant Data Main Page

1.5.9.1 Attendant Group Assignment – PGM Code 270

Selecting ATD Group Assignment will display the page shown, Figure 1.5.9.1-1.

Figure 1.5.9.1-1 Attendant Group Assignment

The System can have an Attendant Group per tenant; an Attendant Group can contain up to 5 Attendants.

Attendant stations can be grouped so that calls will search for an idle attendant in the group. The system allows processing assignment to be Circular, Terminal, Ring, or Longest Idle.

Table 1.5.9.1-1 Attendant Group Assignment

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Group Type	Determines the type of Attendant group.	0: Terminal 1: Circular 2: Ring 3: Longest Idle	0
Group Name	Determines the name of attendant group.	Max. 16	-
CO Attendant Number	Determines attendant call number for CO line.	Max. 4	
Member	Assigns stations as members of an attendant group.		First Station

1.5.9.2 Attendant Group Attributes – PGM Codes 271–272

Selecting Attendant Group Attributes will display the page shown, Figure 1.5.9.2-1.
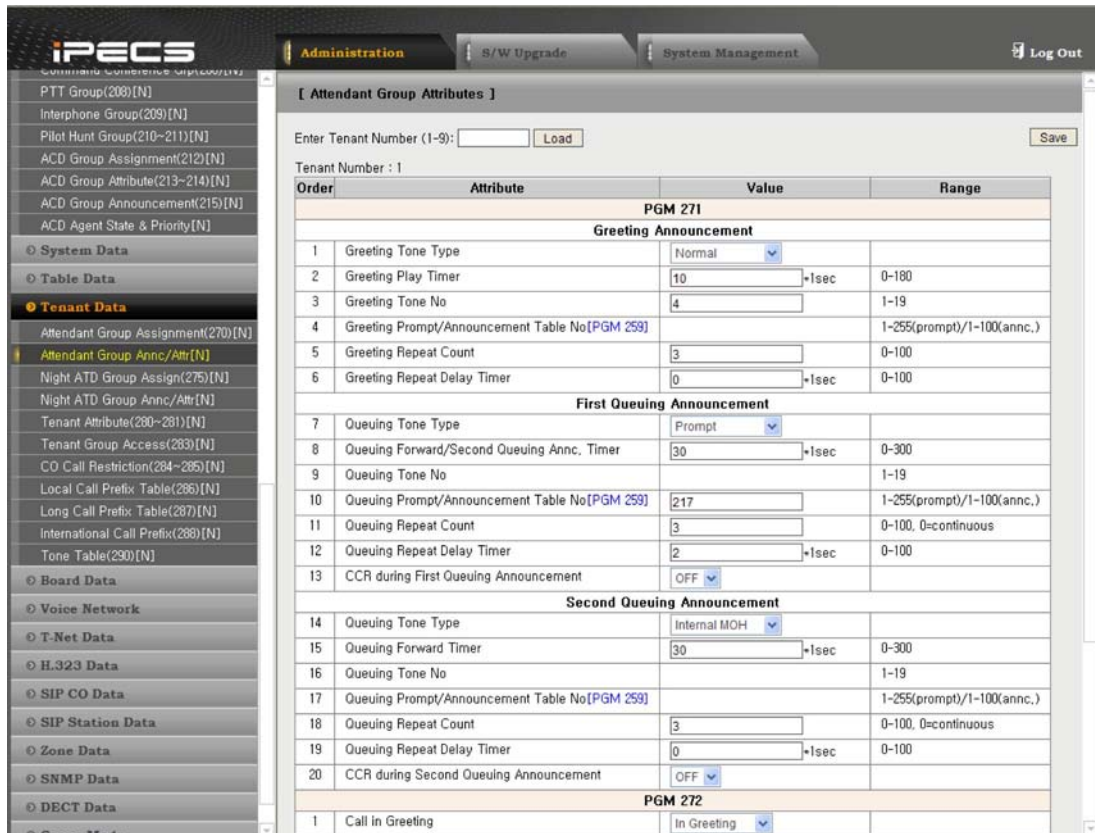

Figure 1.5.9.2-1 Attendant Group Attributes

Each attendant group has available attributes related to greeting and queuing announcements, timers, and also attributes related to announcements, timers, forward, etc. The following Table provides descriptions for the attributes.

Table 1.5.9.2-1 Attendant Group Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Greeting Tone Type	Determines the type of greeting tone.	Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5	Normal
Greeting Play Timer	Determines greeting play time.	000~180 (sec)	000
Greeting Tone No	Determines greeting tone number in case greeting type is normal.	01~19	NOT ASG
Greeting Prompt/ Announcement Table No (PGM 259)	Determines greeting prompt/annc number in case greeting type is PROMPT or ANNC.	001-255	NOT ASG
Greeting Repeat Count	Determines the number of times the Greeting will repeat, when greeting type is Prompt or Announcement. After greeting play time, greeting repeat will be stopped.	000-100	3
Greeting Repeat Delay Timer	Determines the Pause Timer before greeting is repeated, when greeting type is Prompt or Announcement.	000-100 (seconds)	0
Queuing Tone Type	Determines the type of queuing tone.	Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5	INT MOH
Queuing Forward/Second Queuing Annc. Timer	Determines queuing annc timer	0~300	30

Table 1.5.9.2-1 Attendant Group Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Queuing Tone No	Determines tone number in case queuing type is normal.	01~19	NOT ASG
Queuing Prompt/ Announcement Table No (PGM 259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Queuing Repeat Count	Determines the number of times the queuing will repeat, when queuing type is Prompt or Announcement. After greeting play time, greeting repeat will be stopped.	000-100 0: continuous	3
Queuing Repeat Delay Timer	Determines the Pause Timer before queuing is repeated, when queuing type is Prompt or Announcement.	000-100 (seconds)	0
CCR during First Queuing Announcement	This entry defines CCR option when queuing announcement is provided.	ON/OFF	OFF
Second Queuing Tone Type	Determines the type of queuing tone.	Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5	INT MOH
Queuing Forward/Second Queuing Annc. Timer	Determines queuing annc timer or the timer for forward destination.	000~300 (seconds)	30
Second Queuing Tone No	Determines tone number in case queuing type is normal.	01~19	NOT ASG
Second Queuing Prompt/ Announcement Table No (PGM 259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Second Queuing Repeat Count	Determines the number of times the second queuing will repeat, when second queuing type is Prompt or Announcement. After second greeting play time, greeting repeat will be stopped.	000-100 0: continuous	3

Table 1.5.9.2-1 Attendant Group Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Second Queuing Repeat Delay Timer	Determines the Pause Timer before second queuing is repeated, when second queuing type is Prompt or Announcement.	000-100 (seconds)	0
CCR during Second Queuing Announcement	This entry defines CCR option when queuing announcement is provided.	ON/OFF	OFF
Call In Greeting	Determines if a call is routed to attendant while greeting tone is played.	0. After Greeting 1. In Greeting	1
Max. Queue Count	Determines queue count.	00~99	05
Forward Type	Determines the forward type. 0. Not used 1. Unconditional: a call is routed to a forward destination unconditionally. 2. Queuing overflow: a call is routed to a forward destination when a queue is overflow. 3. Timeout: a call is routed to a forward destination when a forward timer expired. 4. All: a call is routed to a forward destination when a queue is overflow or Timeout timer is expired.	0. NOT USED 1. UNCOND 2. Q Overflow 3. Time out 4. All	NOT USED
Apply Time Type	Determines a time to apply forward type.	0. ALL 1. DAY 2. NIGHT 3. TIMED	ALL
Forward Destination	Determines a forward destination (trunk access code should be included).	Max. 16 digits	
Wrap-Up Timer	Determines the wrap up timer. A member becomes available when this timer expires after a member goes to idle.	000-600 (100ms)	5
Member No-Answer Timer	Determines length of the no answer timer. When this timer expires, a call is routed to the next attendant.	05-60 (seconds)	15
Attendant Call by Station Number	Determines attendant call by dialing attendant member. OFF: the call for attendant follows normal call. ON: the call for attendant follows attendant group call	ON/OFF	OFF
Ring No-Answer Forward Timer	This entry defines ring no answer timer. If this timer is expires, a call is routed to the forward destination according to forward type.	0-180 (seconds)	0
Provide Announcement with Answer	0: Provide Answer signal when attendant answer the call 1: Provide Answer signal when greeting or queuing tone is served	0: with answer 1: w/o answer	with answer
Ring Service for member in forward	This entry defines if system provides ring service when a member goes to forward state.	0: No ring 1: Ring to forwarded station	No ring

1.5.9.3 Night Attendant Group Assignment – PGM Code 275

Selecting Night ATD Group Assignment will display the page shown, Figure 1.5.9.3-1.

Figure 1.5.9.3-1 Night Attendant Group Assignment

Night Attendant Group covers a call while the Attendant station is in an unavailable mode or system goes to night mode. Stations can be grouped as night attendant group so that calls will search for an idle station in the night attendant group. The system allows assignment of processes, Circular, Terminal, Ring, and Longest Idle.

Table 1.5.9.3-1 Night Attendant Group Assignment

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Group Type	Determines the type of night Attendant group.	0: Terminal 1: Circular 2: Ring 3: Longest Idle	Terminal
Group Name	Determines the name of night attendant group.	Max. 16	-
Member	Assigns stations as members of a night attendant group.		First Station

1.5.9.4 Night Attendant Group Attributes – PGM Codes 276–277

Selecting Night ATD Group Attributes will display the page shown, Figure 1.5.9.4-1.

Figure 1.5.9.4-1 Night Attendant Group Attributes

Each night attendant group has available attributes related to greeting and queuing announcements, timers and attributes related to announcements, timers, forward, etc.

The following Table provides descriptions for the attributes.

Table 1.5.9.4-1 Night Attendant Group Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Greeting Tone Type	Determines the type of greeting tone.	Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5	Normal
Greeting Play Timer	Determines greeting play time.	000~180 (sec)	000
Greeting Tone No	Determines greeting tone number in case greeting type is normal.	01~19	NOT ASG
Greeting Prompt/ Announcement Table No (PGM 259)	Determines greeting prompt/annc number in case greeting type is PROMPT or ANNC.	001-255	NOT ASG
Greeting Repeat Count	Determines the number of times the Greeting will repeat, when greeting type is Prompt or Announcement. After greeting play time, greeting repeat will be stopped.	000-100	3
Greeting Repeat Delay Timer	Determines the Pause Timer before greeting is repeated, when greeting type is Prompt or Announcement.	000-100 (seconds)	0
Queuing Tone Type	Determines the type of queuing tone.	Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5	INT MOH
Queuing Forward/Second Queuing Annc. Timer	Determines queuing forward/second annc timer	0~300 (seconds)	30
Queuing Tone No	Determines tone number in case queuing type is normal.	01~19	NOT ASG

Table 1.5.9.4-1 Night Attendant Group Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Queuing Prompt/ Announcement Table No (PGM 259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Queuing Repeat Count	Determines queuing repeat number	000-100 0: continuous	3
Queuing Repeat Delay Timer	Determines the Pause Timer before queuing is repeated, when queuing type is Prompt or Announcement.	000-100 (seconds)	0
CCR during First Queuing Announcement	This entry defines CCR option when queuing announcement is provided.	ON/OFF	OFF
Second Queuing Tone Type	Determines the type of queuing tone.	Normal, Prompt, Annc, INT MOH, EXT MOH, VMIB MOH1, VMIB MOH2, VMIB MOH3, VMIB MOH4 (MG300 Only), SLT MOH1, SLT MOH2, SLT MOH3, SLT MOH4, SLT MOH5	INT MOH
Second Queuing Forward Timer	Determines the timer for forward destination.	000~300 (seconds)	30
Second Queuing Tone No	Determines tone number in case queuing type is normal.	01~19	NOT ASG
Second Queuing Prompt/ Announcement Table No (PGM 259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Second Queuing Repeat Count	Determines queuing repeat number	000-100 0: continuous	3
Second Queuing Repeat Delay Timer	Determines the pause timer before queuing repeat.	000-100 (seconds)	0
CCR during Second Queuing Announcement	This entry defines CCR option when queuing announcement is provided.	ON/OFF	OFF
Second CCR during First Queuing Announcement	This entry defines CCR option during queuing announcement is provided.	0-1	0
Call In Greeting	Determines if a call is routed to attendant while greeting tone is played.	0. After Greeting 1. In Greeting	In Greeting
Max. Queue Count	Determines queue count.	00~99	05

Table 1.5.9.4-1 Night Attendant Group Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Forward Type	Determines the forward type. 0. Not used 1. Unconditional: a call is routed to a forward destination unconditionally. 2. Queuing overflow: a call is routed to a forward destination when a queue is overflow. 3. Timeout: a call is routed to a forward destination when a timeout timer expired. 4. All: a call is routed to a forward destination when a queue is overflow or Timeout timer is expired.	0. NOT USED 1. UNCOND 2. Q Overflow 3. Time out 4. All	NOT USED
Apply Time Type	Determines a time to apply forward type.	0. ALL 1. DAY 2. NIGHT 3. TIMED	ALL
Forward Destination	Determines a forward destination (trunk access code should be included).	Max. 16 digits	
Wrap-Up Timer	Determines the wrap up timer. A member becomes available when this timer expires after a member goes to idle.	000-600 (100ms)	10
Member No-Answer Timer	Determines length of the no answer timer. When this timer expires, a call is routed to the next attendant.	05-60 (seconds)	15
Ring No-Answer Forward Timer	This entry defines ring no answer timer. If this timer is expires, a call is routed to the forward destination according to forward type.	0-180 (seconds)	0
Provide Announcement with Answer	This entry defines if system answer the call when a greeting or queuing announcement is provided.	0: with answer 1: w/o answer	with answer

1.5.9.5 Tenant Attributes – PGM Code 280–281

Selecting Tenant Attributes will display the page shown, Figure 1.5.9.5-1.
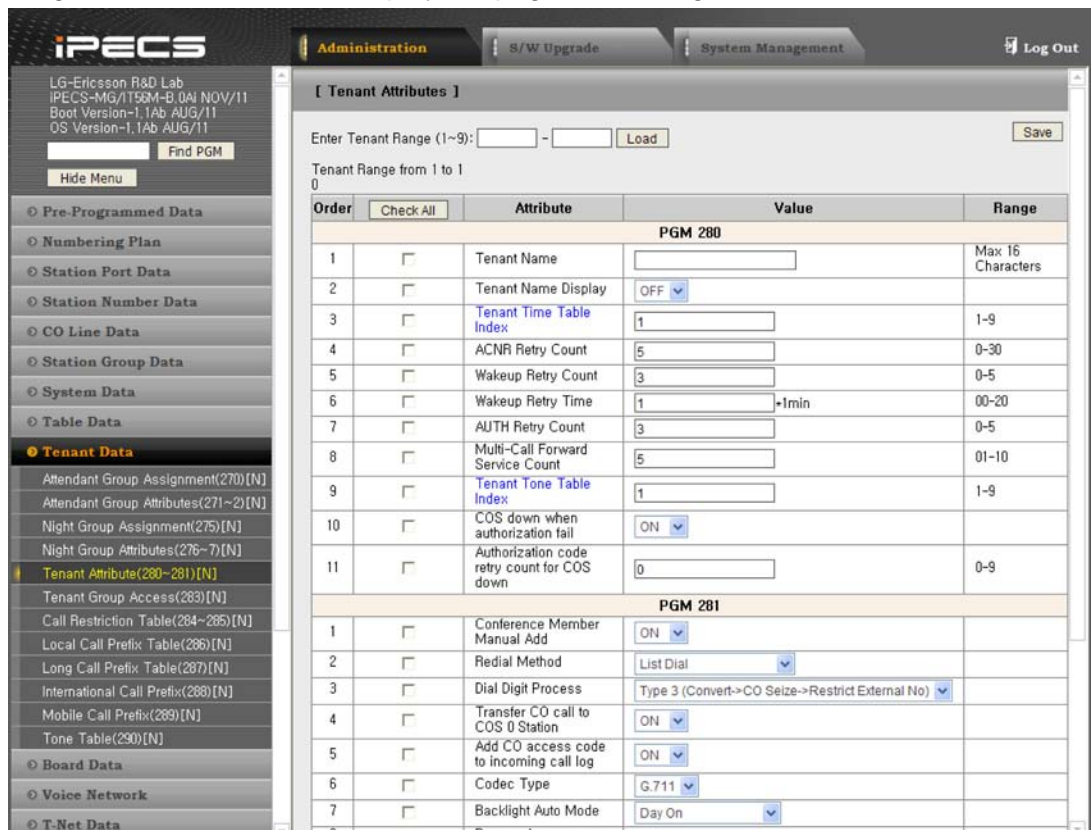

Figure 1.5.9.5-1 Tenant Attributes

One system can be divided as if it consists of several systems. Each station and CO line is assigned to a specific tenant group. Each tenant has available attributes related to Tenant Name, ACNR Retry Count, Wakeup, Authorization, etc.

Table 1.5.9.5-1 Tenant Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Tenant Name	Determines the name of Tenant.	Max. 16	
Tenant Name Display	Determines Tenant name display.	ON/OFF	OFF
Tenant Time Table Index	Time Table index of tenant group.	1-9	1
ACNR Retry Count	Determines ACNR retry count.	0-30	3
Wake Up Retry Count	Determines Wakeup retry count.	0-5	3
Wake Up Retry Time	Determines Wakeup retry time. (min)	00-20	01
Auth Retry Count	Determines Auth. retry count.	0-5	3
Multi-Call Forward Service Count	Determines Multi Call forward count.	01-10	05
Tone Table Index	Determines Tone Table index for a tenant	1−9	1
COS down when authorization fail	Determines the COS down when a authorization is failed	ON/OFF	ON
Authorization code fail count for COS down	Determines the Authorization cod fail count for COS down. Station COS can be changed to 0 after this count.	1−9	1
Conference Member Manual Add	Determines conf-member manual add. ON- CONF member will be added with CONF button. OFF- CONF member will be added automatically.	ON/OFF	ON
Redial Method	Determines the redial method when user presses **[REDIAL]** button. 0. ONE TOUCHES CALL: When **[REDIAL]** button is pressed, redialing is made. 1. ONE TOUCH LOG PHONE: When **[REDIAL]** button is pressed by phone with 3-soft buttons, redialing is made. If phone does not have 3-soft buttons, redial list is displayed. 2. LIST DIAL: When **[REDIAL]** button is pressed, redial list is displayed. User selects for redialing.	0: ONE TOUCHES CALL 1: ONE TOUCH LOG PHONE 2: LIST DIAL	LIST DIAL

Table 1.5.9.5-1 Tenant Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
Dial Digit Process	Determines the dial digit processing method. 0: TYPE 1(R-C-S): If user dials digits, digits are processed as indicated. 1) APPLY TOLL RESTRICTION to all digits including CO access code. 2) CONVERTED 3) SEIZE CO LINE 1: TYPE 2(C-S-R[A]): If user dials digits, digit are processed as indicated. 1) CONVERTED 2) SEIZE CO LINE 3) APPLY TOLL RESTRICTION to all digits including CO access code. 2: TYPE 3(C-S-R[E]): If user dials digits, digit are processed as indicated. 1) CONVERTED 2) SEIZE CO LINE 3) APPLY TOLL RESTRICTION to external telephone number	0: TYPE 1 1: TYPE 2 2: TYPE 3	TYPE 3
Transfer CO call to COS 0 Station	Determines Transfer CO call to COS 0 Station.	ON/OFF	ON
Add CO access code to incoming call log	Determines Add CO access code to incoming call log.	ON/OFF	ON
Codec Type	Determines Codec Type(related to Zone Attribute(PGM 395) Codec Type).	G.711 G.723 G.729 G.722	G.711
Backlight Auto Mode	This entry allows backlight option of LIP Phone with ring mode	0: All Off 1: Day On 2: Night On 3: Timed On 4: D/N On 5: D/T On 6: N/T On 7: All On	Day On
Emergency CO Usage	When emergency call is activated, assigned CO line can be seized forcibly.	0: OFF 1: ON	OFF
Hold Preference	Determines Hold Preference for each tenant.	0: System Hold 1: Exclusive Hold	System Hold
Add CO Access code in App. Call Log	Determines if CO access code is added in call log of application such as UCS Client, Phontage.	0: OFF 1: ON	ON
Reserved			

Table 1.5.9.5-1 Tenant Attributes

ATTRIBUTE/ DISPLAY	DESCRIPTION	RANGE	DEFAULT
OffNet Call Forward Tone (Normal CO/Digital-R2 Type)	Determines if system provides Off Net Call forward tone when a call is forwarded to off net.	0: No Tone 1. No Tone, Tone 2.No Tone, After 3.Tone, No Tone 4.Tone, Tone 5.Tone, After 6.After, No Tone 7.After Tone 8.After, After	No Tone
DID Called Number Display	서정원 C		
Allow the First # Digit in CO Call	This entry allows first digit # in outgoing CO call.	0: OFF 1: ON	OFF

1.5.9.6 Tenant Group Access – PGM Code 283

Selecting Tenant Group Access will display the page shown, Figure 1.5.9.6-1.
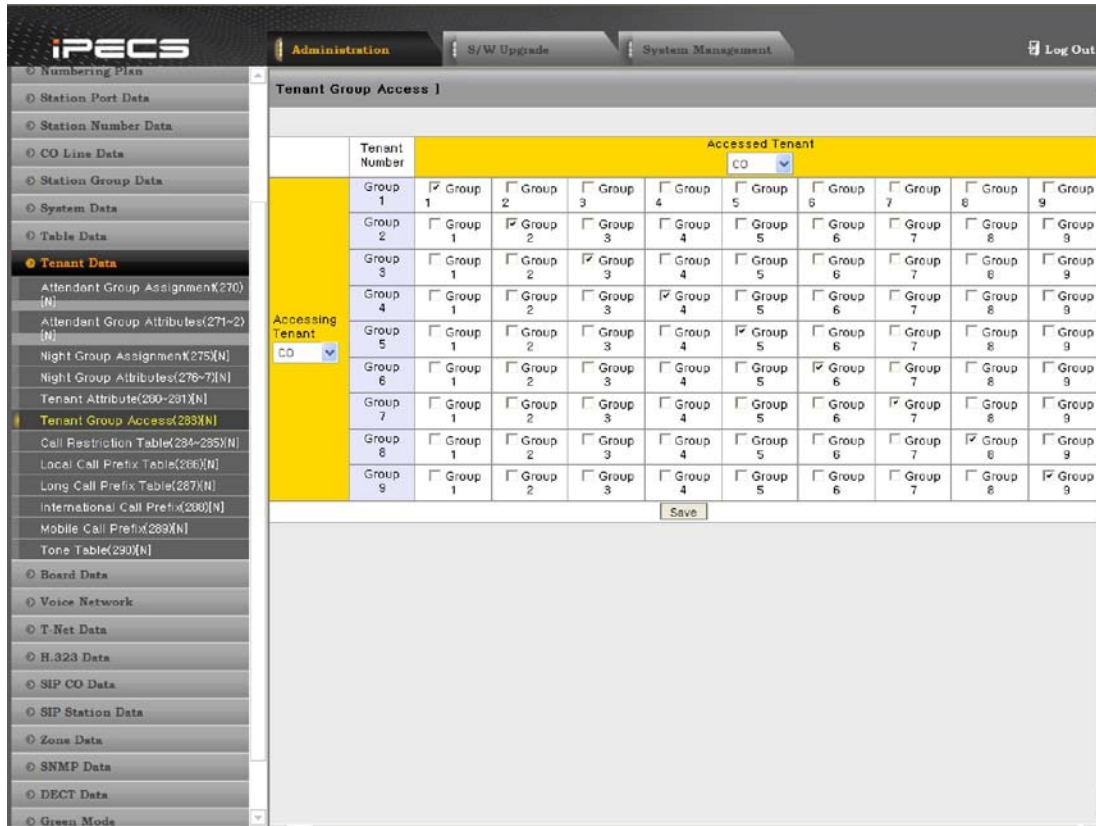
Figure 1.5.9.6-1 Tenant Group Access

Stations in a group are allowed or denied access to place intercom/CO calls to stations in other groups on a group-by-group basis.

1.5.9.7 Call Restriction – PGM Codes 284–285

Selecting Call Restriction will display the page shown, Figure 1.5.9.7-1.
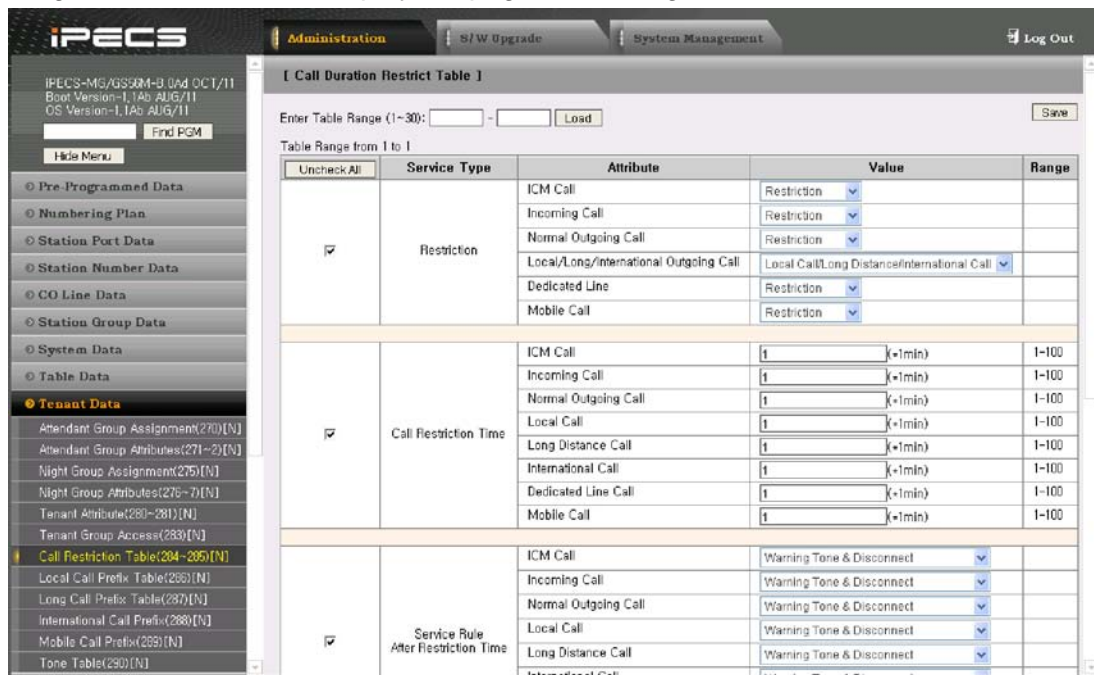
Figure 1.5.9.7-1 Call Duration Restrict Attributes

The Call Time Restriction can be applied differently according to Call types (ICM, Incoming, Normal Outgoing, Mobile, Local, Long Distance or International Call)

30 Restriction Table can be served for every station and every station can be assigned for reference one of restriction table. Each restriction table has restriction rule about ICM, Incoming, Normal Outgoing, Mobile, Local, Long Distance or International Call and about dedicated CO line.

