Web Administration Guide

Release 1.0

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REVISION HISTORY

Release	Date	Documentation Changes	Page No.
1.0	07-10	Initial Release	--

Contents

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Chapter 1

Web Service

General

MBX IP incorporates a Web Server located in the MBX IP, 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 MBX IP Web Admin provides for system file upload, remote upgrade, and database download.

The MBX IP 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 "Browser Access" on page 1-3.

To access the MBX IP Web Server requires the following:

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

PC / Browser

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

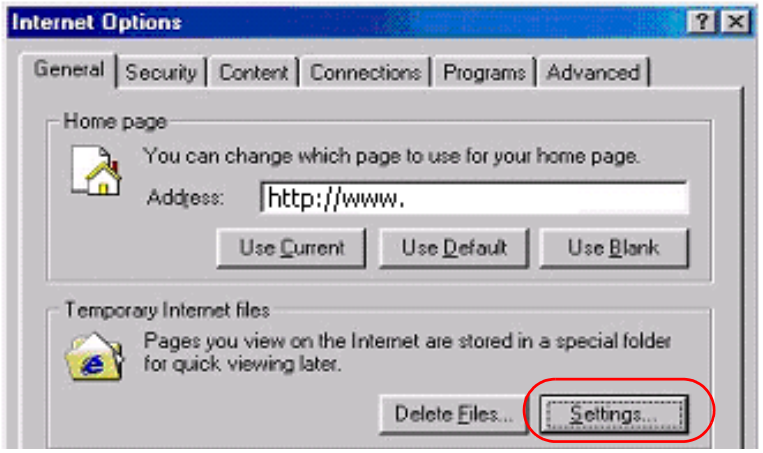
Environment for LAN Connection

- 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 MBX IP system Web server (must be assigned to the system prior to access).

Web Browser Setting

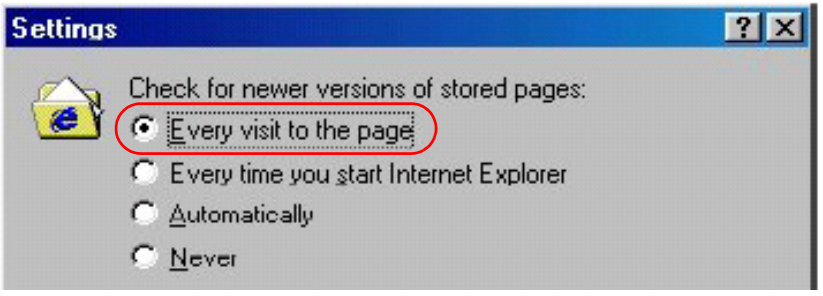
Web browsers may store (cache) a copy of the MBX Web pages in cache memory. The Web browser may use these copies to provide a "quick view". If the Web page has been Saltered by data entered in Station Admin or a file upgrade, the cached copy will be out-of-date and could cause unexpected system operation. 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 5.5 and click "Tools."
2. Click "Internet Options."



MS Internet Explore Options General Menu

3. Click “Settings” in Temporary Internet files.



MS Internet Explore Settings Menu

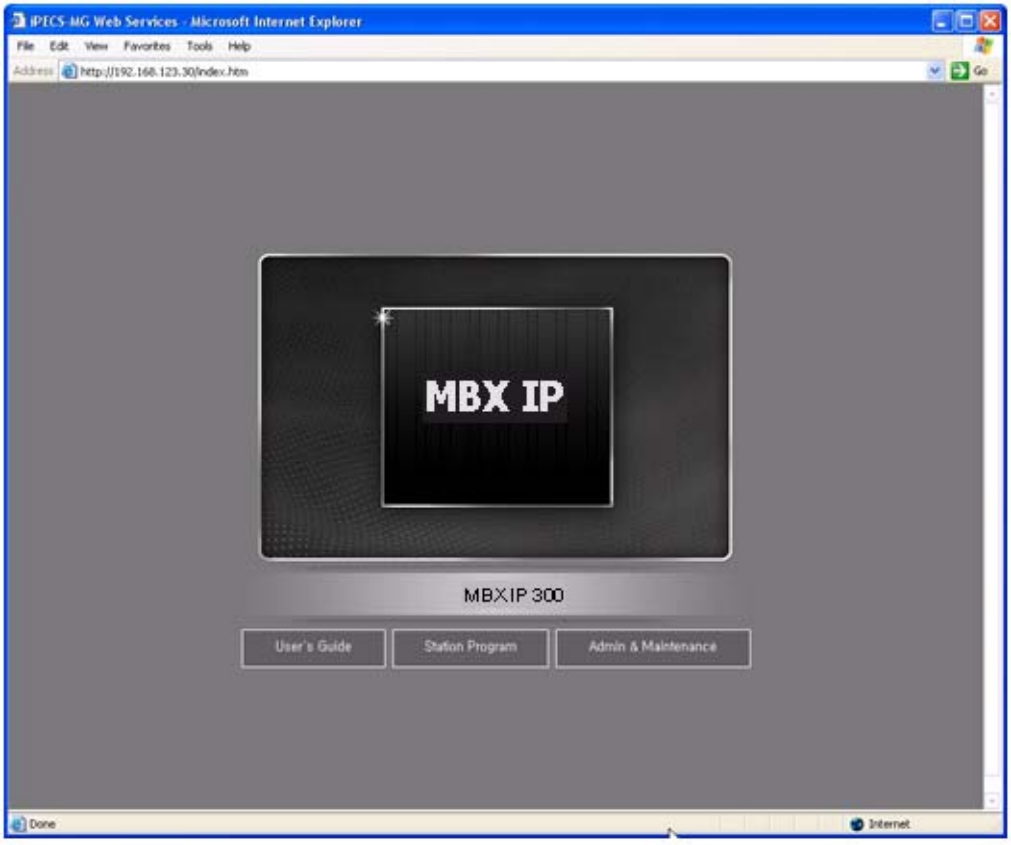
4. Check “Every visit to the page” and click “OK.”

Web Home Page

Browser Access

During initialization, a default database is established. 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.

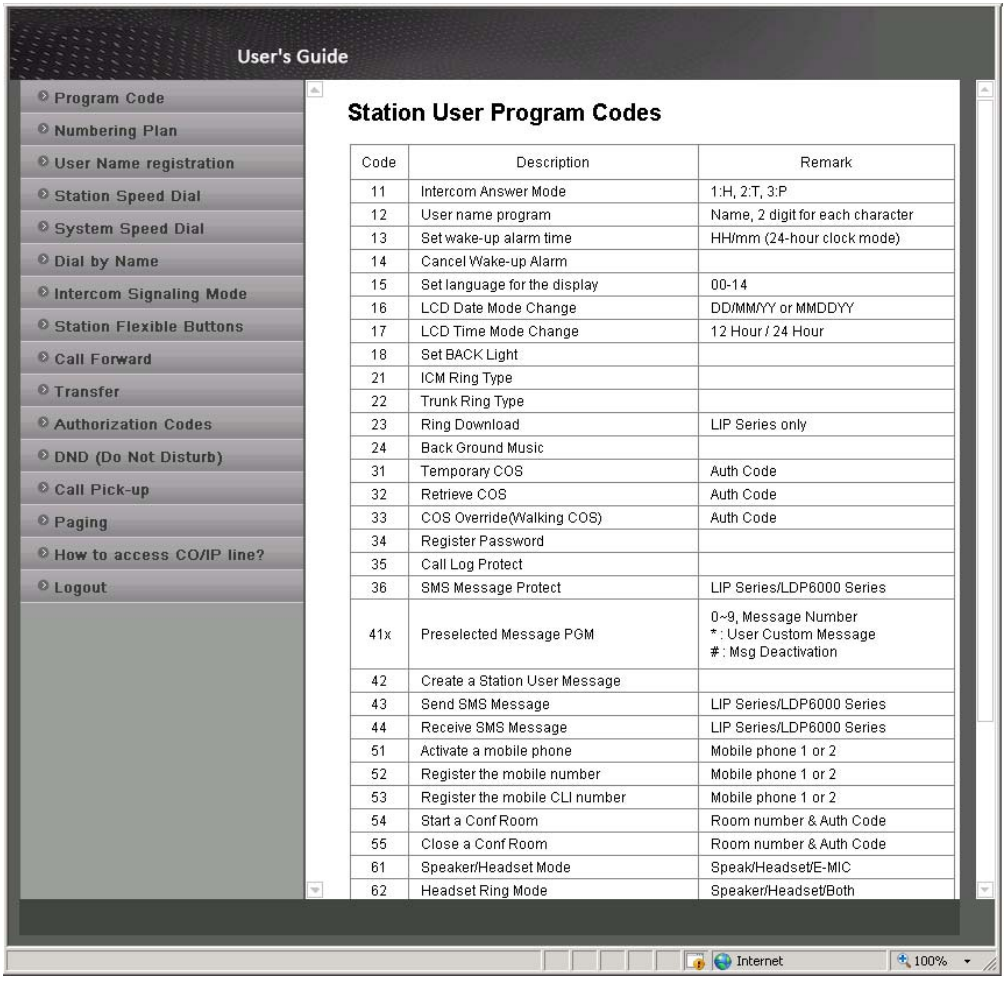
In the browser 'ADDRESS' field, enter the MPB IP address and TCP port. Select GO; the Web server returns the MBX IP Web Services Home page. On the Home page, one of two services may be selected, the brief User Guide, Station Program or Admin & Maintenance.



MBX IP Home Page

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.



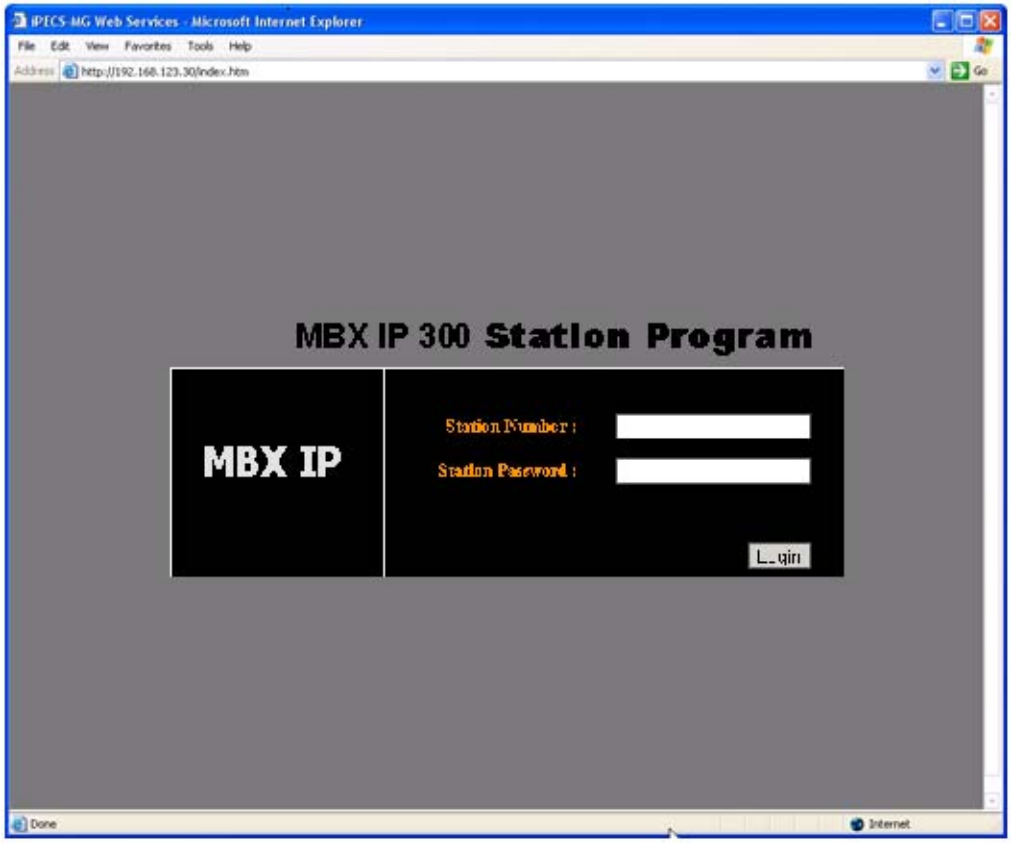
Code	Description	Remark
11	Intercom Answer Mode	1:H, 2:T, 3:P
12	User name program	Name, 2 digit for each character
13	Set wake-up alarm time	HH/mm (24-hour clock mode)
14	Cancel Wake-up Alarm	
15	Set language for the display	00-14
16	LCD Date Mode Change	DD/MM/YY or MMDDYY
17	LCD Time Mode Change	12 Hour / 24 Hour
18	Set BACK Light	
21	ICM Ring Type	
22	Trunk Ring Type	
23	Ring Download	LIP Series only
24	Back Ground Music	
31	Temporary COS	Auth Code
32	Retrieve COS	Auth Code
33	COS Override(Walking COS)	Auth Code
34	Register Password	
35	Call Log Protect	
36	SMS Message Protect	LIP Series/LDP6000 Series
41x	Preselected Message PGM	0~9, Message Number * : User Custom Message # : Msg Deactivation
42	Create a Station User Message	
43	Send SMS Message	LIP Series/LDP6000 Series
44	Receive SMS Message	LIP Series/LDP6000 Series
51	Activate a mobile phone	Mobile phone 1 or 2
52	Register the mobile number	Mobile phone 1 or 2
53	Register the mobile CLI number	Mobile phone 1 or 2
54	Start a Conf Room	Room number & Auth Code
55	Close a Conf Room	Room number & Auth Code
61	Speaker/Headset Mode	Speak/Headset/E-MIC
62	Headset Ring Mode	Speaker/Headset/Both

User Guide

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. 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’

If the Station Program is selected from the Home page, the Station Program will display, as described further in the following section.



Station Password

Web Admin & Maintenance

If the Admin & Maintenance item is selected from the Home page, the Admin & Maintenance manual will display, as described further in the following section.

Web Admin Data Modification & Access

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.

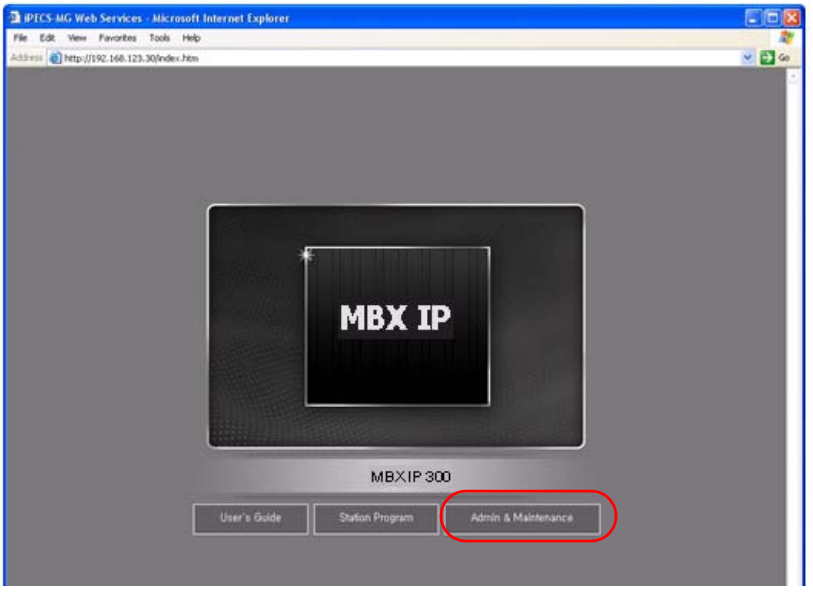
Some of the Web pages include blue colored text in the table headers. Selecting this text will order the table based on the column selected.

In some cases, where mentioned, it may be necessary to reset the system. The system can be reset manually as described in the *MBX IP Hardware & Installation Guide* or by selecting the Reset System button on the Initialization Web page.

Maintenance & Admin ID & Password

The MBX IP 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 "Password Encryption" on page 1-8.

1. From the Home page, click on Admin & Maintenance, the System ID and password Web page will be displayed as shown below:



System ID & Password

Password Encryption

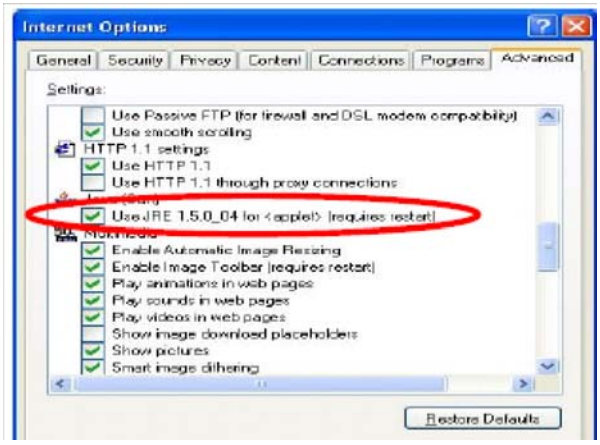
When enabled, the MBX IP can implement decryption of a password employing RC-6 block encryption (PGM223).The MBX IP employs a Sun Java Virtual Machine applet to implement AES encryption. The PC entering the Password must have a JAVA Virtual Machine and the JRE (Java Runtime Environment) Explorer option 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.

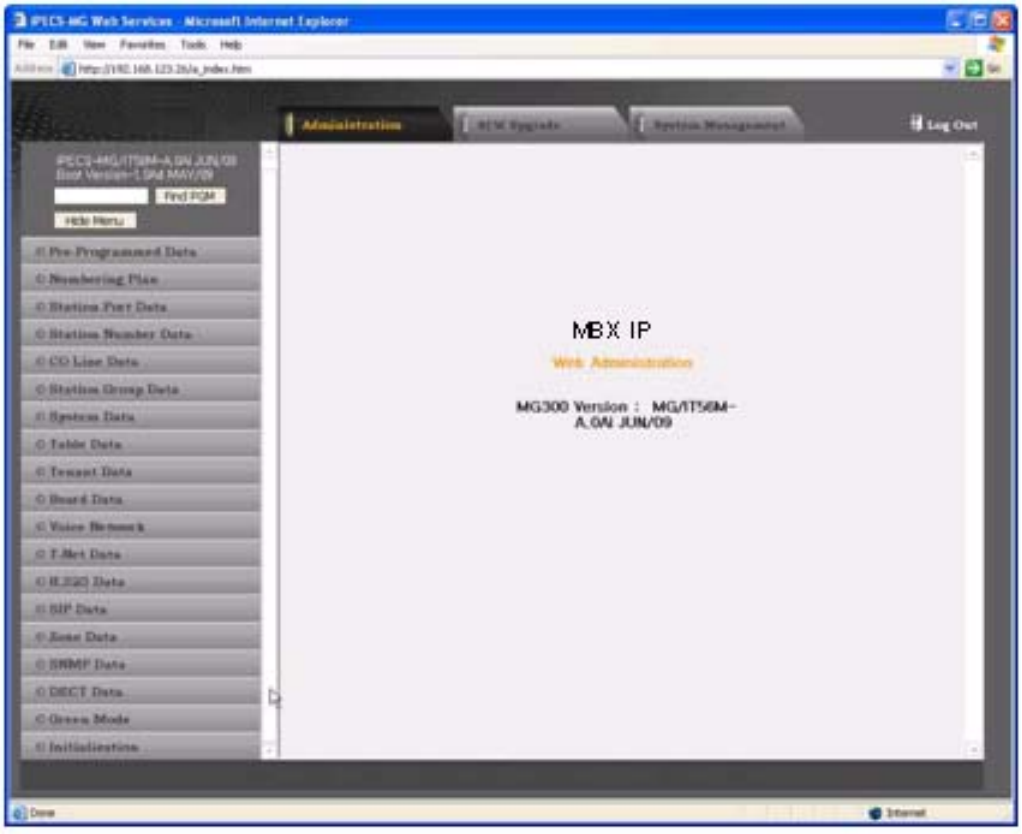
3. After Restarting the computer, access the MBX IP Web ID & Password page; the Applet Vertical Pwd started message will display in the bottom-left corner of the screen to indicate password encryption is active (shown in the following graphic).



Web Admin Login Screen

Web Admin & Maintenance Overview

In the Web Admin initial screen on page 1-8, enter the password and click on the Login button to access the MBX IP Admin & Maintenance Main Page below:



Admin & Maintenance Main Page

Based on 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
- File Upload & Remote Upgrade -permits upload of operating files to the MBX IP system and board.
- Maintenance -permits databases to be downloaded, including all data.

Chapter 2

Web Administration

To enter the system database, select the MBX IP Administration item in the menu bar. The Administration Navigation frame will be displayed on the left.

Admin Menu

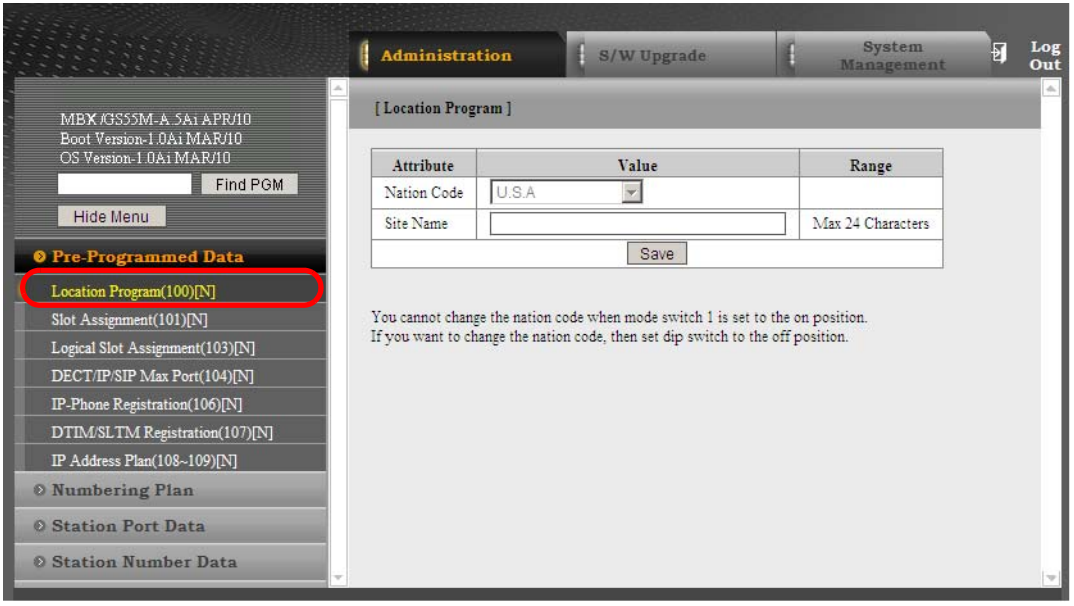
Pre-Programmed Data

Selecting a Pre-Programmed Data program group will display the sub-menus shown and described in the following sections.

- Location Program - PGM 100
- Slot Assignment - PGM 101
- Logical Slot Assignment - PGM 103
- DECT/IP/SIP Max Port - PGM 104
- IP-Phone Registration - PGM 106
- DTIM/SLTM Registration - PGM 107
- IP Address Plan - PGM 108-109

Location Program (PGM 100)

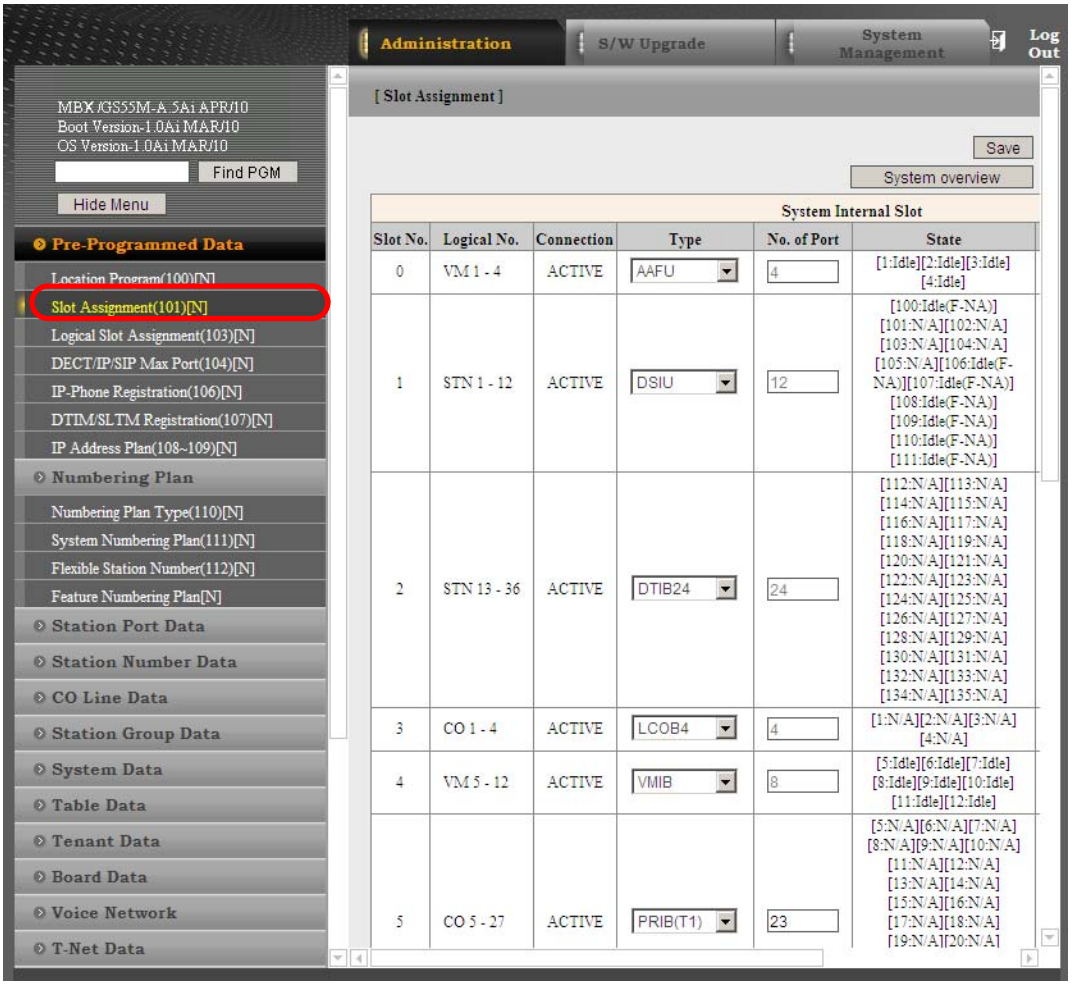
Selecting Location Program will display the following Input Entry page:



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 the customer.

Slot Assignment (PGM 101)

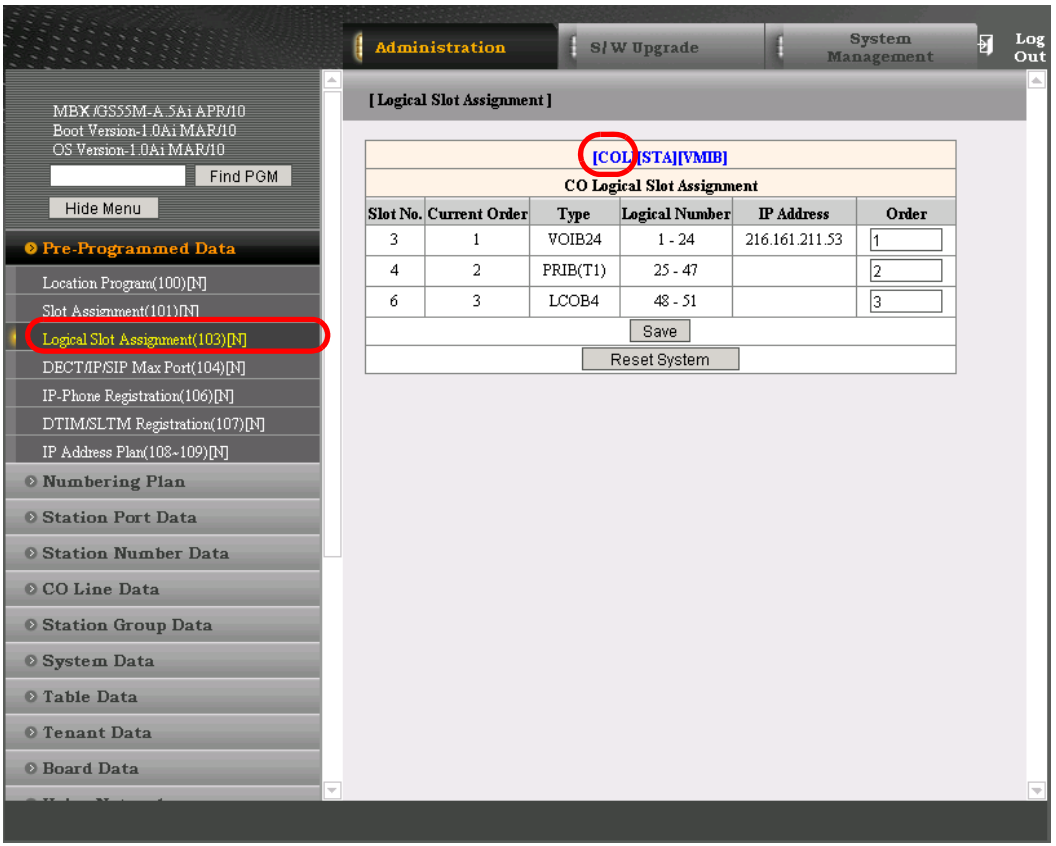
Selecting Slot Assignment will display the following page:



ATTRIBUTE	DESCRIPTION
Slot No.	The slot number -- 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 MBX IP Gateway(DTIM/SLTM) 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
Type	Display the board type. Select the board type to add new board.
Connection	Display the board connection status
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

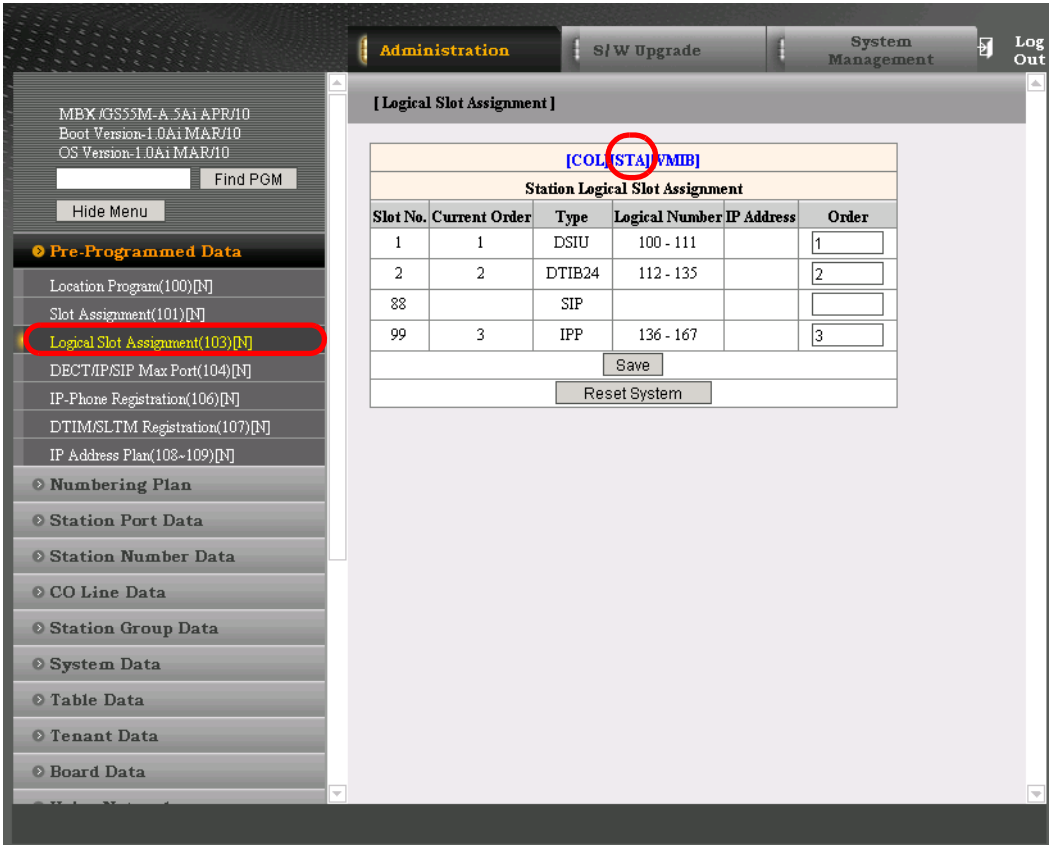
Logical Slot Assignment (PGM 103)

Selecting Logical Slot Assignment and clicking **COL** at the top of this page will display the following page:.