Table 1.5.9.7-1 Call Duration Restriction

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Restriction (ICM Call)	Determines the call restriction for Internal Call.	No restriction, Restriction	No restriction
Restriction (Incoming Call)	Determines the call restriction for Incoming Call.	No restriction, Restriction	No restriction
Restriction (Normal Outgoing Call)	Determines the call restriction for Normal Outgoing Call. (Normal Outgoing Call means not Prefix Outgoing Call and not Mobile Outgoing Call)	No restriction, Restriction	No restriction
Restriction (Prefix Outgoing Call)	Determines restriction of Normal CO line.	No restriction, All call, Long/International call, International call	No restriction
Restriction (Dedicated CO Line)	Determines restriction of TIE line.	No restriction, Restriction	No restriction

Table 1.5.9.7-1 Call Duration Restriction

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Restriction (Mobile Call)	Determines the call restriction for Outgoing Call with defined Mobile Number.	No restriction, Restriction	No restriction
Call Restriction Time (ICM Call)	Determines the Restriction timer of Internal calls.	001–100	003
Call Restriction Time (Incoming Call)	Determines the Restriction timer of Incoming calls.	001–100	003
Call Restriction Time (Normal Outgoing Call)	Determines the Restriction timer of Outgoing calls.	001–100	003
Call Restriction Time (Local Call)	Determines the Restriction timer of Local calls.	001–100	003
Call Restriction Time (Long Call)	Determines the Restriction timer of Long Distance calls.	001–100	003
Call Restriction Time (International Call)	Determines the Restriction timer of International calls.	001–100	003
Call Restriction Time (Dedicated Line Call)	Determines the Restriction timer of Dedicated Line calls.	001–100	003
Call Restriction Time (Mobile Call)	Determines the Restriction timer of Mobile calls.	001–100	003
Service Rule After Restriction Time (ICM Call)	Determines the operation of Internal calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop
Service Rule After Restriction Time (Incoming Call)	Determines the operation of Incoming calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop
Service Rule After Restriction Time (Local Call)	Determines the operation of Normal Outgoing calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop
Service Rule After Restriction Time (Local Call)	Determines the operation of Local calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop
Service Rule After Restriction Time (Long Distance Call)	Determines the operation of Long Distance calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop
Service Rule After Restriction Time (International Call)	Determines the operation of International calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop

Table 1.5.9.7-1 Call Duration Restriction

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Service Rule After Restriction Time (Dedicated Line Call)	Determines the operation of TIE calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop
Service Rule After Restriction Time (Mobile Call)	Determines the operation of Mobile calls after the Restriction timer expires.	0: Single tone 1: Repeat tone 2: Warning tone & Drop	Warning tone & Drop
Warning Tone Service Time before Line Disconnection (ICM Call)	Determines entry defines Disconnect timer of Internal calls.	10–60	15
Warning Tone Service Time before Line Disconnection (Incoming Call)	Determines entry defines Disconnect timer of Incoming calls.	10–60	15
Warning Tone Service Time before Line Disconnection (Normal Outgoing Call)	Determines entry defines Disconnect timer of Outgoing calls.	10–60	15
Warning Tone Service Time before Line Disconnection (Local Call)	Determines entry defines Disconnect timer of Local calls.	10–60	15
Warning Tone Service Time before Line Disconnection (Long Call)	Determines the disconnect timer of Long Distance calls.	10–60	15
Warning Tone Service Time before Line Disconnection (International Call)	Determines the Disconnect timer of International calls.	10–60	15
Warning Tone Service Time before Line Disconnection (Dedicated Line Call)	Determines the Disconnect timer of Dedicated Line calls.	10–60	15
Warning Tone Service Time before Line Disconnection (Mobile Call)	Determines entry defines Disconnect timer of Mobile calls.	10–60	15
Repeat Tone Interval Time (ICM Call)	Determines the Tone Repeat timer of Internal calls.	010–254	020
Repeat Tone Interval Time (Incoming Call)	Determines the Tone Repeat timer of Incoming calls.	010–254	020
Repeat Tone Interval Time (Normal Outgoing Call)	Determines the Tone Repeat timer of Normal Outgoing calls.	010–254	020

Table 1.5.9.7-1 Call Duration Restriction

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Repeat Tone Interval Time (Local Call)	Determines the Tone Repeat timer of Local calls.	010–254	020
Repeat Tone Interval Time (Long Call)	Determines the Tone Repeat timer of Long Distance calls.	010–254	020
Repeat Tone Interval Time (International Call)	Determines the Tone Repeat timer of International calls.	010–254	020
Repeat Tone Interval Time (Dedicated Line Call)	Determines the Repeat timer of Dedicated Line calls.	010–254	020
Repeat Tone Interval Time (Mobile Call)	Determines the Tone Repeat timer of Mobile calls.	010–254	020

1.5.9.8 Local Call Prefix Tables – PGM Code 286

Selecting Local Call Prefix Table will display the page shown, Figure 1.5.9.8-1.
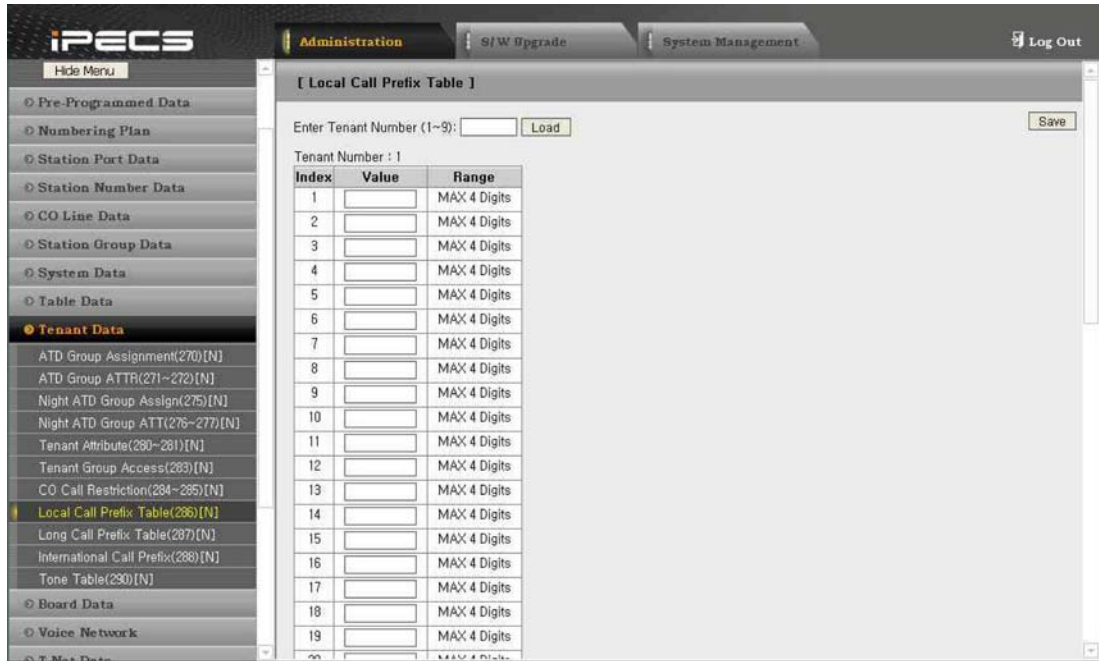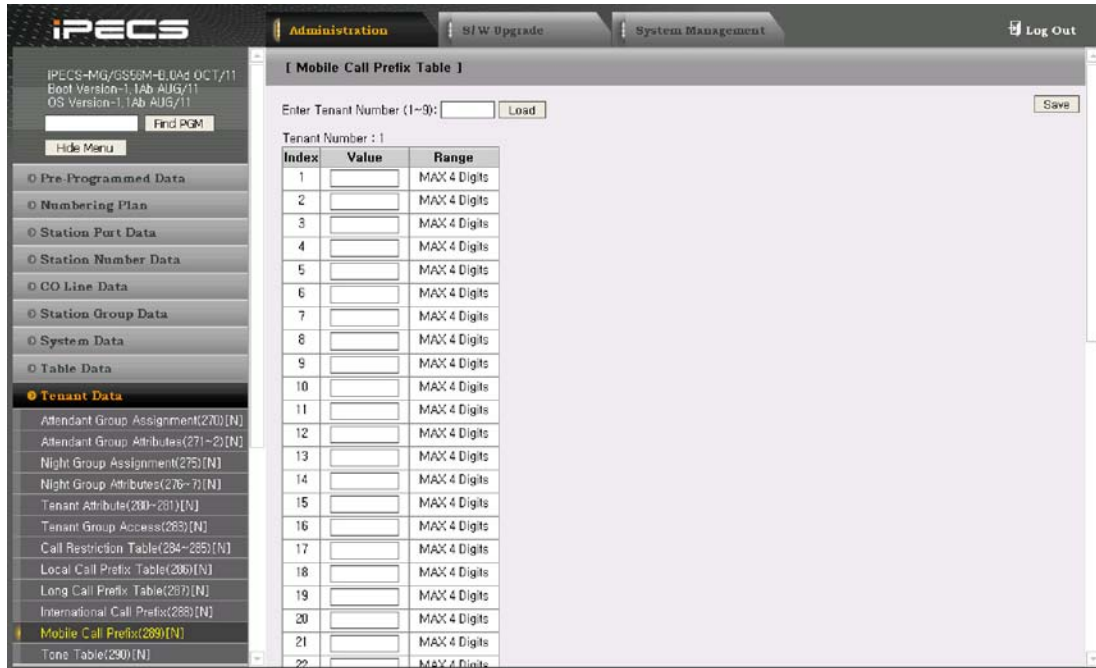

Figure 1.5.9.8-1 Local Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.9 Long Distance Call Prefix Tables – PGM Code 287

Selecting Long Call Prefix Table will display the Tenant page shown, Figure 1.5.9.9-1.
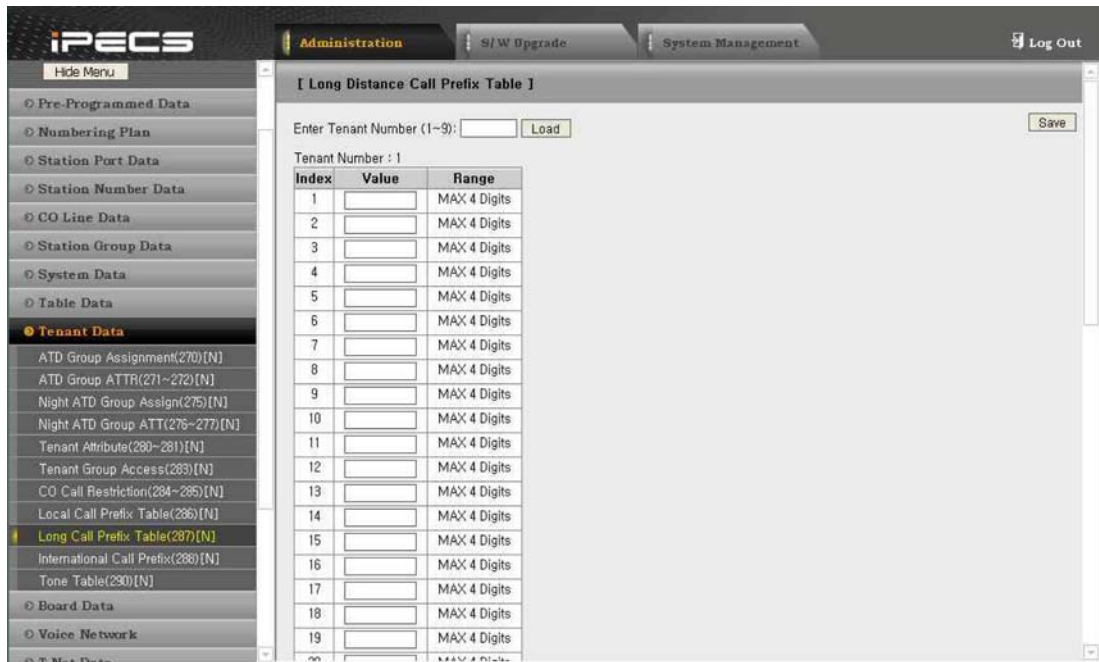
Figure 1.5.9.9-1 Long Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.10 International Call Prefix Tables – PGM Code 288

Selecting International Call Prefix Table will display the page shown, Figure 1.5.9.10-1.
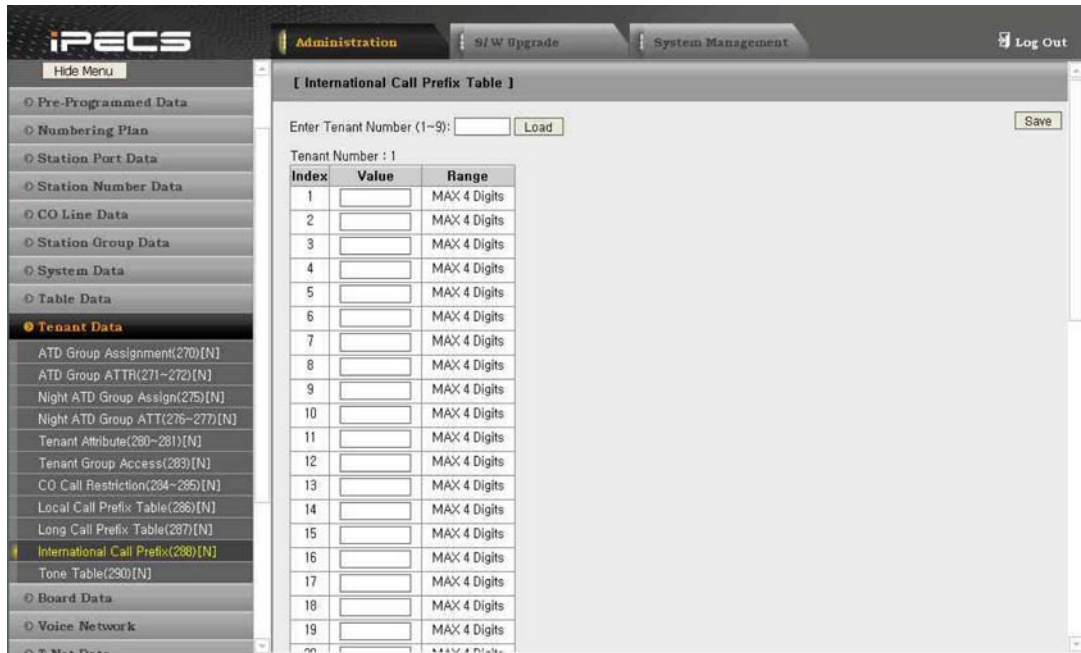
Figure 1.5.9.10-1 International Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.11 Mobile Call Prefix Tables – PGM Code 289

Selecting Mobile Call Prefix Table will display the page shown, Figure 1.5.9.11-1.

Figure 1.5.9.10-1 Mobile Call Prefix Table

The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table.

1.5.9.12 Tone Tables – PGM Code 290

Selecting Tone Table will display the page shown, Figure 1.5.9.12-1.
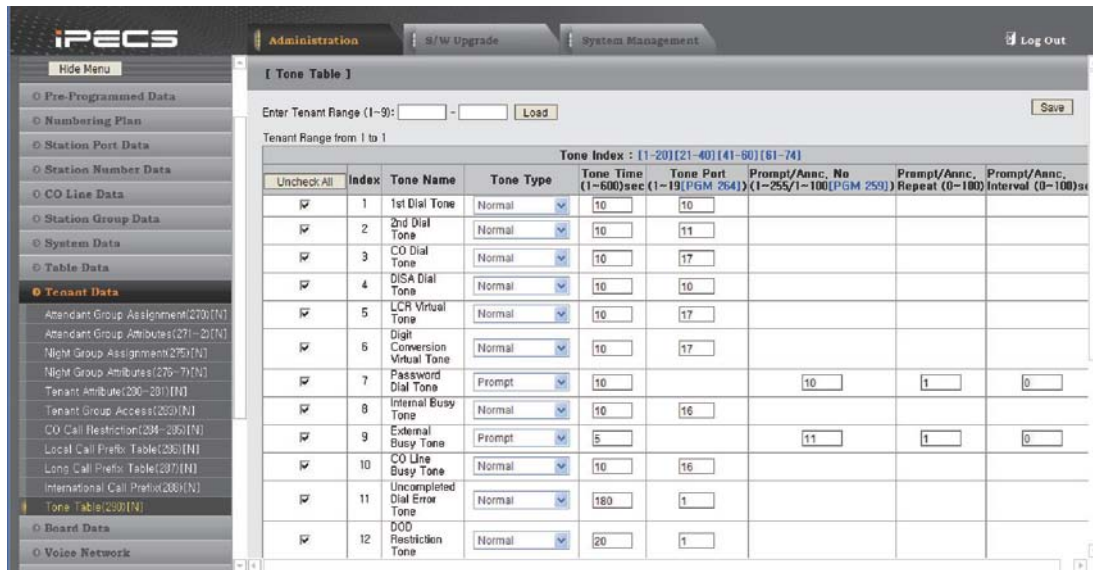
Figure 1.5.9.12-1 Tone Table

The system provides 78 tone types. Each tone may be assigned as normal tone, VMIB prompt/Announcement or internal/external music

Table 1.5.9.12-1 Tone Table

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Tone Type	The Tone type	01: Normal Tone 02: VMIB Prompt 03: VMIB Announcement 04: Internal MOH 05: External MOH 06-09: VMIB MOH 1/2/3/4 10-14: SLT MOH 1-5 15: Not Use	
Tone Time	Determines the amount of time the tone is provided.	0-600	
Tone Port	The Tone port index of PGM 264. The cadence of tone port may be changed by web-admin.	1-19	
Prompt/Announcement No.	The VMIB Prompt or Announcement number [PGM 259] when tone type is VMIB Prompt or announcement.	1-255	
Prompt / Announcement Repeat number	The VMIB Prompt or Announcement Repeat number when tone type is VMIB Prompt or announcement.	0-100	
Prompt / Announcement Interval	The VMIB Prompt or Announcement Repeat interval when VMIB Prompt or announcement. Repeat is assigned.	0-100	

Table 1.5.9.12-2 Tone Index Table

INDEX	TONE NAME	DESCRIPTION
1	1st Dial Tone	This is provided when station goes off-hook.
2	2nd Dial Tone	This is provided when station presses **[TRANS]** button during conversation to transfer the call.
3	CO Dial Tone	This is provided to transit CO line if he accesses CO line which does not provide CO Dial Tone.
4	DISA Dial Tone	This is provided to external caller through DISA.
5	LCR Virtual Tone	Reserved
6	Digit Conversion Virtual Tone	This is provided when station dials 'Dummy Dial-Tone Digit' in PGM 240.
7	Password Dial Tone	This is provided when station dials conference room number having password.
8	Internal Busy Tone	This is provided to external caller through DID/DISA when he calls the busy station.
9	External Busy Tone	This is provided when station makes an external call to telephone in use.
10	CO Line Busy Tone	This is provided to station when there is no idle CO line.
11	Uncompleted Dial Error Tone	This is provided when station does not dial within inter-digit timer during dialing.
12	DOD Restriction Tone	This is provided when station dials the toll restriction digits.
13	Internal No-Answer Tone	This is provided when the called station does not answer within 'Normal Call Ring Time' of Ring Table.
14	External No-Answer Tone	This is provided when the called external user does not answer.
15	Internal Vacant Error Tone	This is provided when stations calls vacant number.
16	External Vacant Error one	This is provided when stations calls vacant external telephone number.
17	Call Duration Restriction Tone	Reserved
18	Anonymous Call Restriction Tone	Reserved
19	Error Tone (All the other cases)	This is provided in all error cases
20	Relative Blocking	This is provided when station calls the blocked station.
21	Relative Line Lock Out	This is provided when station calls station hearing howling tone
22	Relative Do Not Disturb	This is provided when station calls station in DND.
23	Relative Absence	Reserved
24	Relative Out of Order	Reserved
25	External Relative Out of Order	Reserved
26	External Relative Outgoing Restriction	Reserved
27	Relative Hot Desk Logout	Reserved
28	Howling Tone	This is provided after error tone.
29	1st Ring Back Tone	This is provided when station calls another station.

Table 1.5.9.12-2 Tone Index Table

INDEX	TONE NAME	DESCRIPTION
30	2nd Ring Back Tone	Reserved
31	CO Ring Back Tone	This is provided to external caller if the incoming call is routed to the destination. And it is provided when station calls external call through CO line with 'Provided Ring Back Tone' in PGM 171.
32	Recall Ring Back Tone	Reserved
33	Zone Paging Call Ring Back Tone	This is provided when station makes a paging.
34	Command Call Ring Back Tone	This is provided when station makes a command conference group call.
35	Alert Message Wait	This is provided when station goes off hook if message is left.
36	Alert Do not Disturb	This is provided when station goes off hook if DND is set.
37	Alert Call Forward	This is provided when station goes off hook if Call Forward is set.
38	Alert Absence	This is provided when station goes off hook if pre-selected message is set.
39	Camp on Alarm	This is provided to station if camp-on is requested.
40	Conference Alarm	This is provided to station if station makes conference call.
41	Conference Join	This is provided when station adds conference member.
42	Call Wait Alarm	This is provided to station if call-wait is requested.
43	Break In Alarm	Reserved
44	Conference Room In	This is provided when station enters conference room.
45	Conference Room Out	This is provided when conference member is deleted.
46	Call Duration Restriction Alarm	This is provided to station with CDR disconnection indication before the forced disconnection.
47	Confirm Tone	This is confirmation tone.
48	Single Error Tone	This is provided when stains dials wrong input during programming.
49	Transfer Hold Tone	This is provided to the external user when he is transferred.
50	Transfer Hold Tone (Station)	This is provided to the station when he is transferred.
51	Camp On Hold Tone (CO)	This is provided to the external user when using camp on.
52	Camp On Hold Tone (Station)	This is provided to the station when he is camped on.
53	Call Wait Hold Tone (CO)	This is provided to the external user when he is waited
54	Call Wait Hold Tone (Station)	This is provided to the station when he is waited.
55	Normal Hold Tone (CO)	This is provided to the external user in hold.
56	Normal Hold Tone (Station)	This is provided to station in hold.
57	Normal Hold Tone (Attendant)	Reserved

Table 1.5.9.12-2 Tone Index Table

INDEX	TONE NAME	DESCRIPTION
58	Call Park Hold Tone	This is provided to the external user in parked.
59	Call Park Hold Tone (Station)	This is provided to the station in parked.
60	IC Auto Hold Tone	This is provided when conference member is held.
61	IC Auto Hold Tone (Attendant)	Reserved
62	Command Call Answer Tone	Reserved
63	R2 Normal Outgoing Tone	Reserved
64	R2 Off-net Call Forward Tone	Reserved
65	Wake-up Answer Tone	This is provided when station answers wake-up ring.
66	Service Set Tone	This is provided when station sets programming.
67	DISA Retry Tone	This is provided as DISA retry tone when external user dials wrong digits.
68	ICLID Restrict Tone	Reserved
69	Auto Call Answer Alert Tone	This is provided when station is connected with handsfree.
70	VM Interaction Confirm Tone	This is provided when station records his call through USB module.
71	Authorization Code Dial Tone	This is provided when station is requested auth code dial at the call forward assign, walking co and so on.
72	Tenant Dial Tone	Reserved
73	Two-way Record Warning Tone	This is provided to the associate party when station starts call recording.
74	TIE Line Ring Back Tone	This is provided when an outgoing call is made through TIE lines.
75	LCM Traffic Over Tone	This is provided when LCM traffic overflows its maximum.
76	Screened Transfer Alert Tone	This is provided to the associate parties when screened transfer is completed.
77	SMonitor Record Waning Tone	This is provided to the associate parties when silent monitor feature is started
78	Wireless Station Searching Tone	When a DECT station is called, the caller will hear this tone until the called station is found.

1.5.10 Board Data

Selecting the Board Data program group returns the sub-menu displayed in Figure 1.5.10-1.

Figure 1.5.10-1 Board Data Main Page

1.5.10.1 ISDN Board Attribute – PGM Code 300

Selecting ISDN Board Attributes will display the page shown, Figure 1.5.10.1-1.

Figure 1.5.10.1-1 ISDN/Digital Board Attribute

PRIB, BRIB, E1R2 boards have the following attributes which can be programmed using the Web Admin.

Table 1.5.10.1-1 ISDN Board Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PRIB/T1 CRC Check	Enable CRC check of PRIB.	Disable / Enable	Enable
PRIB/T1 Line Mode	NT/ TE mode of PRIB; after changing mode, the board is automatically restarted.	TE / NT	TE
BRIB TEI Mode	TEI mode of BRIB Port 1/2/3/4	Fixed / Auto	Auto
BRIB Reference Clock	Reference Clock of BRIB Port 1/2/3/4	Use/Not Use	Use
T1 Mode	T1 Mode (D4/ESF)	D4 ESF	D4
T1 Line Mode	T1 Line Mode (B8ZS/AMI)	0: B8ZS 1: AMI	B8ZS
T1 Pause Time	T1 Pause Time (100 msec)	1-9	2
T1 PLS Rate	T1 PLS Rate	0: 10PPS 60/40 1: 10PPS 66/33 2: 20PPS 60/40 3: 20PPS 66/33	10PPS 60/40
T1 Release Guard Time	T1 release guard time (100 msec)	1-60	20
T1 DT Delay Time	T1 DT Delay time (100 msec)	2-50	10
T1 Wink Time	T1 Wink time (20 msec)	7-15	10
T1 Seize Time	T1 seize time (20 msec)	0-127	3
T1 Release Time	T1 release time (20 msec)	0-127	7
T1 Ring Detect Time	T1 ring detect time (100 msec)	2-9	2
T1 Ring Stop Time	T1 ring stop time (100 msec)	10-60	60

1.5.10.2 ISDN Board Clock Priority – PGM Code 301

Selecting ISDN Board Clock Priority Attributes will display the page, Figure 1.5.10.2-1.

Figure 1.5.10.2-1 ISDN Clock Priority

In the iPECS-MG system, clock synchronization is controlled by the pre-programmed ISDN clock priority. The first ISDN board becomes clock master board and if an error occurs to clock master board, the next board takes on the role as a master clock.

After original master board is recovered, clock master board is changed again. If there is no available ISDN board to become a clock master board, the system is synchronized with internal clock.

1.5.10.3 VOIB/VMIB Board Attribute – PGM Code 305

Selecting VOIB/VMIB Attributes will display the page shown, Figure 1.5.10.3-1.
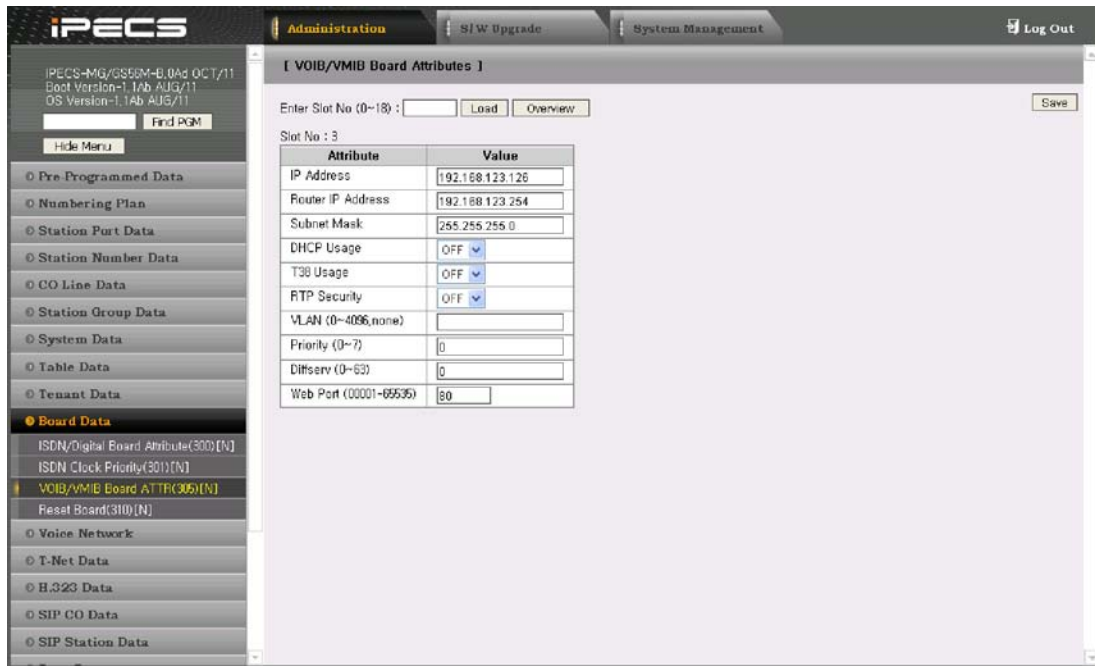
Figure 1.5.10.3-1 VOIB/VMIB Attributes

Table 1.5.10.3-1 VOIB/VMIB Board Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
IP Address	IP Address of selected slot.	IP Address	10. 10. 10. # (# : slot number)
Router IP Address	Router IP Address of selected slot.	IP Address	0.0.0.0
Subnet Mask	Subnet Mask of selected slot.	IP Address	255.255.255.0
DHCP Usage	DHCP Usage.	OFF/ON	OFF
T38 Usage	T38 Usage.	OFF/ON	OFF
RTP Security	RTP Security Usage.	OFF/ON	OFF
VLAN	Determines VLAN value.	0-4096, none	none
Priority	Determines Priority value.	0-7	0
Diffserv	Determines Diffserv.	0-63	0
WEB Port	WEB Page Port Number for VMIB. (When Selected Slot is VMIB, WEB Port menu will be displayed.)	00001-65535	80

1.5.10.4 Reset Board – PGM Code 310

Each board in the system can be reset with this menu.
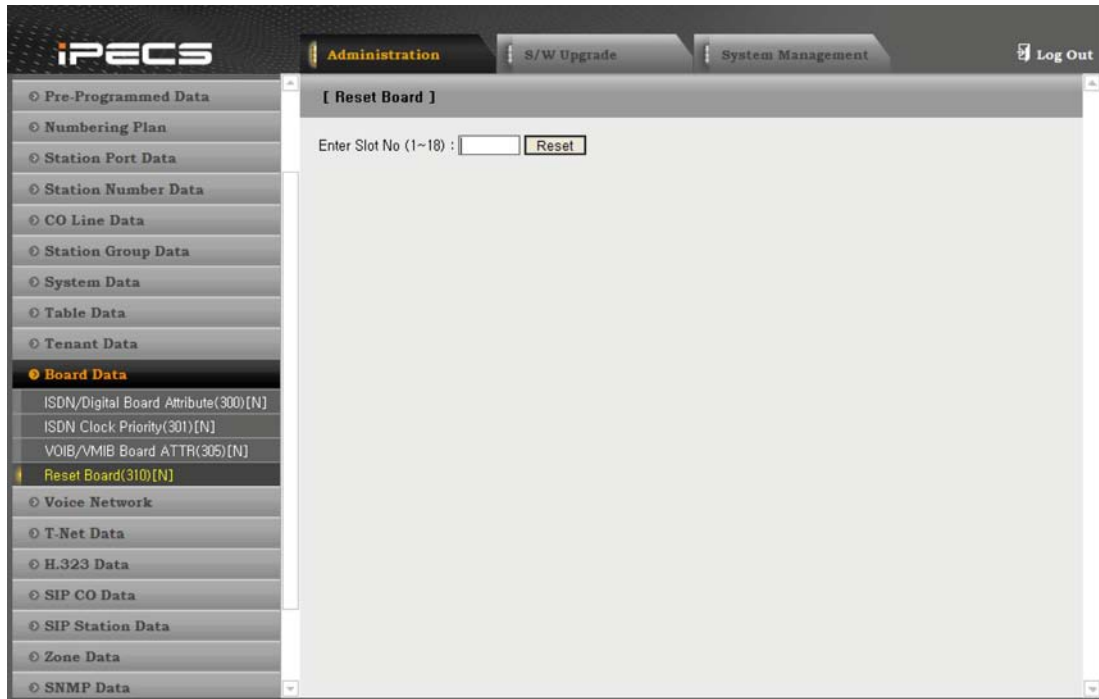
Figure 1.5.10.4-1 Reset Board

1.5.11 Networking Data

Selecting the Networking Data program group returns the sub-menu displayed,

Figure 1.5.11-1.