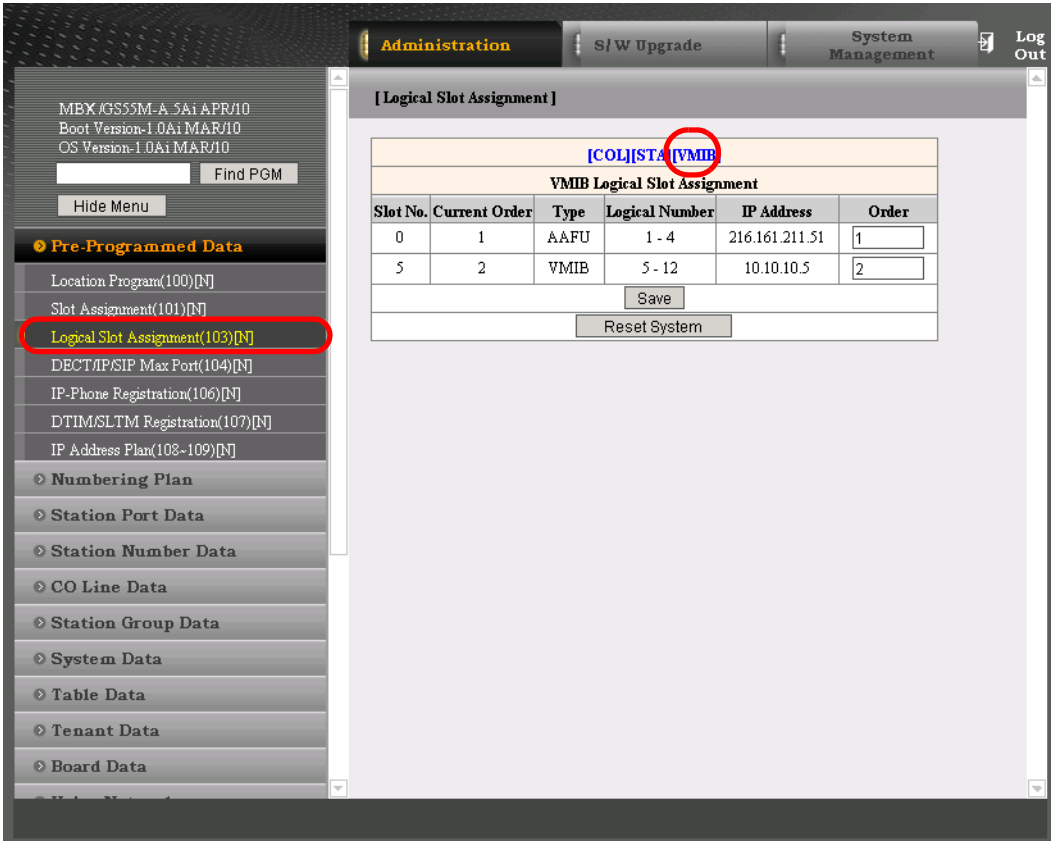
Logical Slot Assignment of CO Board

From the top of this page, click **STA** and the following page will display.



Logical Slot Assignment of Station Board

From the top of this page, click **VMIB** and the following page will display:



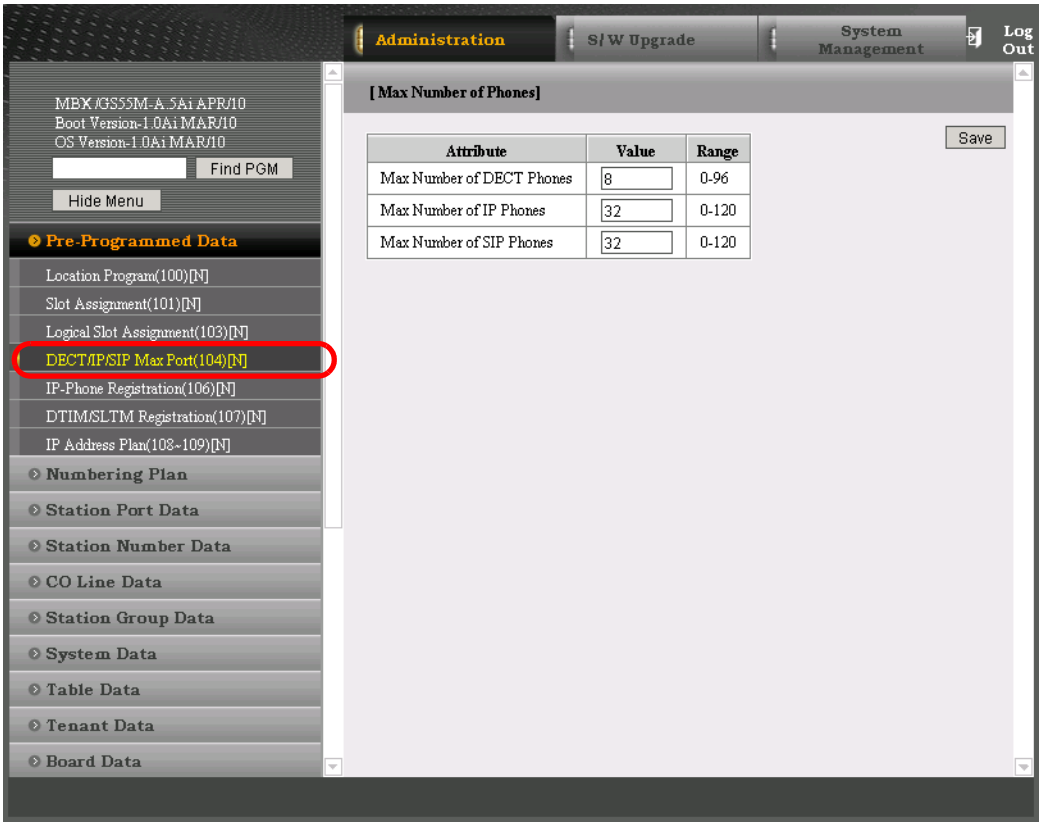
Logical Slot Assignment of VMIB Board

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.

DECT Phone/SIP Phone Max Port (PGM 104)

Selecting DECT/IP/SIP will display the following page:



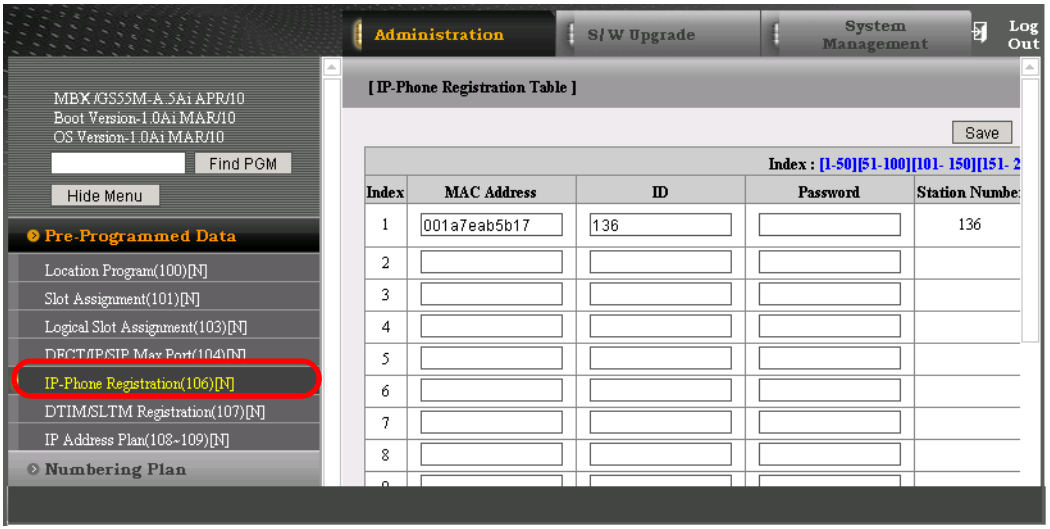
The DECT, Proprietary Phone (IP Phone or Phontage) and SIP Phone number to be registered can be assigned. After making the necessary updates, reset the system to apply the changes.

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

IP Phone Registration (PGM 106)

Selecting IP-Phone Registration will display the following page:



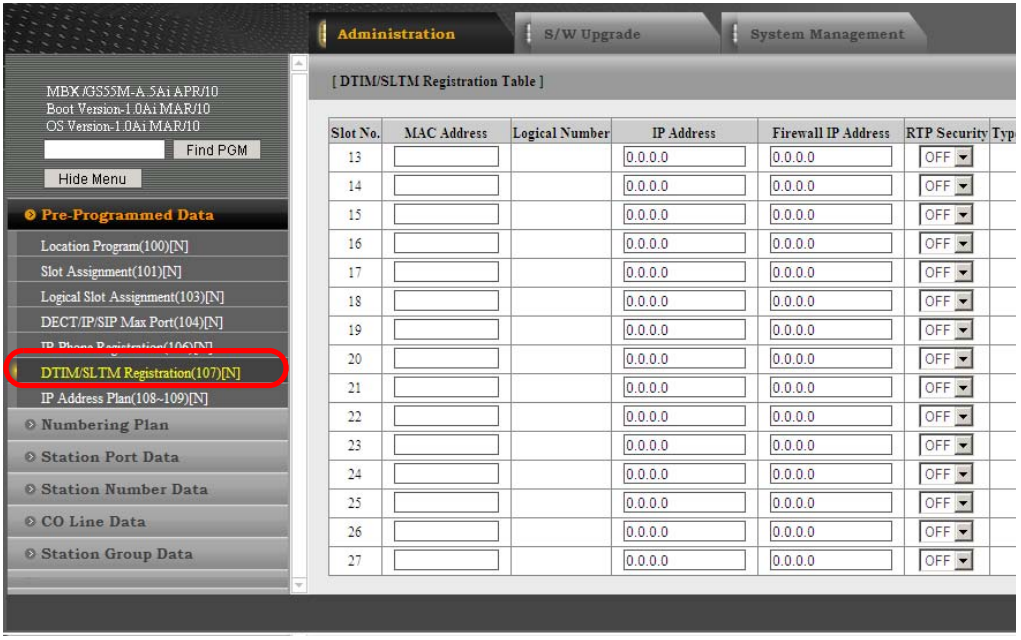
When the desired Index is selected on the screen, the range is shown above (ex., [1-50],[51-100],[101-150]).

Registration Table Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Index	The index of theIP 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 mode of the IP phone/Phontage	-
Version	Displays the version of the IP phone/Phontage	-

DTIM/SLTM Registration (PGM 107)

Selecting DTIM/SLTM Registration will display the following page:

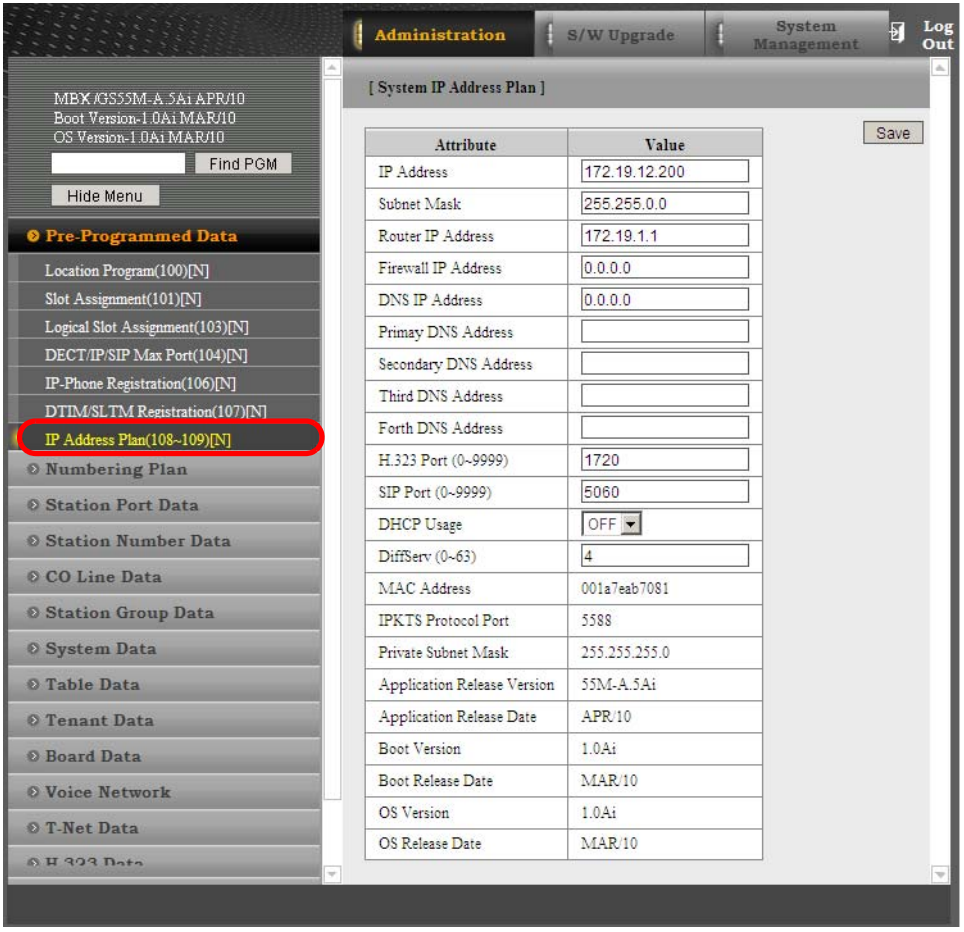


Registration Table Attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
Slot No.	Slot number of DTIM/SLTM	-
MAC Address	MAC Address of gateway	-
IP Address	Displays the IP Address of the gateway	-
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 mode of the IP phone/Phontage	-
Version	Displays the version of the IP phone/Phontage	-

IP Address Plan (PGM 108-109)

Selecting IP Address Plan will display the following page:



The System IP Address Plan sets several IP addresses including the IP address required for external VoIP calls and the IP address for the router.

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.

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.

MBX IP 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.

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.	--
DNS IP Address	IP Address of Domain Name Server, which MBX IP will use to resolve URLs to an IP address. The DNS provides the resolution after receiving the name from Vertical.	--
H.323 Port (0-9999)	H.323 UDP Port	1720
SIP Port (0-9999)	SIP UDP Port	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	-

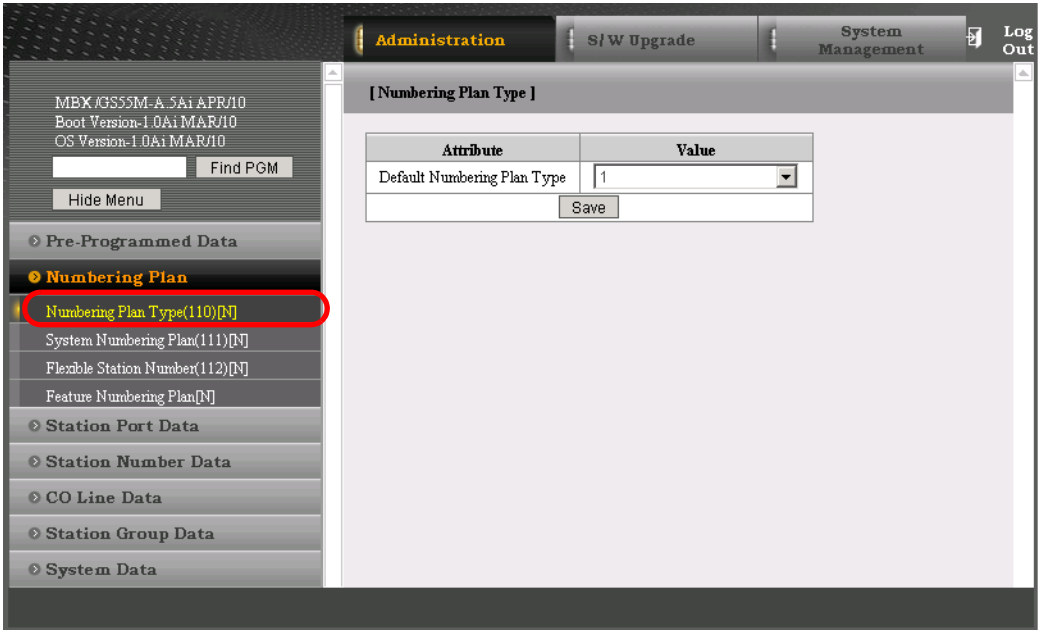
Numbering Plan

Selecting the Numbering Plan program group displays the following sub-menus:

- Numbering Plan Type (110)
- System Numbering Plan (111)
- Flexible Station Number (112)
- Feature Numbering Plan (113 / 114 / 115 / 118)

Numbering Plan Type (PGM 110)

Selecting Numbering Plan Type will display the following page:



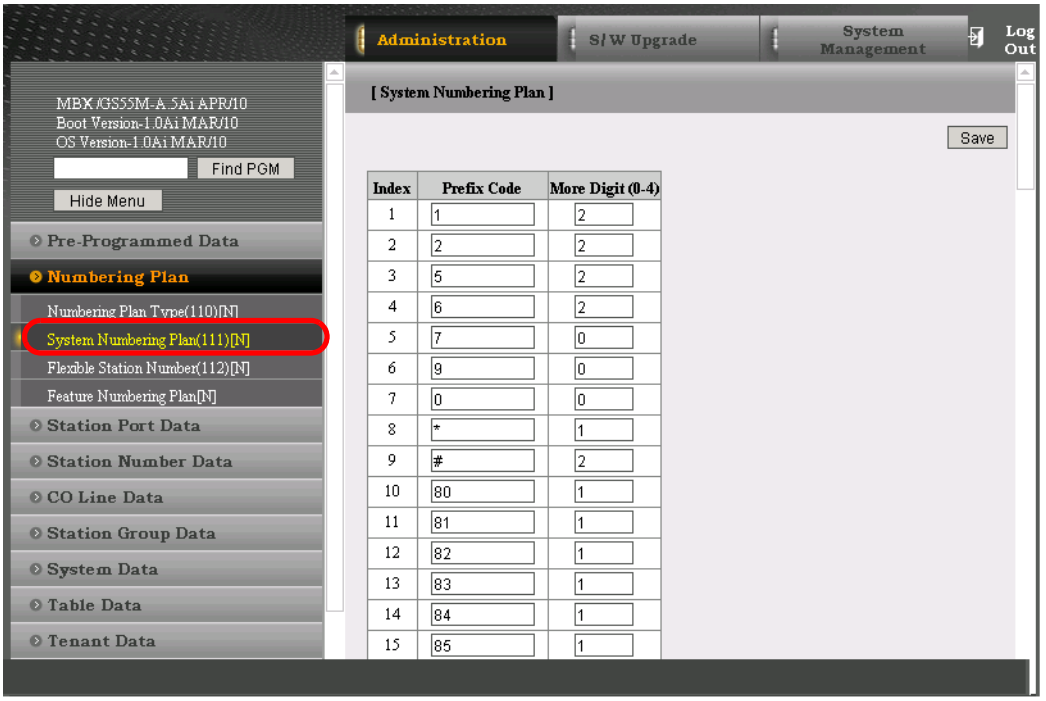
The MBX IP system provides default Numbering plan set. One of any numbering plans can be installed or every numbering plan can be cleared.

If numbering plan type 7 (Delete All Numbering) is selected, all numbering codes are deleted. After deleting, the user should first assign the "System Numbering Plan".

After configuring the system numbering plan, the user can assign the other numbering plan code. This is useful when the user wants to reconfigure all the numbering codes without default values.

System Numbering Plan (PGM 111)

Selecting System Numbering Plan will display the following page:



To assign a numbering plan code, its type should be matched with a System Numbering Plan, which consists of a prefix, and additional digits. Prefix means the leading digits of the numbering plan code, and digits means number of following digits of that Prefix code. The maximum length of each numbering plan code is 8, and up to 4 additional 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 the MBX IP-100 system and 5 in MBX IP-300 system Master Prefix Digits can exist.

NOTE: A 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.

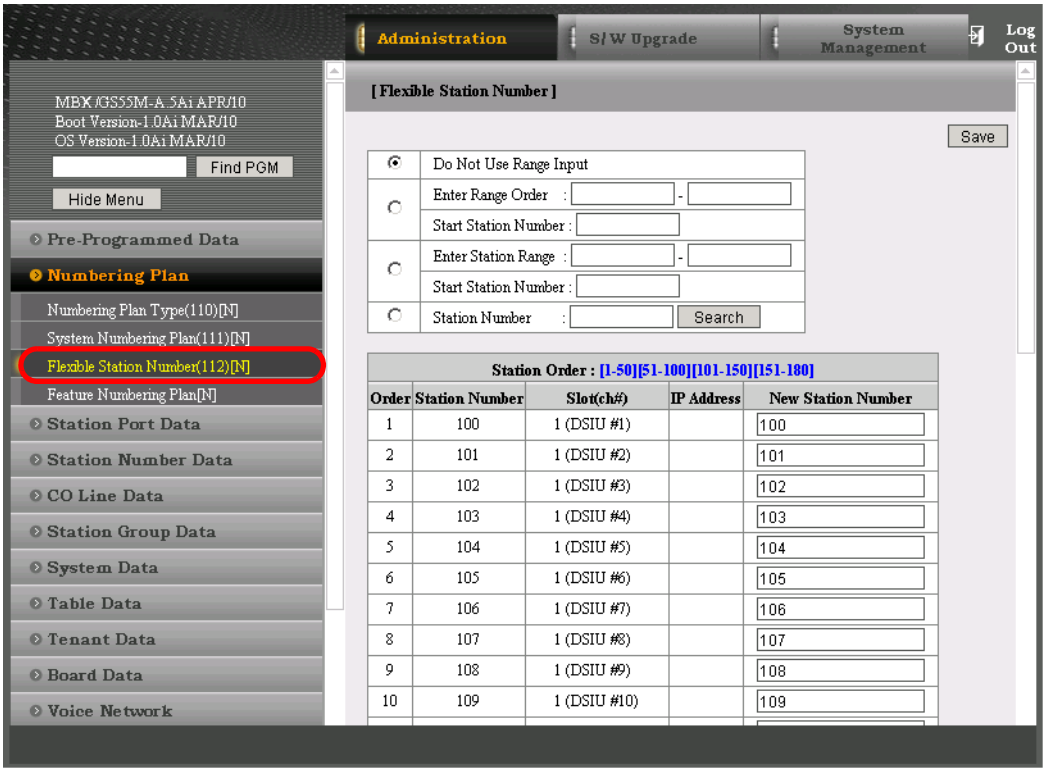
ATTRIBUTE	DESCRIPTION	DEFAULT
Prefix Code	Prefix Code	-
More Digit (0-4)	More Digit	-

Flexible Station Numbering Plan (PGM 112)

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

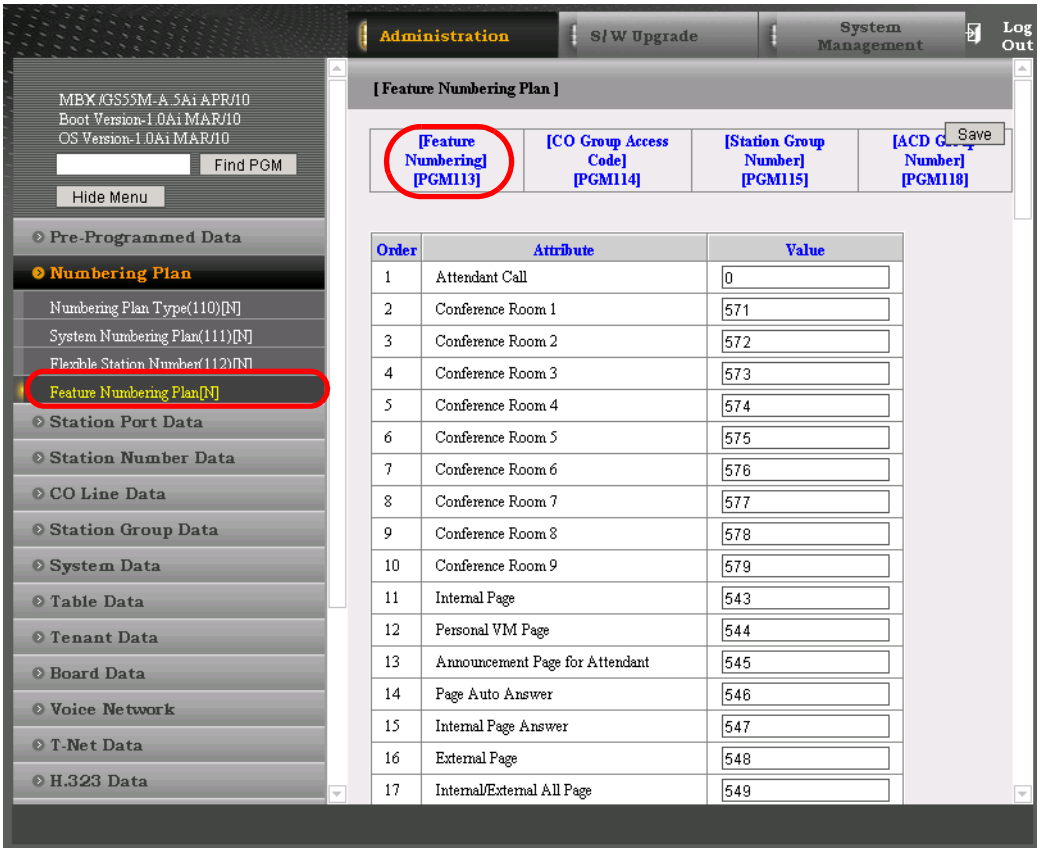
- Not Use Range Input: use to change an individual station number.
- Order Range: use to change the station numbers associated with a range of "Order Numbers" using the "Start Station Number" as the first station number to assign in the range. The station number is incremented by one over the range of 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 Range, blue text in the table header, will display the Station Numbering Plan information for the selected Order Range.



Flexible Numbering Plan (PGM 113-118)

Selecting Feature Numbering of Feature Numbering Plan will return the following page:



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.

The following table provides a brief description for each feature and the default codes as they appear in base Numbering Plan 1.

Feature Numbering Codes

NO	FEATURE NAME	CODE
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
11	Internal Page	543 + 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 + Type + Destination
19	Pilot Hunt Call Forward Register	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	Station Speed PGM	553
27	Speed Dial	555
28	MWI Register	557

NO	FEATURE NAME	CODE
29	MWI Answer	558
30	MWI Cancel	559
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 + 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	888 + CO Line # (001-200: MBX IP-300, 01-80: MBX IP-100)
42	VM MWI Enable	*8
43	VM MWI Cancel	*9
44	MCID Request	*0
45	Unsupervised Conf Extend	5##
46	PTT Group Access	524 + PTT Group # (0-9) + * (Log out)
47	Hot Desk Log In/Log out	525
48	Name Register	526
49	Create Conf Room	527 + Conf. Room #
50	Delete Conf Room	528 + Conf. Room #
51	Wake Up Register	529 + HH:MM
52	Wake Up Cancel	530
53	Temporarily COS Down	531
54	Cancel Temp COS Down	532
55	Password Change	533
56	Inter-Phone Group Access	534
57	Call Wait Request	535
58	Preselected MSG PGM	536
59	Forced Handsfree Call	537

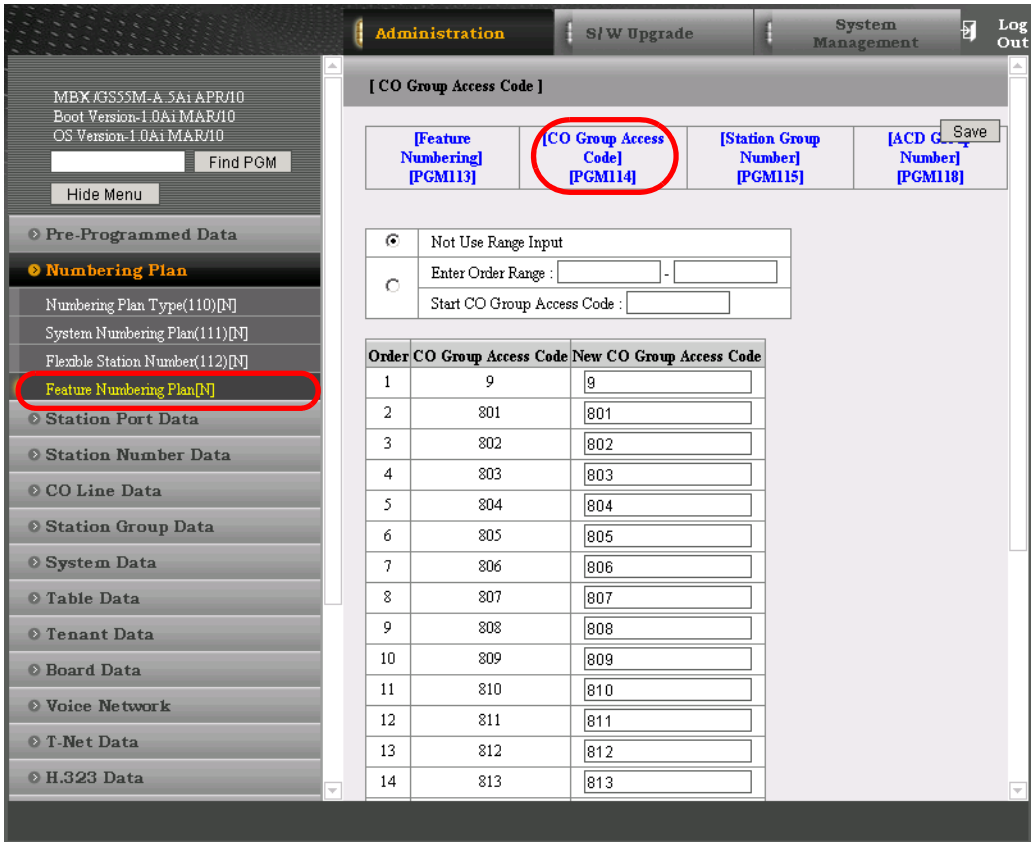
NO	FEATURE NAME	CODE
60	Call Based CLIR	582
61	CLIR Access	583
62	COLR Access	584
63	Pilot Hunt Call	585
64	Command Call Oneway	581
65	Command Call Conf	580
66	Intrude Register	589
67	Camp On Register	590
68	OHVO Register	591
69	Mobile Num Register	592
70	Mobile CLI Register	593
71	Mobile Access	594
72	Announcement table	670
73	Announcement table and Drop	671
74	System Hold	560
75	Return Held CO	8**
76	Sys Memo	675
77	DISA Tone Service	678
78	All Feature Cancel	679
79	Add Conf Member	680
80	System Alarm Reset	565
81	Fault Alarm Reset	566
82	Door Open	#*1
83	Keypad Facility	##*
84	T-Net Log-In/Out	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 Log-In/Out	500
NO	**FEATURE NAME**	**CODE**
93	ACD Agent DND	501
94	ACD Agent Word 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 Forward	890
100	ACD Supervisor Night	891
101	ACD Supervisor Holiday	892
102	ACD Supervisor Queued Call Answer	893
103	ACD Supervisor Agent State Check	894
104	ACD Supervisor Silent Monitor	895
105	ACD Supervisor Call Traffic Check	896
106	ACDAnnouncement Play & Check	899
107	Day/Night/Timed Mode Change	513
108	DID/DISA Restriction	685

CO Group Access Code (PGM 114)

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

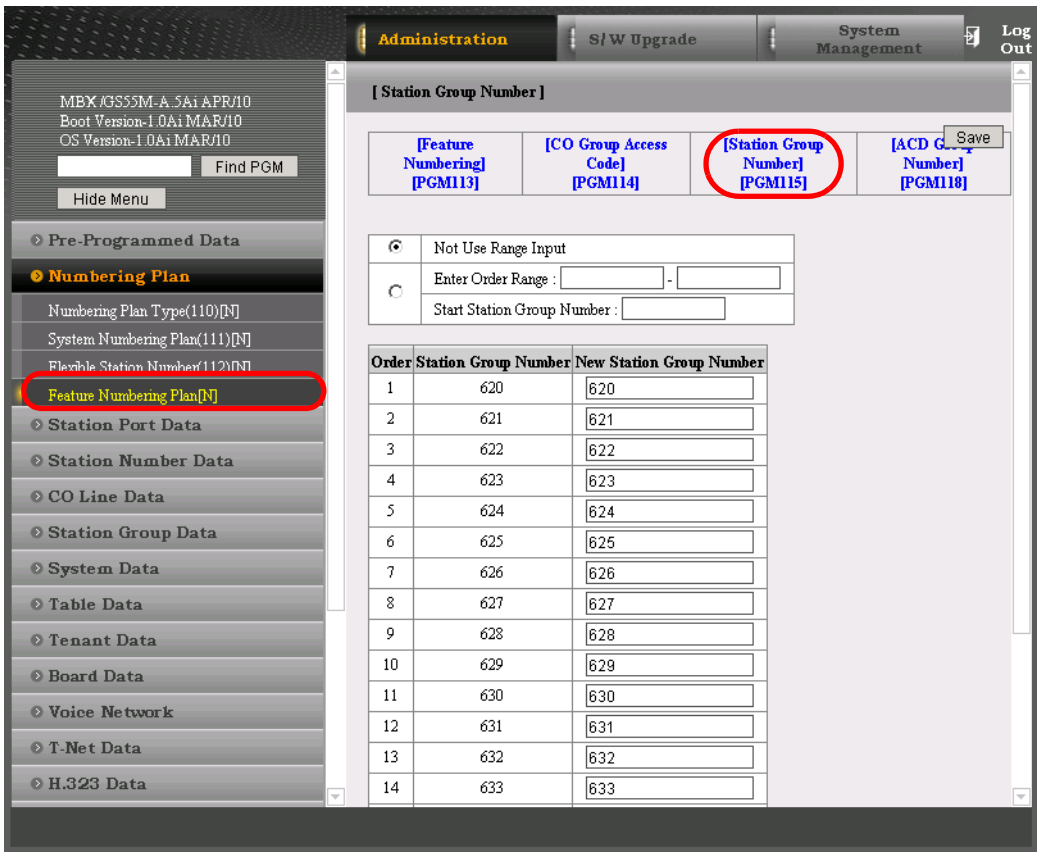
- Not Use Range Input: use to change an individual CO Group Access Code.
- Order Range: use to change the CO Group Access Codes associated with a range of “Order Numbers” using the “Start CO Group Access Code” as the first number to assign in the range. The CO group access code is incremented by one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



Station Group Number (PGM 115)

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

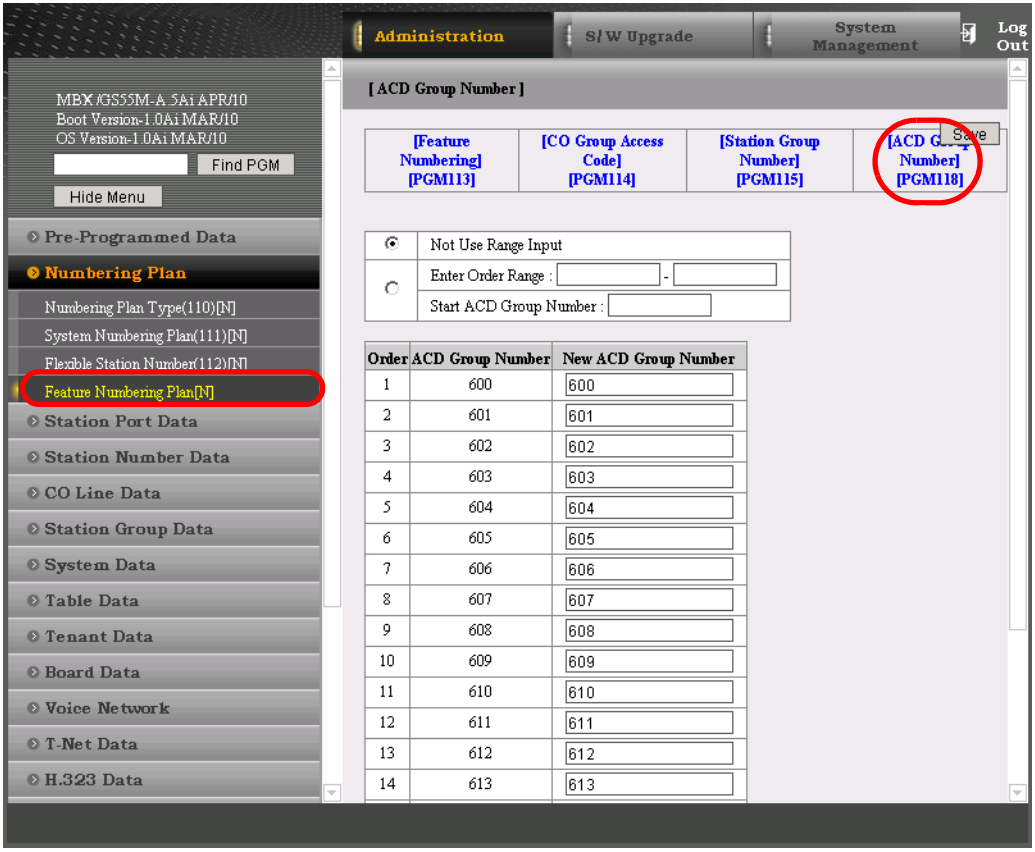
- Not Use Range Input: use to change an individual station group number.
- Order Range: use to change the station group numbers associated with a range of "Order Numbers" using the "Start Station Group Number" as the first station group number to assign in the range. The station group number is incremented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



ACD Group Number (PGM 118)

Selecting ACD Group Number of Feature Numbering Plan will return the page shown below. 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.



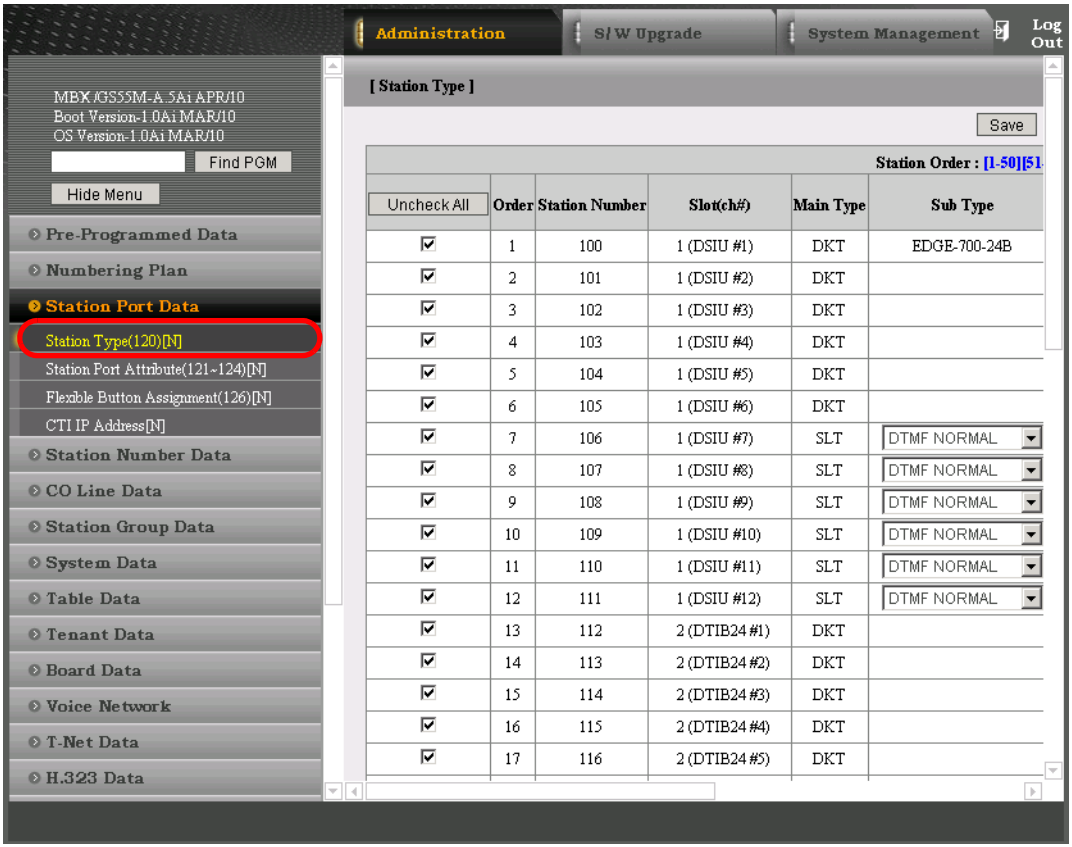
Station Port Data

Selecting the Station Port Data program group returns the following sub-menus:

- Station Type - PGM 120
- Station Port Attribute - PGM 121-124
- Flexible Button Assignment - PGM 126
- CTI IP Address

Station Type (PGM 120)

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



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.

STATION TYPE

ATTRIBUTE	DESCRIPTION	DEFAULT
Station Number	Station Number	-
Slot (ch#)	Displays board name, 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.	-

Station Port Attributes (PGM 121-124)

Selecting Station Port Attributes will display the Station Port Attributes page: Enter a valid station range and click Load to enter Station Port Attributes data.

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 thr following table for a description of the features and the input required.

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	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	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: Disable 1: Enable	Disable
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.	Table 1-Table 3	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	Disable
Door Open Access	Enable to use door open feature.	0: Disable 1: Enable	Disable

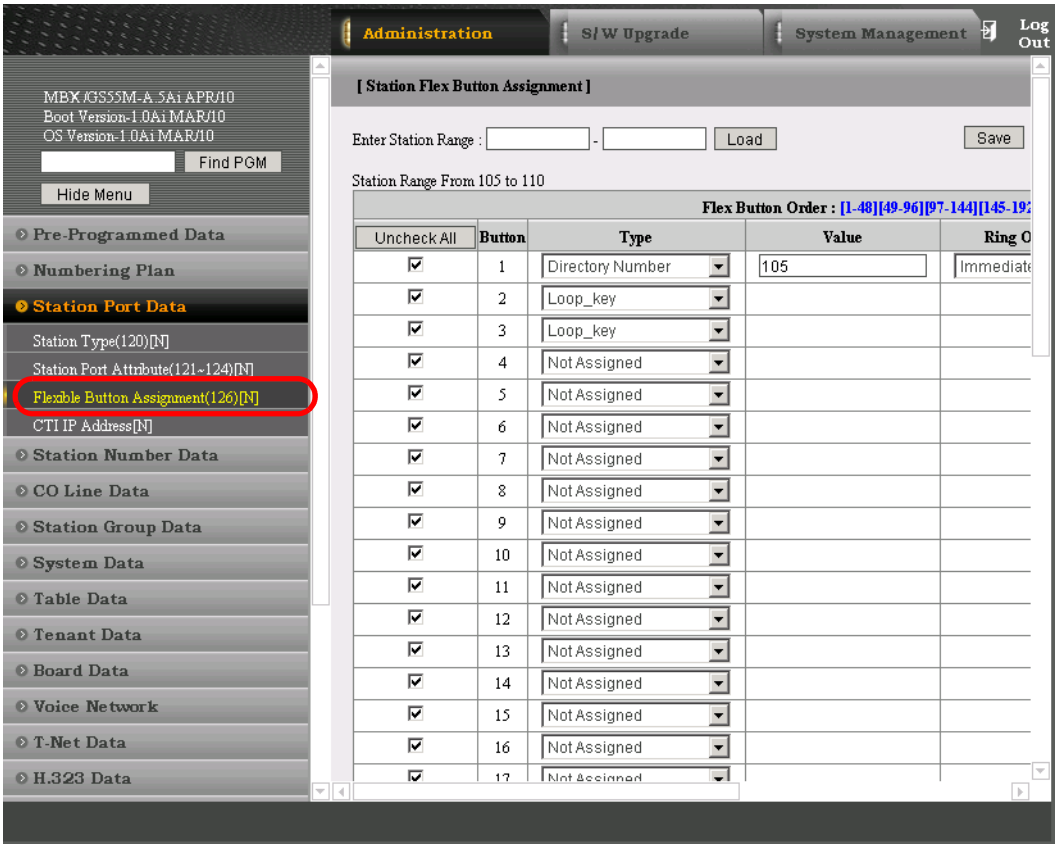
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCD language Display Mode	Sets the Language used in the Station's LCD.	00-14	00 (English)
LCD Date Display Mode	Sets the Station Date display as month/day or day/month.	1: MMDDYY 0: DDMMYY	DDMMYY
LCD Time Display Mode	Sets the Time display mode as 12 hour or 24-hour (military) time.	1: 24 Hour Mode 0: 12 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	Busy Only
IP-8000 Phone Font	Determines if Times New Roman or Gothic font is used.	0: Times New Roman 1: Gothic	Times New Roman
IP-8000 Phone LCD Brightness	LIP 8000 Series terminal can adjust LCD brightness.	01-15	07
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.	01-48	01
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 Only	Off
Intercom Answer Mode	Selects Handsfree, Privacy or Tone ring ICM Signaling mode.	1: Handfree 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

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DTMF Confirmation Tone When Redial	If this value is set to ON, DTMF tone is delivered to the station user when redialing (Reserved).	0: Off 1: On	On
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
Apply Differential Ring	Determines differential ring mode.	0: All Ring 1: Normal Ring	All Ring
Intercom Differential Ring ID (0-254)	Sets the intercom differential ring ID (1-4 usually valid).	000-254	1
CO Differential Ring ID (0-254)	Sets the CO line differential ring ID (1-4 usually valid).	000-254	1
Apply Digit Conversion Table	Determines whether the digit conversion follows COS of SUB-DN or COS of MY-DN Regardless of 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 conf 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 msg, 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 a 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	CLI IP Address	IP Address	0.0.0.0
ACD Agent Priority	When a station is a memger of an ACD Group, this value will be used for priority as agent.	01-20	10

Flexible Button Assignment (PGM 126)

Selecting Flex Button Assignment will display the following page:

1. Enter a valid station range.
2. Click Load to enter Flex button data.



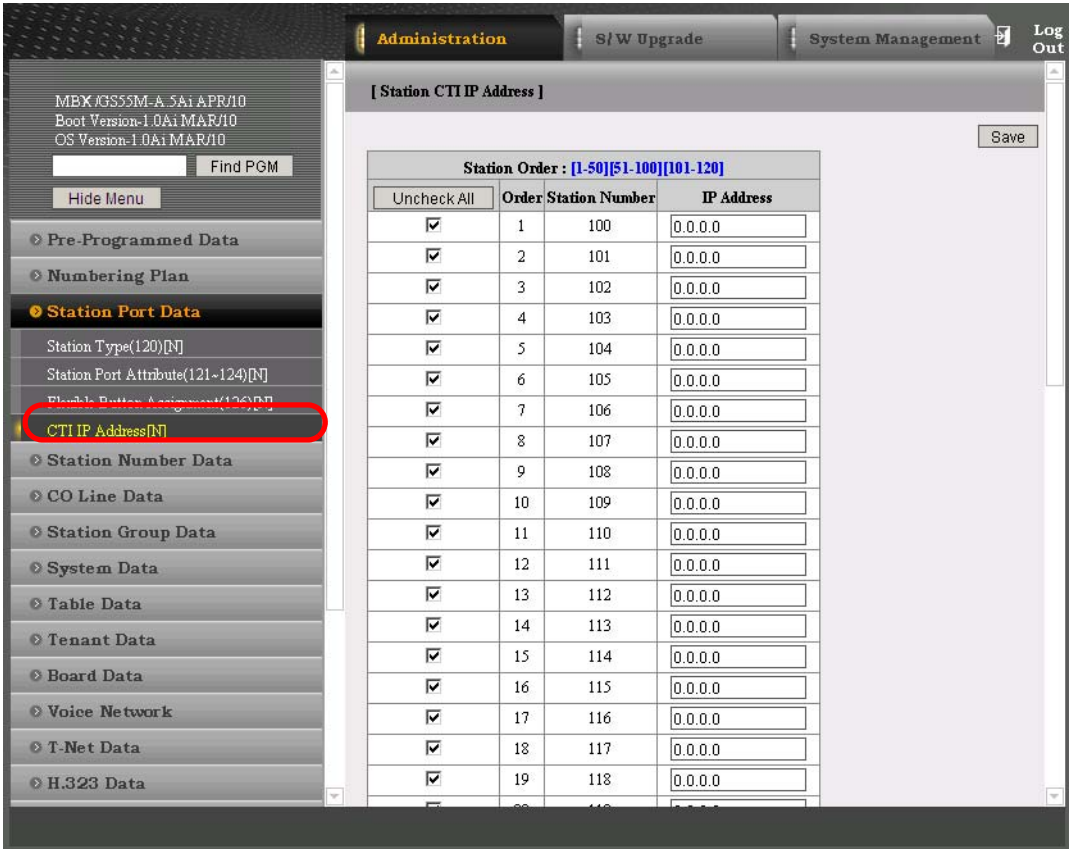
3. Each Flex button for each station can be assigned a function (TYPE) as listed.
4. After selecting the Type for a button, enter the value (as needed).

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 - 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 [CALLBACK] button - DND/FWD: assign [DND/FWD] button - Transfer: assign [TRANSFER] button - Flash: assign [FLASH] button - PTT: assign [PTT] button	-	-
Value	Station Number if button is "Station Number" type, OR Dial digit if button is "Dial Number" type.	-	-
Ring Option	The Ring Option of Station Number	-	-
Access type	Determines Station Number access type if button is "Station Number" type. 0 - All call: there is no restriction. 1 - Seize and Dial: 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. Only answering incoming call is allowed. OR Button Assignment privilege at the station if button is "Dial Number" type	-	-
Name	Button Name	-	-

CTI IP Address Assignment

Selecting CTI IP Address will display the CTI IP Address data input entry page.

Select the 'Station Order' desired shown above table the header, [1-50], [51-100], [101-150]; the range selected will display.



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

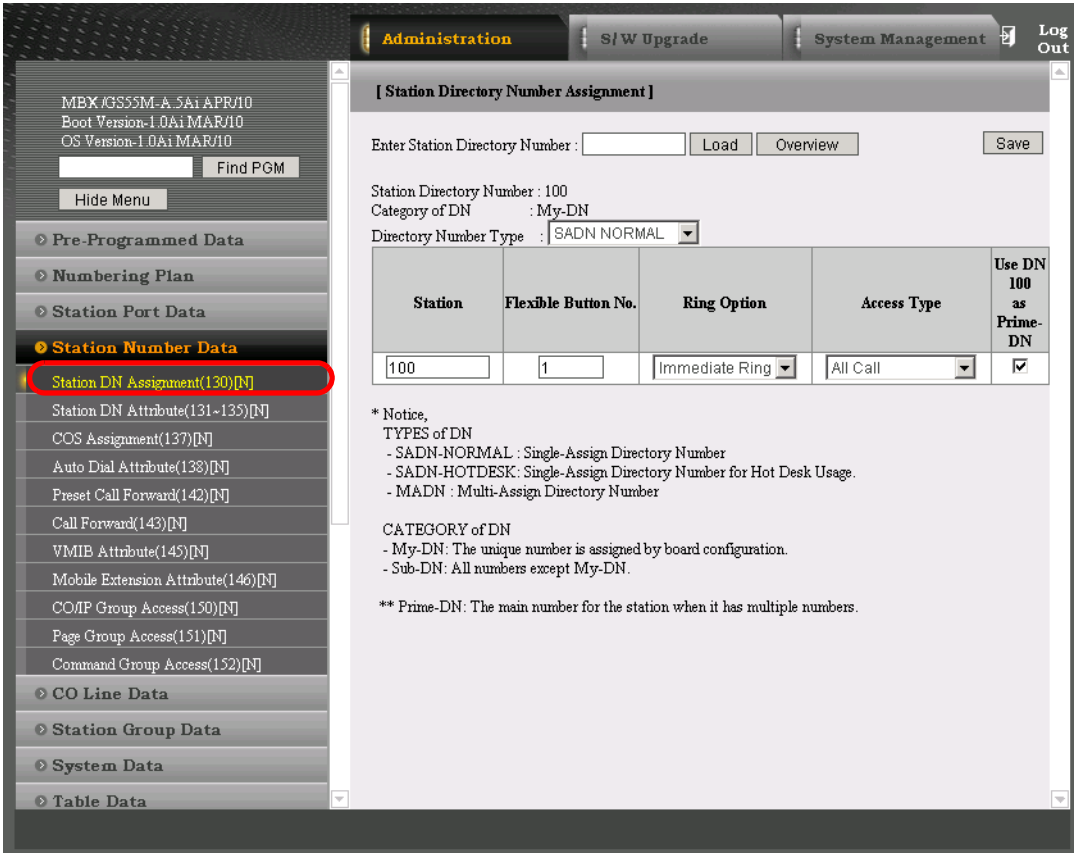
Station Number Data

Selecting the Station Number Data program group returns the following sub-menus:

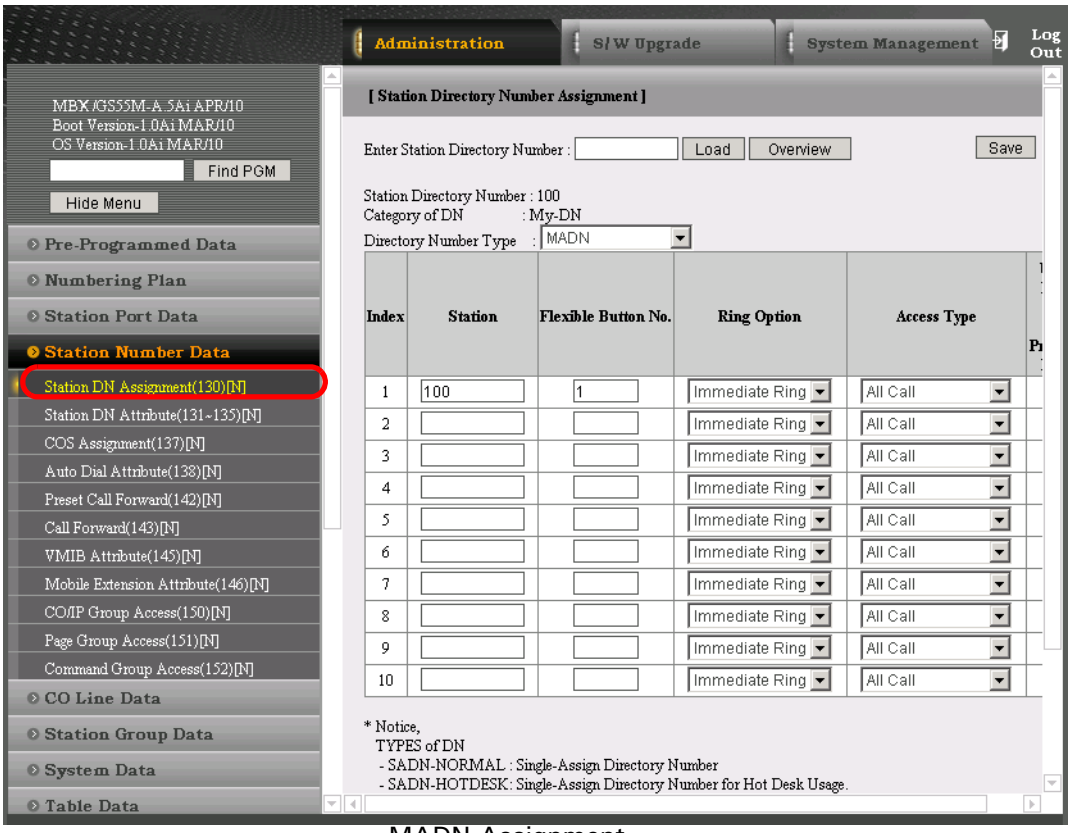
- Station DN Assignment (130)
- Station DN Attribute (130-135)
- COS Assignment (137)
- Auto Dial Attribute (138)
- Preset Call Forward (142)
- Call Forward (143)
- VMIB Attribute (145)
- Mobile Extension Attribute (146)
- CO/IP Group Access (150)
- Page Group Access (151)
- Command Group Access (152)

Station DN (Directory Number) Assignment (PGM130)

1. Enter a valid station range.
2. Click Load to assign DN.



SADN Assignment



MADN Assignment

In accordance with its physical characteristics, the station number is divided into My-DN and Sub-DN.

- My-DN is only a role of Single-Assign Directory Number (SADN) and only one My-DN is assigned to a physical terminal. In the MBX IP system, the scope of the station number used for My-DN is predefined – the station bin index from 1 to 324 for MBX IP-300, from 1 to 108 for MBX IP-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. MADN can have 10 different stations as its members but SADN has only 1 member. 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.

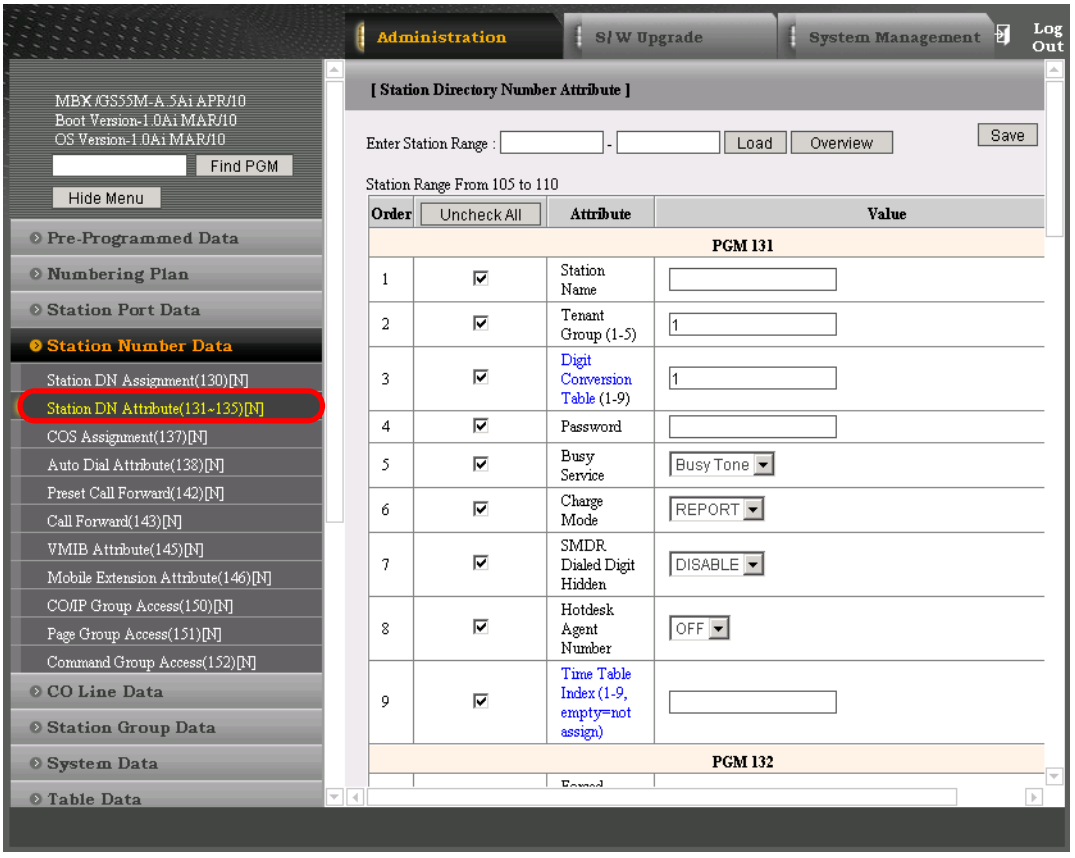
Station DN Assignment

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. Seize and Dial: Unable to seize only by off-hook when making outgoing call even if the button is set to prime number button. 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	-

Station Directory Number Attributes (PGM 131-135

Selecting Station DN Attributes will display the page shown below..

1. Enter a valid station range.
2. Click Load to enter Station DN Attributes data.



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

Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table below for a description of the features and the input required.

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 (MBX IP-300) 1-5 (MBX IP-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 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 is arrived, station treats this new call following 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 S-DN & SADN.	0: Off 1: On	Off
Time Table Index	Specify Time Table index for station.	1-9, None	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

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Offnet-Forward Access	A station must be allowed Off Net Fwd to forward external incoming calls outside the system or otherwise establish a CO-to-CO connection	0: Disable 1: Enable	Enable
DND Access	Enables DND to be activated by the station.	0: Disable 1: Enable	Enable
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 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: Drop the holding line if system detects Hook Flash and then On-Hook during dialing state.	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
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

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Absence Notice Access	Enables Absence notice feature	0: Disable 1: Enable	Enable
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
CO Call Duration Restrict	Restricts CO Call Duration to station.	0: Disable 1: Enable	Disable
SLT Block Back Call	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 ringing.	0: Disable 1: Enable	Enable
ACR User	Sets Anonymous Call Restrict service.	0: Off 1: On	Off
Wake-Up Time(HHMM)	Sets the wake-up time	HH:MM	--
Repeat Wake-up	Enables daily repeating alarm	0: Off 1: On	Off
Branch Line/Bridge Line Mode	Enables branch line feature (to restrict a conference call by pressing {DN} button in use).	0: Off 1: On	Off

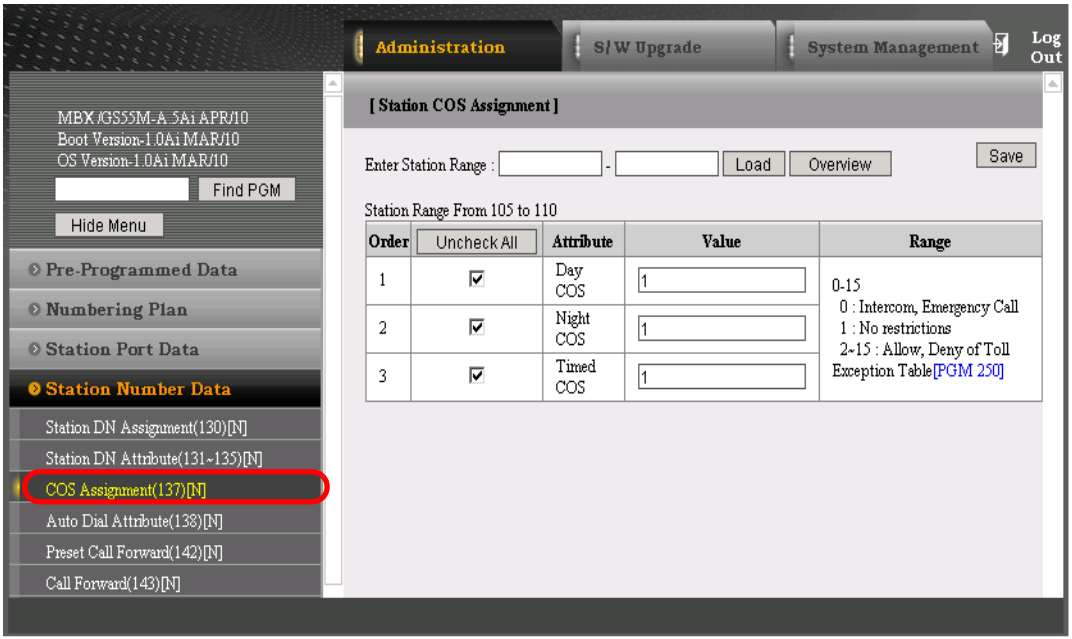
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Privacy	Enables auto privacy feature (to restrict the intrusion/call-wait/camp-on/OHVA at a busy station).	0: Off 1: On	Off
DID/DISA Restriction	If set, incoming DID and DISA calls to DN are restricted.	0: Off 1: On	Off
CLIP Display	CLIP (Calling Line Identification 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: Off 1: On	On
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: Off 1: On	Off
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: CLI 1: Redirect	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: Off 1: On	Off
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: Off 1: On	Off
CLI Number	When not restricted (btn 4 & 5 above), entry is added to the number sent in the ISDN call SETUP or CONNECT message in place of the station number.	24 digits	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call Forward CLI/Redirect	When an incoming ISDN call is forwarded by the ISDN, the call SETUP message will contain an original and redirected CLI. This selection determines if the Digital Phone will display the original or redirected number.	0: CLI 1: Redirect	CLI
Ignore Caller's CLIR option	When a call with CLIR option is received, option will be ignored and display CID.	0: Off 1: On	Off
Mobile Extension CLI	When mobile extension makes a call, CLI is determined by this option. 0: Caller No 1: Mobile Station No 2: Caller No + Mobile Staton No)	0: Caller No 1: Mobile Sta No 2:Caller+Mobile Sta	Caller No
Long CLI 1	If CLI type of outgoing CO line is set to 1, Long CLI 1 is sent.	24 digits	--
Long CLI 2	If CLI type of outgoing CO line is set to 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 is sent.	24 digits	--
CLI Name Display	If CLI type of outgoing CO line is set CLI Name Display, CLI Name is sent.	0: Off 1: On	Off
Station No. Hidden	If this is set to ON, station number is not displayed at calling or called party LCD. This selection determines if the Digital Phone will display the Station number.	0: Off 1: On	Off
Call Transfer CLI	When a STA makes a transfer call, the call SETUP message will contain a transferor or transferred CLI.	Transferor Transferred	Transferor

Station COS Assignment (PGM 137)

Selecting COS Assignment will display the page shown below.