Figure 1.5.11-1 Networking Data Main Page

1.5.11.1 Net Basic Attribute – PGM Code 320

Selecting Network Basic Attributes will display the page shown, Figure 1.5.11.1-1.
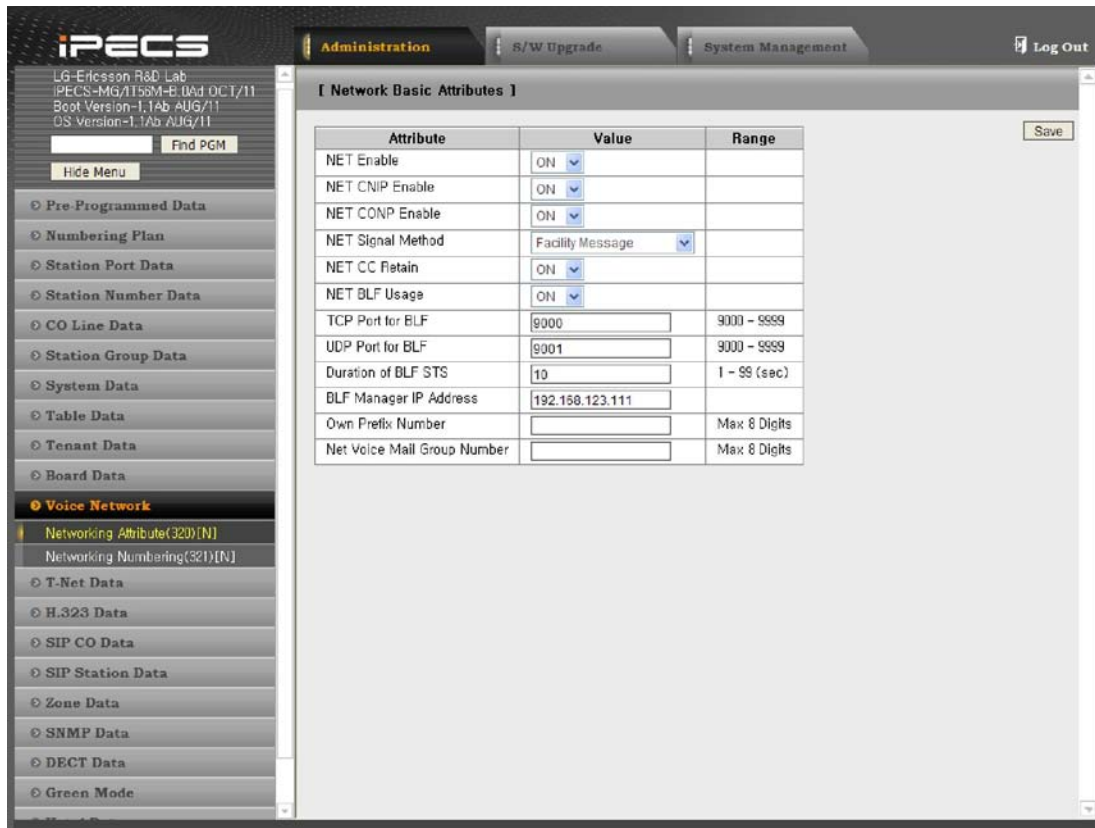
Figure 1.5.11.1-1 Networking Attributes

Table 1.5.11.1-1 Network Basic Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
NET Enable	Enables Networking function.	OFF/ON	OFF
NET CNIP Enable	The name of calling station is sent to the called system between iPECS systems. CNIP is displayed at called party stations display based on the programming.	OFF/ON	ON
NET CONP Enable	The name of calling station is sent to the called system between ipLDK systems. CNIP is displayed on the called party station LCD according to ADMIN programming. If the CNIP and CLI are received together, CNIP is prior to CLI.	OFF/ON	OFF
NET Signal Method	Select the information element type for QSIG supplementary service message.	OFF/ON	FACILITY
NET CC Retain	If this value is set to ON, the networking supplementary signaling of call completion retain mode is executed.	OFF/ON	OFF
NET BLF Usage	Used to set Networking BLF service	OFF/ON	OFF

Table 1.5.11.1-1 Network Basic Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
TCP Port for BLF	Used to set the TCP port for BLF messaging.	9000-9999	9000
UDP Port for BLF	Used to set the UDP port for BLF messaging.	9000-9999	9001
Duration of BLF STS	Used to set the duration of BLF status messaging.	01-99	10
BLF Manager IP Address	Used to set the IP Address for the BLF manager. IP Address of BLF Server used only when iPECS-MG is configured with LDK/iPECS systems for Voice Networking (Reserved).		0. 0. 0. 0
Own Prefix Number	Assign Prefix Number for networking numbering plan of own system		Max 8 digits
Net Voice Mail Group Number	Assign Centralized Voice Mail Group number to support VM MWI		Max 8 digits

1.5.11.2 Net Numbering Plan Table – PGM Code 321

Selecting Network Numbering Plan Table will display the page shown, Figure 1.5.11.2-1.
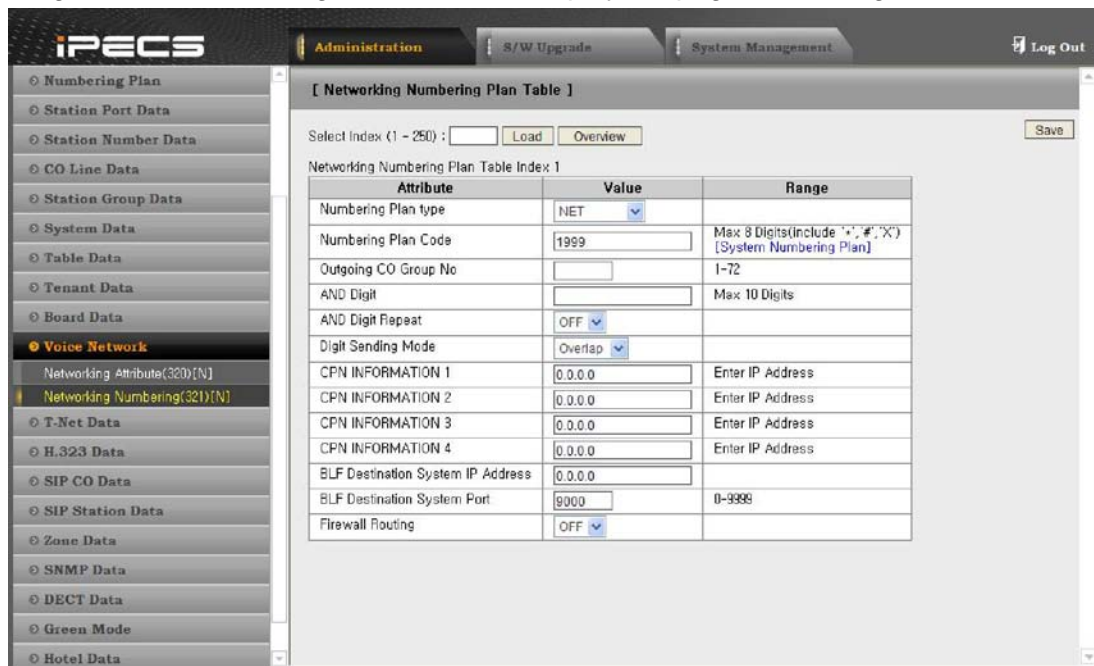
Figure 1.5.11.2-1 Networking Numbering

Table 1.5.11.2-1 Network Numbering Plan

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Numbering Plan Type	Used to set the networking numbering plan type of the selected table entries.	NET / TRANSIT	NET
Numbering Plan Code	Used to set the networking number code of the selected table entries. 'X' means any digits can be inserted between 0-9. (Select 'MUTE" button for input 'X".)	8digits	
Outgoing CO Group No	Used to select the CO line group for routing networking calls.	01-72	
AND digit	This AND digits added when Digit Repeat option is ON.	10 digits	
AND Digit Repeat	When the number plan code (Flex 2) is for PSTN call or transit-call, this number code can be enveloped in SETUP message if set to ON.	ON/OFF	OFF
Digit Sending Mode	Used to set the digit sending mode(Overlap or Enblock) of the selected table entries.	Enblock / Overlap	Overlap
CPN Information 1-4	CPN information for ISDN, IP address for VOIP (CPN info 1-CPN info 4).		
Destination System IP Address	IP address of destination system used only when iPECS-MG is configured with LDK/iPECS systems for Voice Networking.		0.0.0.0

Table 1.5.11.2-1 Network Numbering Plan

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Destination System Port	Used to set the UDP port for sending the message such as DECT mobility to destination system.	0-9999	9000
Firewall Routing	This ADMIN program determines that this table is local network or different network. Select IP address (Firewall IP address or Non-firewall IP address); if the destination system is in same VPN then Non-firewall IP address should be sent. ON: Send firewall IP address OFF: Send Non-firewall(Internal) IP address	OFF/ON	ON

1.5.12 T-Net Data

Selecting the TNET Data program group returns the sub-menu displayed in Figure 1.5.12-1.

Figure 1.5.12-1 T-Net Data

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

1.5.12.1 T-Net Attribute – PGM Code 330

Selecting T-Net Attributes will display the page shown, Figure 1.5.12.1-1.
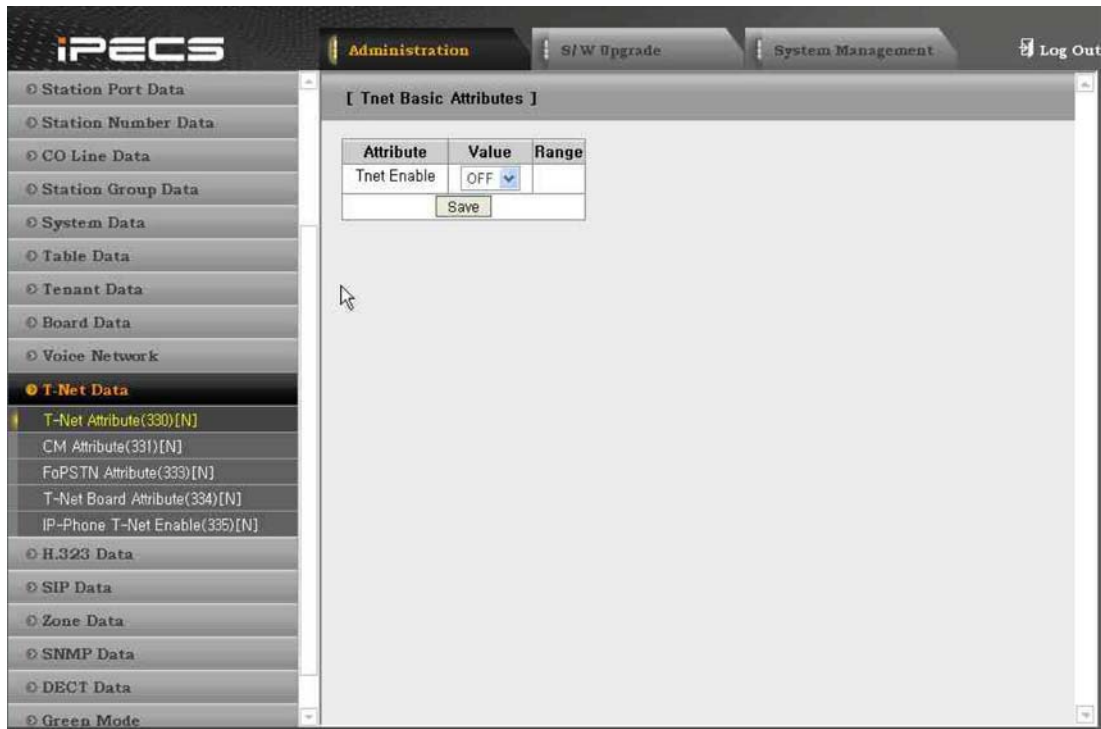
Figure 1.5.12.1-1 T-Net Attribute

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

1.5.12.2 CM Attribute – PGM Code 331

Selecting CM Attributes will display the page shown, Figure 1.5.12.2-1.

Figure 1.5.12.2-1 CM Attributes

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

Table 1.5.12.2-1 CM Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
Register Enable	Sets the LM to attempt registration with the CM. This field must be set to ON for proper registration.	0: OFF 1: ON	ON
IP Address	Determines the IP address of the CM used by the LM.	IPv4 address	0. 0. 0. 0
IPKTS Port number	In the TNET environment, the IP KTS protocol signaling UDP port is defined (do not change from default).	0001- 9999	5588
Total no of ports	Determines 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
Polling Count	Determines the maximum polling failures an LM considers a WAN fault.	00-99	05
Polling Interval	Determines the interval time between LM to CM polling attempts.	00-99	02

1.5.12.3 FoPSTN Attribute – PGM Code 333

Selecting FoPSTN table will display the page shown, Figure 1.5.12.3-1.
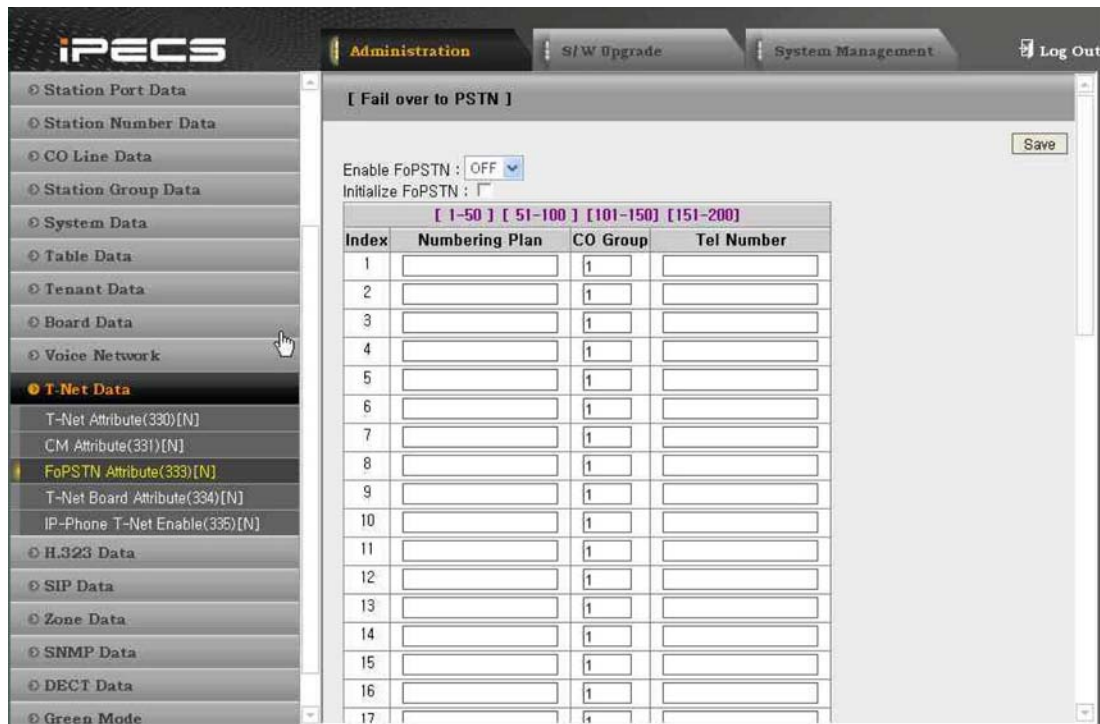
Figure 1.5.12.3-1 FoPSTN Attributes

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 Module 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 telephone number with the station number dialed as the trailing digits.

Table 1.5.12.3-1 FoPSTN Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
Enable FoPSTN	This field is used to enable or disable Fail-over operation from the CM or LM.	0: OFF 1: ON	OFF
Initialize FoPSTN	Initializes the FO table.		
Index		1-100(MG-100) 1-200(MG-300)	
Numbering Plan	Station numbers associated with the remote system.	Max. 16	
CO Group	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.	1-24(MG-100) 1-72(MG-300)	
Tel Number	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.	Max. 10	

1.5.12.4 T-Net Board Attribute – PGM Code 344

Selecting T-Net Board Attribute will display the page shown, Figure 1.5.12.4-1.

Figure 1.5.12.4-1 T-Net Board Attribute

When a board or iPECS-gateway module is connected in a Centralized Control network (TNET), the TNET operation of the board or iPECS-gateway module can be enabled or disabled.

1.5.12.5 IP-Phone T-Net Enable – PGM Code 335

Selecting IP-Phone T-Net Enable will display the page shown, Figure 1.5.12.5-1.
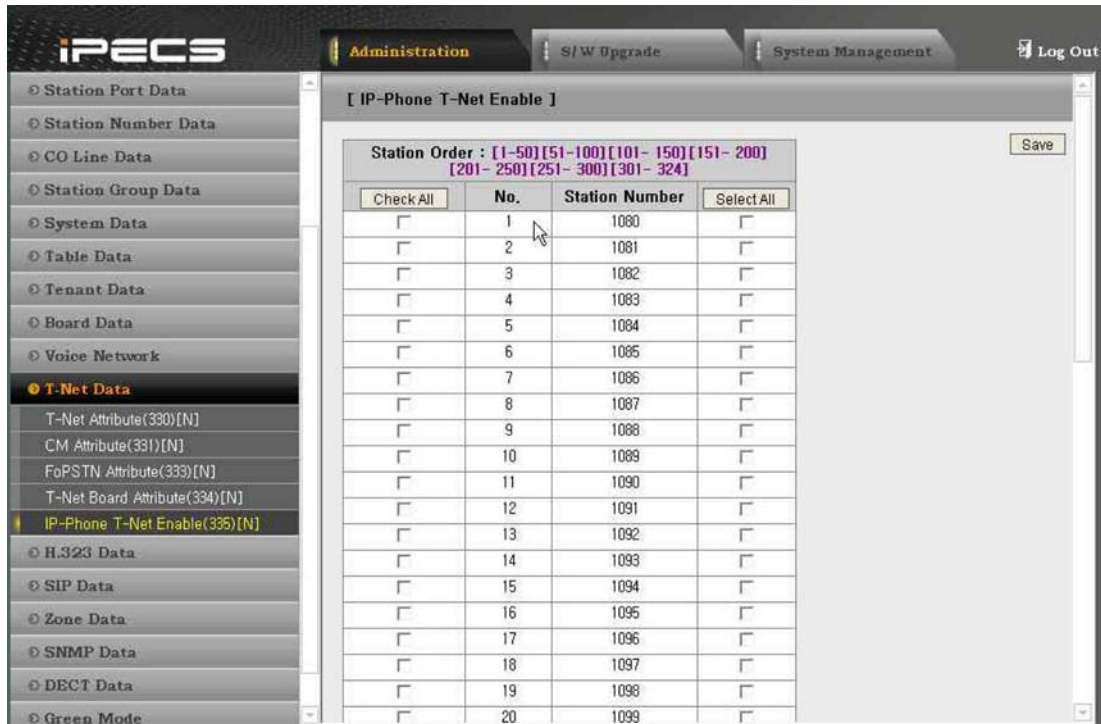
Figure 1.5.12.5-1 IP-Phone T-Net Enable

When an IP-Phone is connected in a Centralized Control network (TNET), the TNET operation of the IP Phone can be enabled or disabled.

1.5.13 H.323 Data

Selecting the H.323 Data program group returns the sub-menu displayed in Figure 1.5.13-1.

Figure 1.5.13-1 H.323 Data Main Page

1.5.13.1 H.323 Routing Attributes – PGM Code 360

Selecting H.323 Routing Attributes will display the page shown, Figure 1.5.13.1-1.
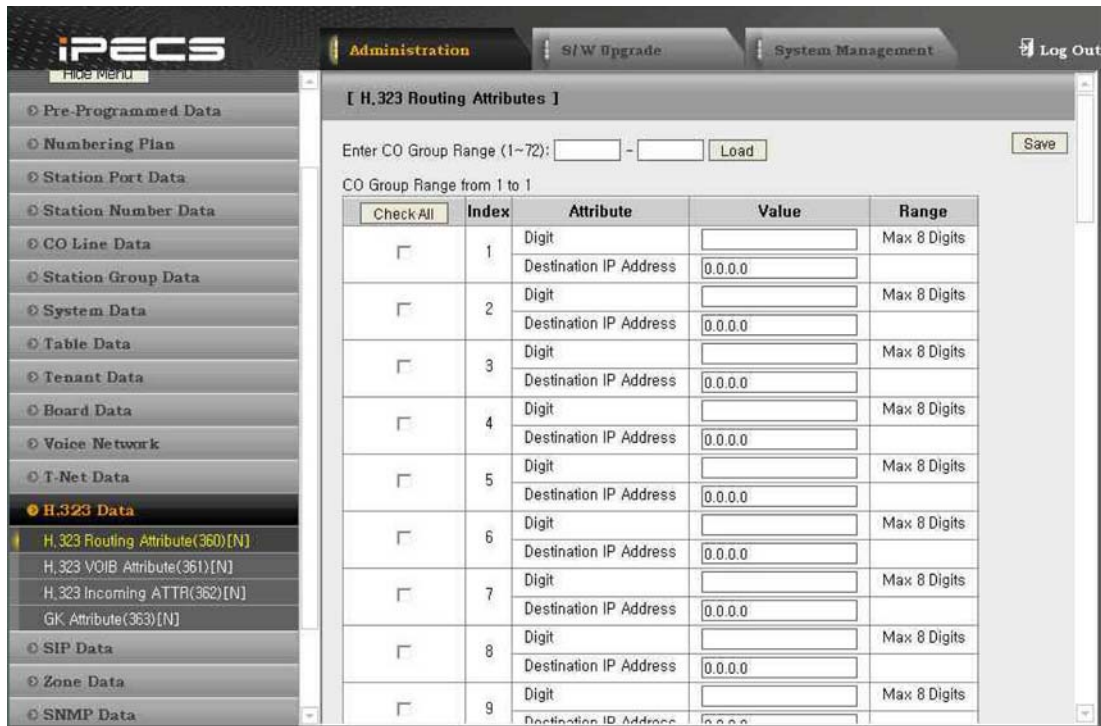
Figure 1.5.13.1-1 H.323 Routing Attributes

To allow direct H.323, the system assigns unique number to each H.323 IP address. Direct H.323 can be made by dialing the assigned number.

Table 1.5.13.1-1 H.323 Routing Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Digit	Designates numbers associated with the H. 323 routing system.	Max. 8 digits	
Destination IP Address	Designates IP address associated with the H. 323 routing system.		0. 0. 0. 0

1.5.13.2 H.323 Call Setup Attribute – PGM Code 361

Selecting H.323 Call Setup Attributes will display the page shown, Figure 1.5.13.2-1.

Figure 1.5.13.2-1 H.323 Call Setup Attributes

When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes including the H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

This **H.323 Call Setup Attributes** 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 the following Table for a description of the features and the input required.

Table 1.5.13.2-1 H.323 Call Setup Attribute

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.	1: Normal 1: Fast	FAST
H. 323 Tunneling Mode	H. 323 IP calls can be set-up using the H. 245 encapsulation (Tunneling).	0: OFF 1: ON	ON
H. 323 DTMF Path	During a connection, DTMF digits can be sent in-band or out of band (H. 245).	0: Inband 1: RFC2833 2: out	Inband
DiffServ	Diffserv pre-tagging for Voice packet. **NOTE** High values may cause high packet discard levels.	0-63	4
First Codec Type	Determines First Codec Type.	Not Use G.711U G.711A G.729 G.723A	G.711A
Second Codec Type	Determines Second Codec Type.	Not Use G.711U G.711A G.729 G.723A	Not Use
Third Codec Type	Determines Third Codec Type.	Not Use G.711U G.711A G.729 G.723A	Not Use
Fourth Codec Type	Determines Fourth Codec Type.	Not Use G.711U G.711A G.729 G.723A	Not Use
GateKeeper USED	Used to determine if Gatekeeper will be used.	0: OFF 1: ON	OFF

1.5.13.3 H.323 Incoming Attributes – PGM Code 362

Selecting H.323 Incoming Attributes will display the page shown, Figure 1.5.13.3-1.
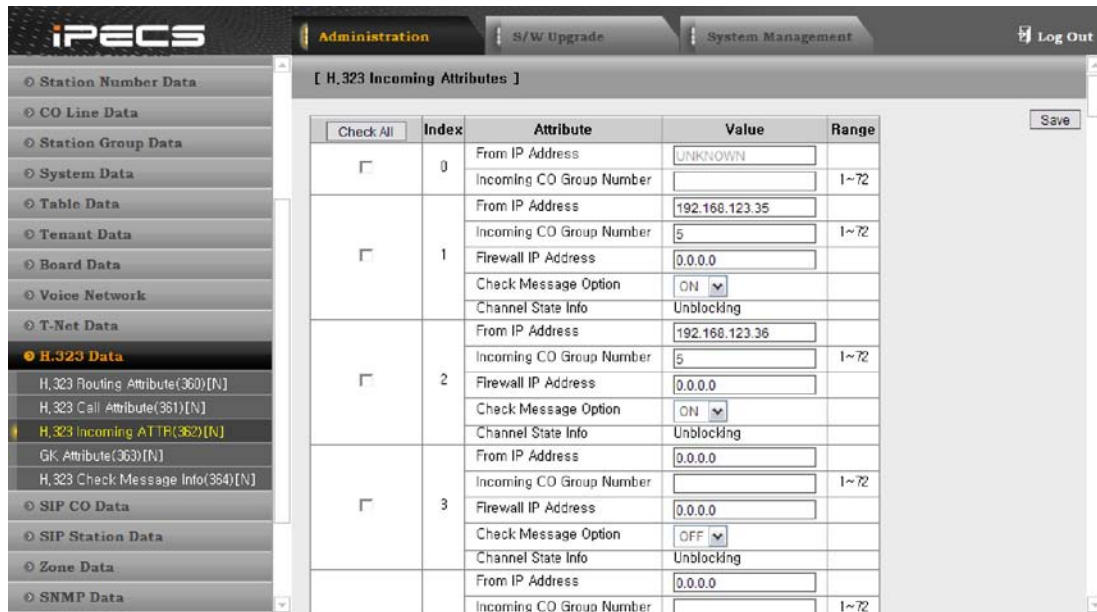
Figure 1.5.13.3-1 H.323 Incoming Attribute

To obtain direct H.323, the 'From IP-Address' and the 'CO Group number' to be routed should be assigned.

Table 1.5.13.3-1 H.323 VOIB Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
From IP Address	IP address associated with the H. 323 incoming call. The index 0 is used when external call cones from unknown IP Address which is not listed in this table entry.		0. 0. 0. 0
Incoming CO Group Number	CO group number associated with the H. 323 incoming call.	01-72	
FW IP Address	Destination fire wall IP address associated with the FROM IP address.		0.0.0.0
Check Message Option	Determines if FROM IP will be used check message.	0: OFF 1: ON	OFF

1.5.13.4 GateKeeper Attributes – PGM Code 363

Selecting GK Attributes will display the page shown, Figure 1.5.13.4-1.

Figure 1.5.13.4-1 GateKeeper Attributes

Table 1.5.13.4-1 Gatekeeper Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
GateKeeper	Determine whether MPB will be used as a GateKeeper.	0: OFF 1: ON	OFF
RAS Light RRQ Usage	The system can be assigned to use the simple Registration Request (RRQ) message (ON) or the full RRQ message (OFF).	0: OFF 1: ON	OFF
Multicast GateKeeper IP Address	Multi-cast IP address for RAS Information of Gatekeeper.	IP Address	0.0.0.0
Multicase GateKeeper Port	Multi-cast IP Port for RAS Information of Gatekeeper.	IP Port # (0-9999)	0
Unicast GateKeeper IP Address	Uni-cast IP address for RAS Information of Gatekeeper.	IP Address	0.0.0.0
Unicast GateKeeper Port	Uni-cast IP Port for RAS Information of Gatekeeper.	IP Port # (0-9999)	1719
Keep Alive Time	The system will send a polling message every KEEP ALIVE TIME seconds to assure the status of the connection.	1-1000	120
Gateway Prefix	The numbering plan for Calling Number in RAS Setup.	Max. 25 Digits	
H. 323 Gateway ID	The GateKeeper ID; In keyset admin, only 24 digits can be checked or programmed.	Max. 129 Digits	

1.5.13.5 H.323 Check Message Information – PGM Code 364

Selecting H.323 Check Message Information will display the page shown, Figure 2.3.13.5-1.
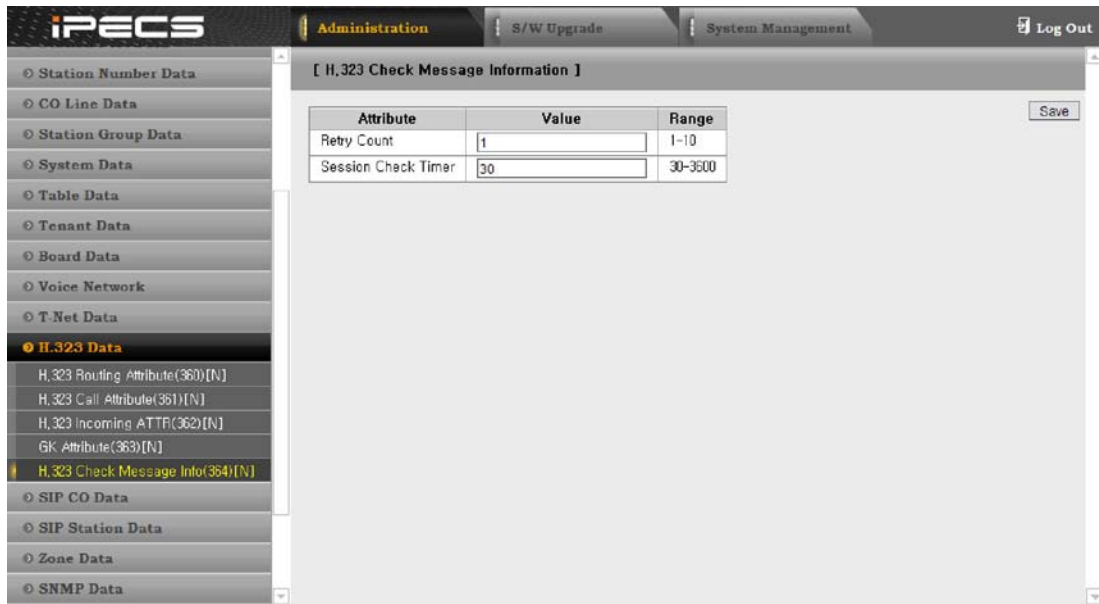
Figure 1.5.13.5-1 H.323 Check Message Information

To get the direct H.323, the From IP-Address and 'the incoming CO Group number' to be routed should be assigned.