1. Enter a valid station range.
2. Click Load to enter the Station COS data.



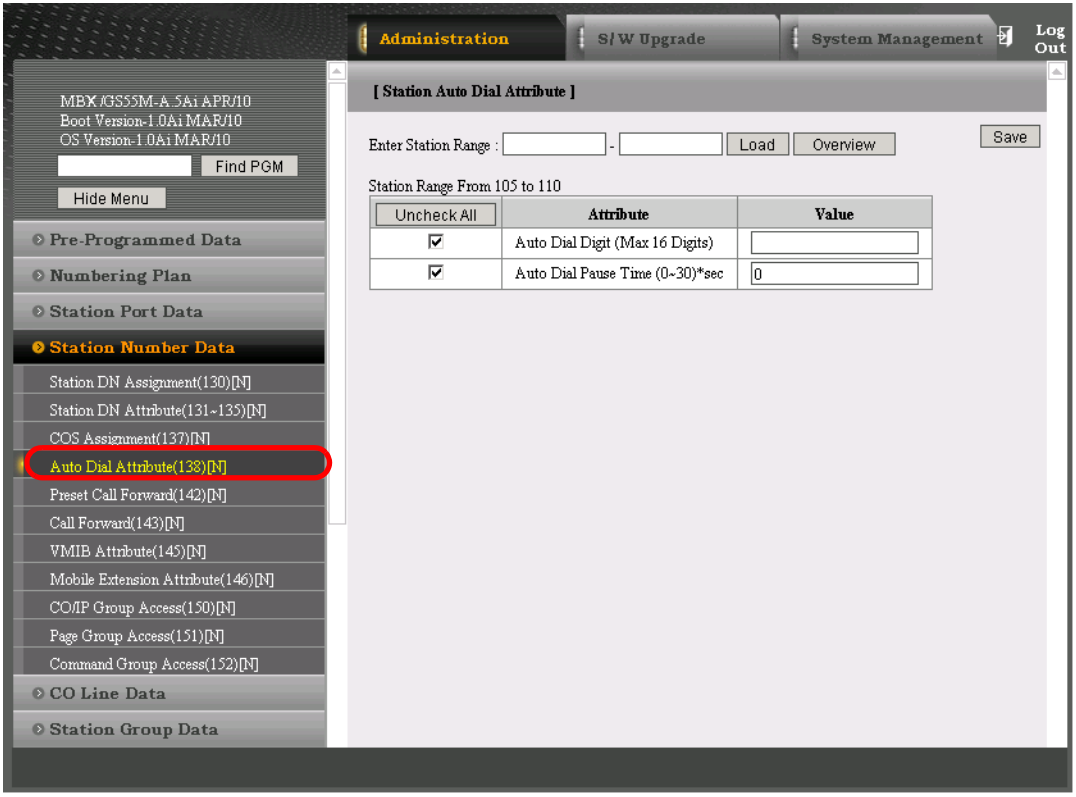
All stations are assigned a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls. Separate COS assignments are made for Day, Night and Timed Mode operation. As a default all stations are assigned with a Station COS of 1 for all modes, no restrictions.

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	Assignments in each toll exception table 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 dialed number matches Deny entry, call is restricted; if no match is found call is allowed.

Station Auto Dial Attribute (PGM 138)

Selecting Auto Dial Attribute will display the Station page shown below.

1. Enter a valid station range.
2. Click Load to enter the Station Auto Dial Attribute.



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

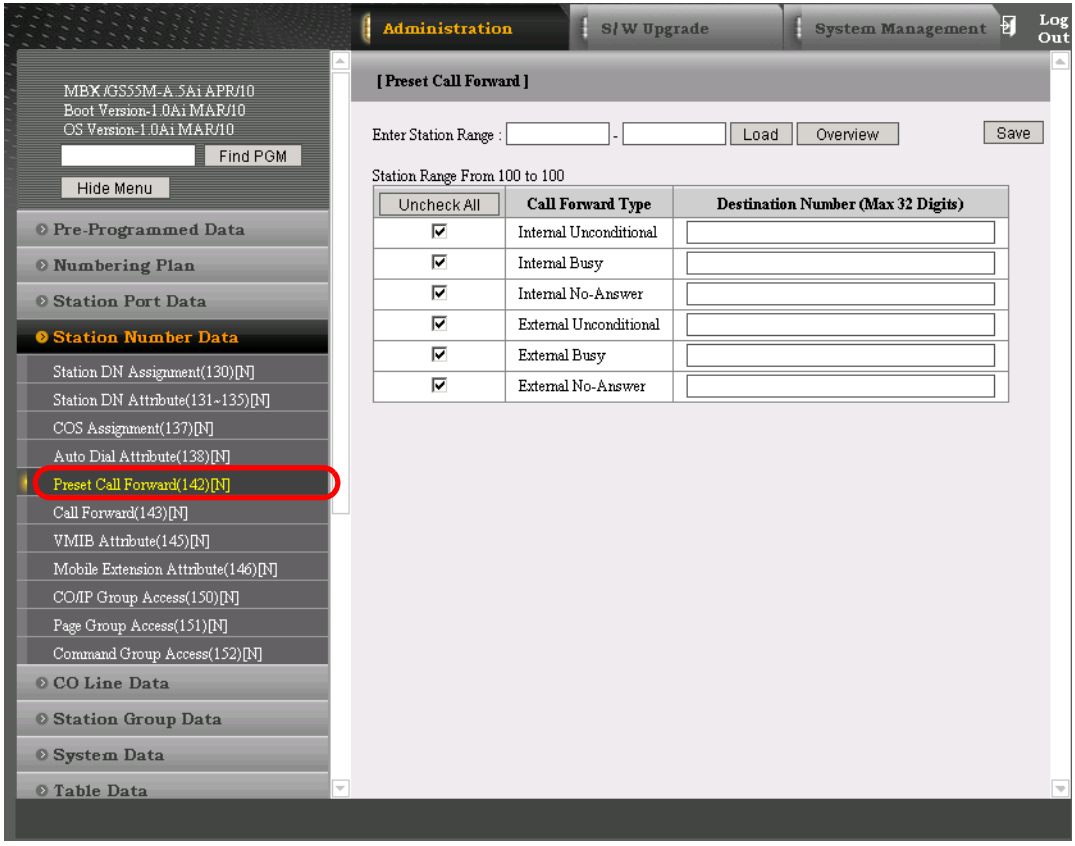
In place of the dial tone, the station can be programmed to Auto-Dial Digit the preprogrammed (max 16) digits. If configured, and if no digit is entered within the "auto dial pause time", is then the system will dial the "Auto-Dial-Digit" automatically.

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

Preset Call Forward (PGM 142)

Selecting Preset Call Forward will display the page shown below

1. Enter a valid station range.
2. Click Load to enter the Station Preset Call Forward data.



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.

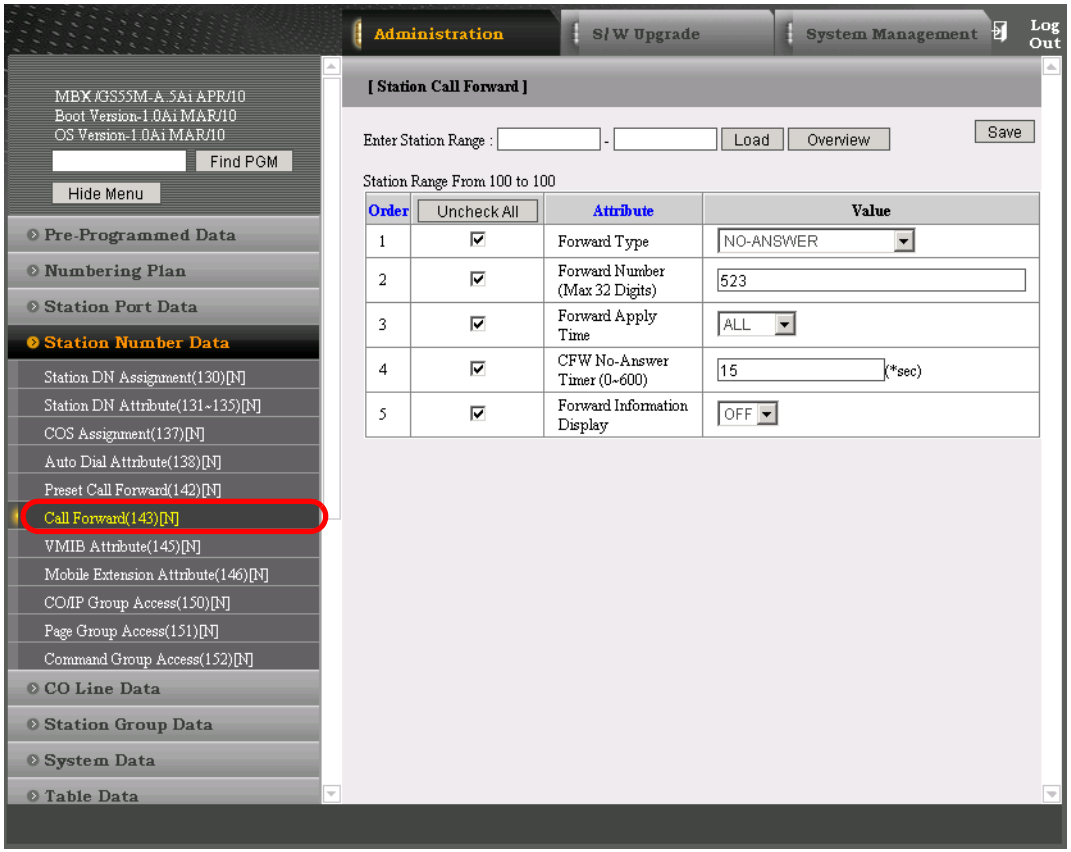
Preset Forward can be separately assigned Internal Unconditional, Internal Busy, Internal No Answer, External Unconditional, External Busy or External No Answer preset forwarding to any station, station group or external number.

As a default, no Preset Call Forward is assigned.

Call Forward (PGM 143)

Selecting Call Forward will display the page shown below.

1. Enter a valid station range.
2. Click Load to enter the Station Call Forward data.



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

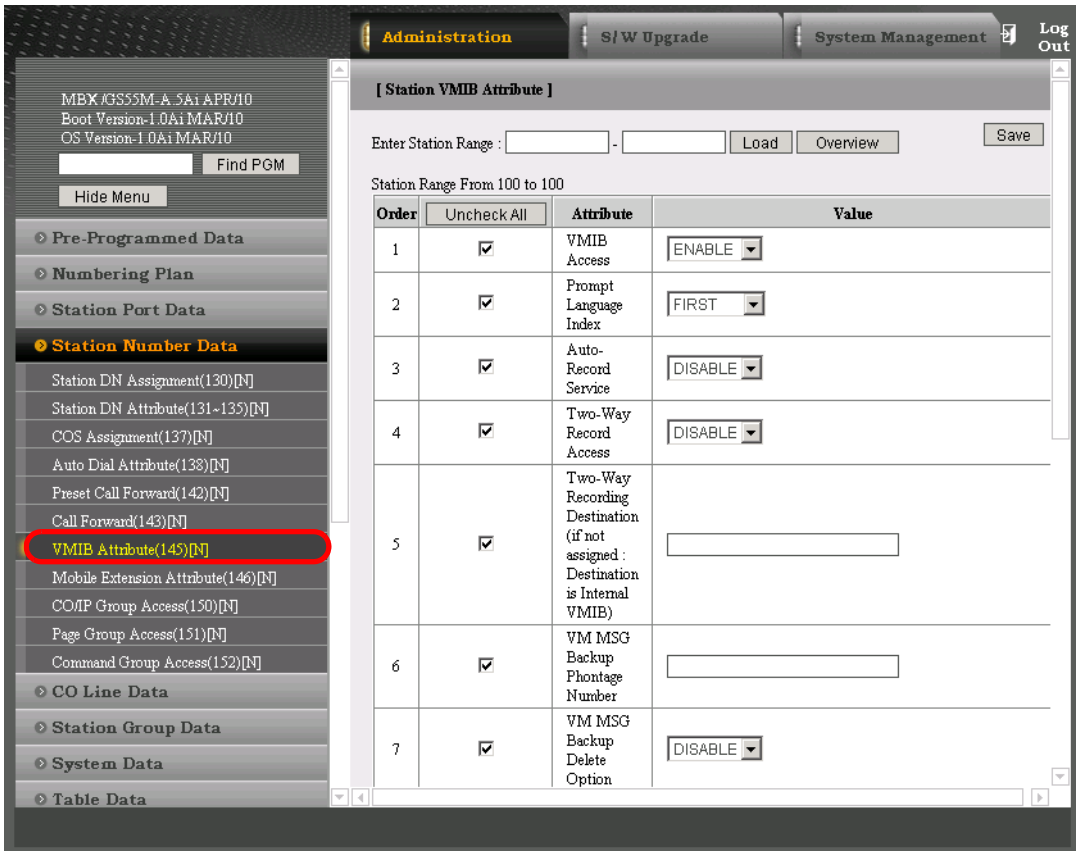
Station Call Forward

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

VMIB Attribute (PGM 145)

Selecting VMIB Attribute will display the page shown below.

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



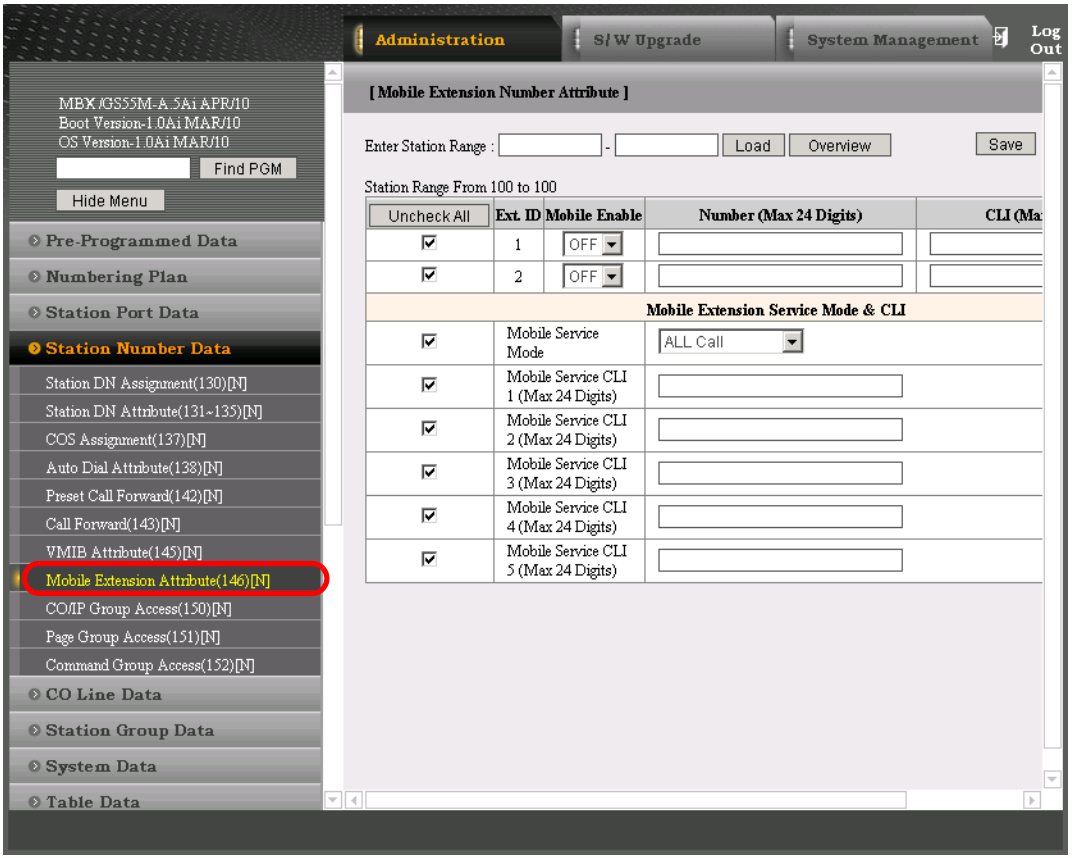
Station VMIB Attributes define VMIB features and functions available to the station directory number.

Station Directory Number 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.	1-3	1
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 defined location of Two-Way recorded wav files. When VM Boards, recorded wav files is saved at internal VM boards. In addition, if assign specific Phontage and this Phontage is supportable s/w version, recorded wav files is saved at hard disk of Phontage program installed PC.	--	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	When allowed, Phontage user can delete all voice mail in VM internal boards.	1: Enable 0: Disable	0: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.	1: FIFO 0: LIFO	LIFO
VMIB New Message No	Displays the number of new messages.	--	--
VMIB Saved Message No	Displays the number of saved messages.	--	--
VM MSG-SMTP Mail Server Address	SMTP Mail Server Address	--	--
VM MSG-User Mail Address	User Mail Address	--	--
VM MSG-SMTP Mail Server ID	SMTP Mail Server ID	--	--
VM MSG – SMTP Mail Server ID	SMTP Mail Server ID	--	--
VM MSG – Attach Message	attach message or not	--	--

Mobile Phone Attribute (PGM 146)

Selecting Mobile Phone Attribute will display the page shown below.. Enter a valid station range and click Load to enter the Station Mobile Phone Attribute Data.



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.

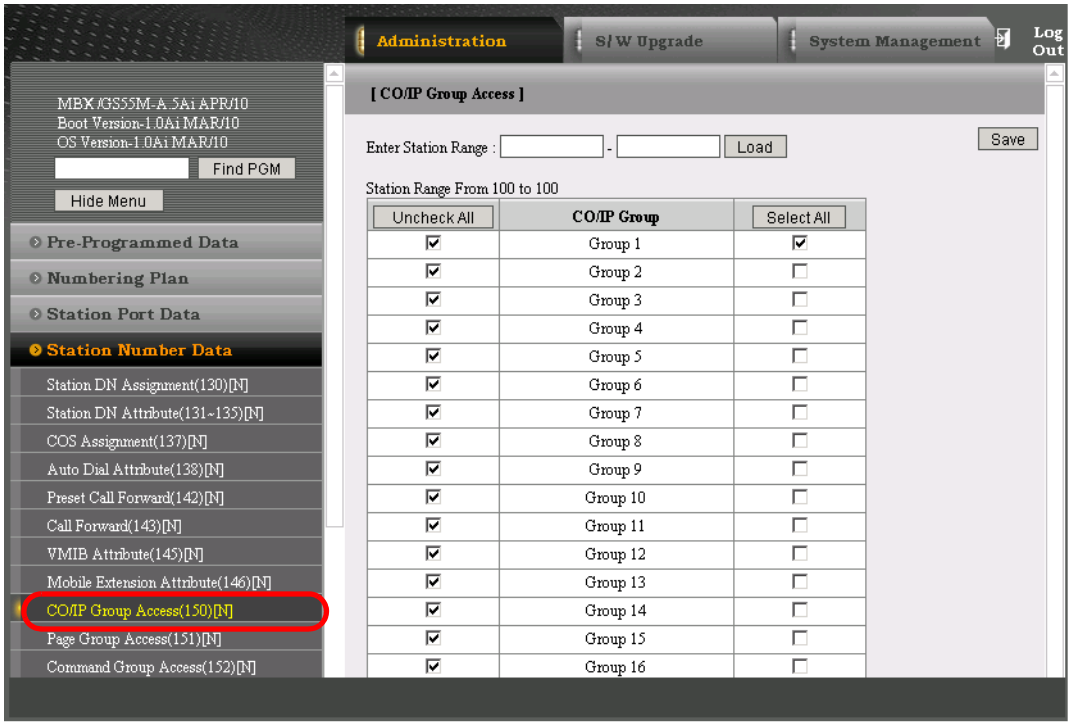
Mobile Phone Attribute

ATTRIBUTE	DESCRIPTION	RANGE
EXT.ID	Mobile phone index	--
Mobile enable	Enable mobile extension ability	0: OFF (default) 1: ON
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.	ALL Call OR, Service CLI only
Mobile Service CLI (1-5)	CLI for Mobile Service	--

CO/IP Group Access (PGM 150)

Selecting CO/IP Group Access will display the page shown below..

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.

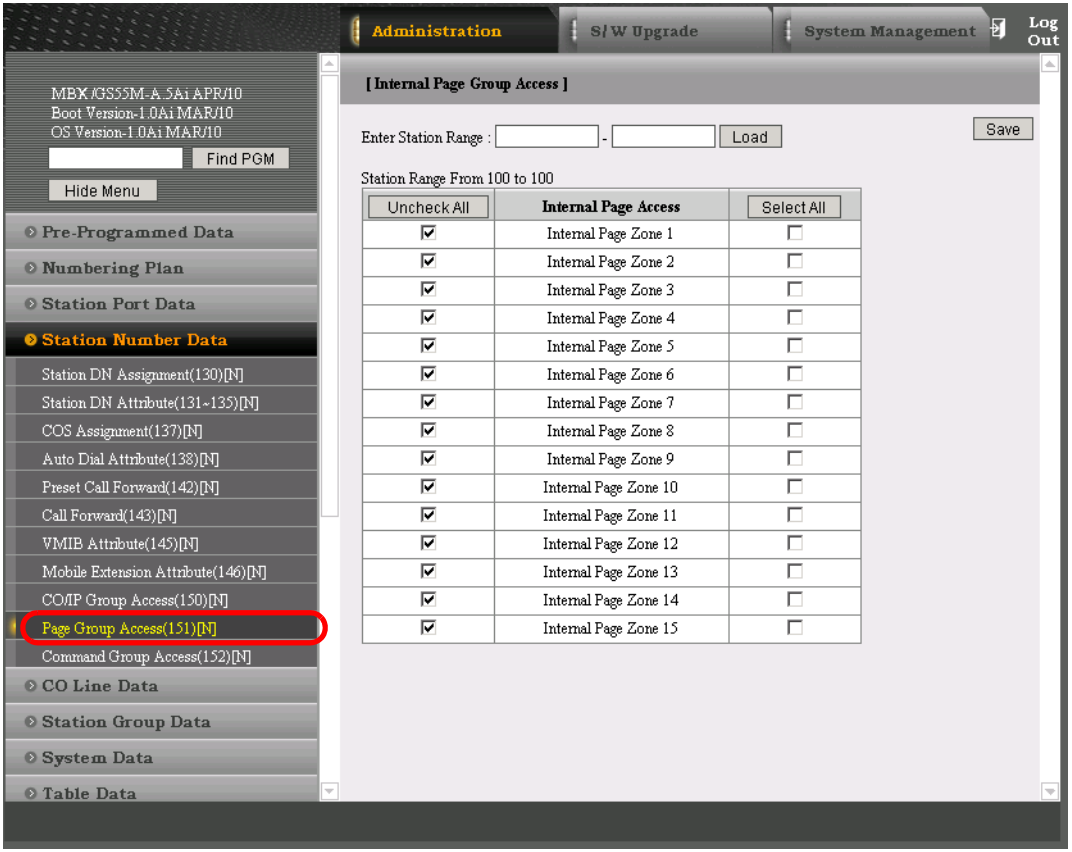


Stations can be allowed or denied access to CO Lines and IP Channels by group. As a default, all stations are allowed access to group 1.

Internal Page Group Access (PGM 151)

Selecting Internal Page Group Access will display the page shown below.

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.

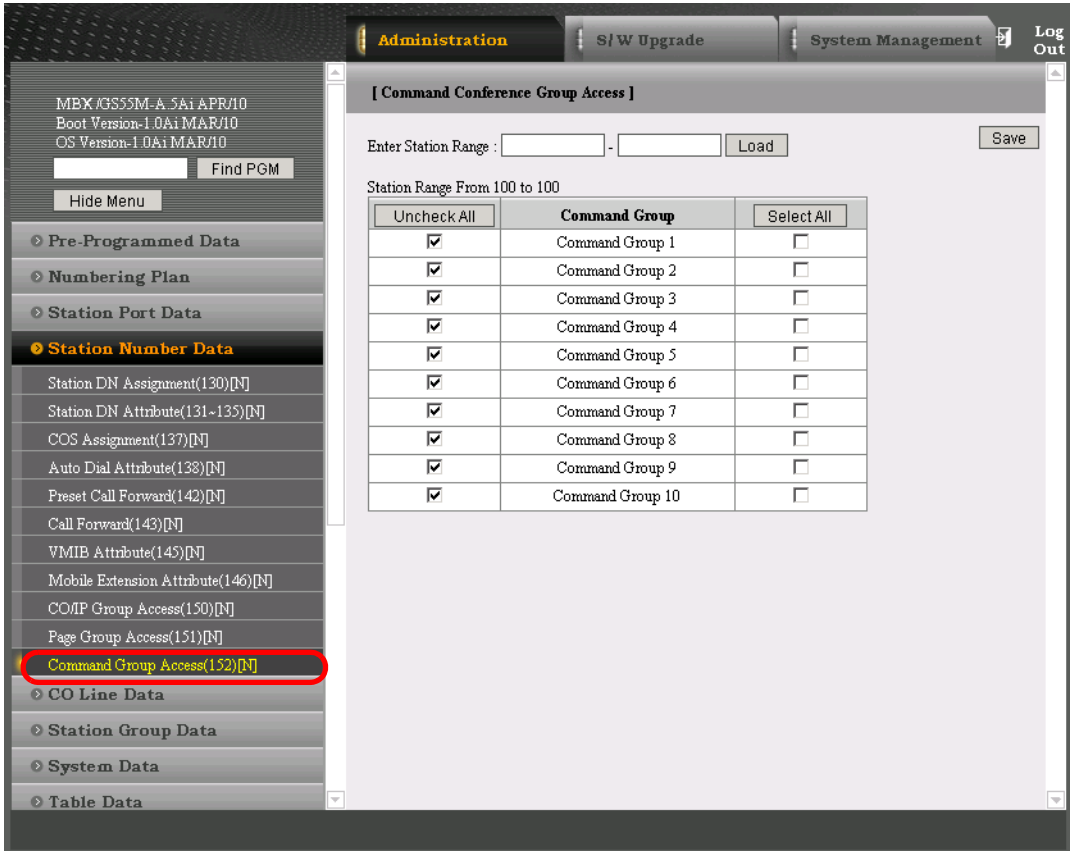


Each station is assigned for making announcements to each Internal Page Group.

Command Conference Group Access (PGM 152)

Selecting Command Conference Group Access will display the page shown below.

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.



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

CO Line Data

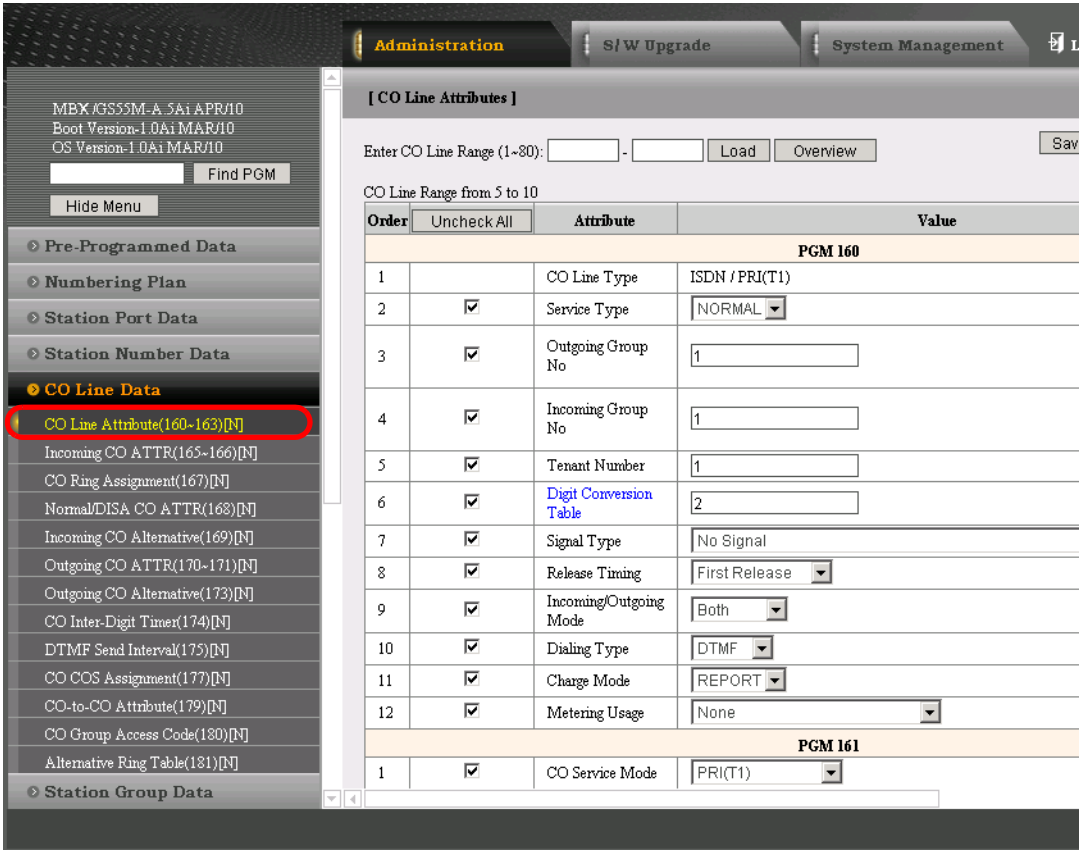
Selecting the CO Line Data program group returns the sub-menus shown below:

- CO Line Attribute (160-163)
- Incoming CO ATTR (165-166)
- CO Ring Assignment (167)
- Normal/DISA CO ATTR (168)
- Incoming CO Alternative (169)
- Outgoing CO ATTR (170-171)
- Outgoing CO Alternative (173)
- CO Inter-Digit Timer (174)
- DTMF Send Interval (175)
- CO COS Assignment (177)
- CO-to-CO Attribute (179)
- CO Group Access Code (180)
- Alternative Ring Table (181)

CO Line Attribute (PGM 160-163)

Selecting CO Line Attributes will display the page shown below.

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



CO Attributes define various characteristics of CO lines under control of the system. Most characteristics require an On/Off setting.

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	0.Normal
Outgoing Group No	Sets CO Group Number to apply to outgoing calls	01–72 (MBX IP-300) 01–24 (MBX IP-100)	01
Incoming Group No	Sets CO Group Number to apply to incoming calls	01–72 (MBX IP-300) 01–24 (MBX IP-100)	01
Tenant No	Sets Tenant group number to apply to CO lines.	1-9 (MBX IP-300) 1-3 (MBX IP-100)	2
Digit Conversion Table	Sets Digit Conversion Table index	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 Sans 5: Send Wink & Send Answer(IC) 6: Wait Ack & Send Answer(OG) 7: Send All & Wait All	0. 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	0. First RLS
Incoming/Outgoing Mode	Each CO line can be set to only allow incoming or outgoing calls.	0: Incoming Only 1: Outgoing Only 2: Allow Both	2. Both
Dialing Type	One of following dialing signal type can be selected; DTMF, Pulse, R2MFC.	0: DTMF 1: PULSE 2: R2	0.DTMF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Charge Mode	If "Free", the external call though CO line is not printed/saved to SMDR even though SMDR is enabled. If "Report", the external call though CO, line is included to SMDR according to the SMDR Attributes.	0: Free 1: Report	1.REPORT
Metering Usage	According to PSTN service type, metering type can be selected among 00-12 to manage call charge. 01- 06 can be applied to LCO lines, 07-12 can be applied to ISDN lines.	00: None 01: 12KHz 02: 16KHz 03: 50KHz 04: SPR 05: PPR 06: NPR 07: AOC 0(Standard) 08: AOC 1(Italy & Spain) 09: AOC 2(Finland) 10: AOC 3(Australia) 11: AOC 4(Belgium) 12: AOC 5(Netherlands)	0.None
CO Service Mode	One of SIP (or PRI), H.323 or Qsig type can be selected for each VOIP (or ISDN) lines.	1: SIP/PRI 2: H.323/BRI 3: H.450/QSIG 4. PRI(T1) 5.QSIG (T1)	1: SIP/PRI
Drop Type	LCO line drop type	0: Loop 1: Polarity Reverse	0.Loop
Flash type	LCO line Flash type	0: Loop 1: Ground	0.Loop
Flash timer	CO Flash Timer	001 – 300(10ms base)	050
Open Loop timer	Open Loop Timer	00 – 20(100ms base)	00
Line Length	LCO line length	0: 0km 1: 3km 2: 5km 3: 7km	0.0km
Zone No	Zone number of CO lines	1-9	1
VMIB Prompt Language Index	VMIB Prompt Index	1-3	1

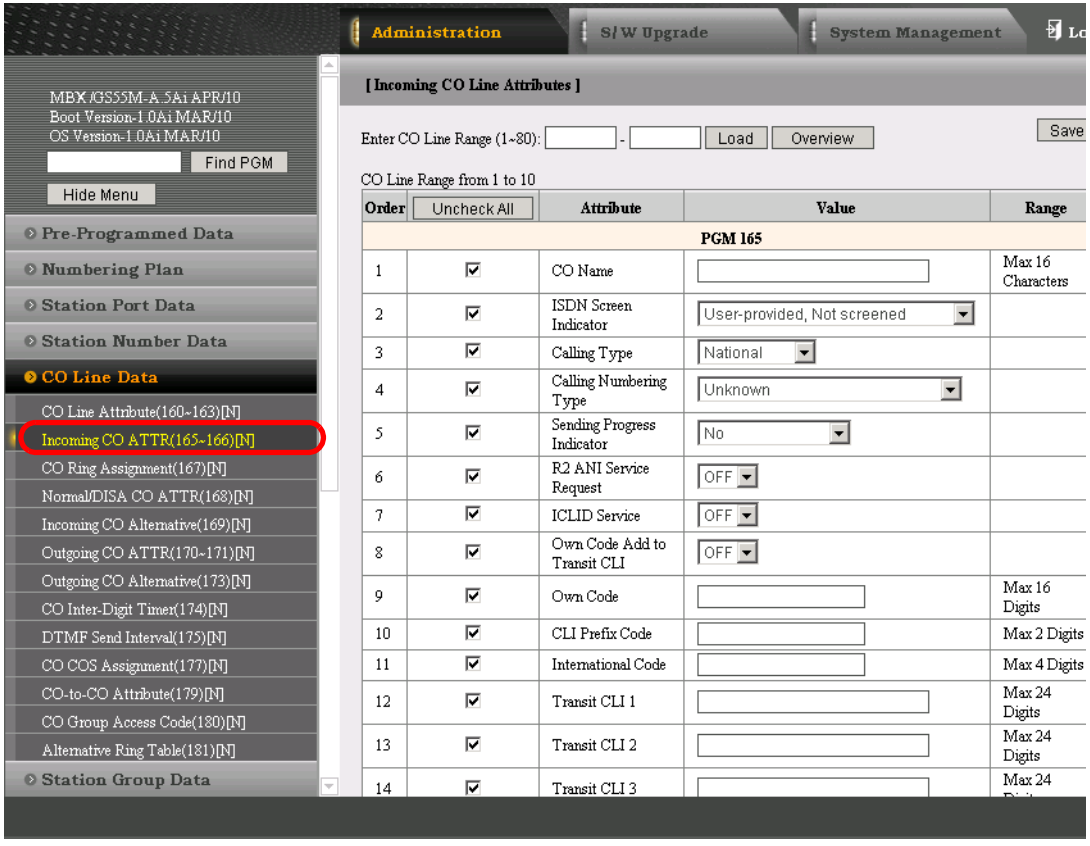
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Gain Table Index	Gain table for each CO line.	Table 1-Table 3	Table 1
ISDN CD	ISDN lines can be set to use Call Deflection service if PSTN supports Call Deflection.	0: OFF 1: ON	0. OFF
CO Access Mode	CO lines can be set to blocked, or CO line or Dedicated line.	0: Blocked Line 1: Normal CO Line 2: Dedicated Line	Normal CO Line
Digit Sending Mode	CO lines can be set to send digit with overlap or unblock method.	0: Overlap 1: Enblock	Overlap
Max. Digit Length	Number of dialed digits can be limited.	00-32	32
Min. Digit Length for Overlap Mode	Number of minimum digits can be limited for overlap dialing	00-32	00
Check Password	Reserved for Password. Password can be requested when the CO line is seized.	0: OFF 1: ON	0FF
R2 Connect Mode	R2 line connection mode	0: END-TO-END 1: LINK-BY-LINK	ENE-TO-END
R2MFC Backward Value	R2MFC Backward Value	01-15	01
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	Disabled
RCID Detect	Russia CID Detect Mode	0: LOCAL 1: ALL	ALL

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
RCID Request	Russia CID Request Mode	0: USER 1: AUTO	AUTO
RCID Digit Number	Russia CID Digit Number	04-10	07
RCID No-Answer Timer	Russia CID NO-Answer Timer	001-300(sec)	020
RCID Request Count	Russia CID Request Count	1-3	1
RCID Request First Delay Timer	Russia CID First Delay Timer	010-150(10msec)	037
RCID Request Retry Daly Timer	Russia CID Retry Delay Timer	10-30(10msec)	10

Incoming CO Attributes (PGM 165-166)

Selecting Incoming CO ATTR will display the page shown below:

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



Incoming CO Attributes define various characteristics of CO lines under control of the system.