Table 1.5.13.5-1 H.323 Check Message Information

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Retry Count	Determines the retry count; following MG sending the ping and reply message is not received in return.	01-10	03
Session Check Timer	This field indicates the time interval to send ping message periodically.	0030-3600	0030

1.5.14 SIP CO Data

Selecting the SIP CO Data program group returns the sub-menu displayed in Figure 1.5.14-1.

Figure 1.5.14-1 SIP Data Main Page

1.5.14.1 SIP CO Basic Registration

Selecting SIP CO Basic Registration will display the page shown, Figure 1.5.14.1-1.
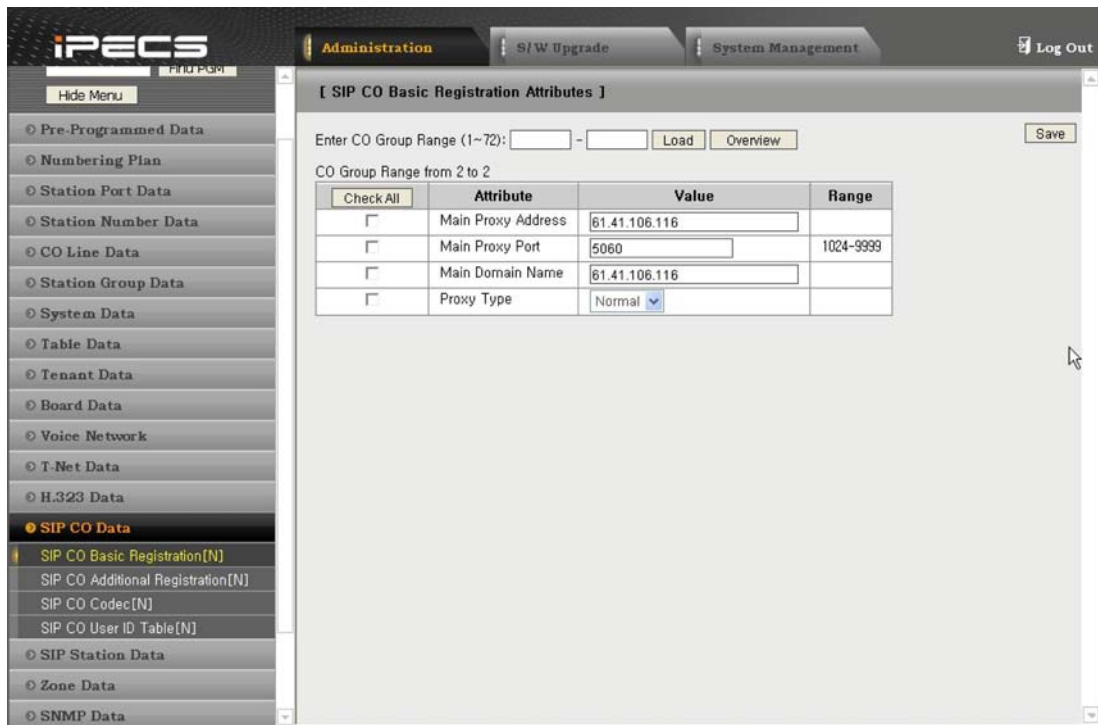
Figure 1.5.14.1-1 SIP CO Basic Registration

Table 1.5.14.1-1 SIP CO Basic Registration Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Main Proxy Address	SIP proxy is the element that routes SIP requests to User Agent servers and SIP responses to User Agent clients.		
Main Proxy Port	Main Proxy Port number to communicate with Main Proxy server.	1024 – 9999	5060
Main Domain Name	SIP user domain name; when a user makes a SIP outgoing call, this domain name is added to the dialed digits. (ex., <dialed digit> @domain.name.com). Proxy Domain Name; if proxy does not have a domain name, then set the proxy IP address.		
Proxy Type	SIP Proxy Type that is used in SIP CO calling.	Normal / Dacom / KT	Normal

1.5.14.2 SIP CO Additional Registration

Selecting SIP CO Additional Registration will display the page shown, Figure 1.5.14.2-1.

Figure 1.5.14.2-1 SIP CO Additional Registration

Table 1.5.14.2-1 SIP CO Additional Registration Attributes

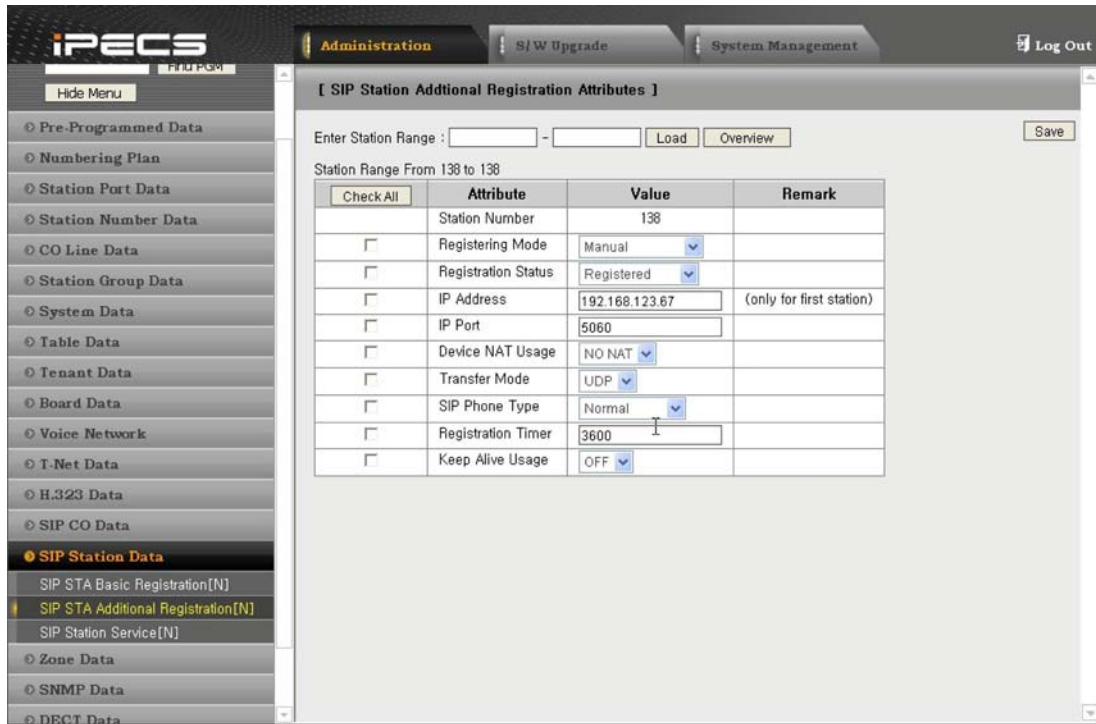| ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
User ID Start Index	Sets the Start User ID Index for SIP CO group In 'SIP CO Basic Registration Attributes'		
User ID End Index	Sets the End User ID Index for SIP CO group In 'SIP CO Basic Registration Attributes'		
Main Outbound Proxy Address	If the Proxy Server has both a registration server and call processing server, this field indicates the call processing server address.		
Main Outbound Proxy Port	Main outbound proxy port number to receive SIP messages.	1024–9999	5060
Sub Proxy Address	Second Proxy IP Address. Generally, used to register with the IMS Server.		
Sub Proxy Port	Second Proxy Port number	1024–9999	5060
Sub Domain Name	Second Domain name		
Sub Outbound Proxy Address	Second Outbound proxy Outbound Address		
Sub Outbound Proxy Port	Second Outbound proxy port number.	1024–9999	5060
Connection Mode	Transport protocol type to send/receive SIP messages.	UDP / TCP / TLS	UDP
Registration Timer	Registration Time Interval to resend the Registration message to proxy.	60-86400	3600
100rel Support	Increases reliability; if both systems set 100rel to ON, then system will send the PRACK message when receiving the 18x message.	ON/OFF	OFF
Session Timer Support	Used to recover the communication path.	ON/OFF	OFF
Max. Session Timer	The time at which an element will consider the call timed out, if no successful INVITE transaction or UPDATE transaction occurs beforehand. This value is inserted into every INVITE and UPDATE transaction in the Session-Expires header unless it was configured to zero. A zero session Expires means that the Session Timer feature is turned off. If the "timer" option tag is not part of the supported list, the session Expires value will be ignored.	180-3600	1800
Min. Session Timer	The minimum value for the session interval that the application is willing to accept. If the application does not set this parameter, the minSE value is set to the default value of 90 seconds according to the Session Timer RFC. Also, the Min-SE header will not be present in the sent requests (except for a request, following a 422 response). However, if the application sets this parameter to 90 or any other value, the Min-SE header will appear in any sent request Time interval to send check message (Re-Invite or UPDATE) by period.	60-150	90
Use 181 Message	If this feature is set to ON, 181 message is supported (call is being forwarded to a different set of destinations).	ON/OFF	OFF
Use RPORT	If this feature is set to ON, R-port is supported, which is used for NAT traversal problems.	ON/OFF	OFF
P-Asserted-Identity	his field uses private extensions to the SIP that enable a network of trusted SIP servers to assert the identify of	NOT USE / USE	NOT USE

	authenticated users, and the application of existing privacy mechanisms to the identify problem. The use of these extensions is only applicable inside an administrative domain with previously agreed-upon policies for generation, transport and usage of such information. If this feature is set to ON, Asserted-ID service is supported.		
DTMF Send Mode	Used to set the DTMF mode of SIP CO group.	IN / OUT / RFC2833	RFC2833

1.5.14.3 SIP CO Codec

Selecting SIP CO Codec will display the page shown, Figure 1.5.14.3-1.
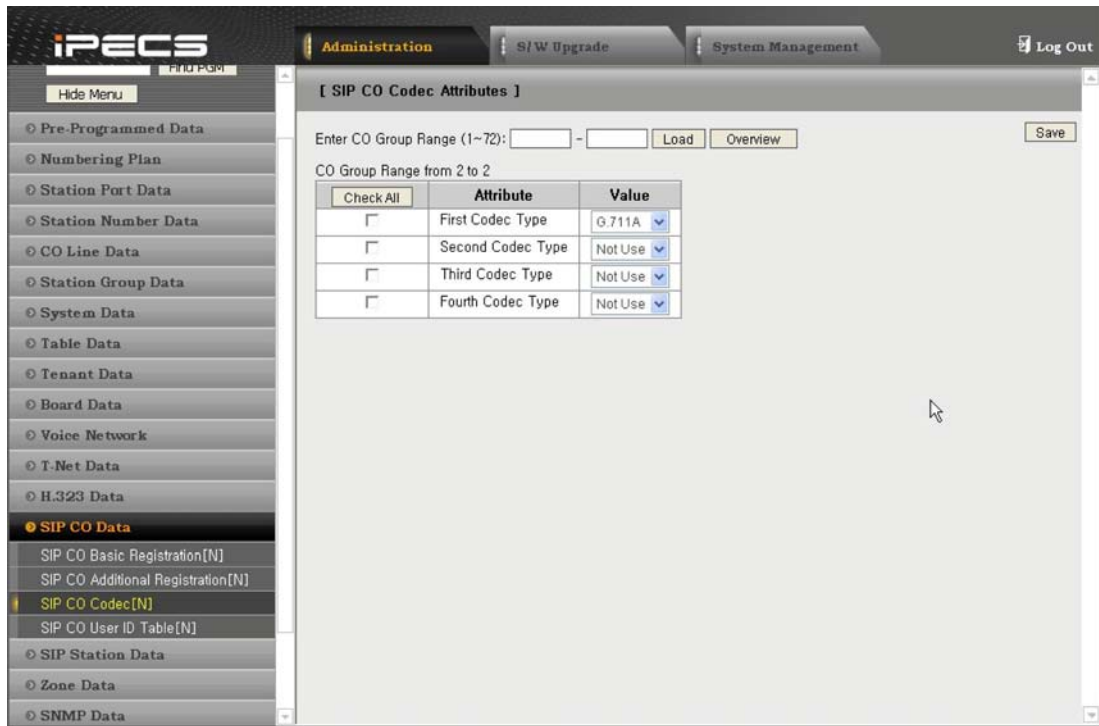
Figure 1.5.14.3-1 SIP CO Codec

Table 1.5.14.3-1 SIP CO Codec Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
First Codec Type	Codec Types to send voice packets using RTP.	Not use, G.711U, G.711A, G.729, G.723, G.729A	G.711A
Second Codec Type			Not Use
Third Codec Type			Not Use
Fourth Codec Type			Not Use
Fifth Code Type			Not Use

1.5.14.4 SIP CO User ID Table

Selecting SIP CO User ID Table will display the page shown, Figure 1.5.14.4-1.
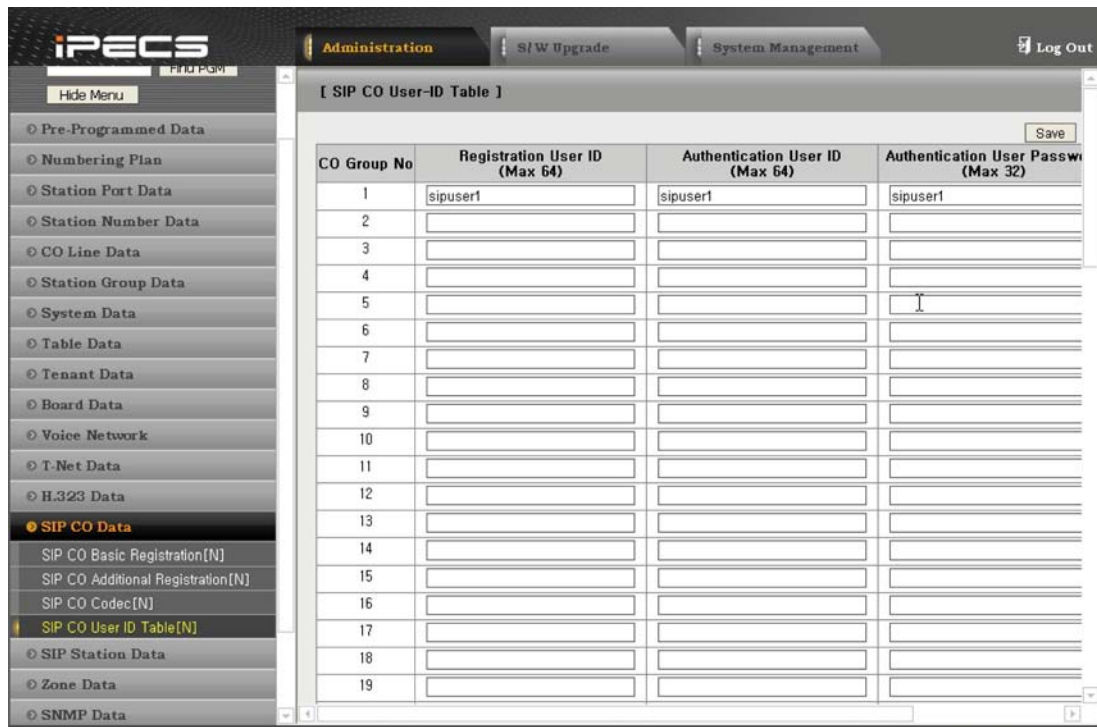
Figure 1.5.14.4-1 SIP User ID Table

Table 1.5.14.4-1 SIP User-ID Table Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registration User ID	This Admin is used to setting SIP user ID. Set SIP user ID which is used "From" Header except domain name.		
Authentication User ID	This Admin is used to setting SIP Authentication User ID. Set authentication user ID if authentication is used..		
Authentication User Password	This Admin is used for setting SIP Authentication User Password; set authentication user password if authentication is used.		
Registration	This Admin is used for setting User ID Registration; determines registration of the SIP UID.	YES / NO	NO
Usage	When value is set to ON, determines the use of the SIP User ID.	YES / NO	NO
Contact Num (PGM 170-11,12)	This Admin is used for setting the Contact Number; STA use station CLI rules and User ID set Representative ID to SIP User ID automatically(this will be make Contact Number to User ID).	STA, User ID	User ID
Firewall Routing	This ADMIN program determines that this table is local network or different network.	YES / NO	YES
Contact	If not use 'Contact', all is same with previous methods of making CONTACT field. If have some value, this value always used for CONTACT field not considering STA or CO Group selection.		

1.5.15 SIP Station Data

Selecting the SIP Station Data program group returns the sub-menu displayed in Figure 1.5.15-1.

Figure 1.5.15-1 SIP Station Data Main Page

NOTE
SIP phone need lock key install except LIP-8002 and ACT-50.

1.5.15.1 SIP Station Basic Registration

Selecting SIP CO Basic Registration will display the page shown, Figure 1.5.15.1-1.
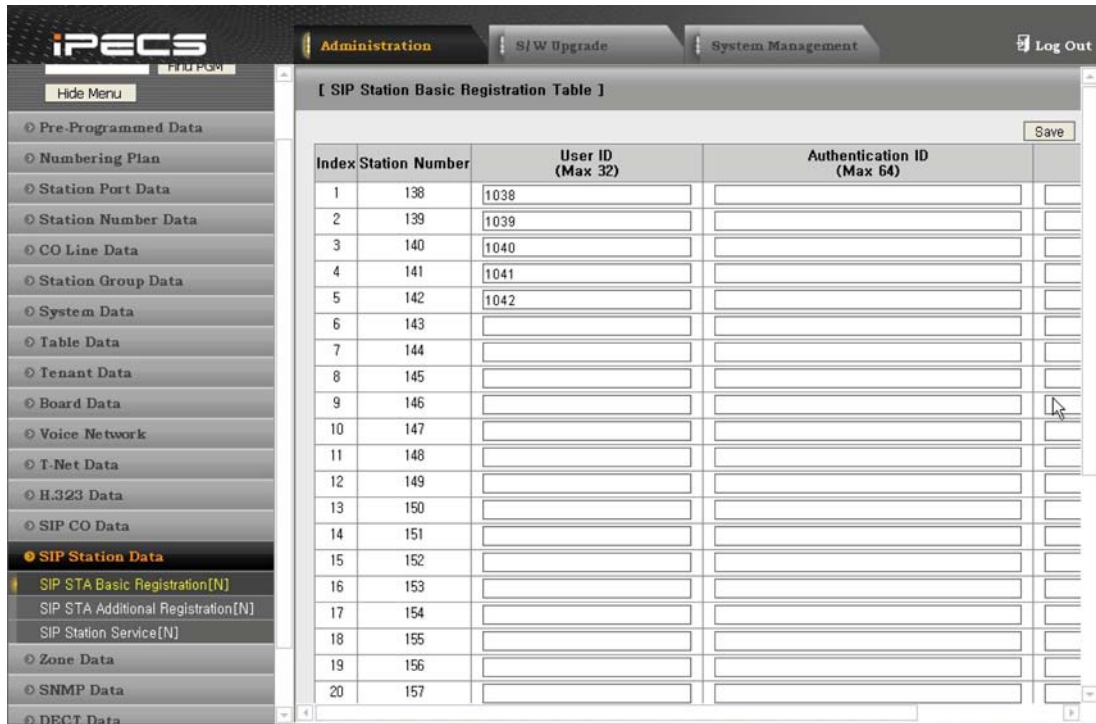
Figure 1.5.15.1-1 SIP STA Basic Registration

Table 1.5.15.1-1 SIP STA Basic Registration Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
User ID	SIP Ext. User ID. If MG explicitly assigned the user id for that SIP Ext. , then User ID will be SIP Ext. 's Station number.		
Authentication ID	Authentication name assigned in SIP Proxy when required for registration.		
Password	User password as assigned in SIP Proxy when required for registration.		

1.5.15.2 SIP Station Additional Registration

Selecting SIP STA Additional Registration will display the page shown, Figure 1.5.15.2-1.

Figure 1.5.15.2-1 SIP STA Additional Registration

Table 1.5.15.2-1 SIP STA Additional Registration Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Number	SIP Ext. Station number that assigned by iPECS-MG		
Registering Mode	Determines if the SIP Proxy will be registered using Register message or Not. If set to No, then administrator should set SIP Ext. IP address and Port number values by hand.	Manual / User Register	Manual
Registration Status	Determines the SIP Ext. Registration status.	Not Registered / Registered	Not Registered
IP Address	Determines the SIP Ext. IP Address.		
IP Port	Determines the SIP Ext. Port number.		0
Device NAT Usage	Determines if the SIP Ext. is used within the NAT Router.	NO NAT / NAT	No NAT
Transfer Mode	Determines the transport protocol to send/receive SIP messages.	UDP / TCP / TLS	UDP
SIP Phone Type	Used to Set the SIP Ext. type	Normal / MOIMSTONE / IP-1535	Normal
Registration Timer	Registration Time Interval to resend the Registration message from SIP Ext. to iPECS-MG		3600
Keep Alive Usage	This field will be used to check SIP Ext. 's Status. If this field set to ON, OPTION message periodically send to SIP Ext to check the station's status.	ON/OFF	OFF

1.5.15.3 SIP Station Service

Selecting SIP STATION Attributes will display the page shown, Figure 1.5.15.3-1.

Figure 1.5.15.3-1 SIP Station Attribute

Table 1.5.15.3-1 SIP Station Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Check Message Send Timer	The system can check the SIP extension status using OPTION Message. This field indicates the time interval to send OPTION message periodically.	10-3600	30
Retry Count	Determines the retry count to send the OPTION message when ACK message is not received in return.	3-10	5
407 Authentication	Determines if MG authentication is done for each call using 407 messages.	ON/OFF	OFF
100rel Support	PRACK Sending Option	ON/OFF	OFF
Session Timer Support	Periodical Communication Path recovery Option	ON/OFF	OFF
Max. Session Timer	Maximum time to maintain the communication path	180-3600	1800
Min. Session Timer	Time interval to send the check message(Re-Invite or UPDATE) by period	60-150	90

1.5.16 Zone Data

Selecting the Zone Data program group returns the sub-menu displayed, Figure 1.5.16-1.
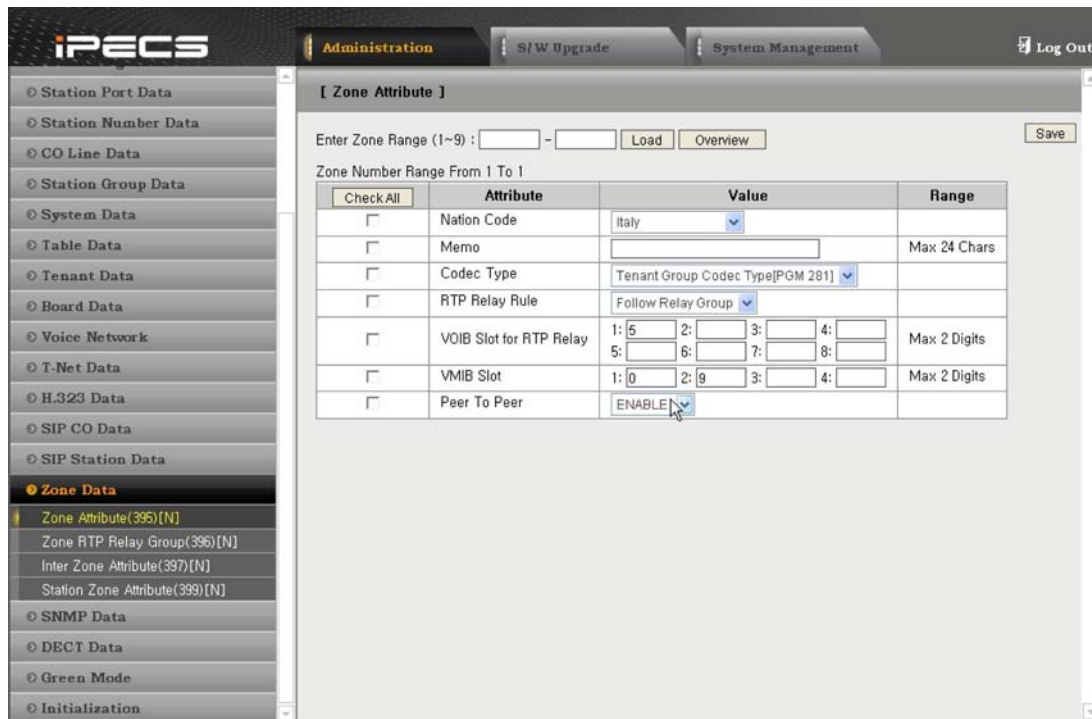
Figure 1.5.16-1 Zone Data

Zone data is a tool employed to easily manage the characteristics of groups of devices under the control of a 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, VMIB, RTP packet handling, etc. Common attributes may be 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 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 one to the device's private address. The VOIB VoIP channels implement a secure channel using IPSec protocol. Devices can be assigned as part of a "RTP Relay group" to use the same VoIP channels to implement RTP packet relay.

> **NOTE**
> Packet relay requires a MPB or VOIB VoIP channel be available locally for each simultaneous call that requires packet relay. The sub menus of Zone Data define device zone assignments and zone configurations. These programs are only available in Web admin.

1.5.16.1 Zone Attributes

Selecting the Zone Attribute returns the page shown, in Figure 1.5.16.1-1. Enter the desired Zone number range and click Load to assign Zone characteristics.

Figure 1.5.16.1-1 Zone Attribute

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 "Automatic" or "Follow Relay Group". For "Automatic", the MP will employ the IP KTS STUN protocol to determine when packet relay is required. If assigned "Follow Relay Group", packet relay will always be employed for RTP packet receipt.

Table 1.5.16.1-1 Zone Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Nation Code	Nation Code of the Zone		Same with system's nation
Memo	Memo		
Codec Type	The codec selection method can be defined as device based, see PGM 281, or based on the codec type assigned to the Zone.	Tenant Codec / G.711 / G.723 / G.729 / G.722 / Not Assign	Tenant Codec
RTP Relay Rule	Assigns when to use the packet relay function, with "Automatic" the MPB will automatically determine when to use packet relay, while "RTP Relay Group" will always implement packet relay for RTP packets.	Automatic / Follow Relay Group	Automatic
VOIB Slot for RTP Relay	Assigns the VOIB slot used to support RTP relay for devices in the Zone.		VOIB Slot
VMIB Slot	Assigns the VMIB slot used to support Voice Mail for devices in the Zone.		VMIB Slot
Peer-to-Peer	If enabled, the VOIP channel is not allocated for IP Phone-to-IP Phone voice. If disabled, the VOIP channel is allocated for IP phone-to-IP phone voice relay.	Disable/Enable	Enable

1.5.16.2 Zone RTP Relay Group

Selecting the Zone RTP Relay Group returns the RTP Relay ON/OFF data input page, Figure 1.5.16.2-1. Enter the desired Zone and RTP Reply Group numbers and click on **[Load]** to assign Zone characteristics.
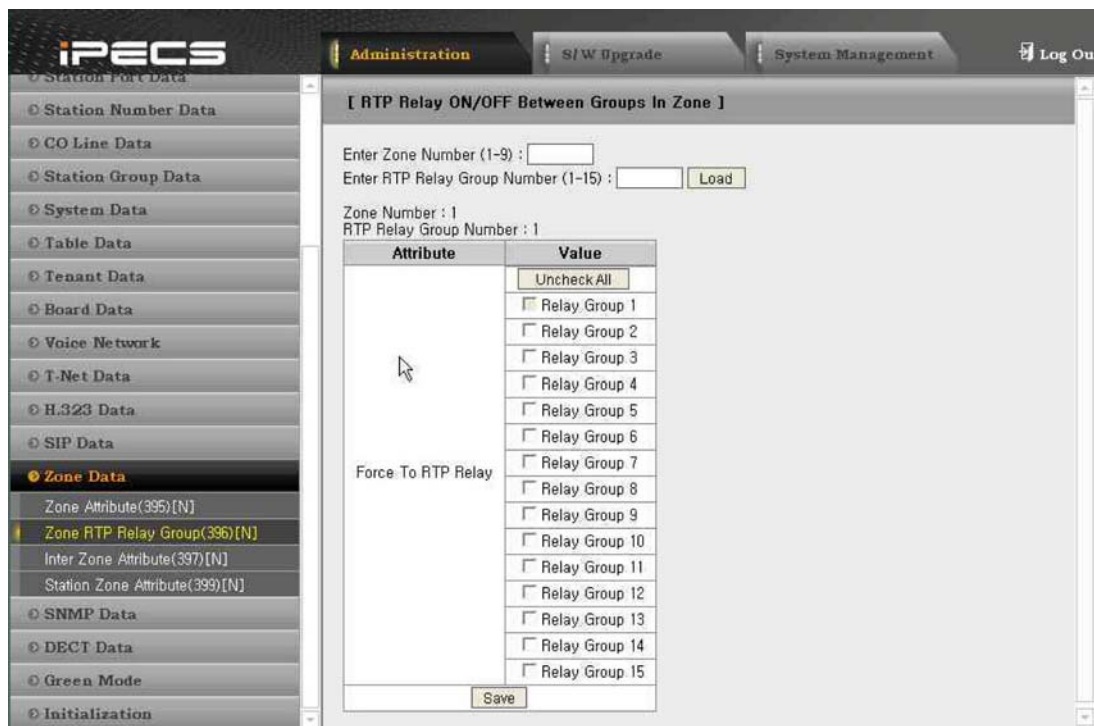
Figure 1.5.16.2-1 Zone RTP Relay Group

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**
> When "Automatic" is assigned as the RTP Relay Rule in Zone Attributes, assignments are ignored.