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: Off (user-provided, not screened) 1: On (user-provided, verified & passed)	Off
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	Subscribe
Calling Numbering Type	Select Connected number plan of ISDN CONNECT message.	0: Unknown 1: I SDN/Telephony 2: Data 3: Telex 4: National 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 2: Alerting	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, original caller’s CLI is sent when there is transit call.	0: Off 1: On	Off
Own code	Own Code	Max 16 digits	-

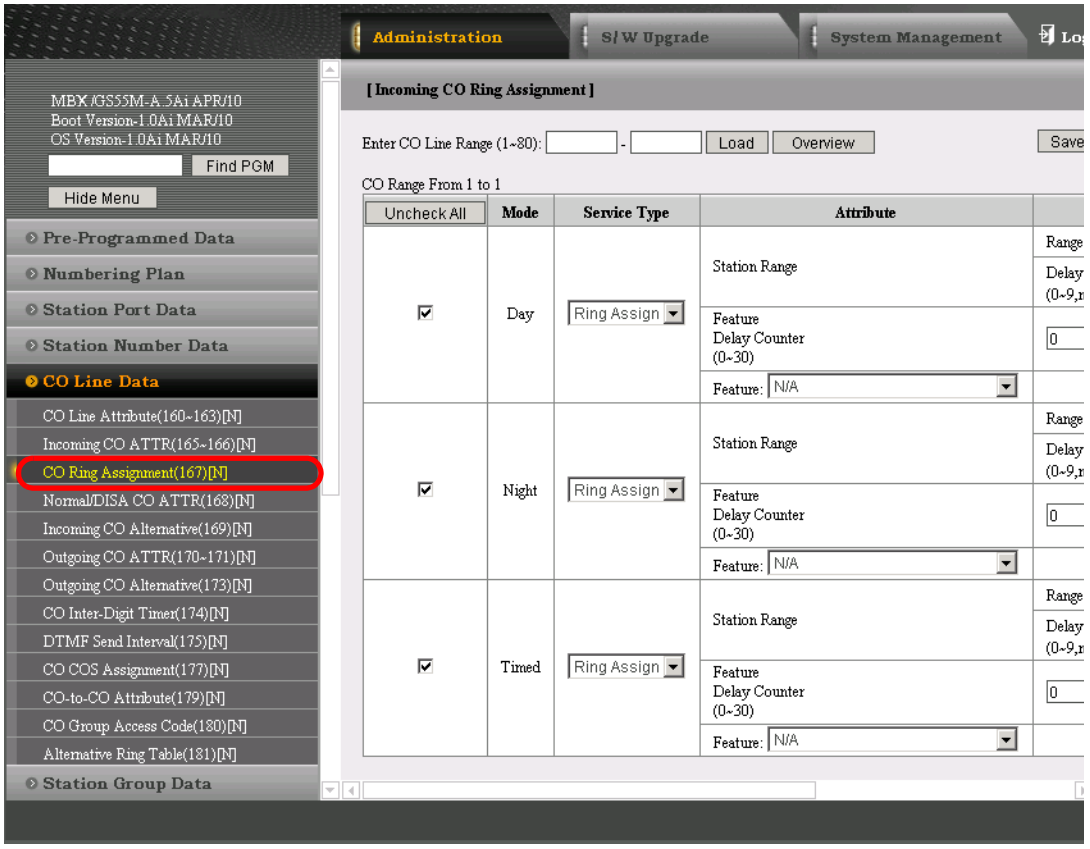
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CLI Prefix Code	Prefix code is inserted ahead of received CLI data.	Max 2 digits	-
Transit CLI 1	If Transit CLI type of outgoing CO line is set to 1, Transit CLI 1 is sent.	Max 24 digits	-
Transit CLI 2	If Transit CLI type of outgoing CO line is set to 2, Transit CLI 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	1
Alternative Ring Table 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	None
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
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	ON
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 to answer a call on the CO Line by dialing the Universal Answer feature code.	0: Off 1: On	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Release Guard Time	If CO release signaling is not completed successfully, CO line is disconnected when this timer expires.	00-15 (sec)	01
Unsupervised Conference Timer	When there on a conference call without supervisor, or a CO-to-CO call, the call is disconnected after timer expires; a warning tone is heard before the line is disconnected.	000-255 (min)	000
Clear Forward Waiting Timer	Clear Forward Waiting Time	001-300 (sec)	300
Max Ring Time	Max. Ring Time when incoming CO is transferred/recalled.	015-300 (sec)	120
DISA Supervision Timer	DISA Supervision Timer	1-9 (sec)	2
VMIB Play Delay Timer	VMIB Play Delay Timer after system answers the incoming CO call.	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

CO Ring Assignment (PGM 167)

Selecting CO Ring Assignment will display the page shown below:

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



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.

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

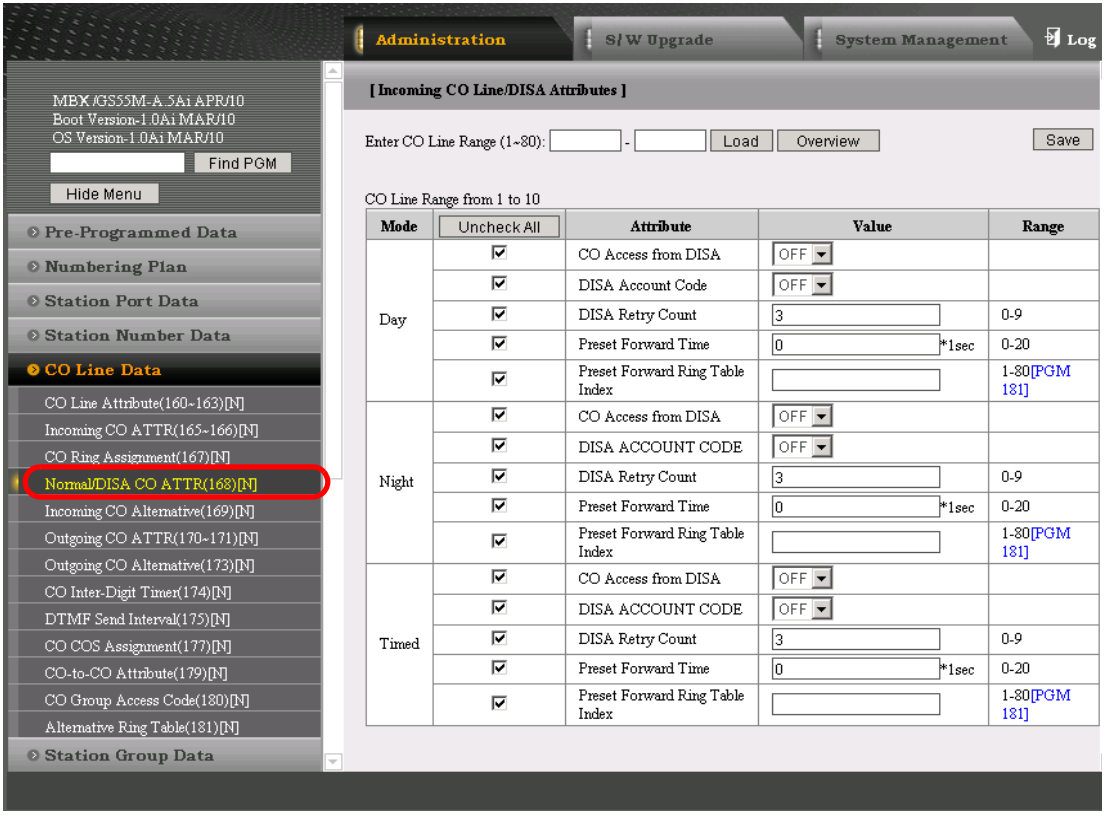
CO Ring Assignment

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
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) Announcement Table 3) Announcement Table And Drop 4) DISA Tone 5) Digits: to use the digit conversion, or the assigned digit is displayed if the above feature code is changed.	-	-
Feature Delay counter	If Service type is set to Feature code, it can be delayed. NOTE: Assigned station and delay value can be displayed. Volume Up/Down key is used to scroll data.	00-30	00
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

Incoming CO Normal/DISA Attributes (PGM 168)

Selecting Normal/DISA CO ATTR will display the page shown below:

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



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

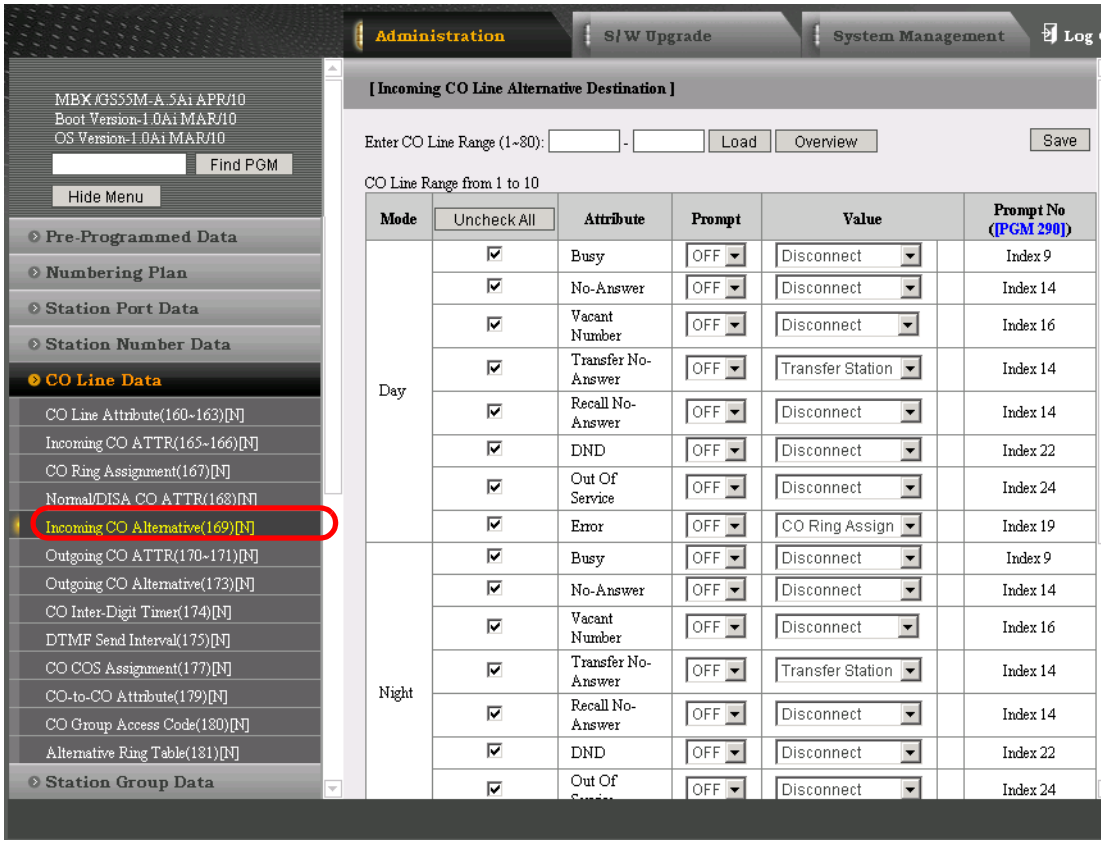
INCOMING CO Line/DISA Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
CO Access from DISA	If this feature is set to ON, CO-to-CO call can be made 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.	1-9	3
Preset Forward Time	If the CO is not answered in Preset Forward Time, it will be routed to the assigned ring table.	00-20 (sec)	00
Preset Forward Ring Table Index	Preset Forward ring table index can be assigned (refer to PGM 181).	01-80	-

CO Incoming Alternate Destination (PGM 169)

Selecting Incoming CO Alternative will display the page shown below.

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



When a DID or DISA is routed to an unavailable destination (busy, DND, etc.), the call can be rerouted to alternate destination.

The destination is separately defined for Day/ Night/ Timed mode according to several conditions 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.

Incoming CO Alternate Destination

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

ATTRIBUTE	DESCRIPTION	RANGE
Out Of Service	Station is out of service.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Group
Error	Station is in error state.	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Pilot Group

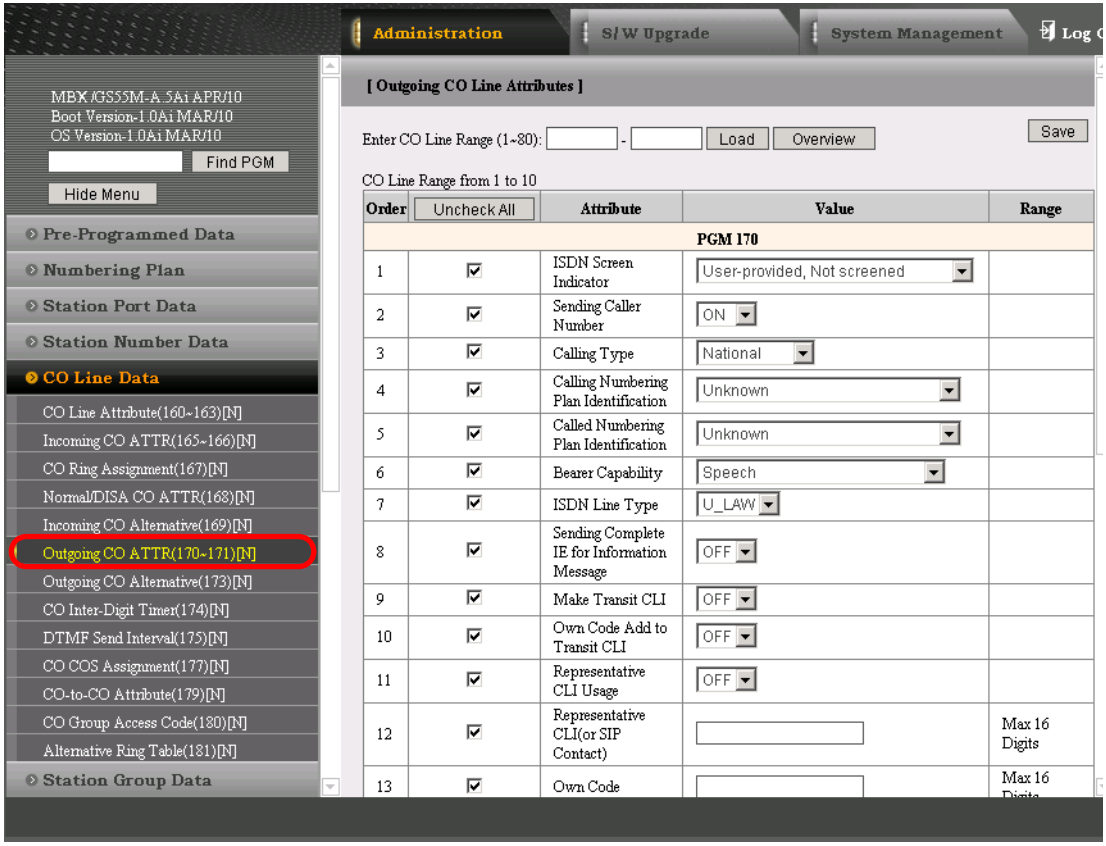
Prompt

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	-	-

CO Outgoing Attribute (PGM 170-171)

Selecting Outgoing CO ATTR will display the page shown below:

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



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

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	Sending Caller number message of ISDN	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
Calling Numbering Type	Select Calling number plan of ISDN SETUP message.	0: Unknown 1: I SDN/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	0: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	0: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

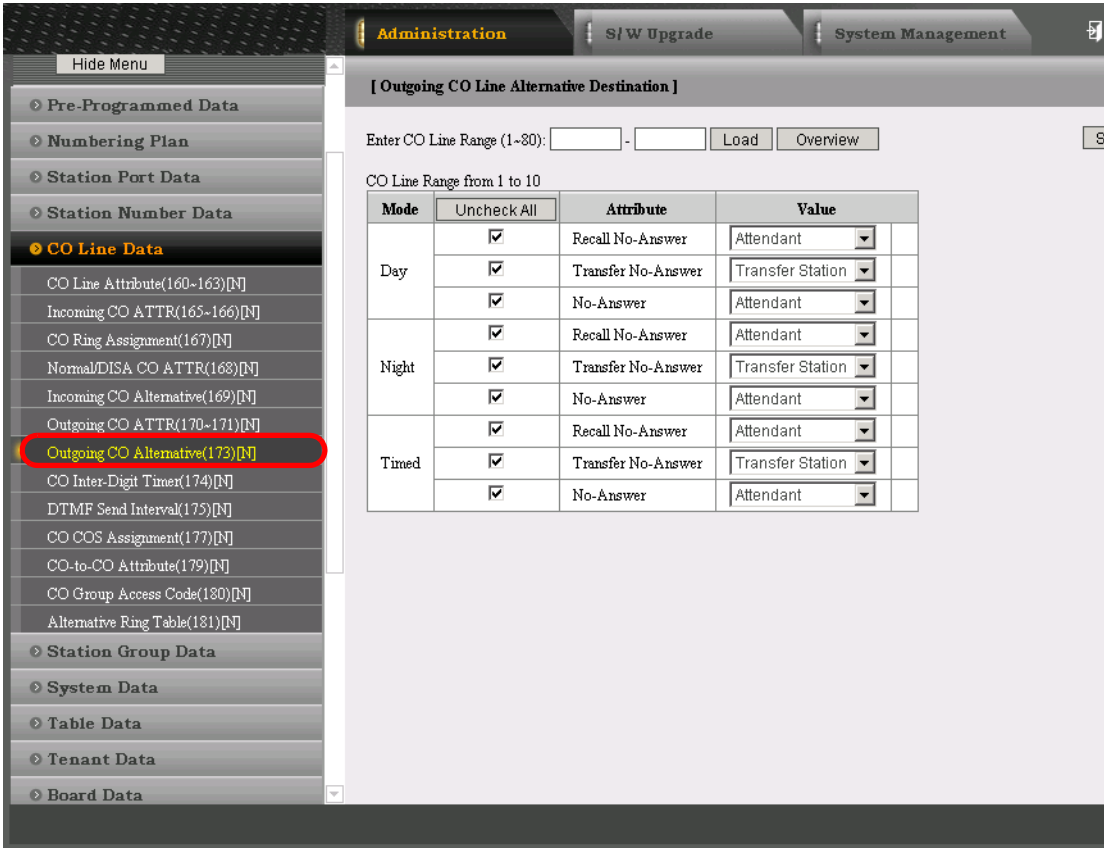
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Representative CLI Usage	If this feature is set to ON, representative CLI is used to every outgoing call of selected CO line.	0: Off 1: On	OFF
Representative CLI	When "Use Represent CID" (PGM170-F10) is set to ON, representative CLI is sent when making outgoing call 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
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	CLI Conversion table index	1-9, None	None
Send Redirection Number	Redirection number	0: Off 1: On	Off
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

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Release Guard Timer	If CO release signaling is not completed successfully, CO line is disconnected when this timer expires.	00-15 (sec)	02
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.	000-255 (min)	000
Max Transfer Ring Timer	Max. Ring Time when outgoing CO is transferred/recalled.	001-300 (sec)	120
Outgoing Time Table Index	The time table index to be applied to outgoing CO Call	1-9, None	None

CO Outgoing Alternate Destination (PGM 173)

Selecting Outgoing CO Alternative will display the page shown below.

1. Enter a valid CO range.
2. Click Load to enter the CO Outgoing Alternate Destination data.



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.

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE
Recall No-Answer	like hold a call the station has recall of hold call	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Ring
Transfer No-Answer	as it is	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Ring Transfer Station
No-Answer	all cases except recall/transfer no-answer	Disconnect Attendant CO Ring Assign ALT Ring Table Tone Ring

CO Outgoing Inter Digit Timer (PGM 174)

Selecting CO Inter-Digit Timer will display the page shown below.

1. Enter a valid CO range.
2. Click Load to enter the CO Outgoing Inter Digit Timer data.

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

NOTE: Timer is not applied to digital CO lines.

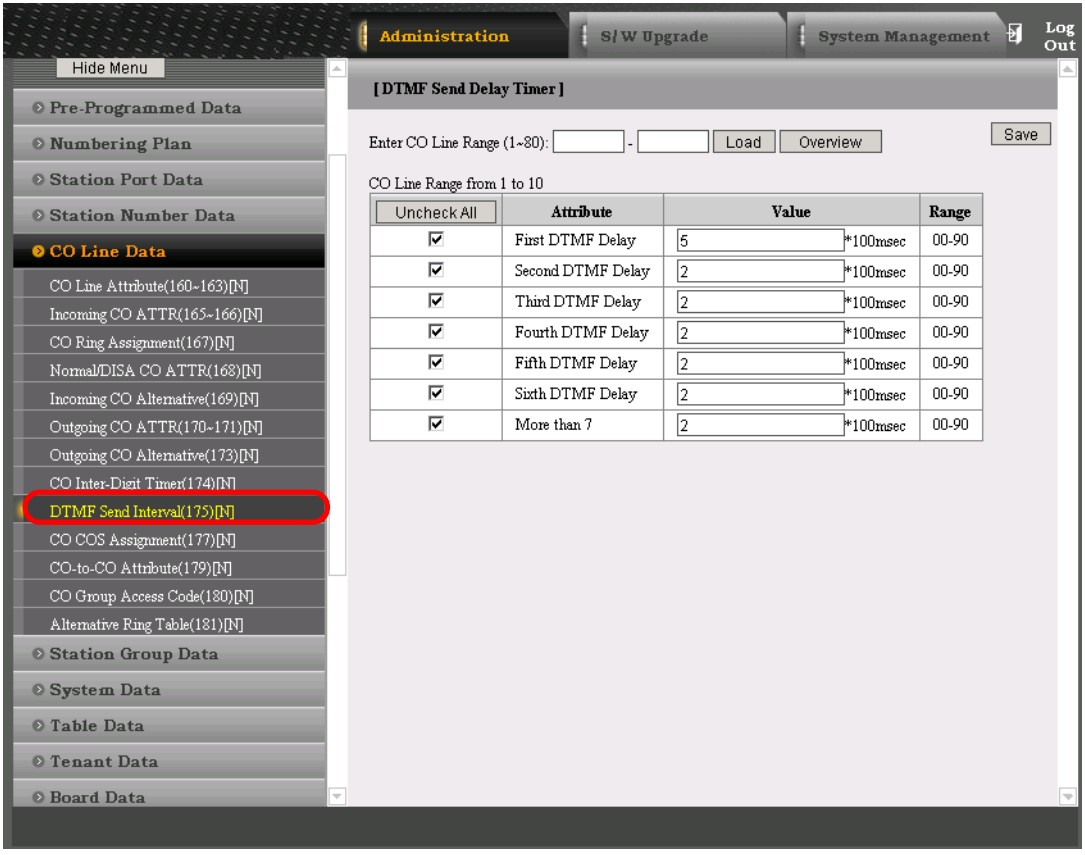
CO OUTGOING INTER-DIGIT TIMER

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

CO DTMF Sending Delay Timer (PGM 175)

Selecting DTMF Send Interval will display the page shown below.

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



When making an outgoing CO call, the time interval to send DTMF tones of each digit can be adjusted. This feature is useful to the Speed Dial or Redial feature.

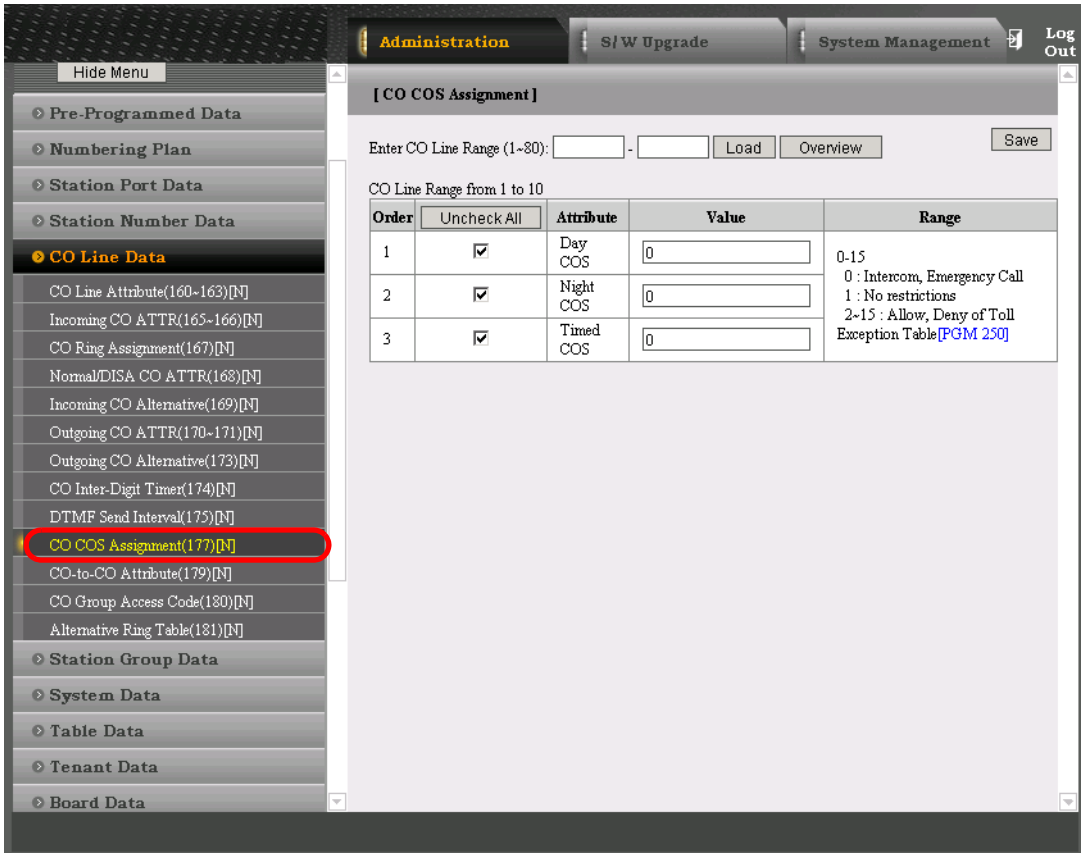
CO DTMF SENDING DELAY TIMER

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 7	Delay time before sending next digit after sending sixth digit DTMF tone.	00-90 (100msec)	02

CO COS Assignment (PGM 177)

Selecting CO COS Assignment will display the page shown below.

1. Enter a valid CO range.
2. Click Load to enter the CO COS Assignment data.



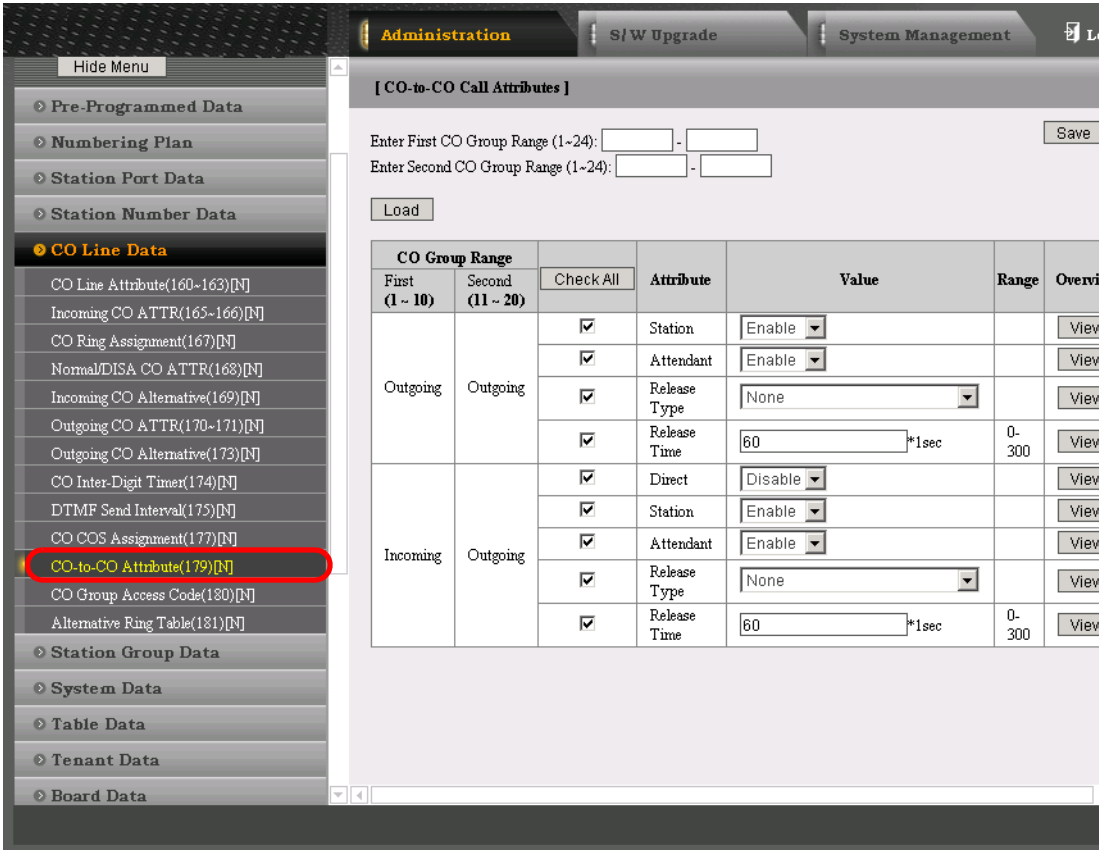
Every CO line has its own COS and the toll of assigned COS is applied to the CO call (refer to Toll Table, PGM 250).

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

CO to CO Transfer Attributes (PGM 179)

Selecting CO-to-CO Attribute will display the CO-to-CO Transfer Attributes data input page shown below..

1. Enter a valid CO range.
2. Click Load to enter the CO-to-CO Transfer Attributes data.



When there is CO transit call, transfer options can be set separately for each CO group.

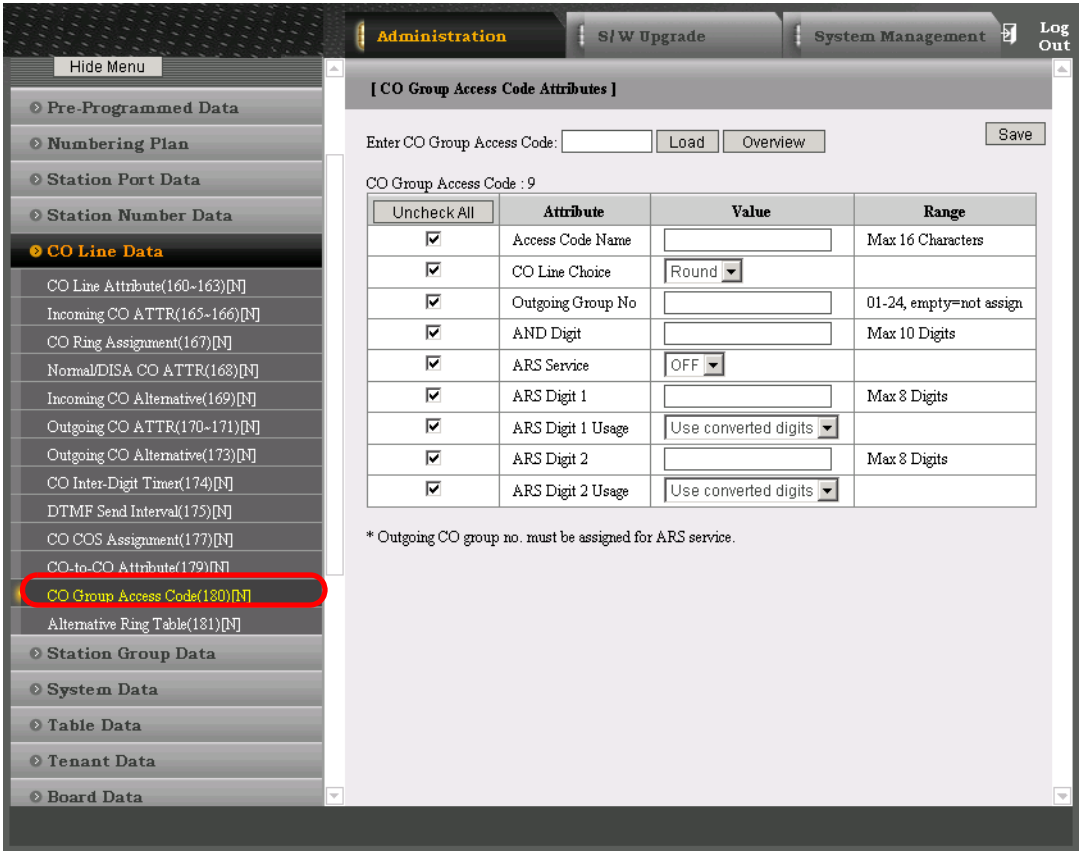
CO TO CO ATTRIBUTE

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Station Outgoing Call Transfer	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	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	If outgoing CO call can be transferred to other CO call, release type can be set. If set to None, it is not disconnected.	0: None 1: Release after Release Timer	None
Outgoing Call Transfer 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	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	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	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	If incoming CO call can be transferred to other CO call, release type can be set. If set to None, it is not disconnected.	0: None 1: Release after Release Timer	None
Incoming Call Transfer 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

CO Group Access Code Attribute (PGM 180)

Selecting CO Group Access Code will display the page shown below:

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



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

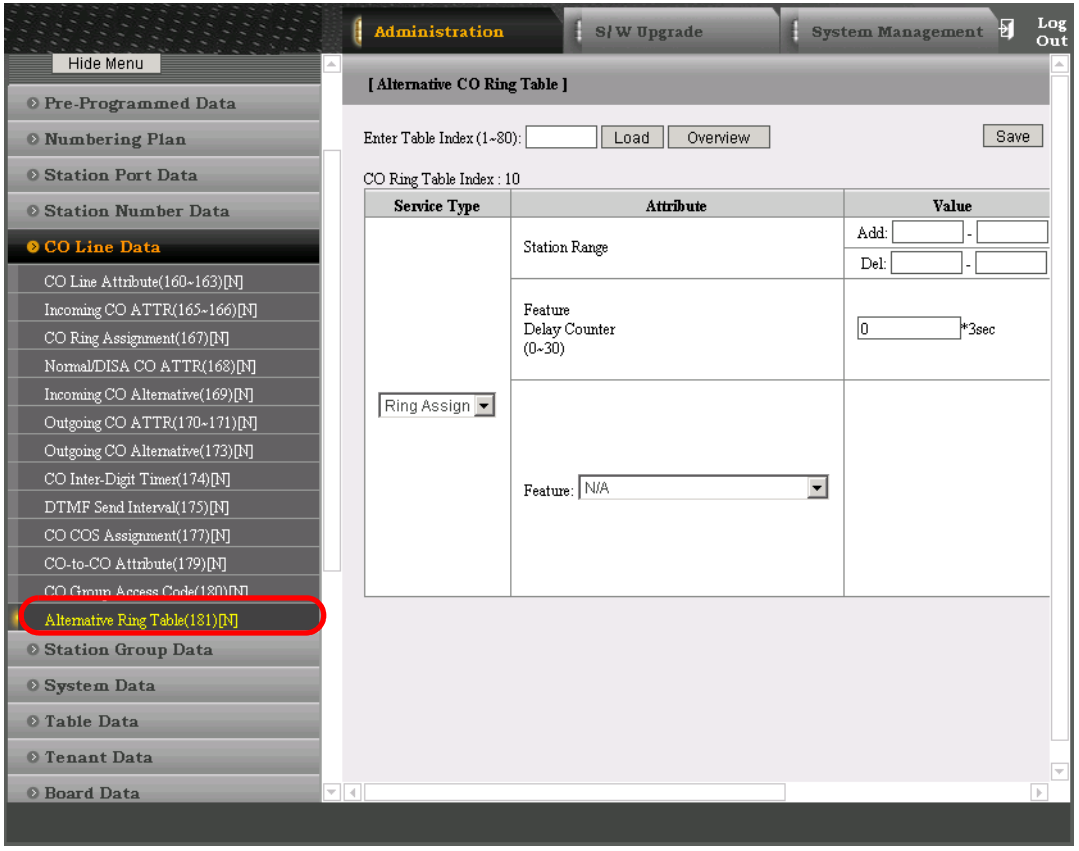
CO GROUP ACCESS CODE ATTRIBUTE

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. NOTE: When Outgoing Group Number is not assigned, this option is not applied.	0: Round Robin 1: Last Line 2: First Line	Last Line
Outgoing Group No	Decide CO Group number to seize. NOTE: If not assigned, the access code is used as LOOP key.	01-72 (MBX IP-300) 01-24 (MBX IP-100)	Not assigned to the first access code. 01-72 (MBX IP-300) 01-24 (MBX IP-100) is assigned sequentially from the 2nd 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	--
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.	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 Digit1 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

Aternate Ring Assignment (PGM 181)

Selecting Alternative Ring Table will display the page shown below.

1. Enter a valid CO range.
2. Click Load to enter the Alternate Ring Assignment data.



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

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 Feature code, it can be delayed.	00-30	00
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) Announcement Table 3) Announcement table and Drop, 4) DISA Tone 5) Digits: to use the digit conversion, or the assigned digit is displayed if the above feature code is changed.		-

Station Group Data

Stations can be grouped for call routing, dialing, call pick-up etc. and used for various purposes.

Selecting the Station Group Data program group returns the sub-menus shown:

- Station Group Assign: Terminal / Circular / Ring / Longest Idle / VM (200)
- Station Group Attribute (201-202)
- Voice Mail Group (203)
- Call Pick Up Group (204)
- Page Group (205)
- Command Conference Group (206)
- PTT Group (208)
- Interphone Group (209)
- Pilot Hunt Group (210-211)
- ACD Group Assignment (212)
- ACD Group Attribute (213-214)
- ACD Group Announcement (215)
- ACD Agent State & Priority

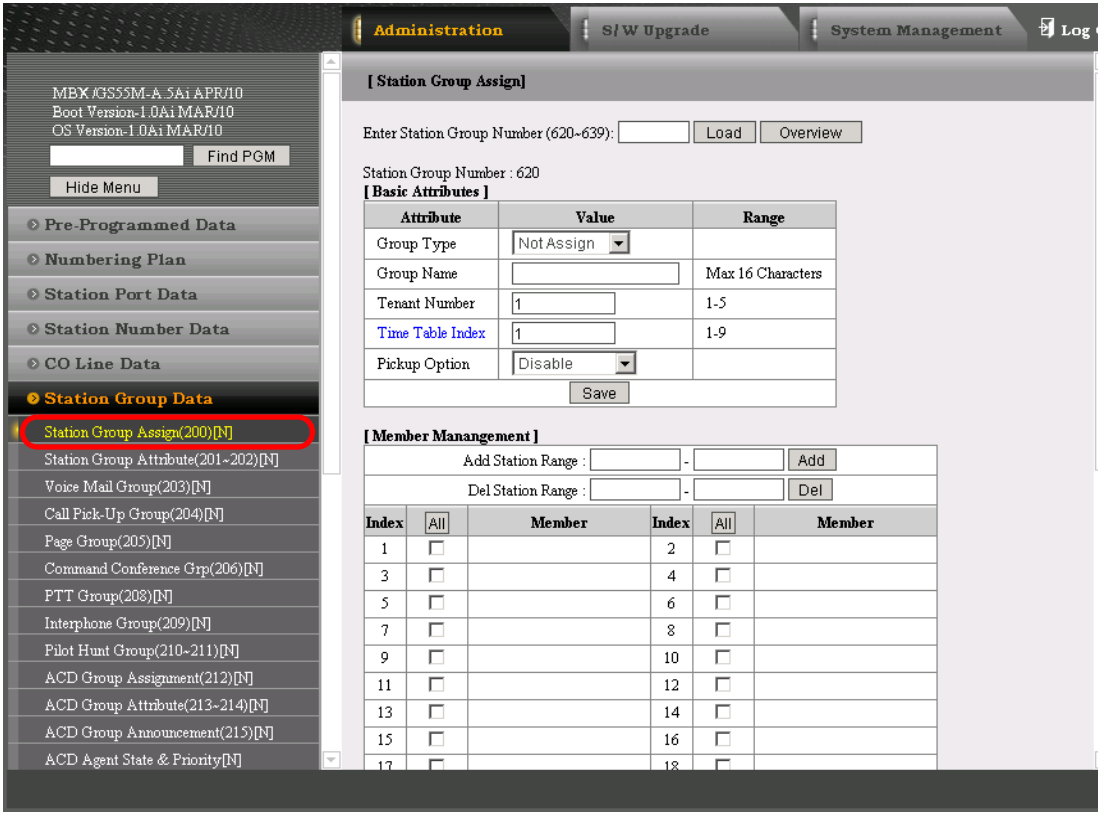
The Station Group capacities for the MBX IP system are shown in the following table.

Station Group Capacity

ITEM	CAPACITY	
	MBX IP 100	MBX IP 300
Number of Groups	20	50
Member in a Group	50	50

Station Group Assignment (PGM 200)

Selecting Station Group Assignment will display the page shown below. Enter the desired Station Group Number and click Load to display the 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.

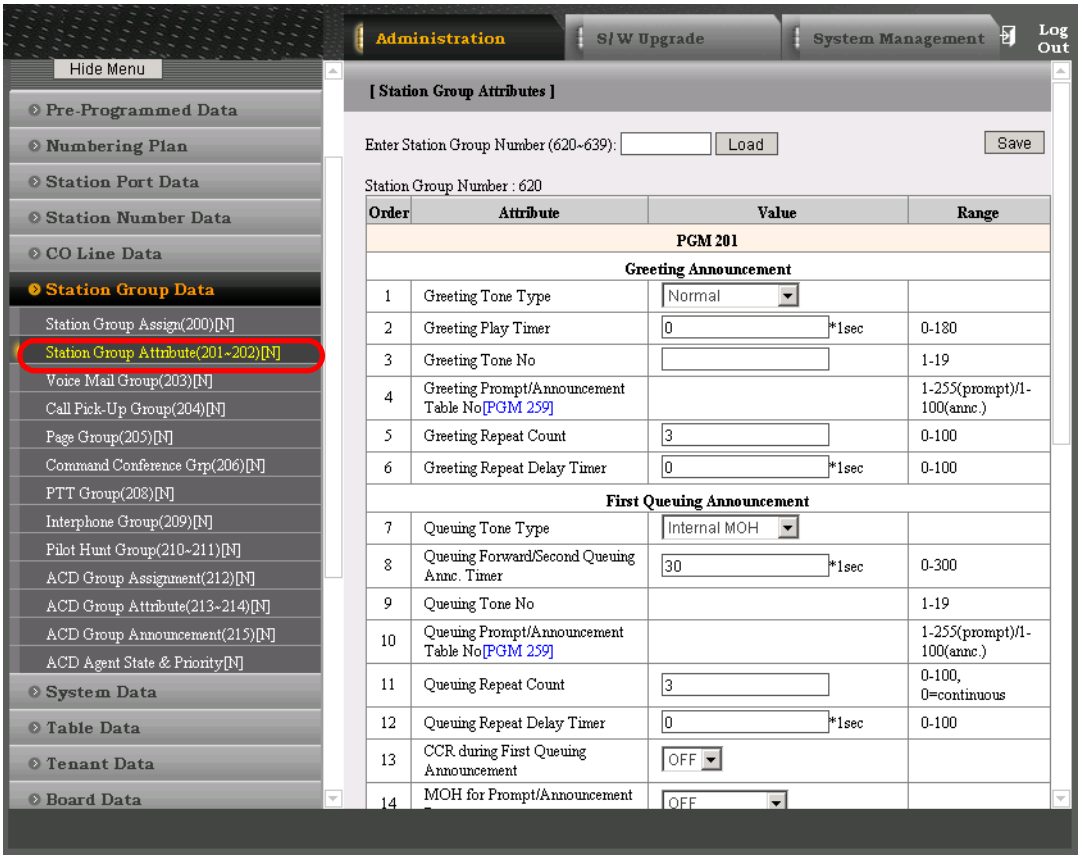
NOTE: A station can belong to multiple groups.

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	0
Group Name	Determines the name of group	Max 16 characters	-
Tenant Number	Assigns a tenant of station group	1-9 (MBX IP-300) 1-5 (MBX IP-100)	1
Time Table Index	Time table index	1-9	1
Pick Up Option	Stations can pick-up group calls ringing at other stations in the group.	0 : Disable 1 : All Call 2 : Intercom 3 : External	Disable
Member	Assigns stations as members of a station group.		-

Station Group Attributes (PGM 201-202)

Selecting Station Group Attributes will display the page shown below. Enter the desired Station Group Number and click Load to display the Station Group Attributes data.



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.

STATION GROUP ATTRIBUTES

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Greeting Tone Type	Determines the type of greeting tone.	0: Normal 1: Prompt 2: Annc 3. INT MOH 4: EXT MOH 5: VMIB MOH1 6: VMIB MOH2 7: VMIB MOH3 8: VMIB MOH4 (MBX IP 300 only) 9: SLT MOH1 10: SLT MOH2 11: SLT MOH3 12: SLT MOH4 13: SLT MOH5	0
Greeting Play Timer	Determines greeting play time.	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 (PGM259)	Determines greeting prompt / annc number when greeting type is PROMPT/ANNC.	001-255	Not Asg
Greeting Repeat Count	Determines greeting repeat number	000-100	3
Greeting Repeat Delay Timer	Determines the pause timer before greeting repeat.	000-100 (seconds)	0

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Queuing Tone Type	Determines the type of queuing tone.	0: Normal 1: Prompt 2: Annc 3. INT MOH 4: EXT MOH 5: VMIB MOH1 6: VMIB MOH2 7: VMIB MOH3 8: VMIB MOH4 (MBX 300 only) 9: SLT MOH1 10: SLT MOH2 11: SLT MOH3 12: SLT MOH4 13: SLT MOH5	3
Queuing Forward/Second Queuing Annc. Timer	Determines queuing forward/second annc timer	010-300 (seconds)	30
Queuing Tone No	Determines tone number in case queuing type is normal.	01-19	NOT ASG
Queuing Prompt/ Announcement Table No (PGM259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Queuing Repeat Count	Determines queuing repeat number	000-100	3
Queuing Repeat Delay Timer	Determines the pause timer before queuing repeat.	000-100 (seconds)	0
CCR during First Queuing Announcement	This entry defines CCR option during queuing announcement is provided.	0-1	0

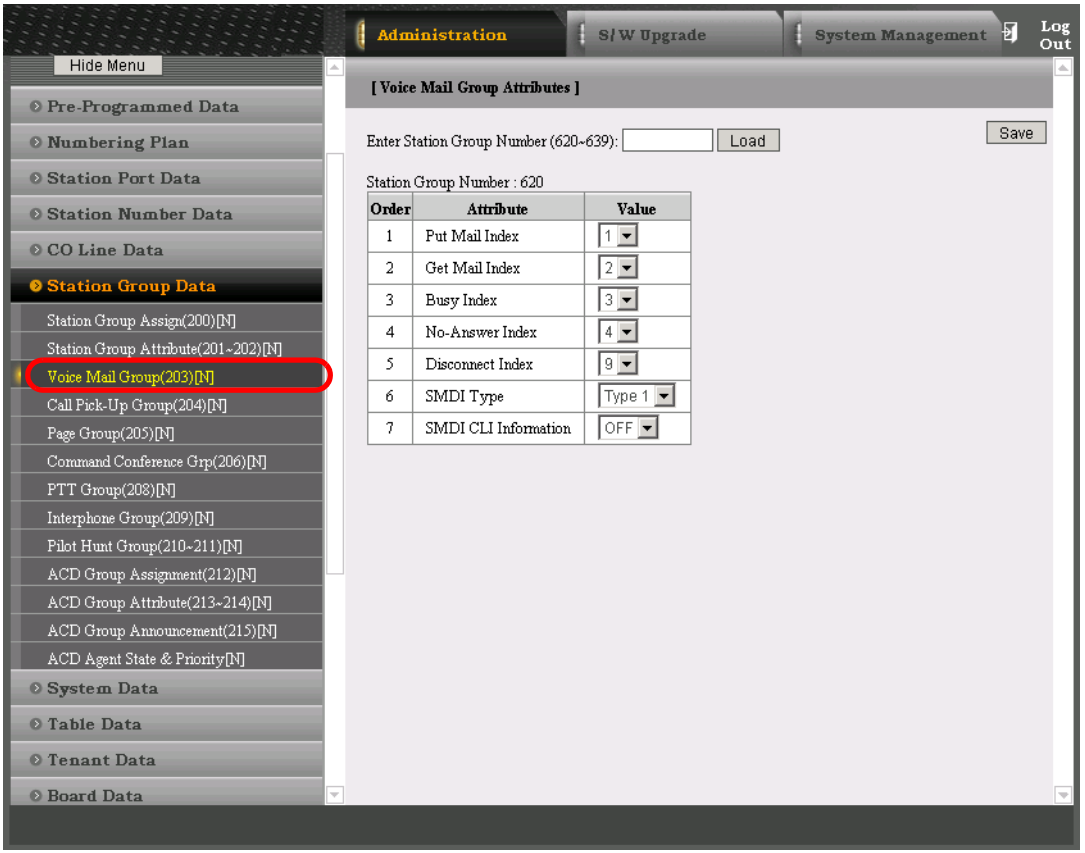
ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
MOH for Prompt/Announcement Pause	This entry defines MOH option during queuing annc. Pause time.	Off Int MOH Ext MOH VMIB MOH1 VMIB MOH2 VMIB MOH3 VMIB MOH4 (MBX 300 only) SLT MOH1 SLT MOH2 SLT MOH3 SLT MOH4 SLT MOH5	0
Second Queuing Tone Type	Determines the type of queuing tone.	0: Normal 1: Prompt 2: Annc 3. Int MOH 4: Ext MOH 5: VMIB MOH1 6: VMIB MOH2 7: VMIB MOH3 8: VMIB MOH4 (MBX 300 only) 9: SLT MOH1 10: SLT MOH2 11: SLT MOH3 12: SLT MOH4 13: SLT MOH5	3
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

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
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.	0-1	0
Second MOH for Prompt/Announcement Pause	This entry defines MOH option during queuing annc. Pause time.	OFF INT MOH EXT MOH VMIB MOH1 VMIB MOH2 VMIB MOH3 VMIB MOH4 (MBX 300 only) SLT MOH1 SLT MOH2 SLT MOH3 SLT MOH4 SLT MOH5	0
Call In Greeting	Determines if a call is routed to destination during greeting, tone is played.	0.After Greeting 1. In Greeting	0
Max Queue Count	Determines queue count.	00-99	00
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	0
Apply Time Type	Determines a time to apply forward type.	0. ALL 1. DAY 2. NIGHT 3. TIMED	0

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
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	0

Voice Mail Group Attributes (PGM 203)

Selecting Voice Mail Group Attributes will display the page shown below. Enter the Voice Mail Group number and click Load, the Web page for the selected group will be displayed.



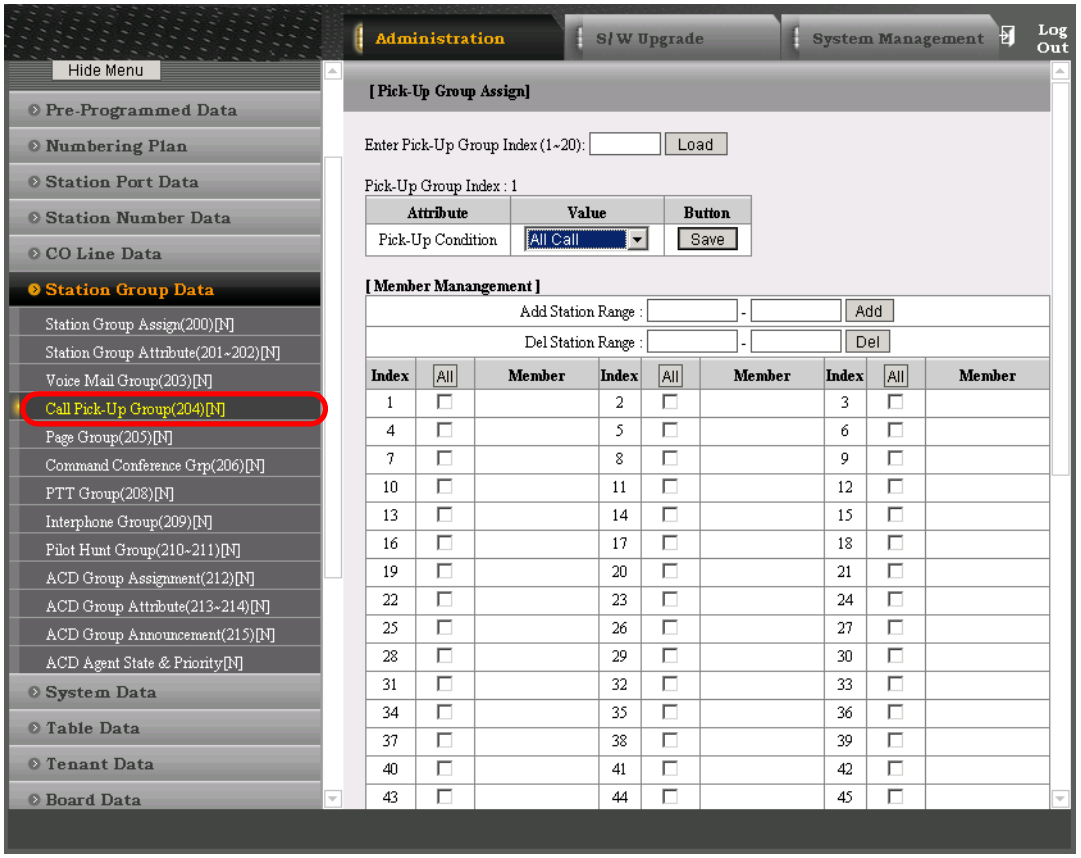
Voice Mail group has available attributes relating to the dialing service such as put mail, get mail, etc., as described in the following table.

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.	0.Type1 1.Type2	0
SMDI CLI Information	This entry defines SMDI CLI Information. If set to enable, the system will send SMDI with CLI.	ON/OFF	OFF

Pick Up Group (PGM 204)

Selecting Pick Up Group will display the page shown. Enter the desired Pick Up Group number and click Load to display the group member Assignment.



First, 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 (PGM200).

PICKUP GROUP ASSIGNMENT

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Pick-Up Condition	Determines pick up condition. (All/Internal/External)	0. ALL CALL 1. INT CALL 2. EXT CALL	0
Member	Assigns stations as members of a station pickup group.	-	-

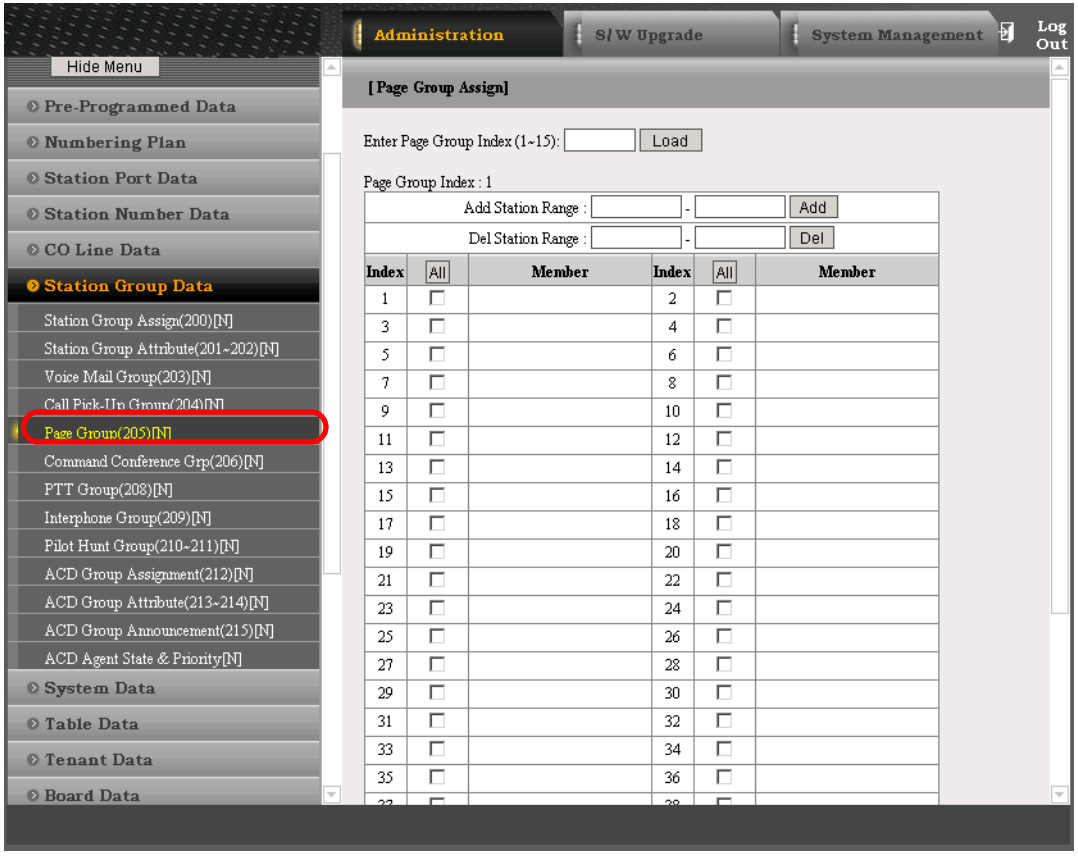
The Station Pick up Group capacities for the MBX IP system is described in the following table.

STATION PICK-UP GROUP CAPACITY

ITEM	CAPACITY	
	MBX IP 100	MBX IP 300
Number of Groups	20	50
Member in a Group	100	100

Page Group (PGM 205)

Selecting Page Group Assignment will display the page shown below. Enter the desired Page Group number and click Load to display the Group Assignment.



Members of Page Group are added or deleted like the way of Station Group Assignment(PGM200)'s [Member Management'] menu.

PAGE GROUP ATTRIBUTES

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

The Page Group capacities for the MBX IP system are shown in the following table.

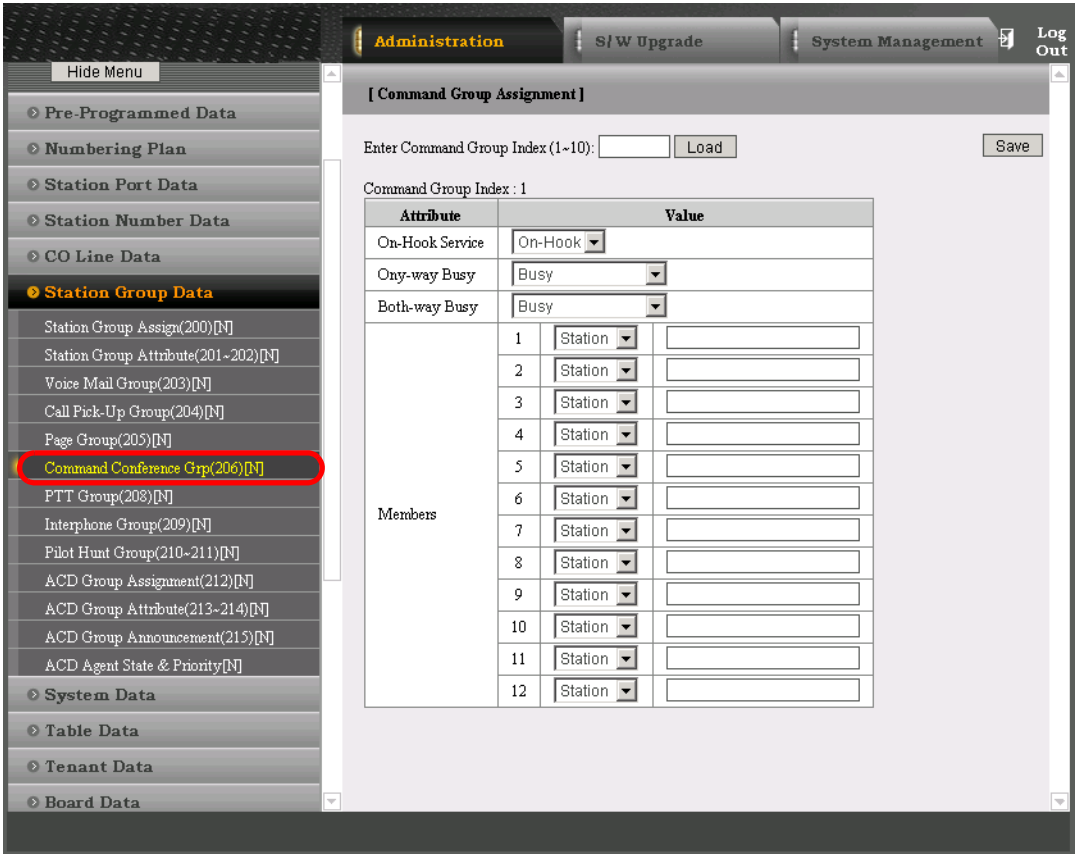
PAGE GROUP CAPACITY

ITEM	CAPACITY	
	MBX IP 100	MBX IP 300
Number of Page Groups	15	30
Member in a Group	50	50

Command Conference Group (PGM 206)

Selecting Command Conference Group will display the page shown below.

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



Stations and external contacts 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.