Table 1.5.16.2-1 Zone RTP Relay Group

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Force To RTP Relay	Select RTP Group to force RTP Relay for Zone.		

1.5.16.3 Inter-Zone Attribute

Selecting the Inter-Zone Attribute returns the page shown, Figure 1.5.16.3-1.Enter the desired Source and Destination Zone number range and click on **[Load]** to assign Zone characteristics.
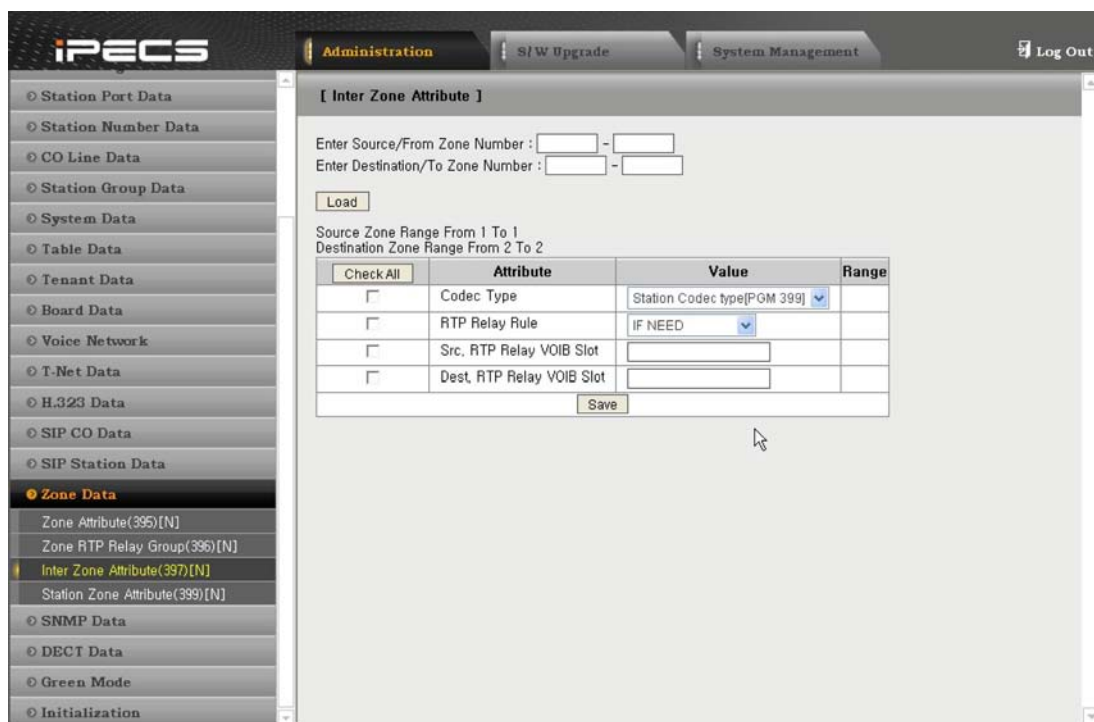
Figure 1.5.16.3-1 Inter-Zone Attribute

Inter Zone Attributes define RTP packet relay treatment for communication between devices in different Zones.

Table 1.5.16.3-1 Inter-Zone Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Codec Type	The codec selection method can be defined as device based Station Codec, or based on the codec type assigned to the Inter-Zone.	Station Codec / G.711 G.723 / G.729	Station Codec
RTP 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 "Always Not" will not use and "Forced To DO" always implement packet relay.	If Need / Always Not / Forced To Do	If Need
Src. RTP Relay VOIB Slot	Source VOIB Slot to handle Packet relay for Source Zone.		
Dest. RTP Relay VOIB Slot	Destination VOIB Slot to handle Packet relay for Source Zone.		

1.5.16.4 Station Zone Attribute

Selecting the Station Zone Attribute returns the page shown, Figure 1.5.16.4-1. Enter the desired station range and click on **[Load]** to assign Station Zone characteristics.
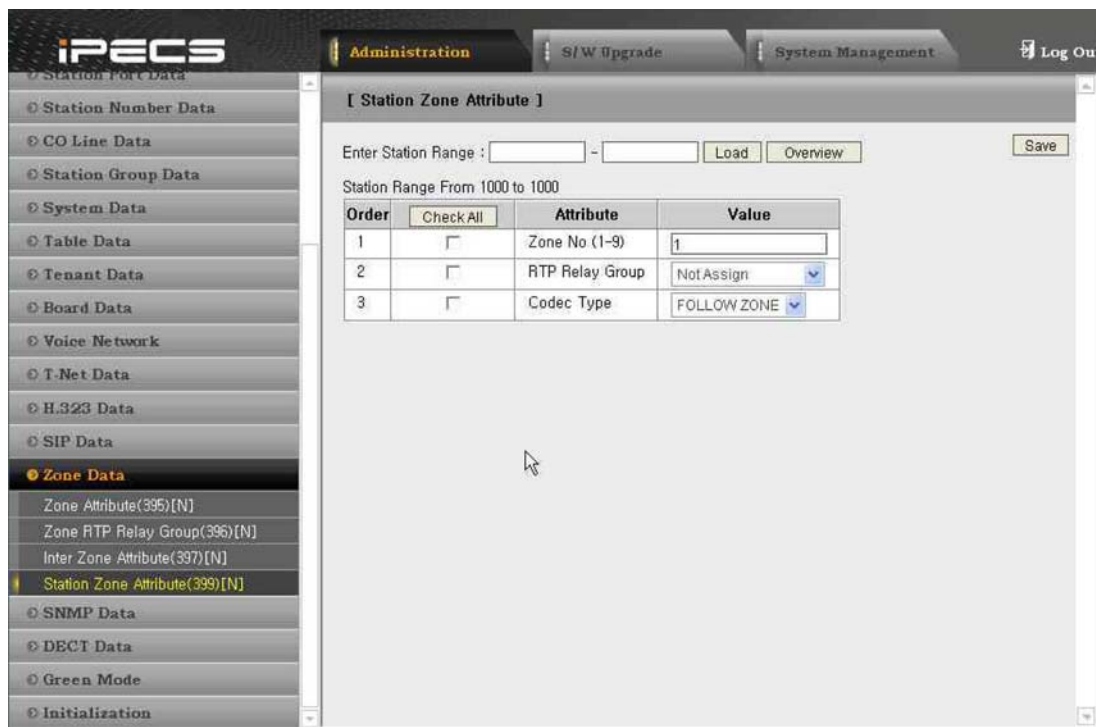
Figure 1.5.16.4-1 Station Zone Attributes

Station Zone Attributes define characteristics specific to the Station including Zone assignment. In addition, Zone characteristics set at the Station 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 1.5.16.4-1 Station Zone Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Zone No	Zone number of station	1-9	1
RTP Relay Group	Assigns the RTP Relay group employed by the device	N/A, 01-15	N/A
Codec Type	The codec selection method can be defined as device based Zone, or based on the codec type assigned to the Station.	Follow Zone / G.711 / G.723 / G.729 / G.722	Follow Zone

1.5.17 SNMP Data

Selecting the SNMP Data returns the page shown, Figure 1.5.17-1.

Figure 1.5.17-1 SNMP Attributes

SNMP Attributes, as shown on the screen, are divided into three categories: SNMP Agent, SNMP Security, and SNMP Trap. The SNMP Agent field, SNMP Service enables the SNMP agent running in the iPECS call server. The SNMP port field defines the UDP port used for communications from the iPECS-MG system for SNMP messages (port should not be changed).

The SNMP Security pane includes 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-MG 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 – Defines a community string used when the iPECS NMS reads data from the iPECS-MG system (default=Public).
- Read Write Community – Defines the community string used when iPECS NMS reads or writes data to the iPECS-MG system (default=Private).

Although the iPECS-MG system can accept packets from any SNMP manger (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-MG 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 same for all the iPECS-MG 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; however, the port should not be changed. The pull down menu next to the address is used to define the address type:

- Trap – message type is defined in SNMPv1, but because iPECS-NMS and the iPECS-MG system SNMPv2, the Trap type message is not recommended.
- Notification – message type sent from the SNMP agent once without checking the reception of the message.
- Inform – message type requires a response of receipt from the SNMP manager. If the agent 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 Inform message type may detrimentally affect iPECS system performance.

Refer to Table 1.5.17-1 for description of the SNMP Attributes and values that can be entered.

Table 1.5.17-1 SNMP Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SNMP service	SNMP Service' field is used to set the SNMP agent in the iPECS On or Off.	ON/OFF	
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 (MFIM).	4 ` 16 characters	
Read Write Community	When the SNMP manager (NMS) needs to both read and write data to the agent (iPECS) this attribute should be enabled.	4 ` 16 characters	
Trap Community	For the SNMP agent (iPECS), this field defines the destination IP address to receive trapped messages (Alarm/fault events).	4 ` 16 characters	
Trap Destination	IP address of iPECS NMS server, port 162 should not be changed.	IP address	
Message Type	Defines how the agent sends the message.	Notification Inform Trap	Notification

After finishing all Configuration items, click on the **[Save]** button.

1.5.18 DECT Data

Selecting the DECT Data program group returns the sub-menu displayed in Figure 1.5.18-1.

Figure 1.5.18-1 DECT Data Main Page

1.5.18.1 DECT Registration

Selecting the Registration returns the page shown, Figure 1.5.18.1-1.

Figure 1.5.18.1-1 DECT Subscription Screen

On this page, the DECT ID and authorization codes are defined. In addition, a pull down menu selects one of four subscription events, subscribe, and unsubscribe, mobility or erase registered station.

A separate password box permits password entry to terminate (erase) all DECT subscriptions.

Table 1.5.18.1-1 DECT Registration

ATTRIBUTE	REMARK	RANGE	DEFAULT
Park Code	PARK (Portable Access Rights Key) Code: Unique System ID entered at DECT handset subscription to identify the system. To assign a PARK code, enter code and click **[Save]**.	14 digits	
AC Code	Authentication Code entered at DECT handset to verify subscription. To assign AC Code, enter AC value and click **[Save]**.	Up to 8 digits	
DECT Station Range	Display station range for DECT		
DECT Subscribe Enable	Enables the system to accept a subscription from a DECT handset, Figure 1.5.18.1-1.		
Station Number	Desired station number for the wireless DECT handset		
Phone Type	Several types of handsets may be selected including type 3 for the GDC-400H. 1. 33X: GDX-33X 2. ST-DECT: Standard DECT 3. 34X/4XX: GDC-34X/4XX	1: 33x 2: ST DECT 3: 34X/4XX	3
	Press **[Send]** after entering the number and type.		
DECT Unsubscribe	Terminates the subscription for a DECT handset, Figure 1.5.18.1-2.		
Station Number	Enter the registered station number and click [SEND], the subscription is terminated and the wireless DECT handset will no longer be serviced.	Station number	
DECT User Authentication	Authenticate DECT handset, Figure 1.5.18.1-3.		
Station Number	Enter the station number and click **[Send]**.	Station number	
DECT Mobility	When a DECT handset is registered at multiple systems that are networked, calls can be routed over the network to the DECT handset location, Figure 1.5.18.1-4.		
Station No	Enter the registered station number, select Mobility ON or OFF and click **[Send]**.	Station number	
STATION Erase	Erase all information related to DECT handset.		
Station No	Enter the station number, and click **[Send]** button.	Station number	
DECT Subscribe All Data Erase Password	Terminates the subscription for all DECT handsets, Figure 1.5.18.1-5.		
DECT Registered Status	Displays all registered DECT handsets, Figure 1.5.18.1-6.		

Figure 1.5.18.1-2 DECT Unsubscribe Pull down
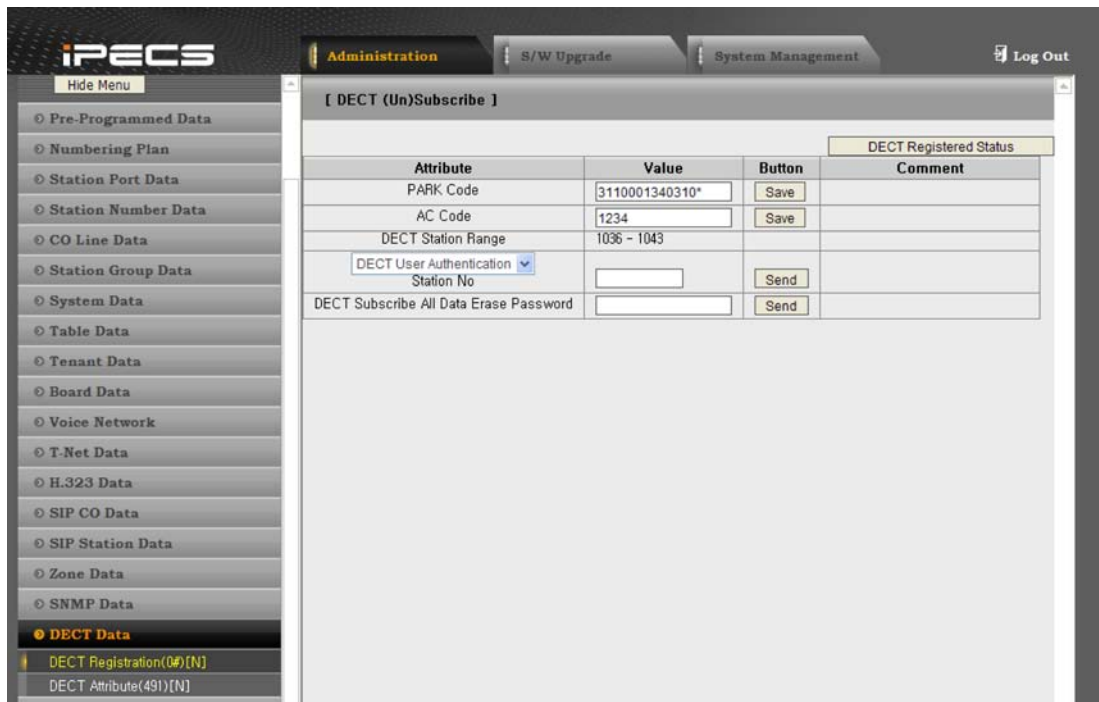
Figure 1.5.18.1-3 DECT User Authentication Pull down

Figure 1.5.18.1-4 DECT Mobility pull down

Figure 1.5.18.1-5 Station Erase pull down

Figure 1.5.18.1-6 DECT Registered Station

1.5.18.2 DECT Attributes – PGM Code 491

Selecting DECT Attributes returns the page shown, Figure 1.5.18.2-1.

Figure 1.5.18.2-1 DECT Attributes

DECT Attributes defines functions associated with DECT equipment and operation as shown in Table 1.5.18.2-1.

Table 1.5.18.2-1 DECT ATTRIBUTES

ATTRIBUTE	REMARK	RANGE	DEFAULT
Auto Call Release	If enabled, when the other party of an active internal/external call disconnects, the GDC-400H returns to idle.	0: OFF 1: ON	OFF
BASE Fault Alarm	If enabled, DECT Base station (GDC-400B/600B) alarms are sent to the Attendant.	0: Disable 1: Enable	Disable

1.5.19 Green Mode

Selecting the Green Mode program group returns the sub-menu displayed in Figure 1.5.19-1.

Figure 1.5.19-1 Green Mode Main Page

1.5.19.1 Green Mode Activation

Selecting Green Mode Activation returns the page shown, Figure 1.5.19.1-1.

Figure 1.5.19.1-1 Green Mode Activation

The system can disable the power of a Digital Phone or Single Line Telephone (SLT) installed in the DTIB/SLIB/DSIU 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.

Table 1.5.19.1-1 Green Mode Activation Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Power Save Usage	Enables or Disables 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
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 button	Power OFF manually all of stations in Power Save used board.	

1.5.19.2 Green Mode Time Setting

Selecting the Green Mode Time Setting returns the page shown, Figure 1.5.19.2-1.
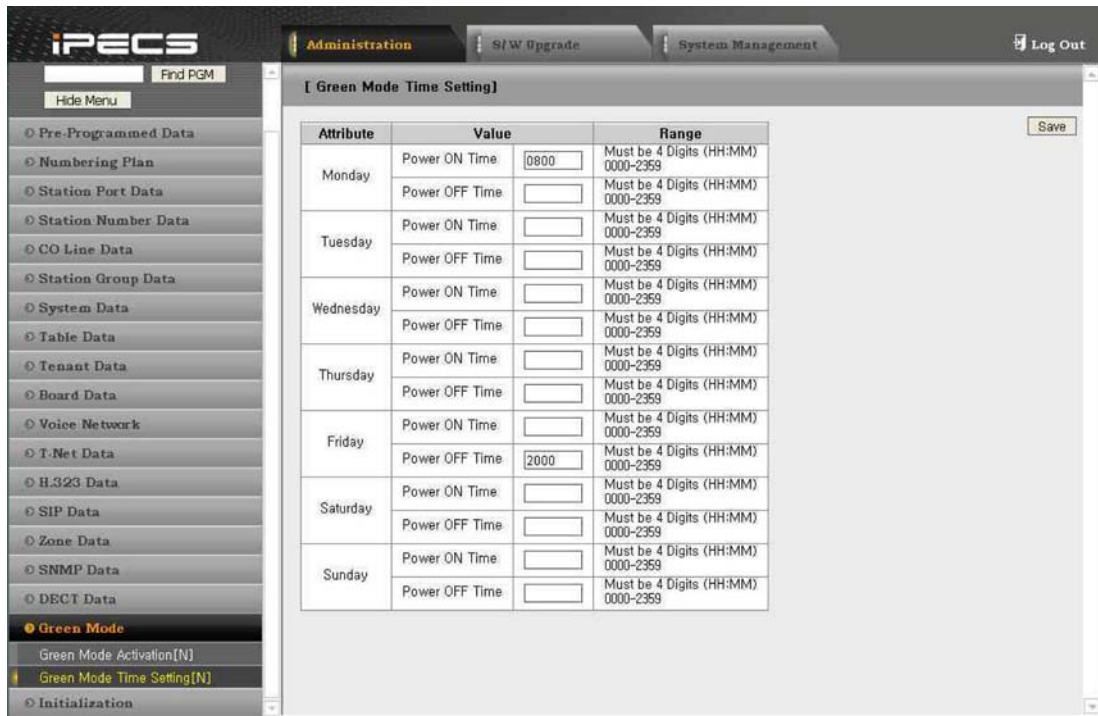
Figure 1.5.19.2-1 Green Mode Time Setting

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 1.5.19.2-1 Green Mode Time Setting

ATTRIBUTE	DESCRIPTION	DEFAULT
Power ON Time	The time to start power supply to assigned board.	
Power OFF Time	The time to start power supply to assigned board.	

1.5.20 Hotel Data

Selecting the Hotel Data program group returns the sub-menu displayed in Figure 1.5.20-1.

Figure 1.5.20-1 Hotel Data Main Page

Most of general information of Hotel feature can be defined.

1.5.20.1 Hotel General Info – PGM Code 500

Selecting the Hotel General Info returns the page shown, Figure 1.5.20-1.
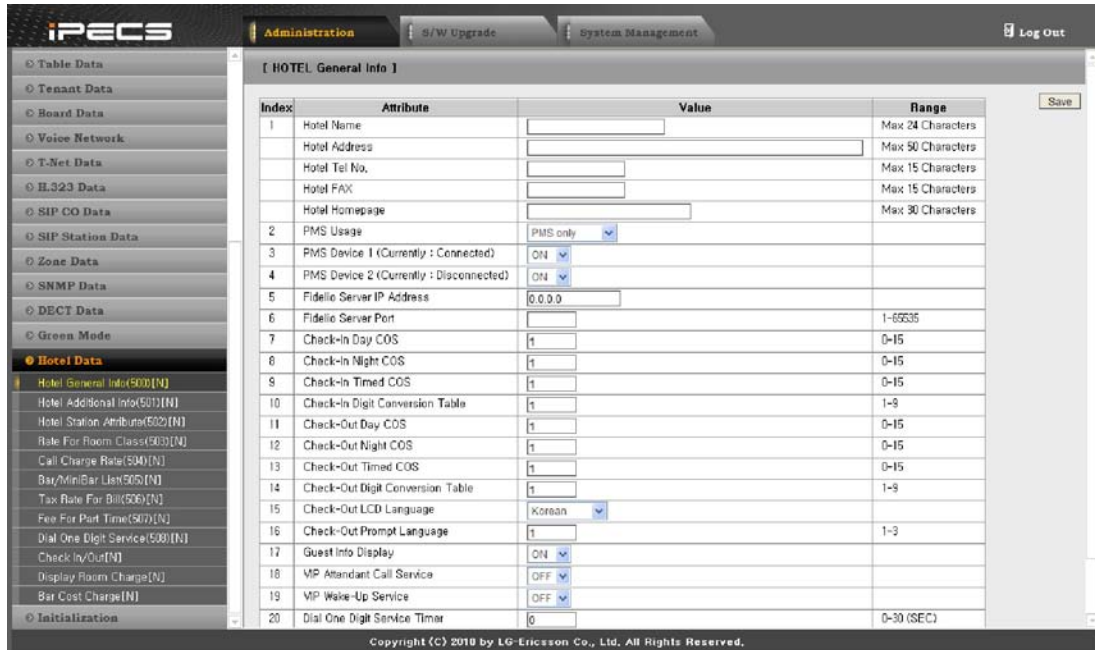
Figure 1.5.20-1 Hotel General Info

Table 1.5.20.1-1 Hotel General Info

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Hotel Name	Hotel Name can be assigned	Max 24 Characters	
Hotel Address	Hotel Address can be assigned	Max 50 Characters	
Hotel Tel No.	Hotel Telephone number can be assigned	Max 15 Characters	
Hotel FAX	Hotel FAX number can be assigned	Max 15 Characters	
Hotel Homepage	Hotel Homepage address can be assigned	Max 30 Characters	
PMS Usage	Determines the hotel management system. If this field set to OFF, the system can't support interface for PMS and Fidelio.	0: OFF 1: PMS ONLY 2: FIDELIO ONLY 3: PMS + FIDELIO	OFF
PMS Device 1(Currently : Disconnected)	Used to set PMS Device 1 (Display the connection status of PMS Device 1.Connected or Disconnected)	0: OFF 1: ON	OFF
PMS Device 2(Currently : Disconnected)	Used to set PMS Device 2 (Display the connection status of PMS Device 2.Connected or Disconnected)	0: OFF 1: ON	OFF
Fidelio Server Address	IP address of Fidelio Server		0.0.0.0
Fidelio Server Port	Port address of Fidelio Server	1-65535	
Check-In Day COS	Determines COS in Day mode about check-in room number	00-15	1
Check-In Night COS	Determines COS in Night mode about check-in room number	00-15	1

Table 1.5.20.1-1 Hotel General Info

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Check-In Timed COS	Determines COS in Timed mode about check-in room number	00-15	1
Check-In Digit Conversion Table	Determines Conversion Table Index about check-in room number	MG100 system: 1-5 MG300 system: 1-9	1
Check-Out Day COS	Determines COS in Day mode about check-out room number	00-15	1
Check-Out Night COS	Determines COS in Night mode about check-out room number	00-15	1
Check-Out Timed COS	Determines COS in Timed mode about check-out room number	00-15	1
Check-Out Digit Conversion Table	Determines Digit Conversion Table Index about check-out room number	MG100 system: 1-5 MG300 system: 1-9	1
Check-Out LCD Language	Sets the Language used in the Station's LCD, refer to Table 1.5.20-1 below.		English
Check-Out Prompt Language	Selected language type prompt is played to the user when accessing the VMIB.	1-3	1
Guest Info Display	If enabled, it allows users to view information about guests from font desk while talking with guests over the phone.	0: OFF 1: ON	OFF
VIP Attendant Call Service	If enabled, It allows an operator to answer the calls from VIP guests earlier when VIP guests call an attendant.	0: OFF 1: ON	OFF
VIP Wake-up Service	If enabled, it allows an attendant to be informed of VIP guest's wake-up call and provide wake-up call service.	0: OFF 1: ON	OFF
Dial One Digit Service Timer	When PGM Code 508 is set up, one digit service is carried out when the timer is expired.	0-30	0

Table 1.5.20.1-2 LCD Language Selection

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

1.5.20.2 Hotel Additional Info – PGM Code 501
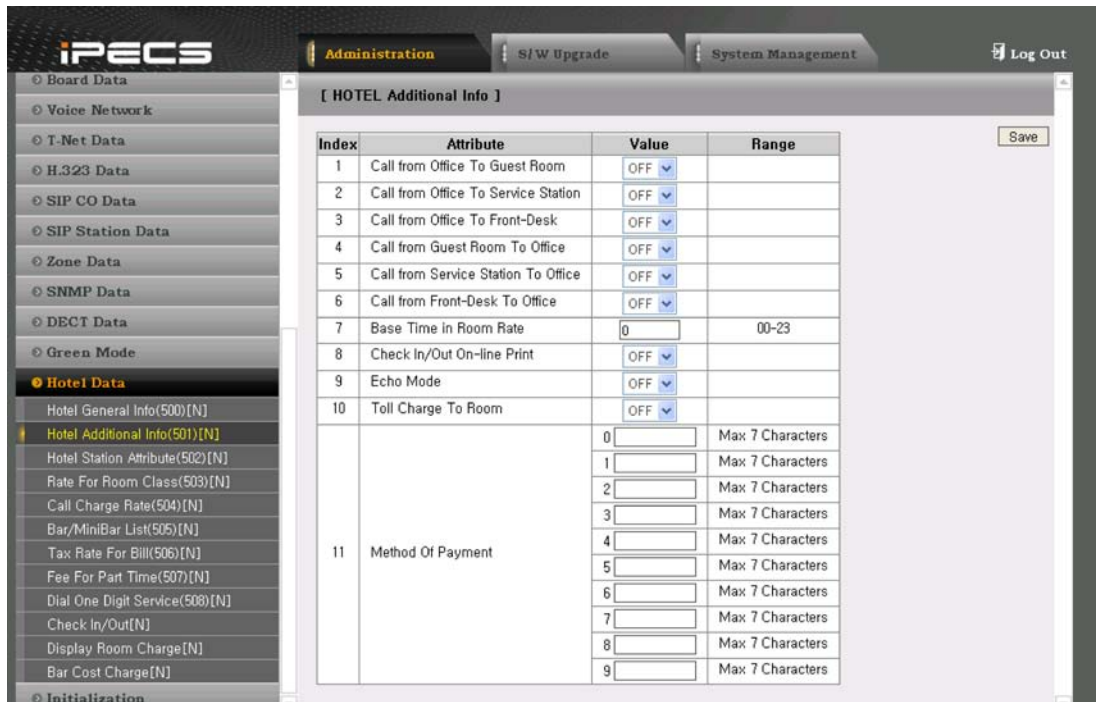
Figure 1.5.20.2-1 Hotel Additional Info

Table 1.5.20.2-1 Hotel Additional Info

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call from Office To Guest Room	This option enables calls to Guest room from Office stations. If this is set to 'OFF', Office stations are not able to make a call to Guest rooms.	0: OFF 1: ON	OFF
Call from Office To Service Station	This option enables calls to Service station from Office stations. If this is set to 'OFF', Office stations are not able to make a call to Service stations.	0: OFF 1: ON	OFF
Call from Office To Front-Desk	This option enables calls to Front-Desk from Office stations. If this is set to 'OFF', Office stations are not able to make a call to Front-Desks.	0: OFF 1: ON	OFF
Call from Guest Room To Office	This option enables calls to Office station from Guest rooms. If this is set to 'OFF', Guest rooms are not able to make a call to Office stations.	0: OFF 1: ON	OFF
Call from Service Station To Office	This option enables calls to Office station from Service stations. If this is set to 'OFF', Service stations are not able to make a call to Office stations.	0: OFF 1: ON	OFF