COMMAND CALL GROUP ASSIGNMENT

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
On-Hook Service	Determines On Hook Service. On Hook: When a user goes on hook, system allows ON HOOK service. Recall: When a user goes on hook, system provides RECALL.	0.ON HOOK 1.RECALL	0
One-Way Busy	Determines ONE WAY BUSY. BUSY Request Queuing Recover Call	0. BUSY 1.REQEST QUEUING 2.RECOVER CALL	0
Both-Way Busy	Determines BOTH WAY BUSY. BUSY Request Queuing Recover Call.	0.BUSY 1.REQEST QUEUING 2.RECOVER CALL	0
Member	Determines member of group Station: Station Number CO Grp: CO Grp Access code and Tel Number	-	-

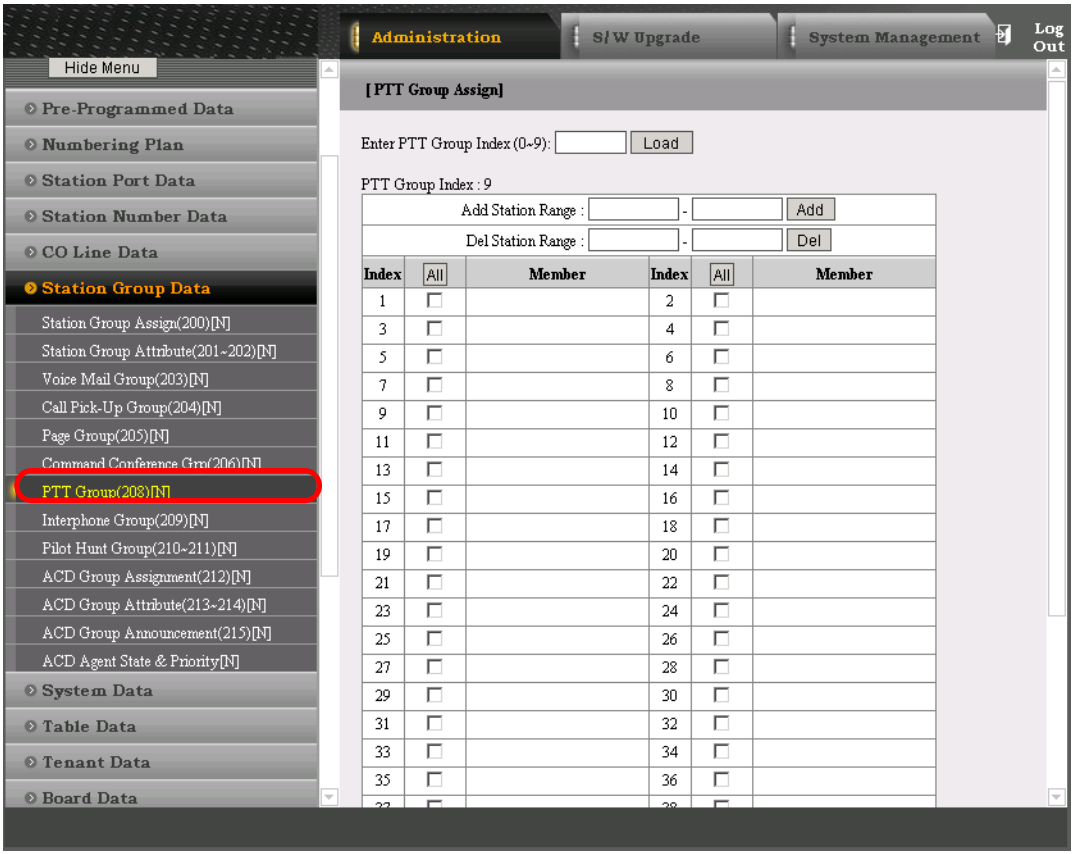
The Command Conference Group capacities for the MBX IP system are shown in the following table.

COMMAND CALL GROUP CAPACITY

ITEM	CAPACITY	
	MBX IP 100	MBX IP 300
Number of Groups	10	10
Member in a Group	12	12

PTT Group (PGM 208)

Selecting PTT Group Assignment will display the page shown below. Enter the desired PTT Group number and click Load to display the Group Assignment.



Each Phone can be assigned as a member of one or more of the system Push-To-Talk groups. Members of PTT Group are added or deleted like the way of Station Group Assignment(PGM200)'s [Member Management'] menu.

The PTT Group capacities for the MBX IP system are shown in the following table.

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

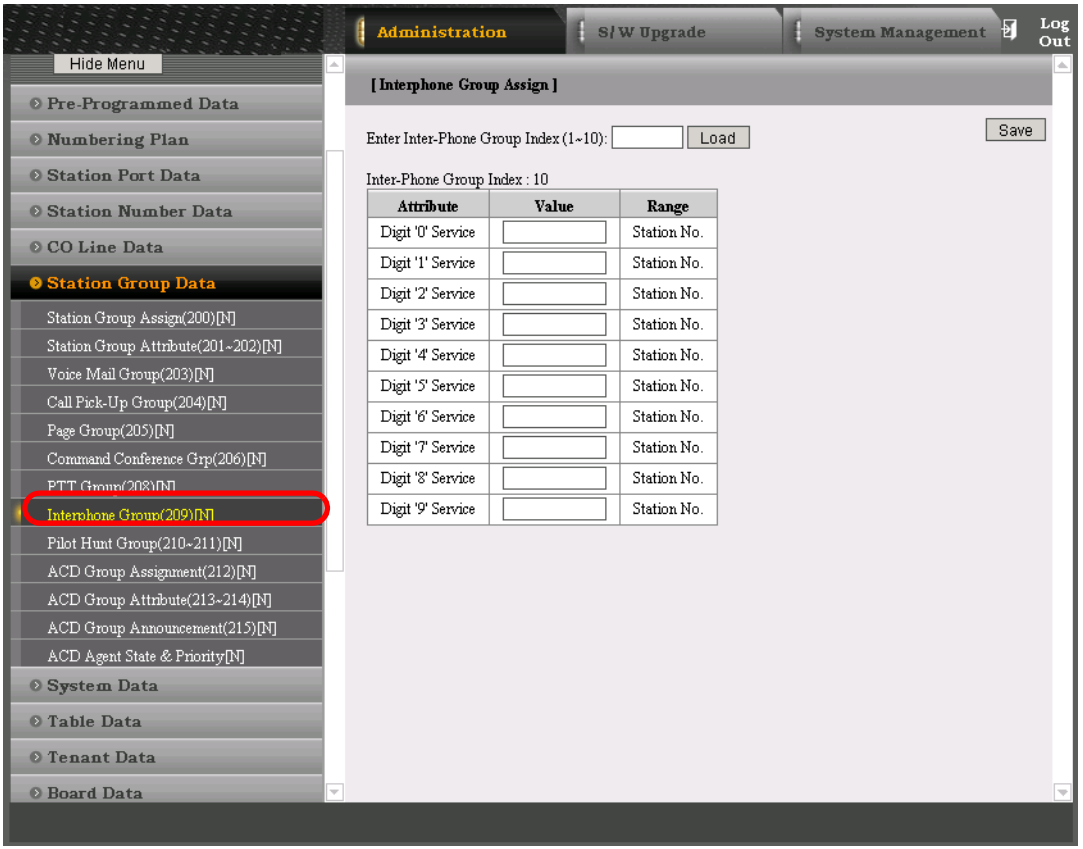
The PTT Group capacities for the MBX IP system is shown in the following table.

PTT GROUP CAPACITY

ITEM	CAPACITY	
	MBX IP 100	MBX IP 300
Number of PTT Groups	10	10
Member in a Group	50	50

Interphone Group (PGM 209)

Selecting Interphone Group Assignment will display the page shown below. Enter the desired Interphone Group number and click Load to display the Group Assignment.



Interphone Group Digit Destination

To call the stations using one or two digits, some stations can be gathered into an 'Interphone Group'.

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.		-
Digit "2" Service	Determines the digit "2" destination of Interphone group.		-
Digit "3" Service	Determines the digit "3" destination of Interphone group.		-
Digit "4" Service	Determines the digit "4" destination of Interphone group.		-
Digit "5" Service	Determines the digit "5" destination of Interphone group.		-
Digit "6" Service	Determines the digit "6" destination of Interphone group.		-
Digit "7" Service	Determines the digit "7" destination of Interphone group.		-
Digit "8" Service	Determines the digit "8" destination of Interphone group.		-
Digit "9" Service	Determines the digit "9" destination of Interphone group.		-

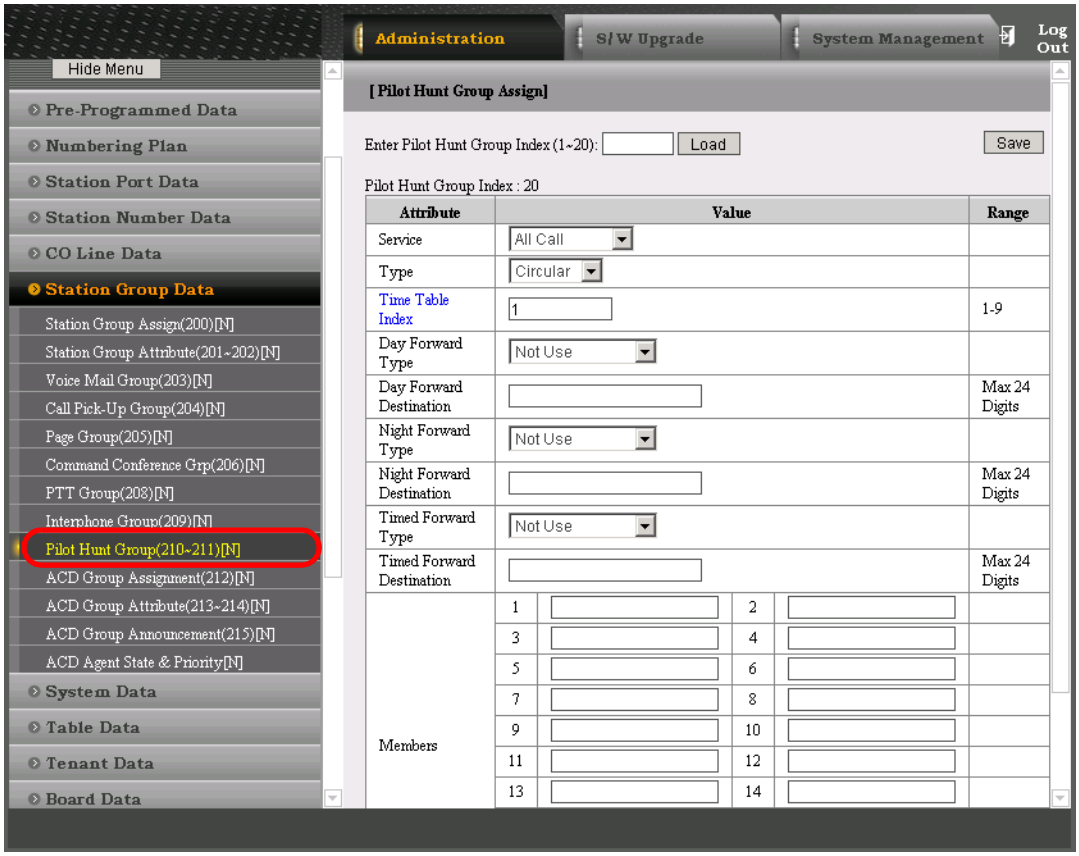
The Interphone Group capacities for the MBX IP system are shown in the following table.

INTERPHONE GROUP CAPACITY

ITEM	CAPACITY	
	MBX IP 100	MBX IP 300
Number of Groups	10	10
Member in a Group	10	10

Pilot Hunt Group (PGM 210-211)

Selecting Pilot Hunt Group Assignment will display the page shown below. Enter the desired Pilot Hunt Group number and click Load to display the Group Assignment.



Pilot Hunt Group Attributes

Pilot Hunt Group Assignments - members are assigned to the Pilot Hunt Group; each Pilot Hunt group has available attributes relating to forward.

The following table provides descriptions for the attributes and the data entries required.

PILOT HUNT GROUP ATTRIBUTES

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Service	Determines call coverage condition. (All/Intercom/External)	0. ALL 1. Intercom 2. External	0
Type	Determines Service Type (Terminal/Circular).	0. Terminal 1. Circular	1
Time Table Index	Time Table index	1-9	1
Day Forward Type	Determines call forward type of Day.	0. NOT USED 1.UNCOND 2. BUSY 3. NO ANS 4. BUSY/ NO ANS	0
Day Forward Destination	Determines the forward destination of Day.	Max. 8 digits	
Night Forward Type	Determines call forward type during Night.	0. NOT USED 1.UNCOND 2. BUSY 3. NO ANS 4. BUSY/ NO ANS	0
Night Forward Destination	Determines the forward destination during Night.	Max. 8 digits	
Timed Forward Type	Determines the timed call forward type.	0. NOT USED 1.UNCOND 2. BUSY 3. NO ANS 4. BUSY/ NO ANS	0
Timed Forward Destination	Determines the timed forward destination.	Max. 8 digits	-
Members	Assigns stations as members of a pilot hunt group.		-

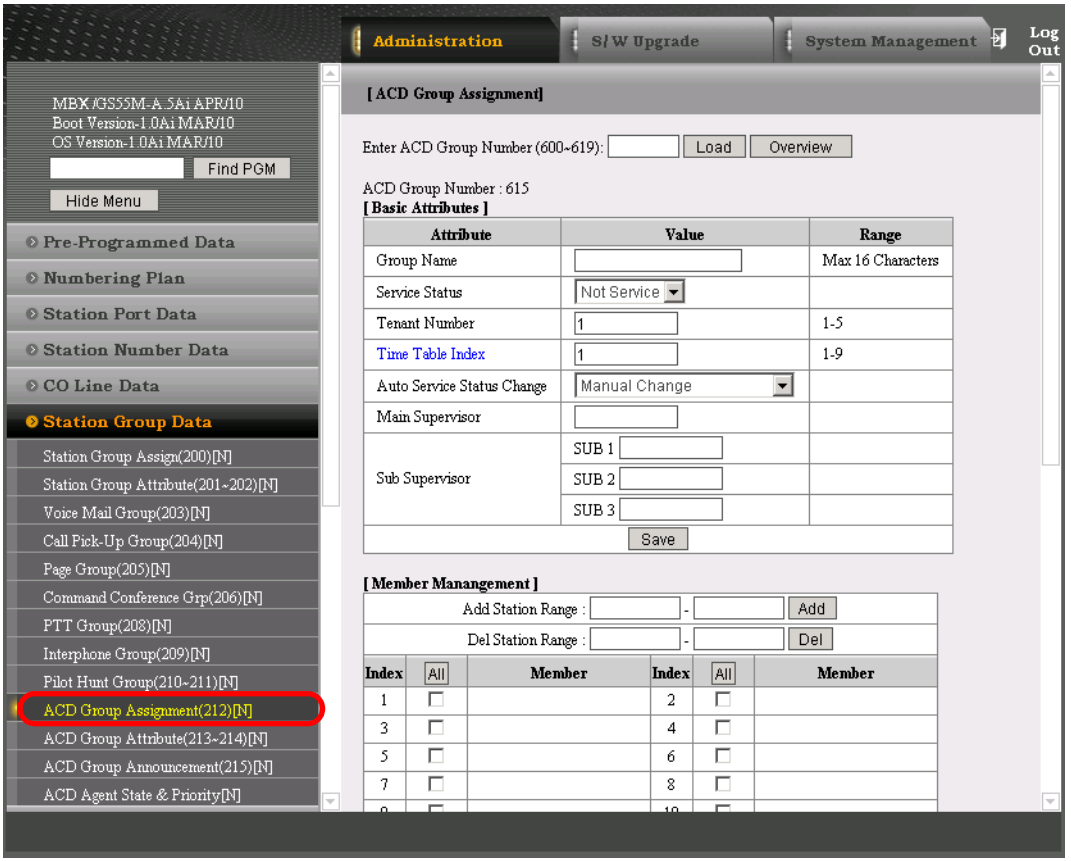
The Pilot Hunt Group capacities for the MBX IP system are shown in the following table.

PILOT HUNT GROUP CAPACITY

ITEM	CAPACITY	
	MBX IP 100	MBX IP 300
Number of Groups	20	50
Member in a Group	20	20

ACD Group Assignment (PGM 212)

Selecting ACD Group Assignment will display the page shown below. Enter the desired ACD Group Number and click Load to display the ACD Group Assignment data.



The ACD Group capacities for the MBX IP system are shown in the following table

ACD Group Capacity

ITEMS	MBX IP 100	MBX IP 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 (1-0)

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:

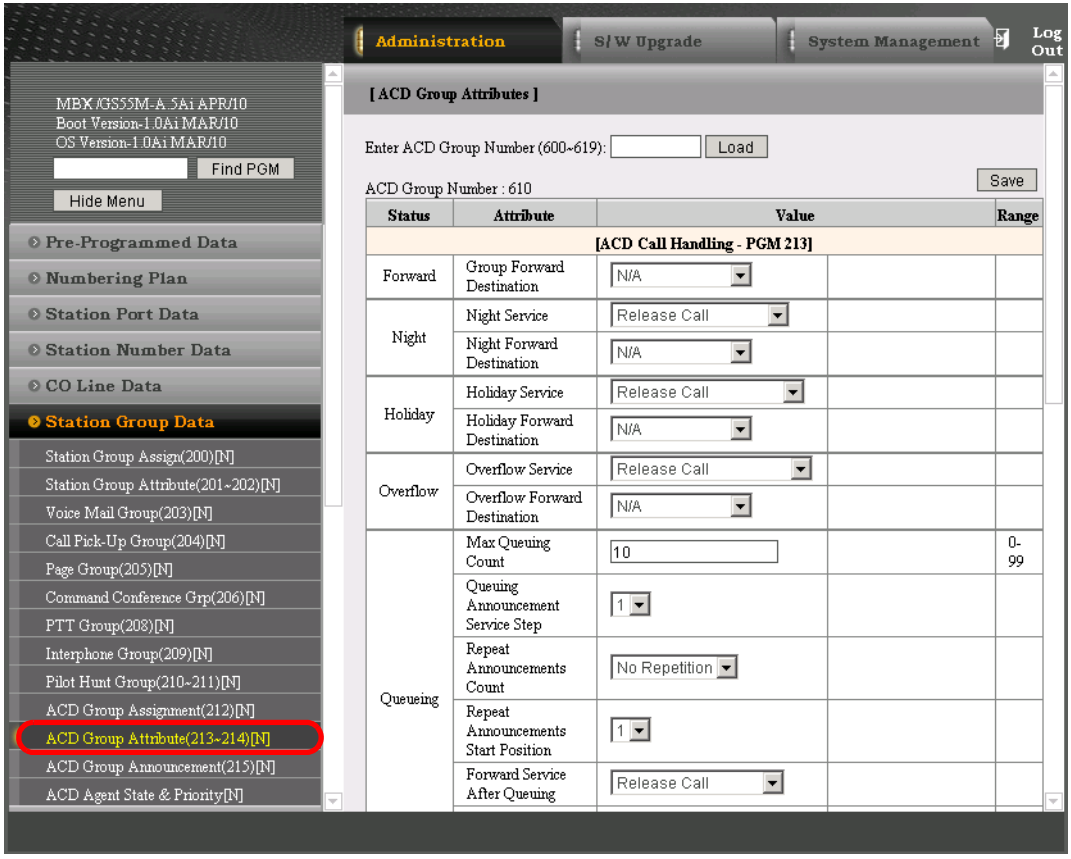
1. Input the desired Station range to delete.
2. Click 'Del' button or check the members to delete.
3. Click the 'Delete Checked Member' button.

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	0: Not-Service
Tenant Number	Assigns a tenant of station group	1-9 (MBX IP-300) 1-5 (MBX IP-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	0: 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.	-	-

ACD Group Attributes (PGM 213-214)

Selecting ACD Group Attributes will display the page shown below. Enter the desired ACD Group Number and click Load to display the ACD Group Attributes data.



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 1:Announcement 2:Forward	0
Night Service Destination	When Night Service type is Forward, applied destination can be assigned.		
Holiday Service	This entry defines how to reroute ACD call when group status is Holiday Status.	0 Release 1:Announcement 2 Forward	0
Holiday Service Destination	When Holiday Service type is Forward, applied destination can be assigned.		
Overflow Service	This entry defines how to reroute ACD call when group status is Overflow Status	0:Release 1:Announcement 2:Forward	0
Max Queuing Count	When Overflow Service type is Forward, applied destination can be assigned.		
Queuing Announcement Service Step	This entry defines MAX queuing call count. If queuing ACD Call count is over the max q-count, ACD group state will be changed to Overflow Status.	00 - 99	10
Repeat Announcement Count	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 Start Position	This entry defines total queuing announcement repeat service count. If this entry is defines as One or More Times service, Queuing Announcement will be played from 1St to defined Step. And then from Repeat Position Queuing Announcement will be restarted to defined step until Repeat Count.	0:No Repeat 1:One Time 2:Three Times 3:Five Times 4:Ten Times 5:Twenty Times	0: No Repeat
Forward After Queuing	This entry defines Repeat Announcement Start Position.	1 – 5	1

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Forward Destination After Queuing	This entry defines reroute usage after queuing time over.	1:On 0:Off	0:Off
Agent No-Answer Service	This entry defines no-answer Agent No-Answer case about ACD-call. 1 Not use 2 Forward: call will be forwarded to defined destination 3 DND: Agent state will be changed automatically to DND state. 4 DND & Forward: Agent state will be change to DND state, and ACD call will be forwarded to defined destination	0: Not use 1: Forward 2: DND state 3: DND & Forward	0: Not use
No-Answer Forward Destination	When Agent No-Answer option is Forward, applied destination can be assigned		

ACD Group Attributes (PGM 214)

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Password Check When Service Mode Changed	This entry defines check the supervisor password when supervisor change group status	1:On 0:Off	0:Off
Agent-Agent Call Restriction	This entry defines agent to agent call restriction	0:Allow 1:Direct call 2:Forward call	0: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	0:Call

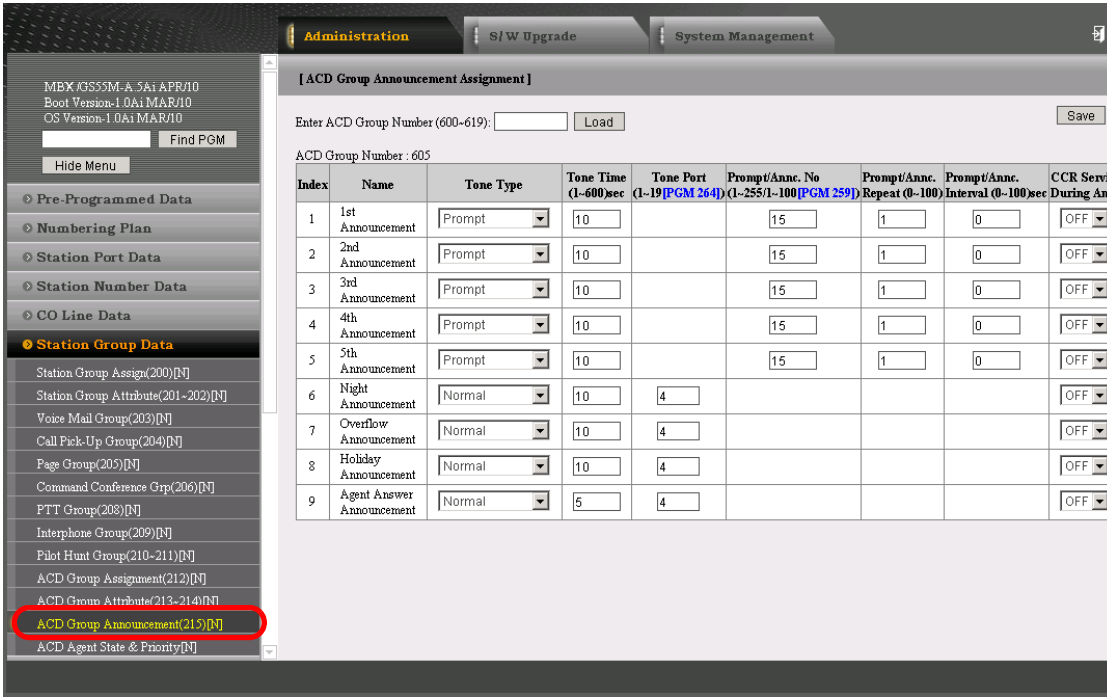
ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Announcement Usage when Incoming CO Call	This entry defines usage of Announcement when agent answer incoming ACD Call	1:On 0:Off	0:Off
Queuing Count Display	This entry defines display of Queuing count of ACD call.	1:On 0:Off	0:Off
Queue Count Display Interval	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	0: Real Time
Password Check when Agent Log-In	This entry defines check the password when agent log-in	1:On 0:Off	0:Off
Agent State when Agent Log-In	This entry defines usage of default Agent State option when agent log-in	0:Ready state 1:DND state 2:Work state	0: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	0: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	0: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:Eac-Mic Mode 3:Bluetooth mode	1:Handset Mode
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:Eac-Mic Mode 3:Bluetooth mode 4:Logon Mode	1: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	0:Not use
Answer Time when Incoming CO Call	This entry defines when the Ack message is sent to caller party.	0:Queued to group 1:Agent Answer	0:Queued to group

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Information Data Print Usage	This entry defines usage of ACD Call Traffic Information data Print or Not. Information Traffic data will be printed at Information-Print Port.	1:On 0:Off	0: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	0:Off

ACD Group Announcement (PGM 215)

Selecting ACD Group Attributes will display the page shown below. Enter the desired ACD Group Number and click Load to display the ACD Group Announcement data.

There 9 types Announcements is defined (5 Queuing Announcements, Night, Holiday, Overflow Announcement, and Agent Answering Announcement).



ACD Group Announcement

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 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 is defined during announcement will be played, usage of CCR feature.	1:On 0:Off	0:Off

System Data

Selecting the System Data program group returns the sub-menus displayed.

- System Timer (22-222)
- System Attribute (223)
- System Password (226)
- Alarm Attribute (227)
- External Control Contact (228)
- Music Source (229)
- RS-232 Setting (230)
- Serial Port Selection (231)
- SMDR Attribute (232)
- System Date & Time (233)
- LED Flashing Rate (234)
- PPP Attribute (235)
- Mobile Attribute (236)
- Intercom Busy Digit (237)
- Dial-Tone Digit Table (240)
- Executive/Secretary Assign (241)
- Executive Access (242)
- PPTP Attribute

System Timers I to III (PGM 220-222)

Selecting System Timer will display the page shown below.

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.

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

SYSTEM TIMERS

DISPLAY	DESCRIPTION	RANGE	DEFAULT
CO-to-CO Transfer Timer	Determines the answer waiting time when the CO line is transferred to another CO line. If not answered in this time, the transferred CO call is disconnected.	000-300 (seconds)	030
HOT-DESK Logout Timer	Determines the amount of time the attendant receives recall before the system disconnects the call.	00-24 (hours)	00
ACNR Pause Timer	Establishes the time between ACNR attempts.	005-300 (seconds)	030
Pause Timeout Timer	Determines the maximum duration of a page after which the caller and Page Zone are released.	000-300 (seconds)	15
Pause Timer	A Timed pause of this duration is used in Speed Dial and during other automatically dialed digits sent to the PSTN.	1-9 (seconds)	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 the User Greeting in the system’s VMIB.	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.	01-30 (seconds)	03
Web Password Guard Timer	If no data packets are received during a Web Admin connection for the Guard time, a password check will be initiated by the system.	001-999 (minutes)	5
SLT Hook Switch Bounce Timer	Determines the duration the system considers an actual state change in the hook-switch and not a spurious contact bounce.	01-25 (100 msec.)	01
SLT Maximum Hook Flash Timer	Sets the maximum time an SLT user can depress the hook-switch for a Flash signal.	01-25 (100 msec.)	05

DISPLAY	DESCRIPTION	RANGE	DEFAULT
SLT Minimum Hook Flash Timer	Sets the minimum time an SLT user must depress the hook-switch for a Flash signal.	000-250 (10 msec.)	020
LCO Ring On Timer	Sets the "ON" time of the incoming ring cycle for the Ring Detect of the system to recognize an incoming call.	1-9 (100 msec.)	2
LCO Ring Off Timer	Sets the maximum "OFF" duration of the incoming ring cycle to determine when a call has been abandoned.	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	Determines the frequency (interval) a user will receive message waiting tones.	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	001-600 (seconds)	30
DID/DISA No answer timer	No answer timer for DID/DISA ring	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

System Attributes (PGM 223)

Selecting System Attributes will display the System Attributes data entry page shown below.

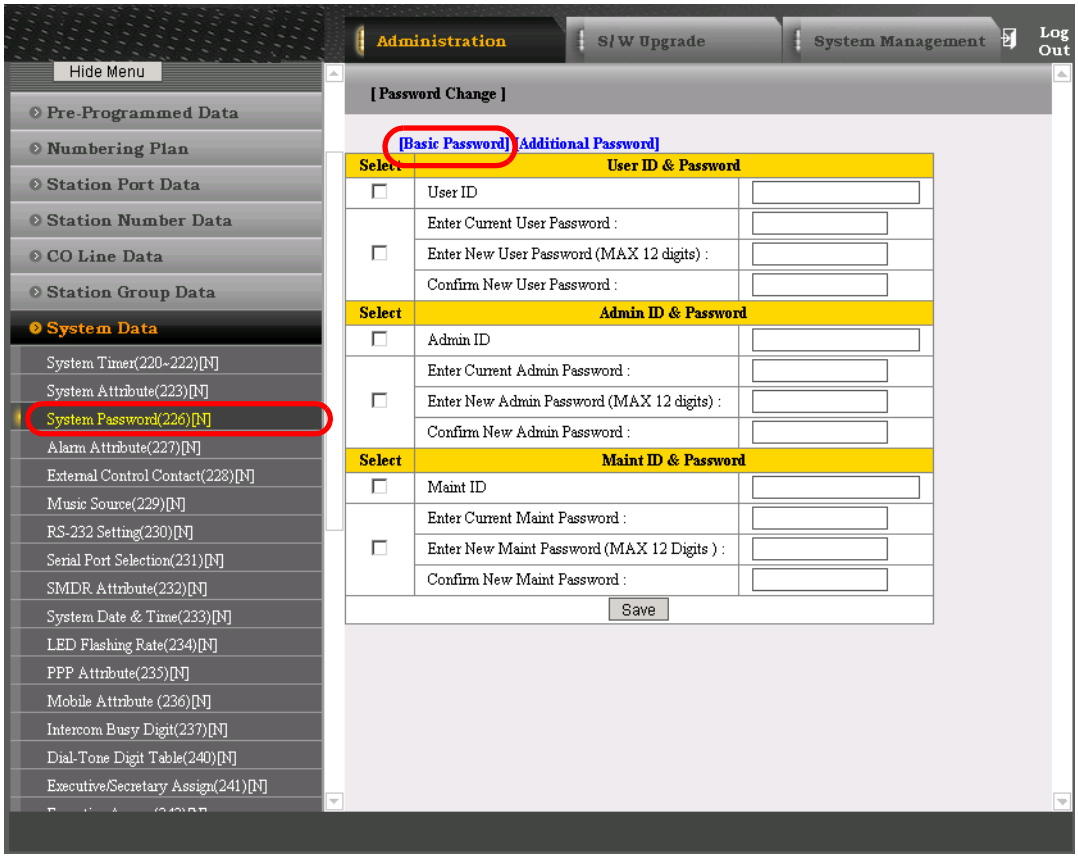
System Attribute programs help define settings that affect system-wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to the following table for a description of the Attributes and the data entries required.

System Attributes

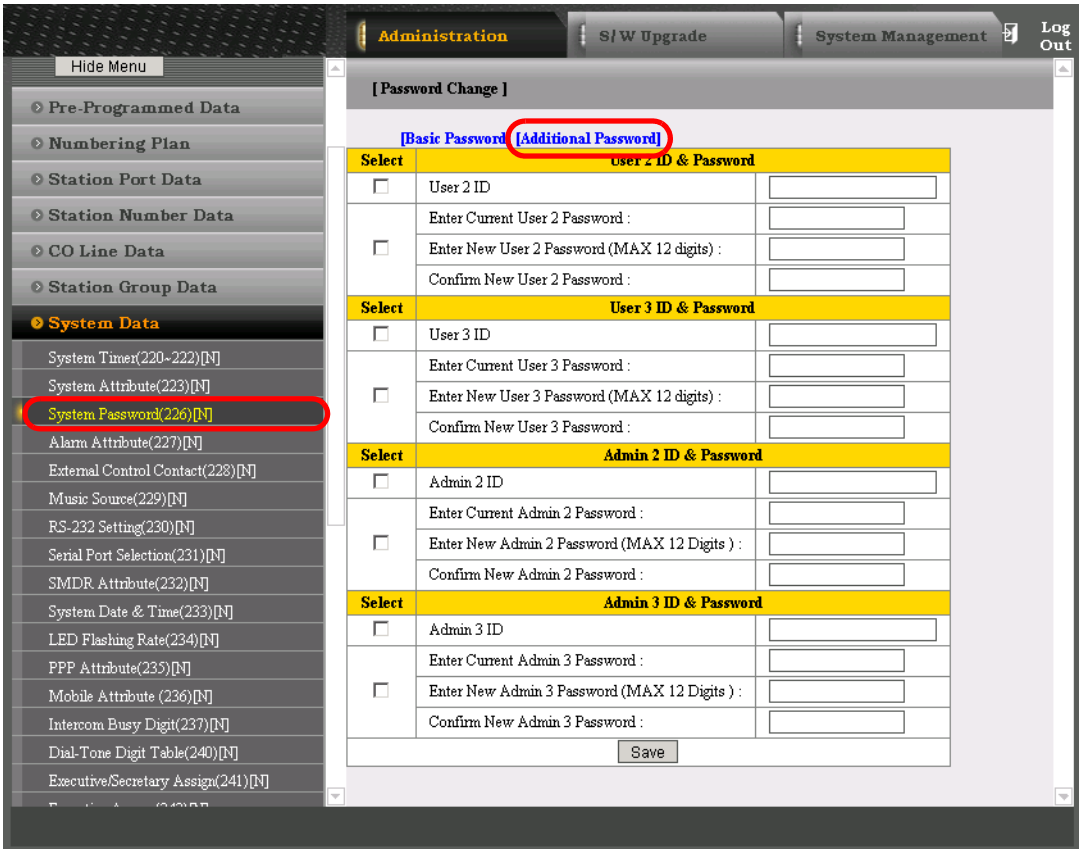
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Web Admin Password Encryption	The Web Admin password can be encrypted for security using RC-6 block encryption A Java VM must be installed on the user's PC.	0: Off 1: On	Off
Pulse Dial Break/Make Ratio	The break/make ratio for pulse dialing through analog CO line.	0: 60/40 1: 66/33 2: 50/50	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	0000-9999	0025
Network Time/Date	If it is set to ON, the system will update the Date &Time with Network Date & Time when system Date Time the two are different.	0: Off 1: On	Off
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
Database Auto USB download	The weekday for system database download to USB automatically.	Off 1-7	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	IP Phone Registration by Station Number.	0: Off 1: On	On

System Password (PGM 226)

Selecting System Password will display the page shown below.