Table 1.5.20.2-1 Hotel Additional Info

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call from Front-Desk To Office	This option enables calls to Office station from Front-Desks. If this is set to 'OFF', Front-Desks are not able to make a call to Office stations.	0: OFF 1: ON	OFF
Base Time in Room Rate	This value is used to decide the staying days when a Guest room is checked out. Example) If Base Time is 10 o'clock, then the total staying days are 3 days in the following case. Check-In time: March 1, 10 AM Check-Out time: March 2, 12 AM That is, check-in before Base time and check-out after Base time is considered as one extra day.	00-23 (o'clock)	00
Check-In/Out On-line Print	If this option is set to 'OFF', Check-In/Out information is not printed out when a guest is checked in or checked out. This option also controls the print-out of Room charge and Room status which are Front-Desk station menu.	0: OFF 1: ON	OFF
Echo Mode	If this is set to 'ON', a room charge data is displayed in Echo mode when a front-desk makes it printed out in simple mode.	0: OFF 1: ON	OFF
Toll Charge To Room	If this option is set to 'ON', calls transferred to a guest room from a service station are charged to the guest room.	0: OFF 1: ON	OFF
Method Of Payment (BIN NO 0~9)	You can program a string for Method of Payment which is printed when guests are checked out. Total 10 different strings can be programmed.	Max 7 characters	Empty

1.5.20.3 Hotel Station Attribute – PGM Code 502

Figure 1.5.20.3-1 Hotel Station Attribute

Table 1.5.20.3-1 Hotel Station Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Hotel Service Type	Select the hotel station type of a DN for your purpose. If this hotel station type is changed, the name of DN will be set to the default.	0: OFFICE 1: GUEST 2: SVC STA 3: FRONT	OFFICE
Check-In Status	This field only shows the current check-in status of a Guest room. This is not allowed to be changed in this PGM menu.	Read Only	
Intercom Enable	If this field is ON, guest rooms can make an internal call to other rooms. If this field is OFF, only guest rooms with the same PMS group ID can call each other	0:OFF 1:ON	OFF
Guest Type	If a guest room is VIP, it is able to use privileged VIP feature.	0: NON VIP 1: VIP	NON VIP

Table 1.5.20.3-1 Hotel Station Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Room Status	You can configure the maid status of a guest room to one of the followings. 1: TO BE CLEANED 2: UNDER CLEANING 3: READY FOR SALE 4: OUT OF SERVICE 5: UNDER REPAIR 6: REPAIR COMPLETE 7: ROOM OCCUPIED	1-7	TO BE CLEANED
Cut-Off	If this field is set to 'ON', a guest room is not allowed to make an outgoing call.	0: OFF 1: ON	OFF
PMS Group ID	Even though Intercom call is disabled, guest rooms can call each other if they have the same PMS group ID.	0-10000	0
Check-Out Date/Time	This filed means the check-out schedule of a guest room.		
Bath Alarm	With this option, Bath Alarm function is enabled.	0: OFF 1: ON	OFF
Room Monitor	If this option is set to 'ON' for a guest room, the room can be monitored by another station when it is checked-in.	0: OFF 1: ON	OFF
Room Class	Room class can be assigned to each room. Room class is used to calculate room charge based on the rate of room class. This Room Class index is linked with Rate for Room Class Admin PGM503	1-20	1
Call Charge Rate	Call charge rate bin number can be assigned to each room. This Call Charge Rate index is linked with Rate for Call Charge Rate Admin PGM504	1-6	Not assigned

1.5.20.4 Rate For Room Class – PGM Code 503
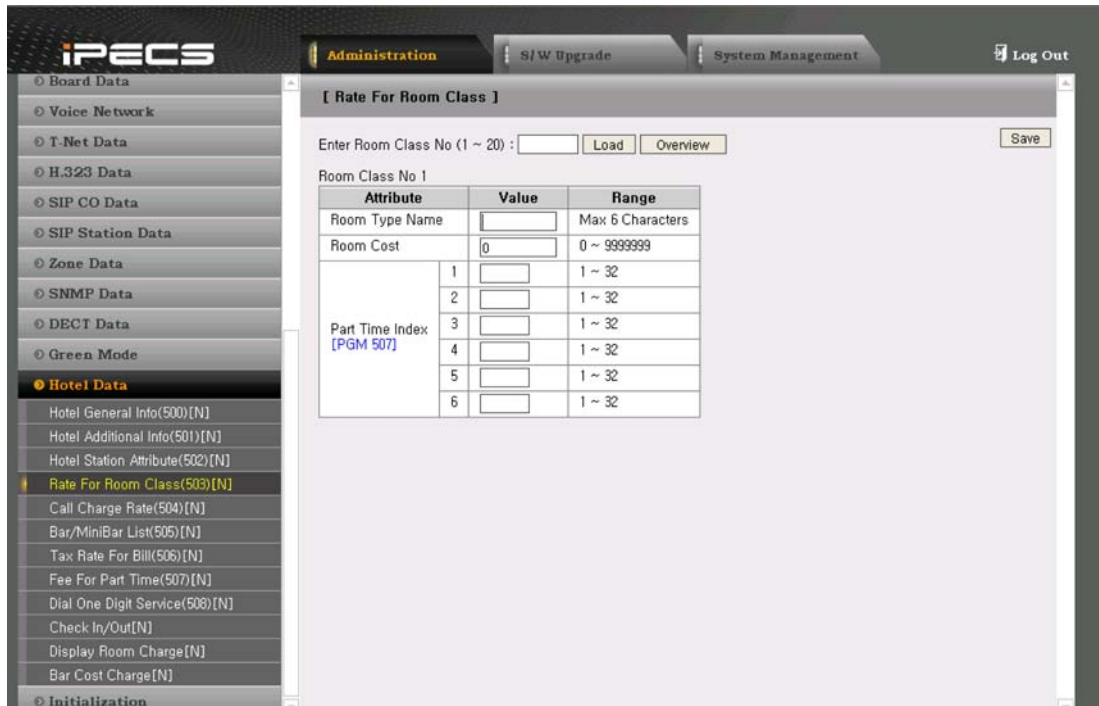
Figure 1.5.20.4-1 Rate For Room Class

This feature allows the operator to assign room type name, room cost and part time fees. This information is used to calculate room charge when a guest checks out.

Table 1.5.20.4-1 Rate For Room Class Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Room type Name	Title for room class	Max 5 Characters
Room Cost	Cost for room class	0-9999999
Part Time Bin No	Fee for part time table no	

1.5.20.5 Call Charge Rate – PGM Code 504

Selecting the Call Charge Rate returns the sub-menu displayed in Figure 1.5.20.5-1.

Figure 1.5.20.5-1 Call Charge Rate

Table 1.5.20.5-1 Call Charge Rate

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Rate	Percent of Call Change	0-999	
Name	Name of Call Charge rate	Max 6 Characters	

1.5.20.6 Bar/MiniBar List – PGM Code 505

Selecting Bar/MiniBar List will display the page shown, Figure 1.5.20.6-1.
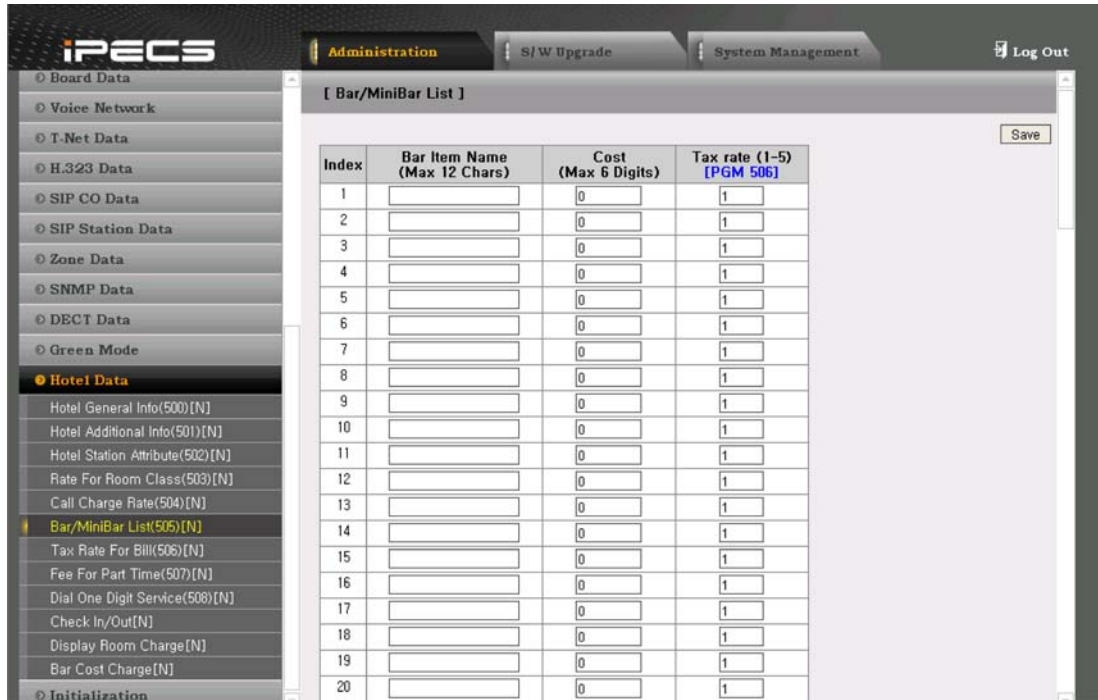
Figure 1.5.20.6-1 Bar/MiniBar List

iPECS-MG system supports 100 bar/mini-bar items.

Table 1.5.20.6-1 Bar/MiniBar List Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Bar Item Name	Name of Mini Bar item	
Cost	Cost of Mini Bar Item	0
Tax rate Bin No	Tax rate index of Mini Bar item This Call Tax Rate index is linked with Tax Rate for bill Admin PGM505	1

1.5.20.7 Tax Rate For Bill – PGM Code 506

Selecting the Tax Rate For Bill returns the sub-menu displayed in Figure 1.5.20.7-1.

Figure 1.5.20.7-1 Tax Rate For Bill

Table 1.5.20.7-1 Tax Rate For Bill

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Rate	Percent of Tax	0.0-99.99	0.0

1.5.20.8 Fee For Part Time – PGM Code 507

Selecting Fee For Part Time will display the page shown, Figure 1.5.20.8-1.
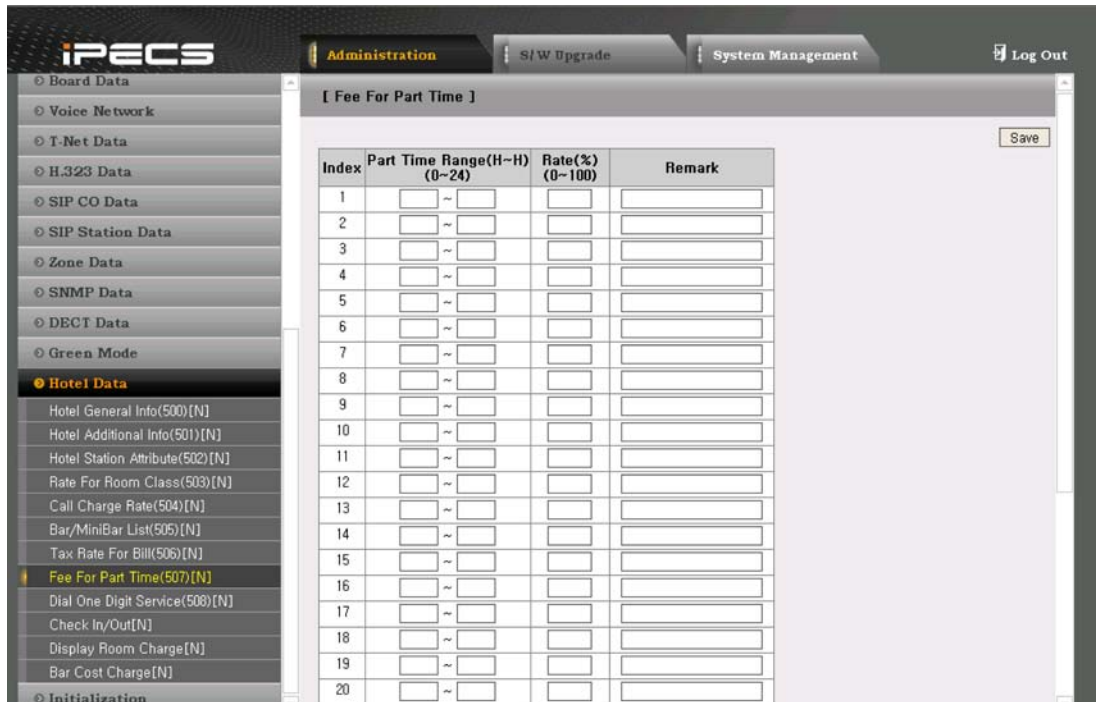
Figure 1.5.20.8-1 Fee For Part Time

In case the day of check-in is the same as the day of check-out, a part time fee may be assessed according to the room type of checked in room or hotel policy. Each room type may have up to 6 fields for different part-time ranges and fees. There are 32 fields available to program part time range and fee in entire hotel system.

Table 1.5.20.8-1 Fee For Part Time Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Part Time Range	The Time range when will be applied part time	0-24
Rate (%)	Rate for original room charge	0-100
Remark	Title for part time rate	

1.5.20.9 Dial One digit Service – PGM Code 508

Selecting the Dial One Digit Service returns the page shown, Figure 1.5.20.9-1.

Figure 1.5.20.9-1 Dial One Digit Service

When a guest dials only one digit (0~9,*, #) and waits for a certain period of time, a call is made to a specific extension (front desk, service station), enabling a guest to call a front desk or a service station easily.

If there are one-digit numbering plan codes, one digit service is not available for those digits. That is, if the CO Group Access Code value is set to 9 in CO Group Access Code (PGM 114), then One Digit Service for digit 9 is not available. Or, if the Attendant Call feature code is set to 0 in Feature Numbering Plan (PGM 113), then One Digit Service for digit 0 is not available. In addition, this feature is not available for office extension.

Table 1.5.20.9-1 Hotel General Info

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Digit "1"	Determines the destination number for digit "1". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "2"	Determines the destination number for digit "2". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "3"	Determines the destination number for digit "3". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	

Table 1.5.20.9-1 Hotel General Info

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Digit "4"	Determines the destination number for digit "4". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "5"	Determines the destination number for digit "5". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "6"	Determines the destination number for digit "6". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "7"	Determines the destination number for digit "7". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "8"	Determines the destination number for digit "8". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "9"	Determines the destination number for digit "9". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "0"	Determines the destination number for digit "0". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "*"	Determines the destination number for digit "*". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	
Digit "#"	Determines the destination number for digit "#". Feature code / Group no./ STA no(Front Desk, Service Station, etc) can be assigned to destination.	Max 8 digits	

1.5.20.10 Check In/Out

Selecting Check In/Out will display the page shown, Figure 1.5.20.10-1.

Figure 1.5.20.10-1 Check In/Out

• Check-In/Modify status of room: This feature allows operator to check in and modify status of room. Click **[CI]** or **[Mo]** button, then new input entry page will be displayed, Figure 1.5.20.10-2 or Figure 1.5.20.10-3.

Figure 1.5.20.20-2 Check In

Figure 1.5.20.10-3 Modify

Table 1.5.20.10-1 Check In/Modify

ATTRIBUTE	DESCRIPTION	REMARK
Guest Name (Station Name)	Guest Name, The name is displayed on the LCD of Digital Phone.	Max 16 characters
Guest Type	Specify guest type (VIP or non-VIP)	NON VIP / VIP
Room Status	This is only available in 'Modify' mode. Update maid status for guest room checked in.	TO BE CLEANED/ UNDER CLEANING/ READY FOR SALE/ OUT OF SERVICE/ UNDER REPAIR/ REPAIR COMPLETE/ ROOM OCCUPIED
COS Day/Night/Timed	Specify Guest's COS (Class-of-Service). Which determines the ability of the user to dial certain types of calls, refer to Table 2.3.3.6-1,2. Separate COS assignments are made for Day, Night and Times Mode system operation. Maximum level of COS privileges is 16 (0~15). These privileges are represented in Toll Exception Table (PGM 250). This COS interacts with the CO Line COS to establish overall dialing or Toll restrictions.	0 ~ 15

Table 1.5.20.10-1 Check In/Modify

ATTRIBUTE	DESCRIPTION	REMARK
Digit Conversion Table	The Digit Conversion Table index is assigned to the Guest Station.	MG100 system: 1-5 MG300 system: 1-9
LCD Language Display Mode	Sets the Language used in the Guest Station's LCD	English/ Italian/ Finnish/ Dutch/ Swedish/ Danish/ Norwegian/ Hebrew/ German/ French/ Portuguese/ Spanish/ Korean/ Estonian/ Russian/ Turkish/ Polish/ Greek
Voice Prompt Type	Selected language type prompt is played to the guest when accessing the VMIB. It is same as 'Prompt Language Index' in PGM 145.	1, 2, 3
PMS Group ID	It defines that the guest is included in a particular PMG group.	0 ~ 10000
Wake-Up (HHMM)	Ser wake-up time	HHMM, repeat
Intercom Enable	System is able to enable/disable call between different PMS groups. If this field is ON, guest rooms can make an internal call to other rooms. If this field is OFF, only guest rooms with the same PMS group ID can call each other.	OFF/ON
Cut-Off	The use of CO lines from guest stations can be allowed or denied by this.	OFF/ON
Authorization Code (Password)	Define the guest's password. It is same as 'Password' in PGM 131.	Max 12 Digits (0~9)
Check-Out Date/Time	Specify when the guest will check out.	mm/dd/yyyy hour (0~23)
Bath Alarm	Enable/disable bath alarm feature	OFF/ON
Prepaid Money	Register/change Prepaid money	0 ~ 999999
Room Monitor	Enable/disable room monitor (baby listening)	OFF/ON
Call Charge Rate	Define call charge rate This Call Charge Rate index is linked with Rate for Call Charge Rate Admin PGM504	1 ~ 6
Room Class	Define room class This Room Class index is linked with Rate for Room Class Admin PGM503	1 ~ 20

- Check-Out: This feature allows operator to check out of rooms. Click "CO" button, then new page will be displayed, Figure 1.5.20.10-4. Ay this web page, if receipt is needed, then clicks the "Receipt" button. New page will be popped-up Figure 1.5.20.10-5.

Figure 1.5.20.10-4 Check Out

Figure 1.5.20.10-5 Receipt

1.5.20.11 Display Room Charge

Selecting Display Room Charge will display the page shown, Figure 1.5.20.11-1.
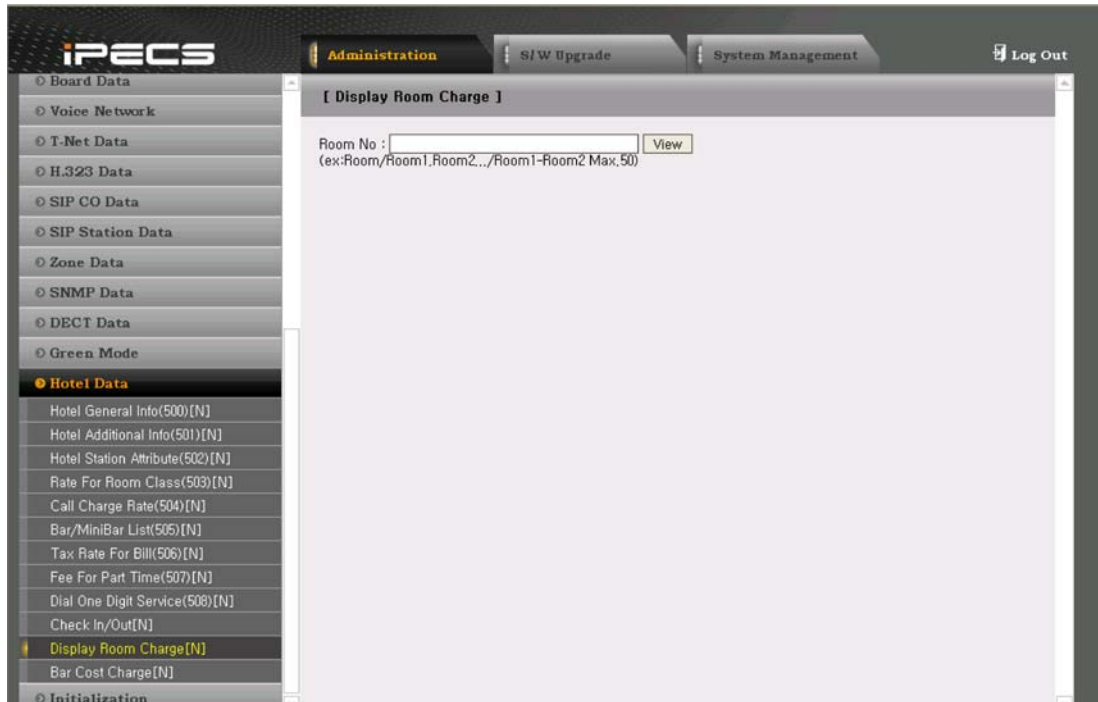
Figure 1.5.20.11-1 Display Room Charge

This feature is used to display each room total charge. Fill the Room No field and press "View" button, then total charge of room will be displayed.

Table 1.5.20.11-1 Display Room Charge Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Room	Type room number to see detail room charge. There are 3 methods to see room charge. 1. Input single room number (ex: 100) 2. Input multiple room number (ex: 100, 101, 105) 3. Input room range (ex: 100-110)	

1.5.20.12 Bar Cost Charge

Selecting Bar Cost Charge will display the page shown, Figure 1.5.20.12-1.
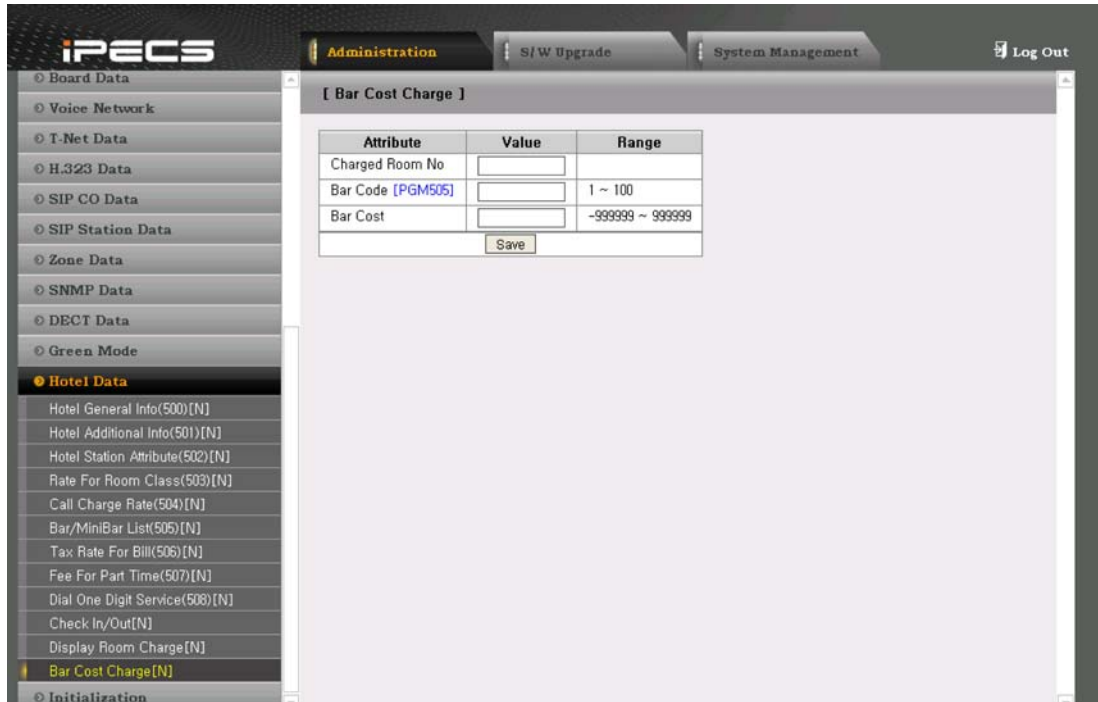
Figure 1.5.20.12-1 Bar Cost Charge

Mini-bar charge of each room can be registered from this menu. It can be displayed or printed upon hotel charge display and check-out.

Table 1.5.20.12-1 Bar Cost Charge

ATTRIBUTE	DESCRIPTION	DEFAULT
Charged Room No	Guest station room number	
Bar Code	Bar Code Index among MiniBar List Table	1 ~ 100
Bar Cost	(mini) Bar Cost	-999999 ~ 999999

1.5.21 Initialization

Selecting Initialization will return the sub-menu in Figure 1.5.21-1.

Figure 1.5.21-1 Initialization

1.5.21.1 Initialization – PGM Code 499

Selecting Initialization will display the page shown, Figure 1.5.21.1-1.
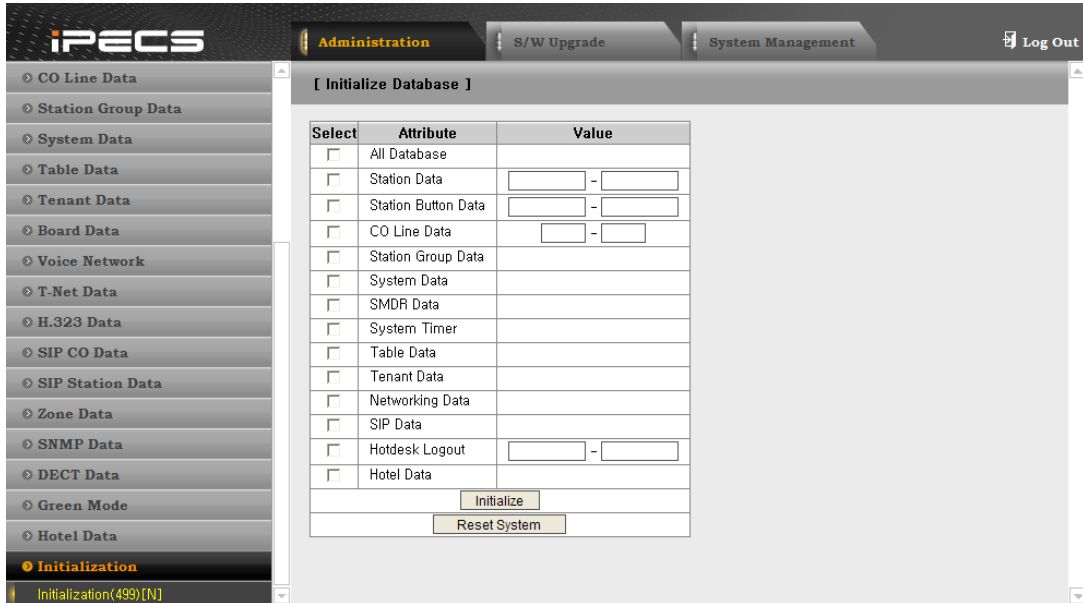
Figure 1.5.21.1-1 Initialization

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 will appear corrupted. The system can be initialized manually during installation, refer to the *iPECS-MG Description & Installation Manual*, Section 4.4.1.2. After Initialization, the system should be reset.

Table 1.5.21.1-1 INITIALIZATION

DISPLAY	REMARK	RANGE
All Database	Initialize all databases.	-
Station Data	Initialize station-based data (except flexible button data).	Desired station range (init whole data when no range)
Station Button Data	Initialize flexible button data.	Desired station range (init whole data when no range)
CO Line Data	Initialize CO line-based data.	Desired CO line range (init whole data when no range)
Station Group Data	Initialize Station Group-based data.	
System Data	Initialize System-based data.	
SMDR Data	Initialize SMDR data.	
System Timer	Initialize System Timers.	
Table Data	Initialize Table-based data.	
Tenant Data	Initialize Tenant Group-based data.	
Networking Data	Initialize Networking data.	
SIP Data	Initialize SIP data.	
Hot Desk Logout	Force to Log-out Hot Desk Agent.	Desired station range
Hotel Data	Initialize Hotel data	
Reset System	Restart the system	

1.6 File Upload & Upgrade

The iPECS-MG systems employ a NAND based memory file system; HTML, MPB upgrade and iPECS-MG appliance image files can be uploaded. Selecting S/W Upgrade from the main Web screen returns the page shown and sub-menus as shown, Figure 1.6-1.

Figure 1.6-1 File Upload & Upgrade

In addition to the appliance image, prompts, system greetings and BASE upgrade image can be uploaded. Prompt upgrade supports both VMIB and AAFU. System greetings are only supported in AAFU format, both upload and download can be done. BASE upgrade support upgrading BASE connected to WTIB.

1.6.1 File Upload

From the File Upload page (Figure 1.6.1-1 File Upload), select files to upload to system memory and click the **[Upload]** button. File Upload menu is not only employed for MPB upgrade, but also for G/W upgrade and VMIB prompt upgrade. MPB upgrade is completed just as uploading MPB S/W file. MPB S/W file is sent to the system memory, saved and automatically loaded upon a system reset or restart. HTML image files included MPB S/W file are extracted and previous HTML files are deleted on completion of the upload process. G/W and Prompt upgrade need more steps after uploading G/W upgrade file and Prompt file.(refer to 1.6.2 G/W upgrade and 1.6.4 VMIB Prompt Upgrade).
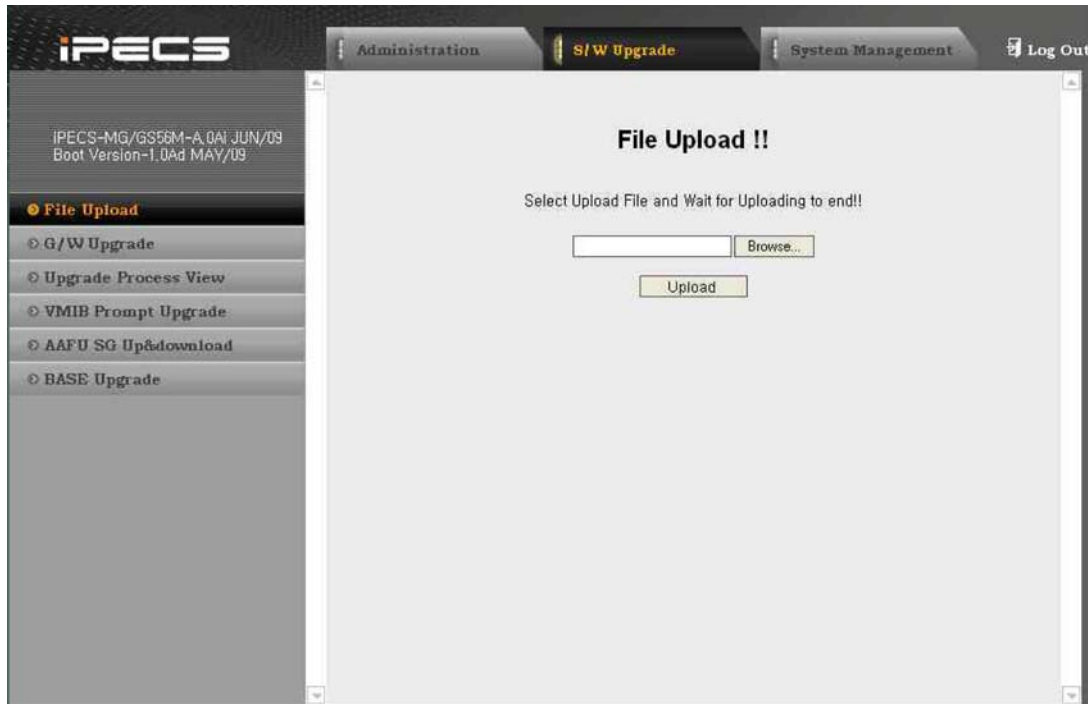
Figure 1.6.1-1 File Upload

NOTE
If file upload succeeds, a success Confirmation page will be displayed.

1.6.2 G/W Upgrade

If the iPECS-MG Appliance image file is uploaded (including already-uploaded files), all uploaded appliance image files will be listed along with the type, as shown, Figure 1.6.2-1 G/ W Upgrade.

1. If the desired appliance image file is not uploaded, upload the appliance file using the "File Upload" menu.
2. Click **[Select]**; the corresponding appliances are displayed.
3. Select the appliances to upgrade.
4. Click **[Upgrade]**; the upgrade process will start and a progress screen will be displayed.

NOTE
If the Appliance is already in the process of an upgrade, Figure 1.6.2-2 Upgrade Process Working is displayed to indicate the upgrade in process.

Figure 1.6.2-1 G/W Upgrade

Figure 1.6.2-2 Upgrade Process Working

1.6.3 Upgrade Process View

The Upgrade Process View provides a status window (Figure 1.6.3-1 Upgrade Process View); not only for appliance board and terminal upgrade activity in process but also VMIB prompt upgrade.
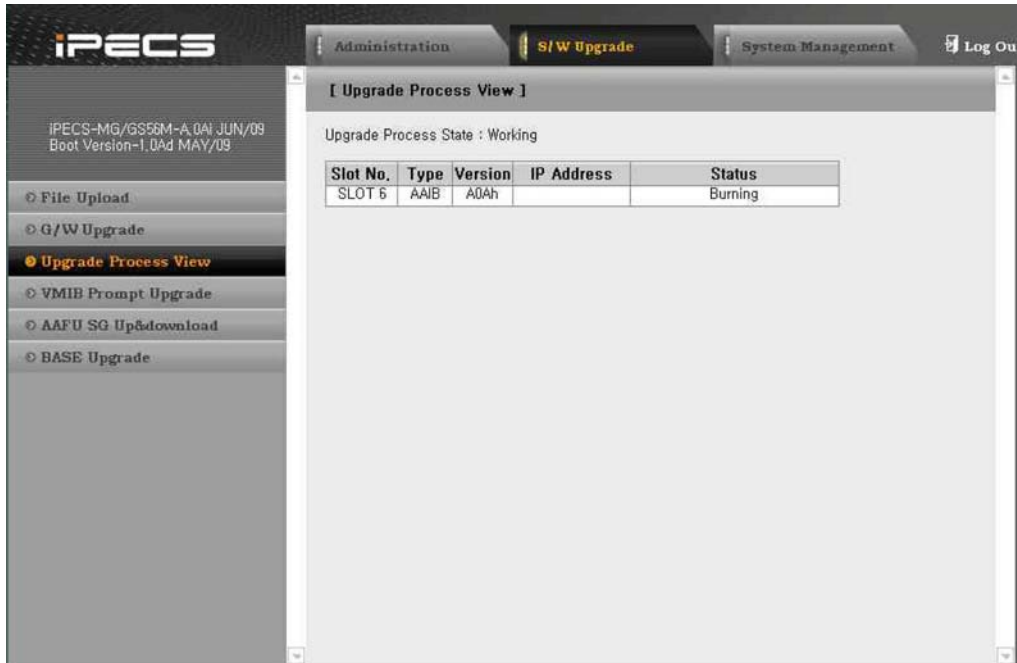
Figure 1.6.3-1 Upgrade Process View

1.6.4 VMIB Prompt Upgrade

AAFU and VMIBs inserted in the iPECS-MG system have their own prompt. As in G/W
Upgrade, prompt files should be uploaded in the systems memory first, then perform the
following:

1. After uploading the desired prompt files at the "File Upload" menu, move to this
   "VMIB Prompt Upgrade" menu.
2. Select the prompt file to upgrade and Click **[Select]** button.
3. Select the desired VMIB slot and prompt index.
4. Click **[Upgrade]** button, as shown in Figure 1.6.4-1 VMIB Prompt Upgrade and then
   the upgrade process will start and a progress screen will be displayed as in G/W
   upgrade.
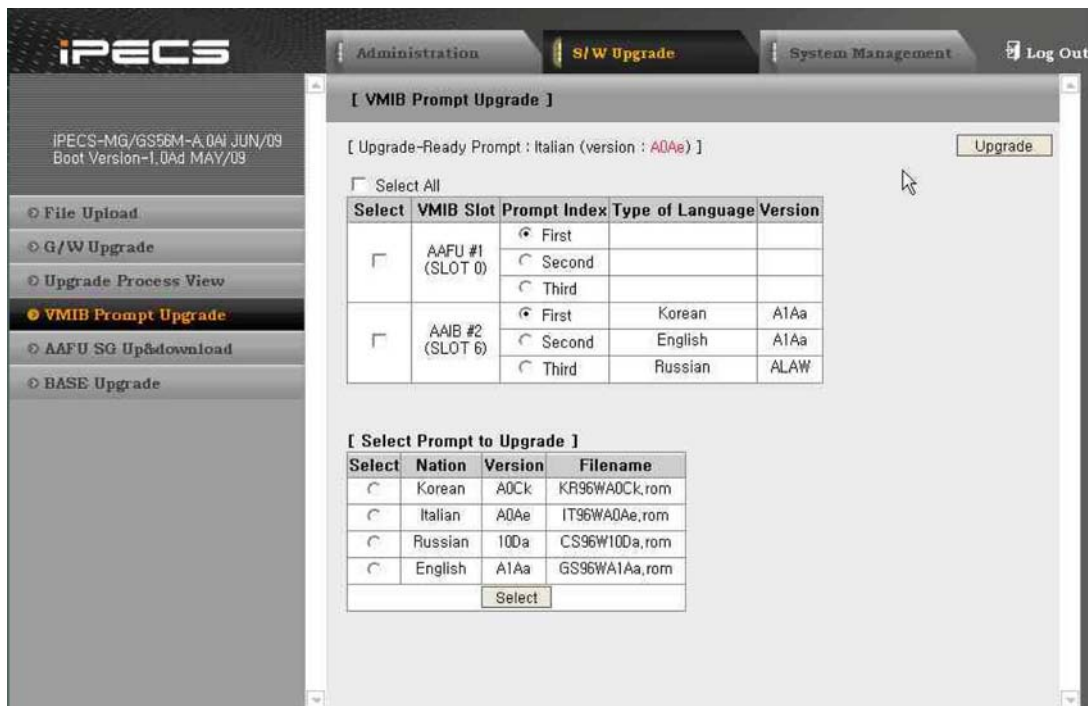
Figure 1.6.4-1 VMIB Prompt Upgrade

1.6.5 AAFU System Greeting Up & Download View

The following screens display Upload and Download of AAFU System Greetings.
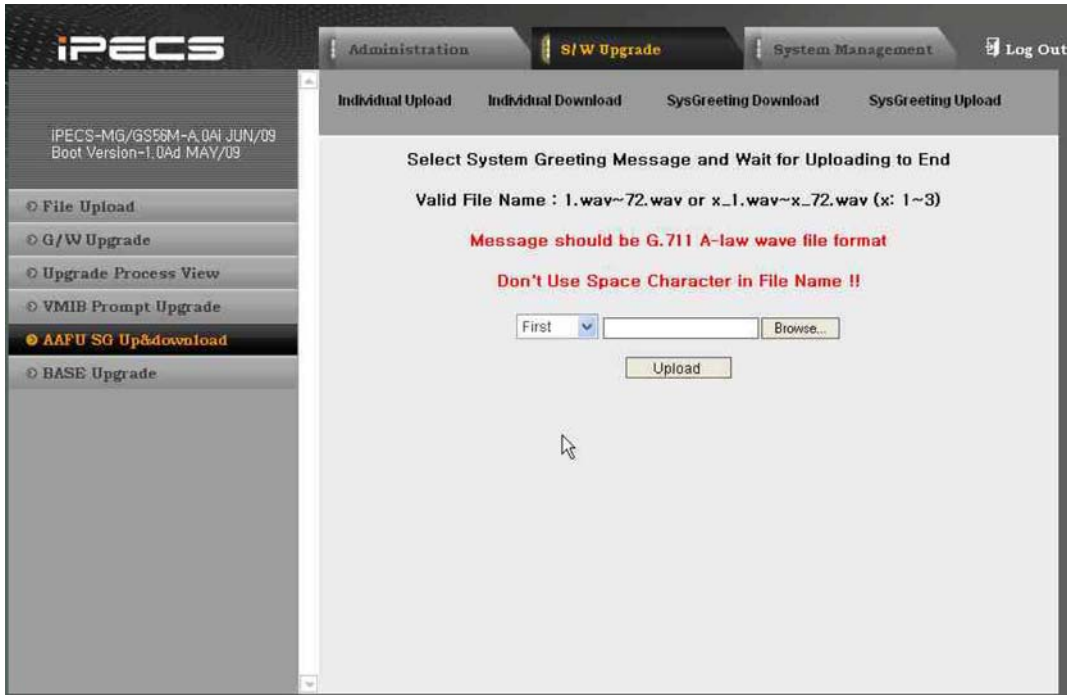
Figure 1.6.5-1 AAFU System Greeting Individual Upload View
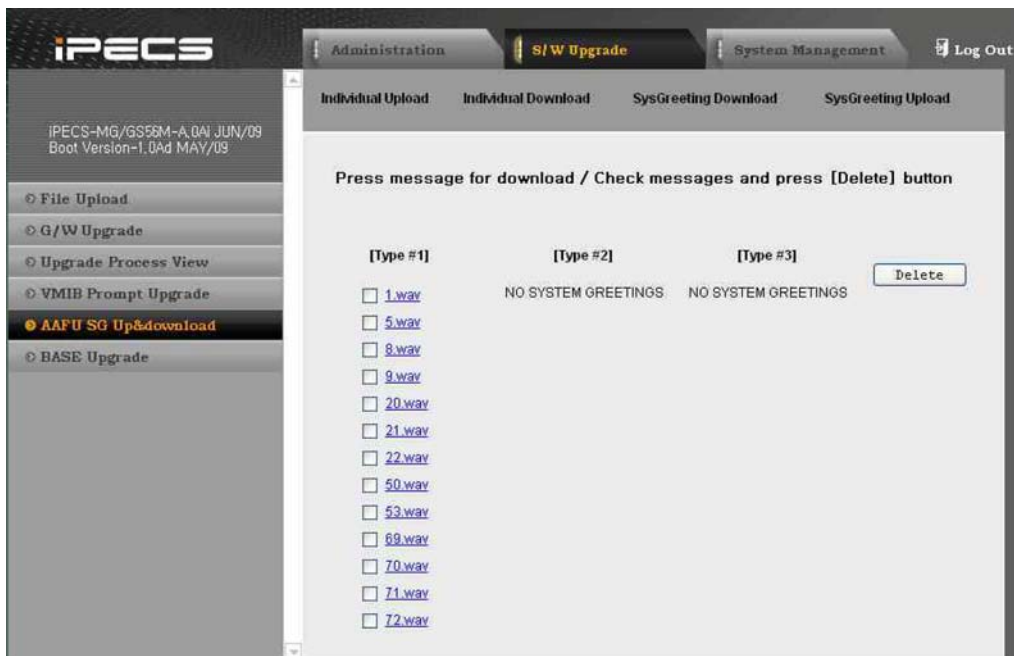
Figure 1.6.5-2 AAFU System Greeting Individual Download View
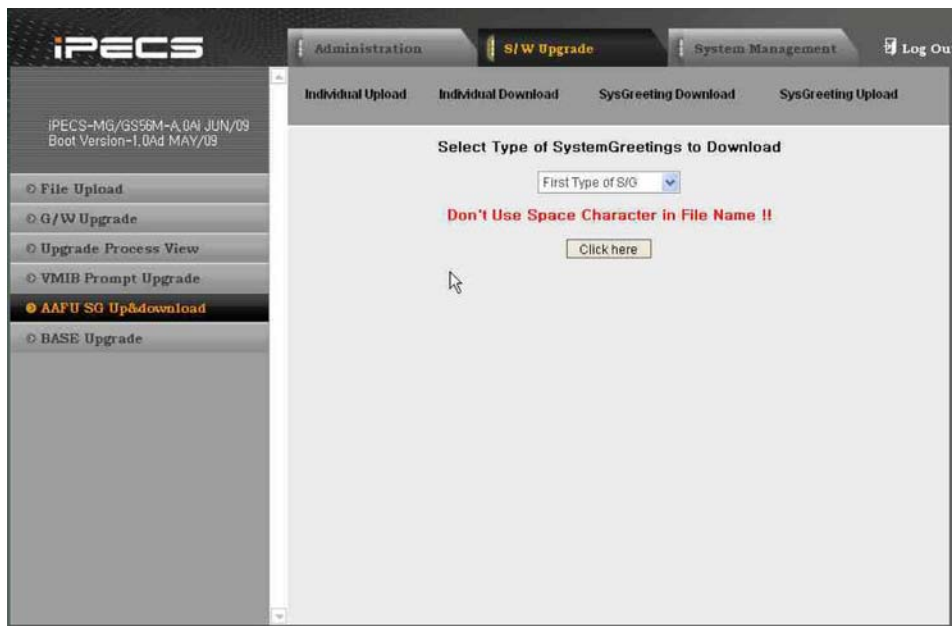
Figure 1.6.5-3 AAFU System Greeting Download View
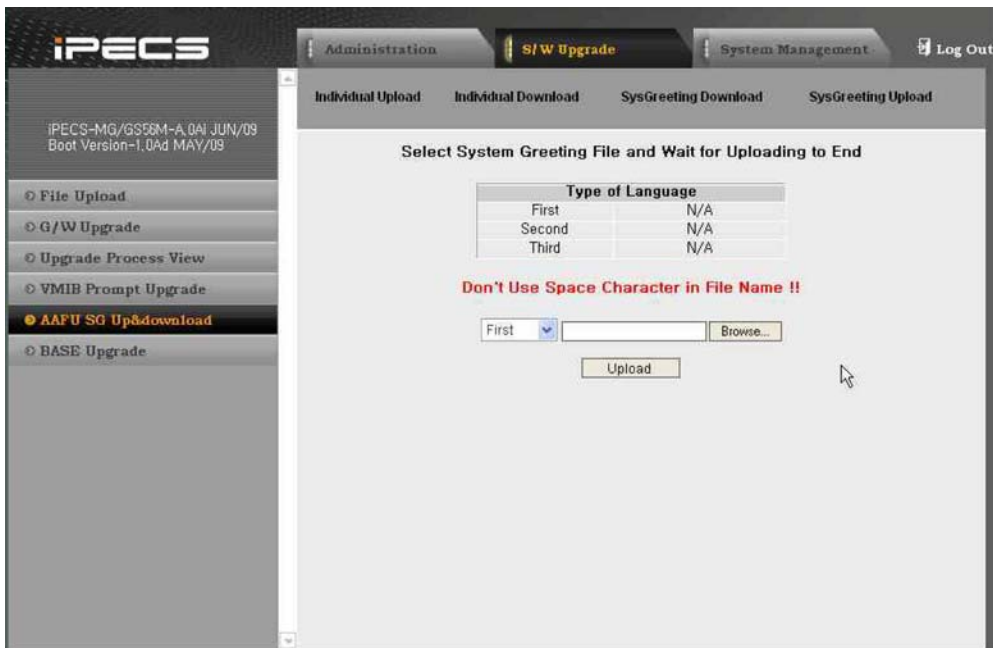
Figure 1.6.5-4 AAFU System Greeting Upload View

1.6.6 WTIB Base Upgrade

WTIBs have two kinds of appliance image files: One for the WTIB itself, and the other for Bases which are connected to WTIB. The WTIB upgrade process is the same as the G/W Upgrade process. In addition to the WTIB (or G/W) Upgrade process, Base upgrade needs one more step to burn the Base image file to the Base. This Base Upgrade menu can be used to burn the Base image file.

1. After uploading the BASE image file in `File Upload' menu, and after upgrading the BASE image file to WTIB in `G/W Upgrade' menu, move to this `BASE Upgrade' menu.
2. Select the desired WTIB slot number to burn BASE image.
3. Click **[Upgrade]** button (shown Figure 1.6.6-1 WTIB Base upgrade).

    NOTE
    In BASE upgrading, the upgrade process view is not provided, because BASE image burning time is long and the number of BASE is variable. But, this page will be renewed automatically every 10 seconds for notifying upgrade status of BASE after clicking **[Upgrade]** button.

Figure 1.6.6-1 WTIB Base Upgrade

1.6.7 iPECS-MG System Upgrade Process
1.6.7.1 iPECS-MG Software Full Upgrade Sequence

The following shows the order in which the upgrade process proceeds with application software and firmware files for iPECS-MG MPB and other boards.

NOTE
The xxxx in the ROM file names indicates the version number of the file.

To upgrade the MPB:

1. Upload MPB application image.

    Ex.,

IPECS-MG 100
GS55Mxxxx.rom (xxxx indicates the version)
iPECS-MG 300
GS56Mxxxx.rom (xxxx indicates the version)

2. Restart MPB.

To upgrade the Appliances:

1. Upload Appliance application image to MPB.

    Ex.,

BRIB application image:
GS55Nxxxx. rom (xxxx indicates the version)
PRIB/R2 application image:
GS55Qxxxx. rom (xxxx indicates the version)
SLIB12/32 application image:
GS55Sxxxx. rom (xxxx indicates the version)
VMIB/AAIB application image:
GS55Vxxxx. rom (xxxx indicates the version)
VOIB application image:
GS55Txxxx. rom (xxxx indicates the version)
WTIB application image:
GS55Uxxxx. rom (xxxx indicates the version)

2. Select the G/W Upgrade page.
3. Select appliances application image.
4. Select target appliances & Upgrade application image.
5. Wait until upgrade process completes.
6. Automatically restart when upgrade completes successfully.

To upgrade Voice Prompts in the VMIB/AAFU:

1. Upload voice prompt image to MPB.
   Ex.,

Voice prompt file-
??96Wxxxx. rom (?? Is nation, i. e. GS, DM, KR, etc. ; xxxx indicates the version)

2. Select the VMIB Prompt Upgrade page.
3. Select the desired voice prompt image.
4. Select the target VMIB and first/second/third prompt index for multiple language voice prompt & upgrade voice prompt image.
5. Upgrade confirmation will display.

To upload/download System Greetings to/from AAFU:

1. Select AAFU SG Up&Download
2. Select the Upload/Download Type (Individual upload, SysGreeting download, Individual download, SysGreeting upload).
3. Upload or download the desired system-greeting file.
   Ex.,

System Greeting individual file:
x_y. wav (x indicates system greeting type; y indicates system greeting index)
System Greeting rom file:
SYTYPEx. rom (x indicates system greeting type)

To upgrade the WTIB Base:

1. Upload Base image to MPB.
   Ex.,

Base image:
GS55Jxxxx. rom (xxxx indicates the version)

2. Select G/W Upgrade page.
3. Select BASE image.
4. Select target WTIB & Upgrade.
5. Upgrade confirmation will display.
6. Select BASE Upgrade page.
7. Select the target WTIB & Upgrade.
8. Upgrade confirmation will result in refreshing the current page.

1.6.7.2 MPB Upgrade

First, confirm the most recently upgraded version of the MPB, then upload the desired ROM files and reset the system. If the new system database is not compatible with the existing system database, it will be necessary to initialize the system database manually using the Dip-switch on the MPB (Section 1), or use the Initialization process found in Section 1.3 of the ***iPECS-MG Administration & Maintenance Manual***. Upgrading the MPB includes HTML files (a separate upload of the HTML files is not required).

1.6.7.3 Upgrade HTML Files

In the File Upload Menu, upload the system`s HTML files and reloads the page. HTML file upload generally takes about 5 - 10 minutes. Most of the HTML files are included in MPB, so individual HTML upload is not needed.

1.6.7.4 Appliances Upgrade (Gateway Board and IP Phone)

To upgrade appliances:

1. Upload appliance image, and click on G/W Upgrade.
2. Select appliance image.
3. If appliance image is selected, click **[Select]**.
4. Select appliances.
5. If appliances are selected, click **[Upgrade]**; the page shown in Figure 1.6.3-1 will be displayed indicating the Upload command has been sent and the upgrade process is in progress.
6. When the appliance upgrade process is successful, the status will display Success.
7. If the upgrade process fails, the process will be attempted three (3) more times before being abandoned.

1.6.7.5 Voice Prompt Upgrade

To upgrade Voice Prompts:

1. Upload the voice prompt image, and click VMIB Prompt Upgrade.
2. Select the desired voice prompt image.
3. If voice prompt image is selected, click **[Select]**.
4. Select AAFU/VMIBs.
5. If AAFU/VMIB is selected, click **[Upgrade]**; the page shown in Figure 1.6.3-1 will be displayed indicating the Upload command has been sent and upgrade process is progress.
6. When the voice prompt upgrade process is successful, the status will display Success.
7. If the upgrade process fails, the process will be attempted three (3) more times before being abandoned.

1.6.7.6 WTIB Base Upgrade

To upgrade the WTIB BASE:

1. Upload Base image, and click G/W Upgrade.
2. Select BASE image.
3. If Base image is selected, click **[Select]**.
4. Select WTIBs.
5. If WTIBs is selected, click **[Upgrade]**; the page shown in Figure 1.6.3-1 will be displayed indicating the Upload command has been sent and upgrade process is in progress.
6. When the appliance upgrade process is successful, the status will display Success.
7. If the upgrade process fails, the process will be attempted three (3) more times before being abandoned.
8. After successful upgrade, click **[Base Upgrade]** to select WTIBs.
9. If WTIBs are selected, click **[Upgrade]**.
10. The upgrade will be confirmed when page is automatically refreshed.

1.7 System Management

The System Management tab from the main screen permits download of all or portions of the system database, and downloading and viewing of SMDR data, Figure 1.7-1.
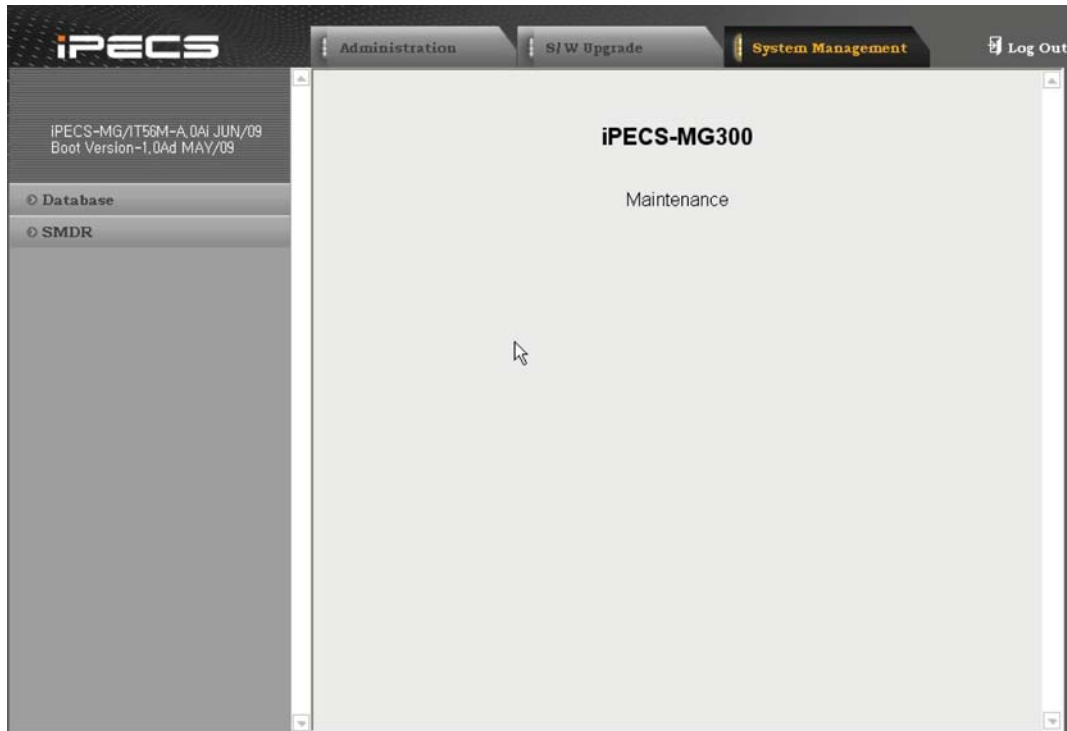
Figure 1.7-1 System Management

1.7.1 Database

Selecting the Database menu item will display the Database sub-menu items, Figure 1.7.1-1.
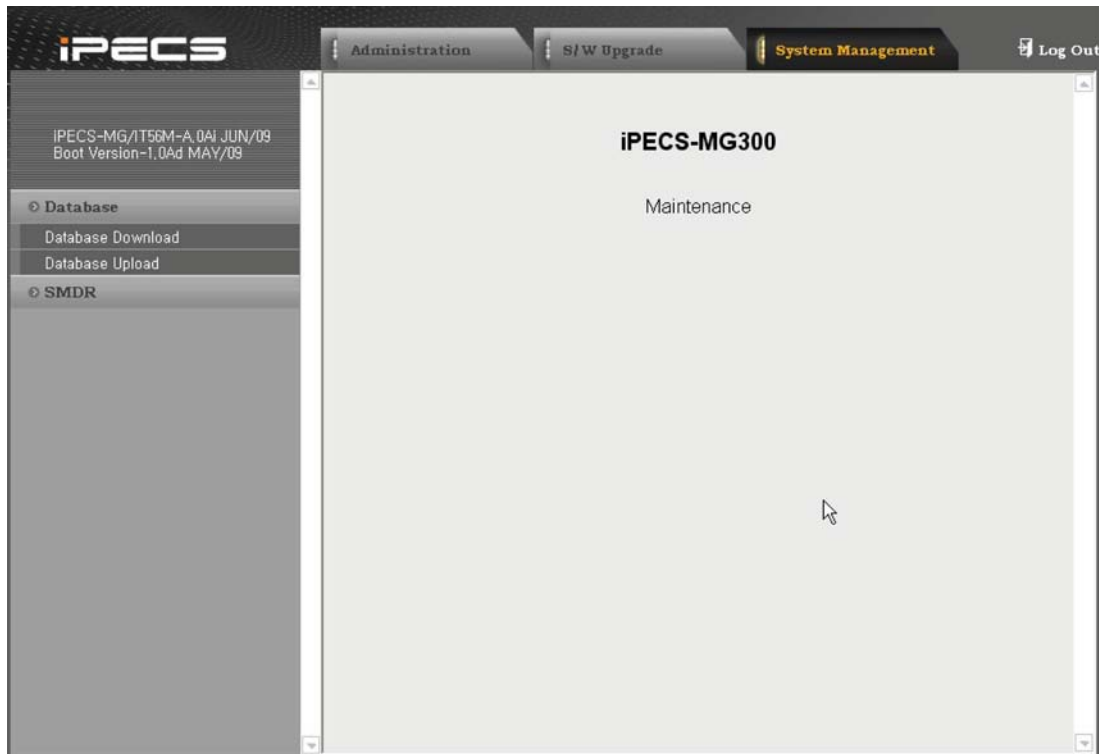
Figure 1.7.1-1 Download & Upload sub-menu

1.7.1.1 Database Download

Selecting Database Download will display the page shown, Figure 1.7.1.1-1. Selecting this option will download the entire iPECS-MG system database to the local PC, and also allows the database in the PC to be uploaded to an iPECS-MG system using the File Upload procedure (Section 1.7.1.2).
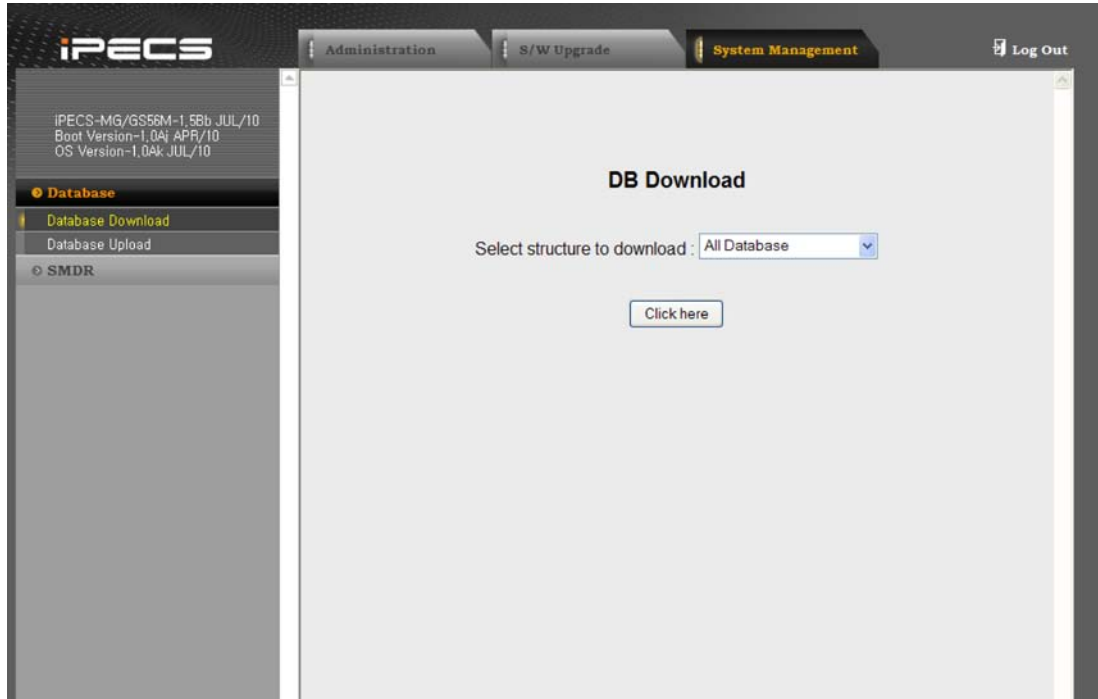
Figure 1.7.1.1-1 Database Download

To download the database:

1. Click on the **[Click here]** button; the File Download window will display.
2. Save files to disk.

NOTE
The following screen will appear for all download processes.
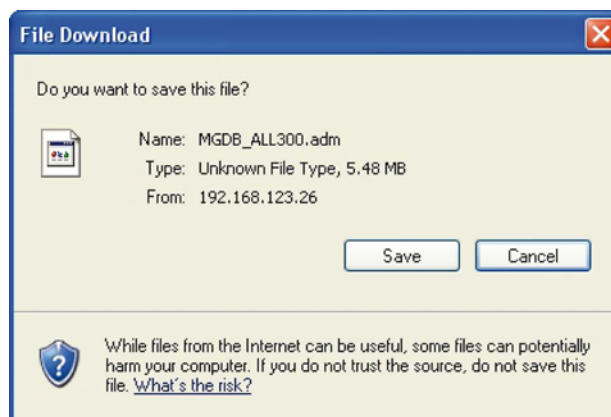
Figure 1.7.1.1-2 Database File Save dialog

1.7.1.2 Database Upload

The Database Upload selection will display the page shown, Figure 1.7.1.2-1. By selecting the database file from the local PC, the desired database can be uploaded to the iPECS system database.
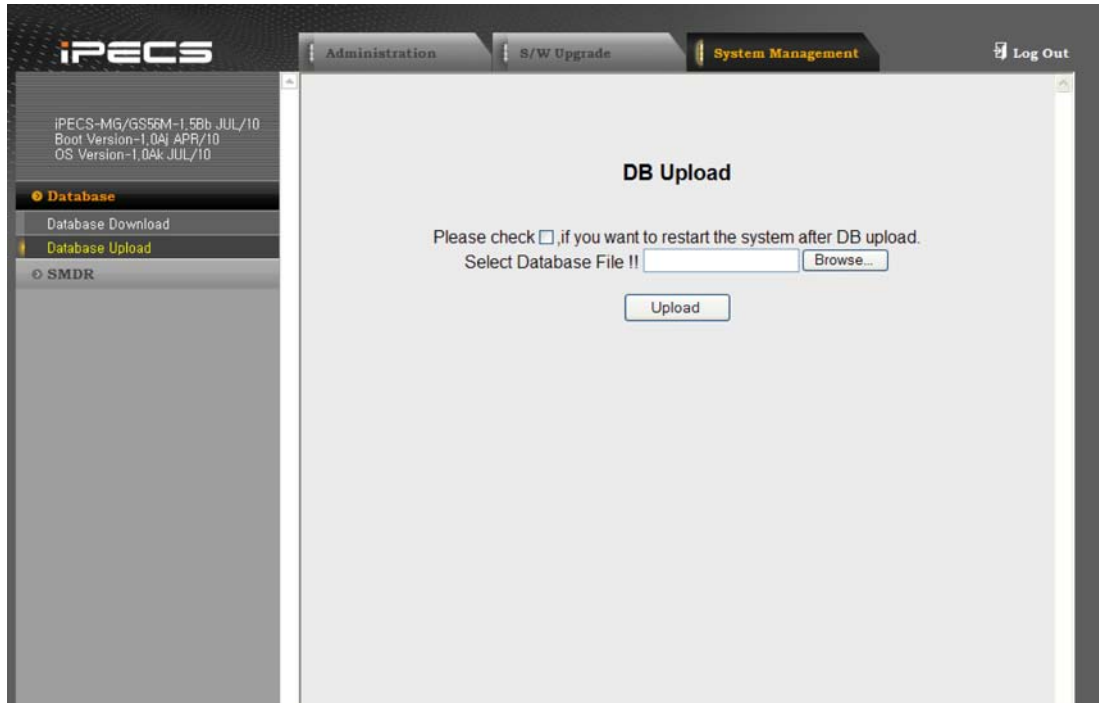
Figure 1.7.1.2-1 Database Upload

1.7.2 SMDR

The iPECS-MG system can download SMDR data in a SYLK format file (.slk). This file can be opened using any common spreadsheet application. The system will provide three types of view of SMDR data - Station range date, Non Station date and All SMDR date. (Figure 1.7.2-1). This page may also be used to delete SMDR records.
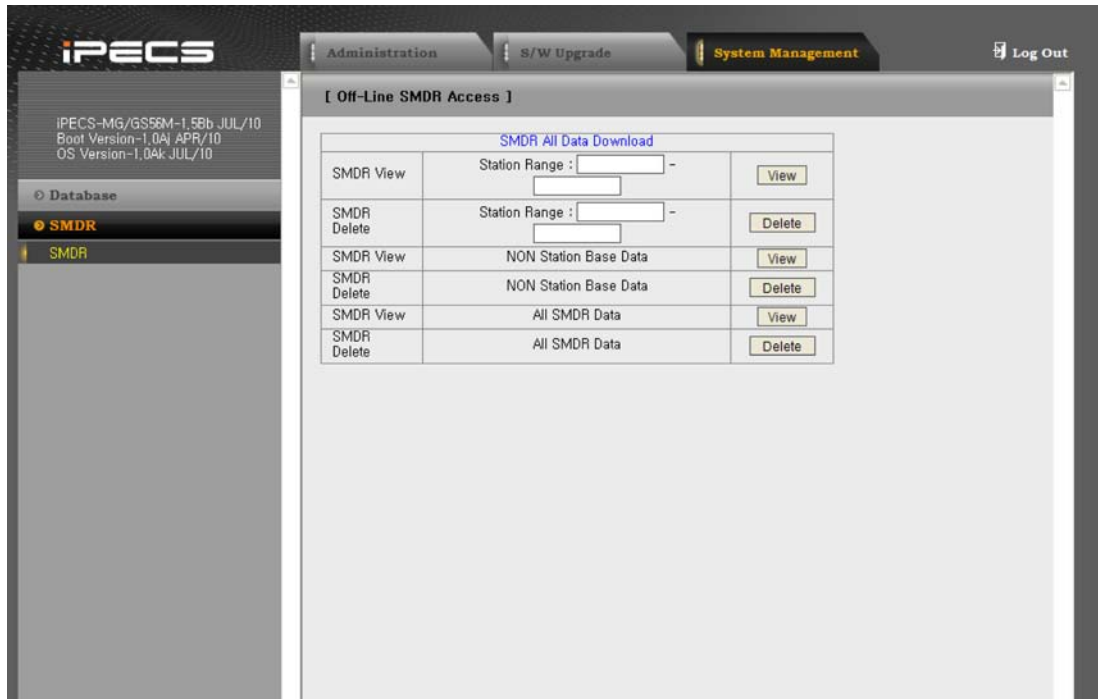
Figure 1.7.2-1 SMDR Access

1.8 Station Program (User Portal)

In Figure 1.2.3-1 Station Password page, enter a station number and password, then 'click' the **[Login]** button to access the Station Program Main Page, refer to Figure 1.8-1.
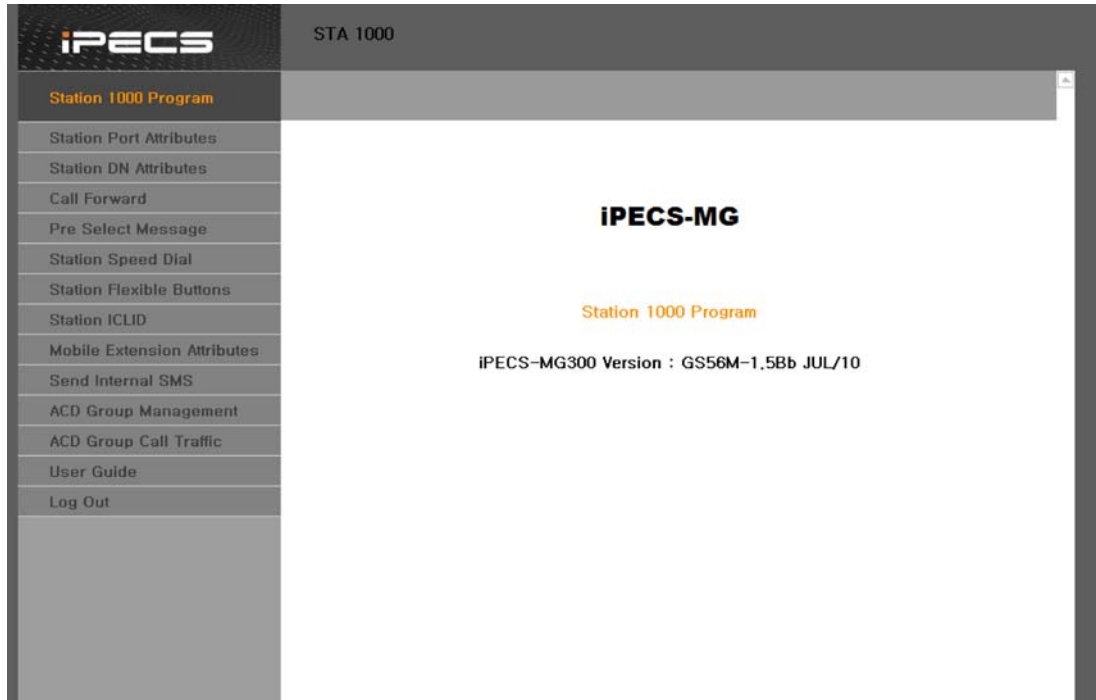
Figure 1.8-1 Station Program Main Page

In the Station Program User Portal, users can modify various station attributes, set-up call forwarding, assign flexible buttons, program Station Speed dial numbers and send SMS. The following sections provide details on each of the available Station Program User portal Web pages.

The Station Program User portal main page has three sections,

- Station selected – Upper frame
- Web site directory & navigation section – Left frame
- Info and Entry section – Central frame

1.8.1 Station Port Attributes

Selecting Station Port Attributes will display the input entry page, Figure 1.8.1-1.

Figure 1.8.1-1 Station Port Attributes

Station Port Attributes define the specific features and functions available to the installed terminal.

Table 1.8.1-1 Station Port Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Headset Mode	Determines if Speakerphone mode, Headset mode or Ear Mic Mode will be used.	0: Speaker 1: Headset 2: E-MIC	Speaker
Headset Ring	In Headset mode, this item selects device to receive incoming ring signals.	0: Speaker 1: Headset 2: Both 3: E-MIC	Speaker
Use Bluetooth	If Bluetooth is supported at the station, you can determine whether station's Bluetooth is used or not.	0: OFF 1: ON	OFF
LCD language Display Mode	Sets the Language used in the Station's LCD; refer to Table 2.3.3.2-2.	English Italian Finnish Dutch Swedish Danish Norwegian Hebrew German French Portuguese Spanish Korean Estonian Russian	English
LCD Date Display Mode	Sets the Station Date display as month/day or day/month.	1: DDMMYY 0: MMDDYY	DDMMYY
LCD Time Display Mode	Sets the Time display mode as 12 hour or 24-hour (military) time.	1: 12 Hour Mode 0: 24 Hour Mode	12 Hour
Backlight Usage	If a station can support LCD backlight, you can set backlight usage option.	0: Always Off 1: Busy Only 2: Always On 3: Auto (PGM 281-7) 4: Delayed Off	Busy Only
LIP-8000 Phone Font	Determines if Times New Roman or Gothic font is used.	0: Times New Roman 1: Gothic	Gothic
LIP-8000 Phone LCD Brightness	LIP 8000 Series terminal can adjust LCD brightness.	00-15	07
Intercom Answer Mode	Selects Handsfree, Privacy or Tone ring ICM Signaling mode.	1: Handfree 2: Tone 3: Privacy	Tone
Message-Wait Indication	Determines the way to notify a station of wait message.	0: N/A 1: Ring LED 2: MW Remind Tone 3: Ring LED + Tone	MW REMIND TONE
BGM	Enables background music. The BGM is played while the phone is idle.	No BGM Internal Music External Music VMIB MOH1 VMIB MOH2 VMIB MOH3 VMIB MOH4 (MG 300 Only)	No BGM

		SLT MOH1	
	324	SLT MOH2	
		SLT MOH3	
		SLT MOH4	
		SLT MOH5	

1.8.2 Station DN Attributes

Selecting Station DN Attributes will display the input entry page, Figure 1.8.2-1.

Figure 1.8.2-1 Station DN Attributes

Station Directory Number Attributes define features and functions available to the station directory number.

Table 1.8.2-1 Station Directory Number Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Name	Enables user name entry. The name is displayed on the LCD of Digital Phones.	Max. 16 Chars	-
Password	Password is 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 the input of a valid password.	0-12 digits	-
DND	Activate or deactivate DND.	OFF/ON	OFF
Wakeup Time	Assign Wakeup Time.		-
Attendant Wakeup Time	If attendant, assign other station's wakeup time.		-
VMIB Urgent Message No	Displays the number of urgent messages.	0 ~ 250	0
VMIB New Message No	Displays the number of new messages.	0 ~ 250	0
VMIB Saved Message No	Displays the number of saved messages.	0 ~ 250	0
VM MSG-SMTP Mail Server Address	SMTP Mail Server Address.	IP address	-
VM MSG-User Mail Address	User Mail Address that will receive the e-mail.	IP address	-
VM MSG-SMTP Mail Server ID	SMTP Mail Server ID	Max. 20	-
VM MSG – SMTP Mail Server Password	SMTP Mail Server Password.	Max. 20	-
VM MSG - SMTP Mail Sender Address	Sender Mail Address that will be put in the sender's address field in the e-mail.	Max. 48	

1.8.3 Call Forward

Selecting Call Forward will display the input entry page, Figure 1.8.3-1.

Figure 1.8.3-1 Call Forward

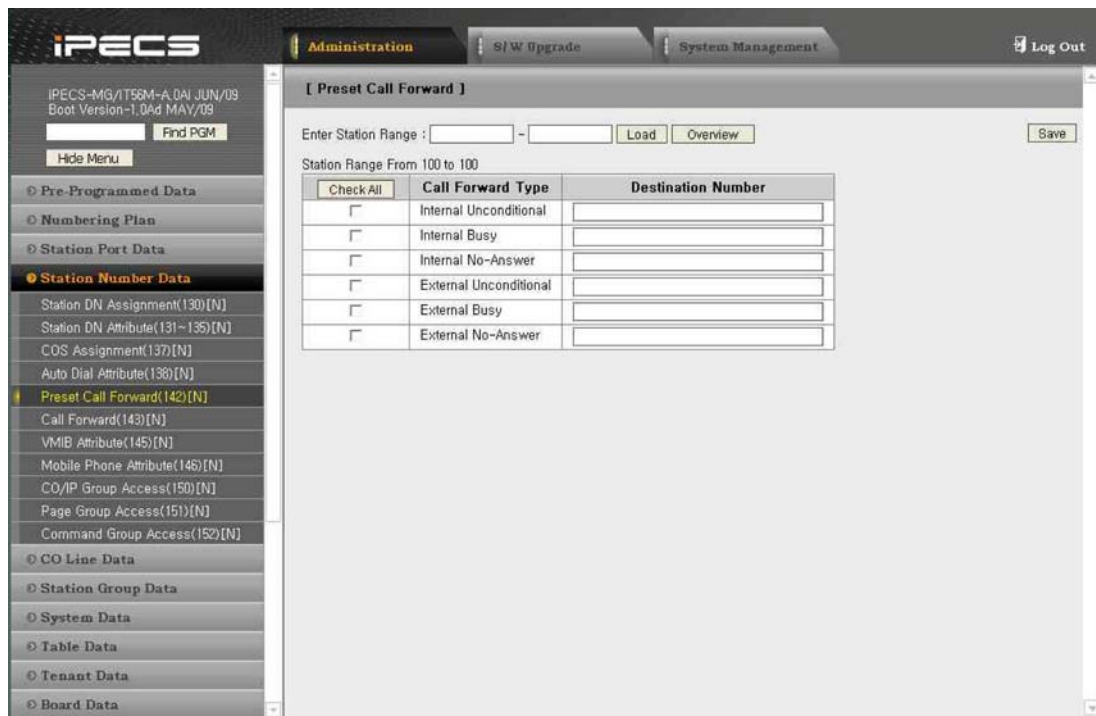### 1.8.3.1 Station Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a station, station group or external number.

Table 1.8.3.1-1 Station Call Forward

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Forward Type	Specify call forward type.	0: Not Assigned 1: Unconditional / 2: Busy 3: No Answer / 4: Busy or No Answer	Not Assigned
Forward Number	Specify Call Forward Destination by entering dial digits.	Max. 32 digits	-
Forward Apply Time	Specify Call Forward Applying Time.	0: All / 1: Day 2: Night / 3: Timed	ALL
CFW No-Answer Timer	Call is forwarded to 'Call Forward Destination,' if station does not respond during this 'CFW NO ANS TMR' timer.	(0-600) sec	15sec
Forward Information Display	Enables Forward Display Option to check forward information in idle state.	0: OFF 1: ON	ON

1.8.3.2 Preset Call Forward

Selecting Preset Call Forward will display the input entry page, Figure 1.8.3.2-1.

Figure 1.8.3.2-1 Preset Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a preset station or station group. This allows an external call 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, External Unconditional, External Busy or External No Answer preset forwarding to any station, station group or external number.

Table 1.8.3.2-1 Preset Call Forward

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Internal Unconditional	The unconditional preset forward destination of internal (intercom) call.	Max 32 digits	
Internal Busy	The busy preset forward destination of internal (intercom) call.	Max 32 digits	
Internal No-Answer	The no-answer preset forward destination of internal (intercom) call.	Max 32 digits	
External Unconditional	The unconditional preset forward destination of external call.	Max 32 digits	
External Busy	The busy preset forward destination of external call.	Max 32 digits	
External No-Answer	The no-answer preset forward destination of external call.	Max 32 digits	

1.8.4 Pre-selected Message

Selecting Pre-selected Message will display the input entry page, Figure 1.8.4-1.

Figure 1.8.4-1 Pre-selected Message

A user can select a message to be displayed on the LCD of a calling Digital Phone. There are ten pre-defined messages (index 1-0), several allow for auxiliary information such as a time, date or number.

A user may activate Custom Display Messaging to send a custom text message to the LCD of a calling Phone.

1.8.5 Station Speed Dial

Selecting Station Speed Dial will display the input entry page, Figure 1.8.5-1.

Figure 1.8.5-1 Station Speed Dial

Each station can store commonly dialed numbers for easy access using Station Speed Dial bins. Each station has access to 50 Speed Dial numbers. Each Speed Dial number can be up to 32 characters in length and may include special instruction codes for analog and ISDN lines. Additionally speed dial name can be entered and Differential Ring type that is used when incoming call`s CLI matches this speed dial digits can be assigned here.

1.8.6 Flex Buttons

Selecting Station Flex Buttons will display the input entry page, Figure 1.8.6-1.
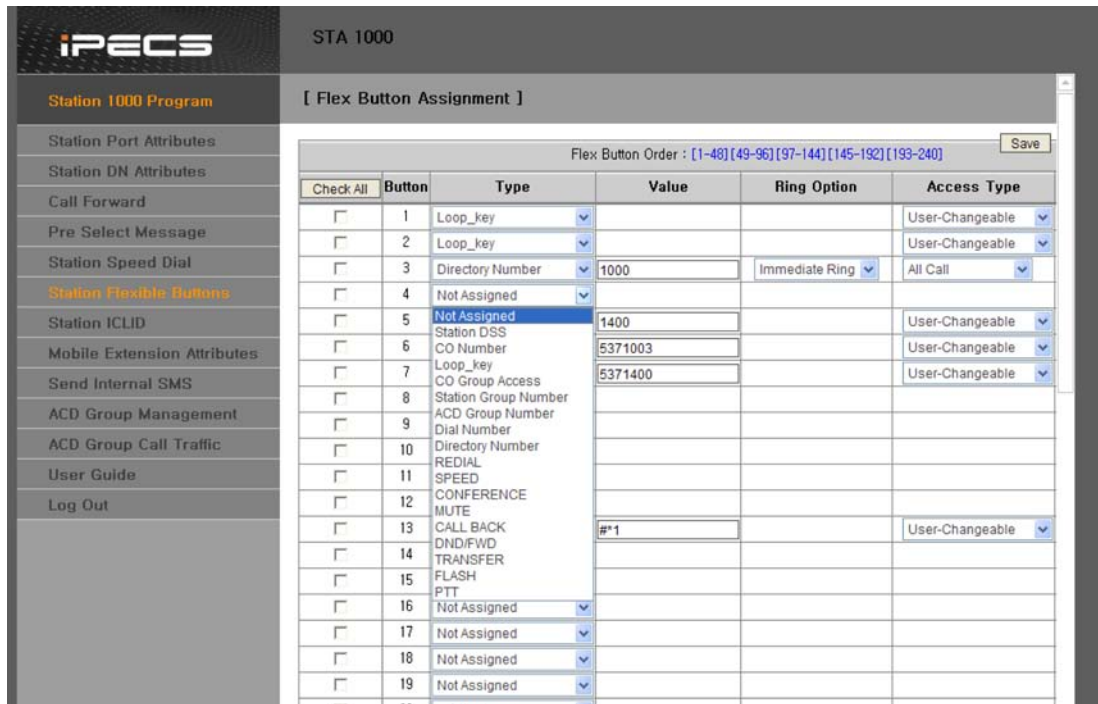
Figure 1.8.6-1 Flex Buttons

Each Flex button for each Phone/DSS Console can be assigned a function (TYPE) from the pull down menu as shown Table 1.8.7-1. After selecting the Type for a button, enter the value, if required.

Table 1.8.6-1 Flex Button Type & Value

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Type	Select button type from available choices: Not Assigned Station DSS: assign station DSS button CO Number: assign CO line button Loop key: assign Loop Key CO Group Access: assign CO Group Access Code Station Group Number: assign station Group Number ACD Group Number: assign ACD Group. Dial Number: assign feature code or digits Directory Number: assign Directory Number REDIAL: assign **[REDIAL]** button SPEED: assign **[SPEED]** button CONFERENCE: assign **[REDIAL]** button MUTE: assign **[MUTE]** button CALL BACK: assign **[CALL BK]** button DND/FWD: assign **[DND/FORWARD]** button TRANSFER: assign **[TRANSFER]** button FLASH: assign **[FLASH]** button PTT: assign **[PTT]** button		
Value	Station Number if button is 'Directory Number' type. Dial digit in other cases.		
Ring Option	The Ring Option of Directory Number (Station Number)		
Access type	Determines Directory Number (Station Number) access type if button is 'Directory Number' type. 0. All call: there is no restriction. 1. Dial After Seizure: Unable to seize only by off-hook when making outgoing calls even if the button is set to prime number button. 2. Incoming only: Unable to make an outgoing call using this button and only answering incoming call is allowed. Or, Button Assignment privilege at the station if button is 'Dial Number' type.		
Name	Button Name		

1.8.7 Station ICLID

Selecting Station ICLID will display the input entry page, Figure 1.8.7-1.

Figure 1.8.7-1 Station ICLID

Each station can assign specific CLI to route other destination.

1.8.8 Mobile Extension Attribute

Selecting Mobile Extension Attributes displays the input entry page, Figure 1.8.8-1.

Figure 1.8.8-1 Mobile Extension Attributes

A mobile phone can be used in conjunction with a station. The Mobile phone can access system resources available to the user's wired phone and will receive ringing for incoming calls. The user may be allowed to enable the Mobile extension and define the mobile number.

Table 1.8.8-1 Mobile Phone Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
EXT. ID	Mobile phone index		
Mobile enable	Enable mobile extension ability.	0: OFF 1: ON	OFF
Number	Mobile extension number	Max. 24 digits	-
CLI	Mobile extension CLI number	Max. 24 digits	-
Mobile Service Mode	Select mobile service mode.	0 (All Call): Apply mobile service to all calls 1 (Service CLI only): Apply mobile service to the calls of which the CLI matches to one of the CLI's in CLI1~CLI5.	All Call
Mobile Service CLI (1-5)	CLI for Mobile Service		

1.8.9 Internal SMS

Selecting Send Internal SMS displays the input entry page, Figure 1.8.9-1.

Figure 1.8.9-1 Internal SMS

1.8.10 ACD Group Management

Only ACD supervisor can access this page. If a station is ACD supervisor then selecting ACD Group Management displays the input entry page, Figure 1.8.10 -1.

Figure 1.8.10-1 ACD Group Management

Table 1.8.10-1 ACD Group Management

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Group Forward Destination	When ACD Group status is Group Forward Status, all the ACD calls will be forwarded to the assigned destination.	N/A Station Number Station Group ACD Group Digits	N/A
Night Service	This entry defines how to reroute ACD call when group status is Night Status.	0: Release Call Night 1: Announcement Service 2: Forward Destination	Release Call
Night Forward Destination	Specify the Night Service Forward Destination of an ACD group If Night Service type is Forward, calls will be diverted to forward destination in Night Service mode.	N/A Station Number Station Group ACD Group Digits	N/A
Holiday Service	This entry defines how to reroute ACD call when group status is Holiday Status.	0: Release Call Night 1: Announcement Service 2: Forward Destination	Release Call

Table 1.8.10-1 ACD Group Management

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Holiday Forward Destination	Specify the Holiday Service Forward Destination of an ACD group If Holiday Service type is Forward, calls will be diverted to forward destination in Holiday Service mode.	N/A Station Number Station Group ACD Group Digits	N/A
Overflow Service	This entry defines how to remote ACD call when group status is Overflow Status.	0: Release Call Night 1: Announcement Service 2: Forward Destination	Release Call
Overflow Forward Destination	Specify the Overflow Service Forward Destination of an ACD group If Overflow Service type is Forward, calls will be diverted to forward destination in Overflow Service mode.	N/A Station Number Station Group ACD Group Digits	N/A
MAX Queuing Count	This entry defines MAX queuing call count. If the queued ACD Call count is greater than the max q-count, ACD group state will be changed to Overflow Status.	0 – 99	10
Froward Service After Queuing	This entry defines reroute usage after queuing time over.	0: Release Call 1: Forward Destination	Release Call
Forward Destination After Queuing	Reroute destination after queuing time expiration.	N/A Station Number Station Group ACD Group Digits	N/A
Agent No-Answer Service	This entry defines no-answer Agent case about ACD-call, 1: Not use. 2: Forward Call to No-Answer Forward Destination: call will be forwarded to defined destination. 3: Agent DND State Change: Agent state will be changed automatically to DND state. 4: Agent DND State Change & Forward Call: Agent state will be scanged to DND state, and ACD call will be forwarded to defined destination.	0: Not use 1: Forward Call to No-Answer Forward Destination 2: Agent DND state Change 3: Agent DND State Change & Forward Call.	Not use
Agent No-Answer Forward Destination	When Agent No-Answer option is Forward, applied destination can be assigned.	0: N/A 1: Station Number 2: Station Group 3: ACD Group 4: Digits	N/A

1.8.11 ACD Group Call Traffic

Only ACD supervisor can access this page. If a station is ACD supervisor then Selecting ACD Group Call Traffic displays the page shown, Figure 1.8.11-1. For detailed explanation, refer to iPECS-MG Feature and Operation manual Section 10. 10 ACD Group Call Traffic.

Figure 1.8.11-1 ACD Group Call Traffic

1.8.12 Station Logout

Selecting Logout will terminate the Station Program session and return the Station Program entry page shown in Section 1.2.3.

Figure 1.8.12-1 Station Logout