Basic Password



Additional Password

Access to the system database and maintenance functions can be protected by ID(up to 16 digits) & passwords (up to 12 digits). Three ID & passwords can be defined: User, Admin and Maintenance.

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.

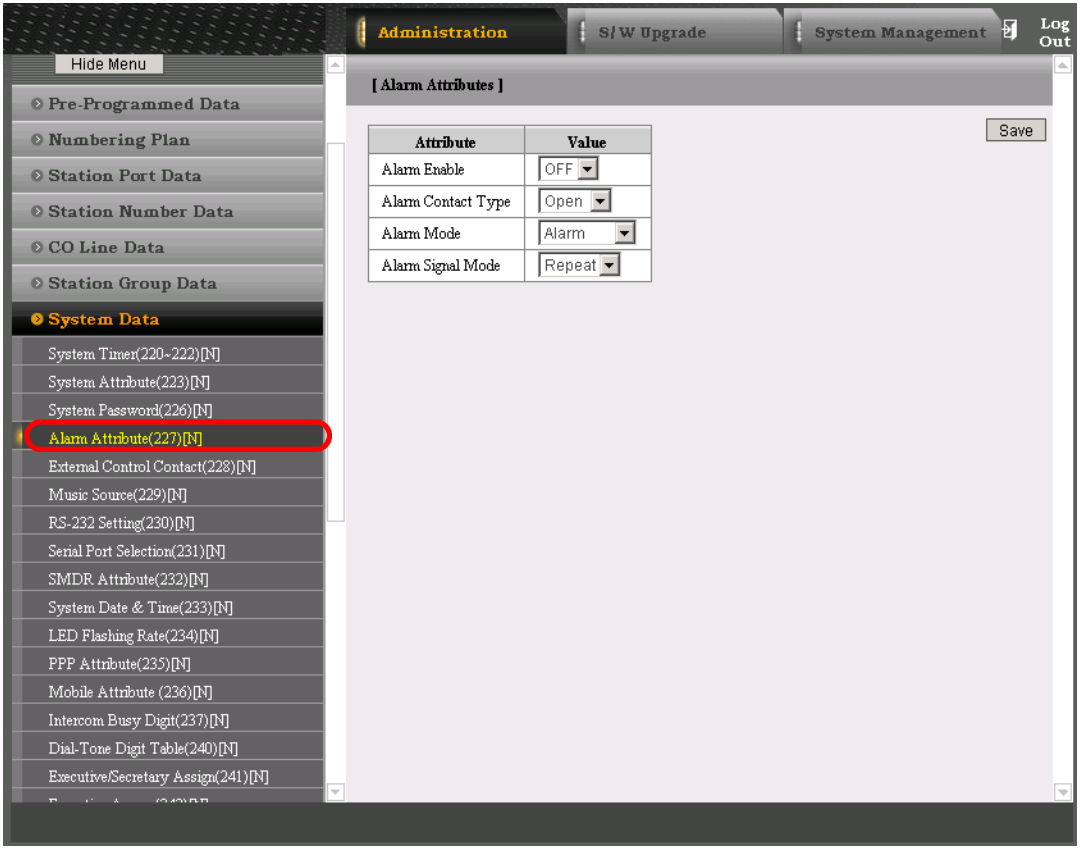
NOTE: there are no default passwords.

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 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

Alarm Attributes (PGM 227)

Selecting Alarm Attributes will display the page shown below..



The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell.

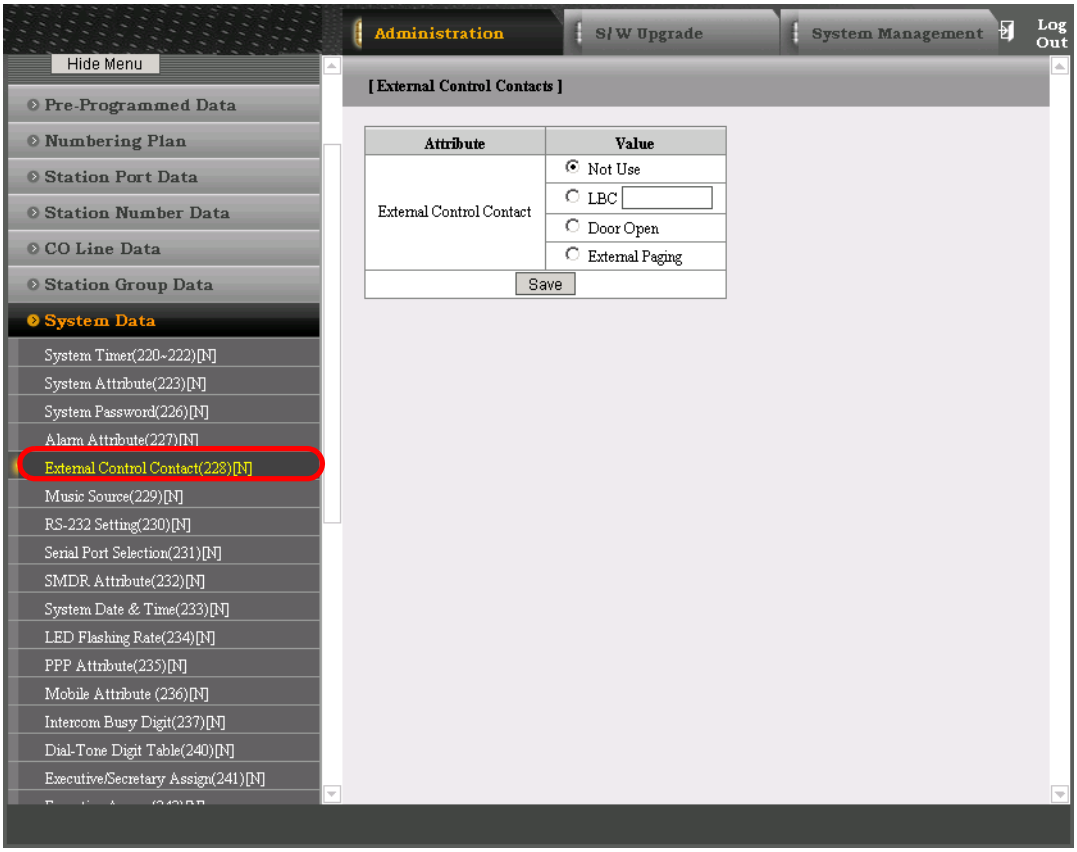
The Alarm attributes define the operation of the external contact. The Alarm Signal sent to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates. The following table shows a description of the features and the data entries required.

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: 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

External Control Contacts (PGM 228)

Selecting External Control Contacts will display the page shown below.

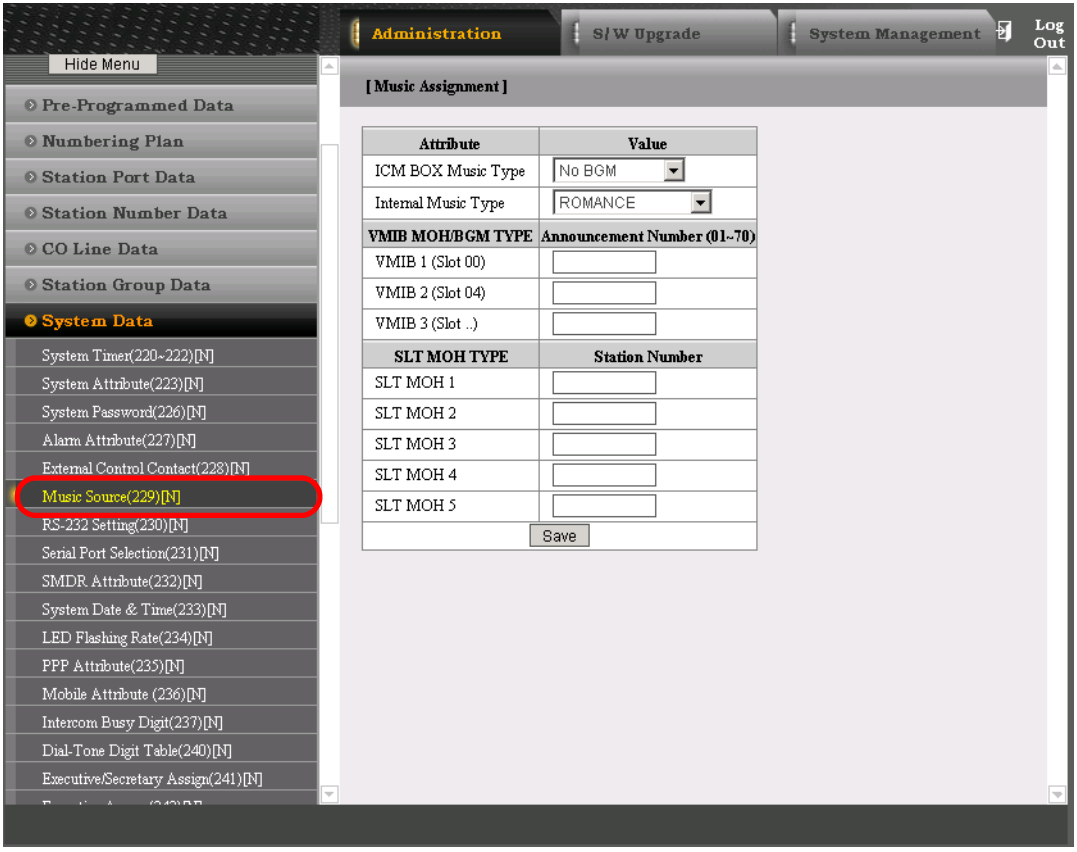


The MPB includes 1 contact, which can be used to control external devices. Contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station receives an external call.

NOTE: for LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UNA 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.

Music Source (PGM 229)

Selecting Music Source will display the page shown below.



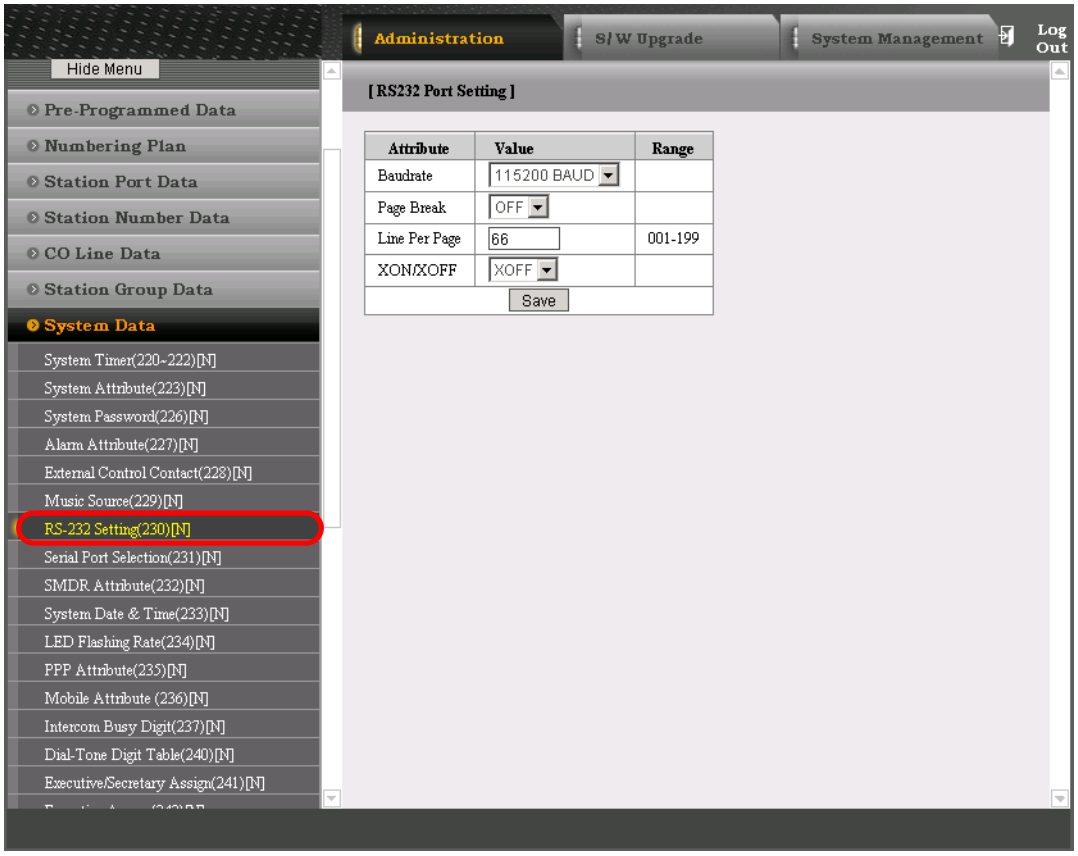
Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. The MBX IP MPB provides one (1) music input. Additionally, a VMIB announcement may be recorded and played as MOH, and the SLT port on SLIB is used as MOH.

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	1
Internal Music Type	Assigns the music for internal MOH	00: Romance 01: Turkish March 02: Green Sleeves 03: Fur Elise 04: Carmem 05: Waltz 06: Pavane 07: Sichiliano 08: Sonata 09: Spring 10: Campanella 11:Badinerie 12:Blue Dance	-
VMIB MOH/BGM Type	Assigns the VMIB Prompt index of VMIB Slot YY for VMIB MOH X	01-70	-
SL:T MOH Type	Assigns the SLT port for SLT MOH.		-

RS-232 Port Settings (PGM 230)

Selecting RS-232 Port Settings will display the page shown below.



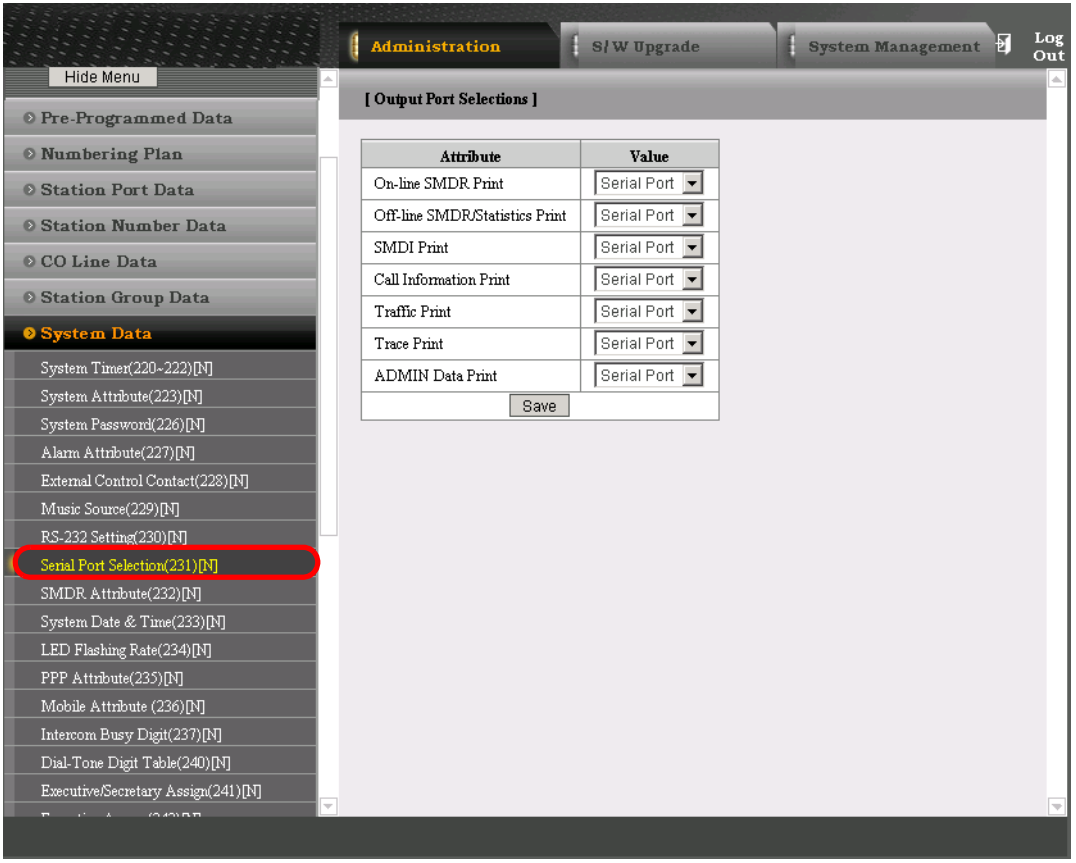
The system has one RS-232 serial port located on the MPB. Certain port characteristics are programmable, such as the baud rate, RS-232 control, and page settings. Refer to the following table for a description of the settings and the data entries required.

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

DISPLAY	DESCRIPTION	RANGE	DEFAULT
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	Sets the number of lines the system will send before sending the page break.	001-199	66
XON/XOFF	Enables XON/XOFF protocol.	0: Xoff 1: Xon	Xoff

Serial Port Function Selections (PGM 231)

Selecting Serial Port Function Selection will display the page shown below.



The system has one RS 232 serial port located on the MPB. In addition, the system can employ IP over five (5) TCP channels for the output of various system information.

Each output function is assigned a Serial port or TCP channel that is used to output the information. Additionally, a TCP port must be assigned when a function is designated for using a TCP channel

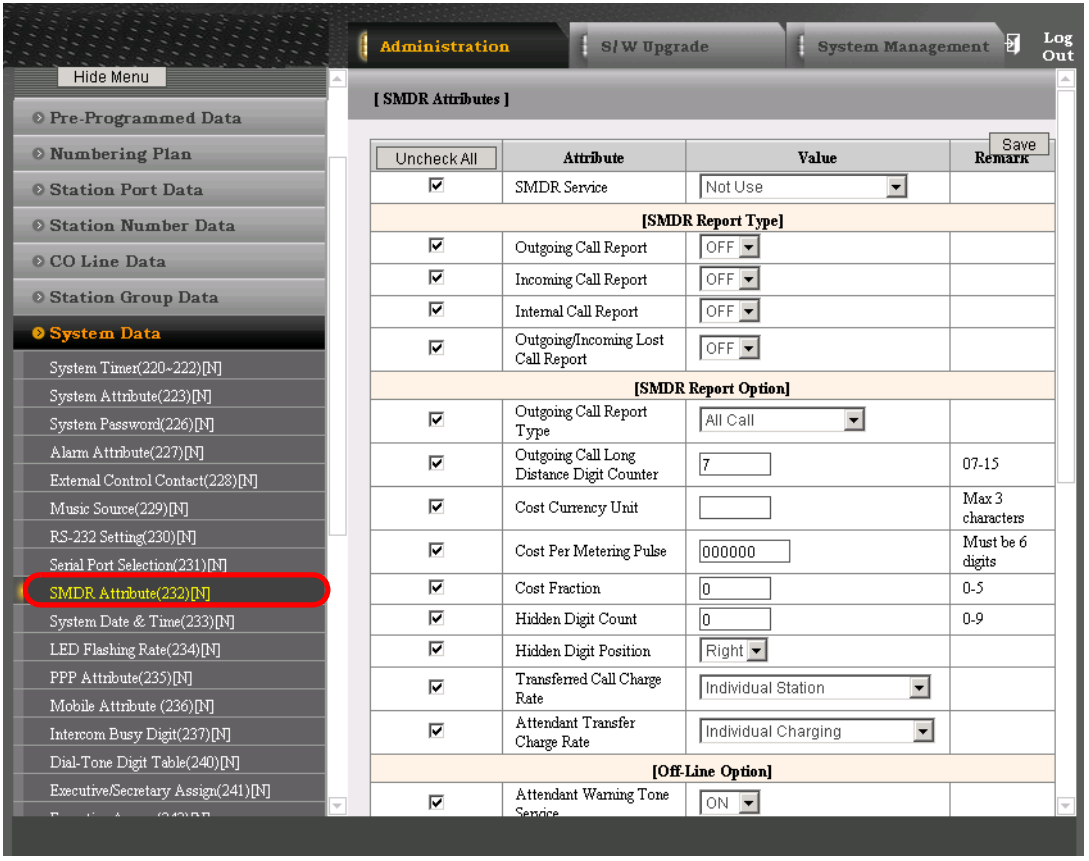
NOTE: each function can be defined to use only one output. Refer to the following table for a description of the selections and the data entries required.

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.	0-5	COM
Off-line SMDR/Statistics Print	Defines the serial port or TCP channel used for Off-line SMDR.		COM
SMDI Print	Defines the serial port or TCP channel used for the SMDI output.		COM 1
Call Information Print	Defines the serial port or TCP channel used to receive Call Information output.		COM
Traffic Print	Defines the serial port or TCP channel used for the TRAFFIC report output.		COM
Trace Print	Defines the serial port or TCP channel used for the Trace output.		COM
ADMIN Data Print	Defines the serial port or TCP channel used for the ADMIN Report output.		COM

SMDR Attributes (PGM 232)

Selecting SMDR Attributes will display the page shown below..



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 and the data entries required.

SMDR Attributes

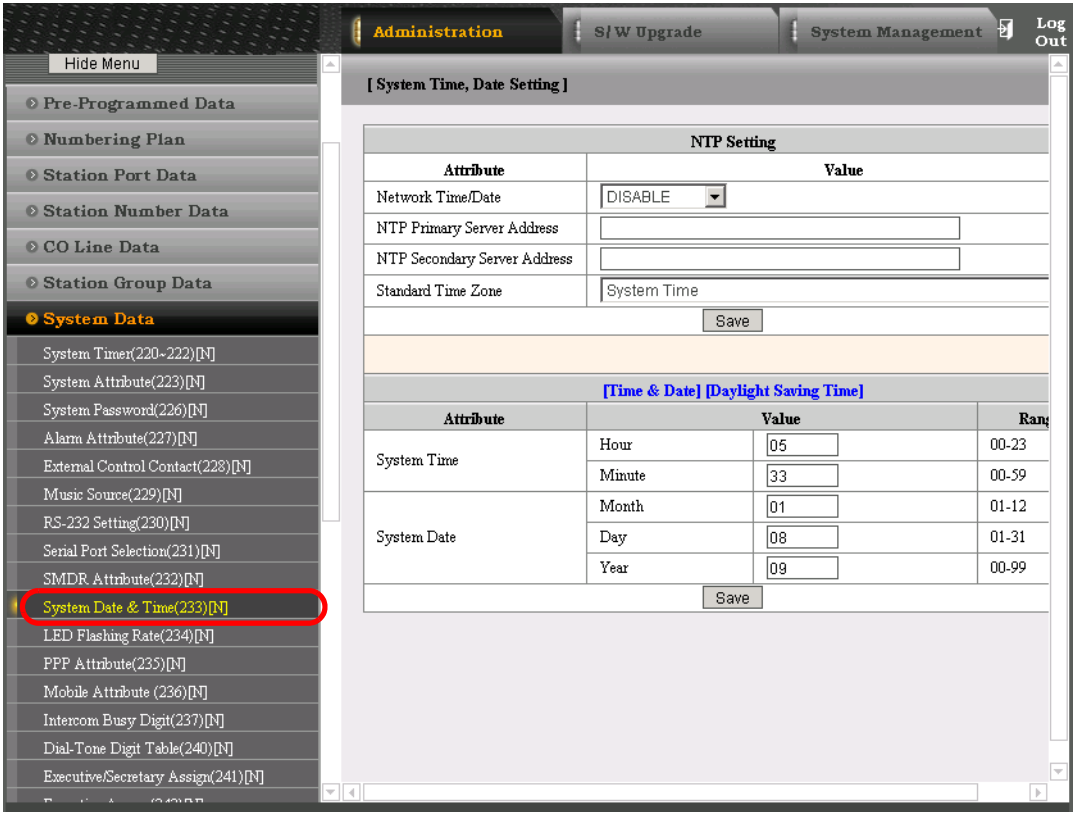
DISPLAY	DESCRIPTION	RANGE	DEFAULT
Save Enable	Stores all outgoing calls.	0: OFF 1: ON	OFF
Print Enable	Outputs SMDR records automatically as they occur (real-time) or only when requested. When this attribute is ON, SMDR output is automatic at call completion.	0: OFF 1: ON	OFF
Record Type	Records all outgoing calls or only LD calls. Long distance calls can be identified by the LD digit count.	1: LD 0: ALL CALL	ALL CALL
Long Distance Call Digit Counter	Dialed numbers, which exceed the assigned LD digit count, are considered long distance calls for SMDR.	07-15	07
Print Incoming Call	Outputs records for incoming calls as well as outgoing calls. If enabled, incoming calls are recorded as well as outgoing calls.	0: OFF 1: ON	OFF
Print Lost Call	Provides lost call records, records for unanswered incoming (abandoned) calls.	0: OFF 1: ON	OFF
SMDR Currency Unit	The unit of currency used for call cost can be identified with 3 alpha characters for easy reference.	Max 3 characters	-
SMDR Cost Per Metering Pulse	When metering is provided by the PSTN, the cost per metering pulse can be assigned.	6 digits	000000
SMDR Fraction	Determines the position of the decimal in the Cost per Pulse (button 10), starting from the right-most digit.	0-5	0
SMDR Transfer Charge Mode	Determines where call is charged in the event of a transferred call. 1. INDIVIDUAL: charged to both stations respectively. 2. INTEGRATE XFERING: charged to the transferring station. 3. INTEGRATE XFERED: charged to the transferred station.	0:INDIVIDUAL 1:INTEGRATE XFERING 2:INTEGRATE XFERED	0:INDIVIDUAL

DISPLAY	DESCRIPTION	RANGE	DEFAULT
SMDR Attendant Charge Mode	Determines where call is charged in the event of Attendant placing a call and transferring the call. 1. NORMAL CHARGING: charged according to the Transfer Charge Mode. 2. ATD CHARGING: charged to the Attendant. 3. XFERED CHARGING: charged to the transferred station.	0:NORMAL CHARGING 1:ATD CHARGING 2:XFERED CHARGING	0: NORMAL CHARGING
SMDR Dialed Digit Hidden Number	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. Button 13 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
SMDR Hidden Position	When "HIDDEN DIALED DIGIT" is enabled, this field determines if leading or trailing digits are hidden.	0: Left 1: Right	Right
SMDR ICM Save	When enabled, intercom call data is stored as part of the SMDR data.	0:OFF 1:ON	OFF
SMDR ICM Print	When enabled, intercom call data is printed as part of On-line SMDR.	0:OFF 1:ON	OFF
SMDR Interface Service	When enabled, the system stores SMDR data to send to applications including NMS upon request.	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 AUTH Index	Reserved	0:OFF 1:ON	OFF
SMDR Mail Server IP Address	SMTP Mail Server IP Address		
SMDR User Mail Address	SMDR User Mail Address	Max 64 Characters	
SMDR System Domain Name	SMDR System Domain Name	Max 64 Characters	

DISPLAY	DESCRIPTION	RANGE	DEFAULT
SMDR Mail Send Weekly Set	Selects 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

System Date, Time (PGM 233)

Selecting System Date, Time will display the page shown below.



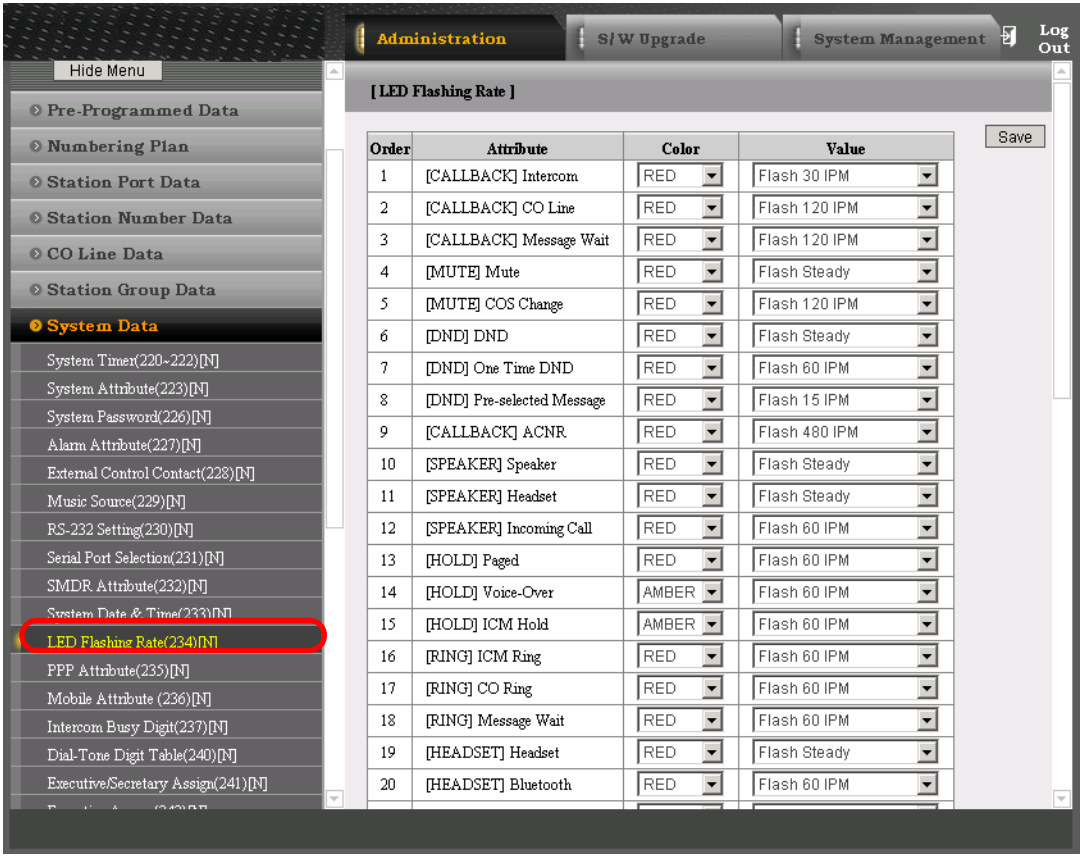
The System Date, Time is established by this entry. The date and time are employed for several features and functions: LCR, LCD displays, SMDR outputs, Auto Ring Mode Selection, Wake-Up Alarm, etc.

System Date, Time Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
System Time	Sets the system time.	HH:MM	-
Daylight Savings Time (DST)	Enables DST feature for System Time	0 : OFF 1: ON	OFF
DST Start Time	This can be set only via WEB Admin.	Refer to DST Table	2nd Sunday of March at 2:00 AM
DST End Time	This can be set only via WEB Admin.	Refer to DST Table	1st Sunday in Nov., at 2:00 AM
System Date	Sets the system date.	MMDDYY	-

Button LED Flash Rate (PGM 234)

Selecting the Button LED Flash Rate will display the page shown below.



The LED Color and Flash Rate for various functions and states can be assigned any one of the 15 available system signals. 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.

Button LED Flash Rate Table

ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT (COLOR)	DEFAULT (FLASH RATE)
[CALLBK] INTERCOM	[CALL BACK] button LED status on intercom call back.	RED	Flash 30 IPM
[CALL BK] CO LINE	[CALL BACK] button LED status on CO queuing.	RED	Flash 120 IPM
[CALL BK] MSG WAIT	[CALL BACK] button LED status when message is left.	RED	Flash 120 IPM
[MUTE] TRANSMISSION	[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 BACK] 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] PAGING	[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] RESERVED	[HOLD] Reserved	AMBER	Flash 60 IPM

ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT (COLOR)	DEFAULT (FLASH RATE)
[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 Steady
[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
[DN] CALL FORWARD	[DN] button LED status when Call forward is set.	RED	Flash120 IPM
[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 intercom call.	RED	Flash 60 IPM
[DSS] ICM TALK	[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

ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT (COLOR)	DEFAULT (FLASH RATE)
[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] CALL SETUP	[CO] button LED status during Call Setup	RED	Flash 60 IPM
[CO] CO TALK	[CO] button led status during conversation mode.	RED	Flash Steady
[DN] VM Message Wait	[DN] button led status during VM Message Wait.	AMBER	Flash 120 IPM
[DSS] VM Message Wait	[DSS] button led status during VM Message Wait.	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] Transfer	[CO] button led status during Transfer.	RED	Flash 120 IPM
[CO] Recall	[CO] button led status during Recall.	RED	Flash 120 IPM Wink
Reserved 1	Reserved 1	RED	Flash Off
Reserved 2	Reserved 2	RED	Flash Off

Color Description

COLOR	DESCRIPTION
1	RED
2	GREEN
3	AMBER

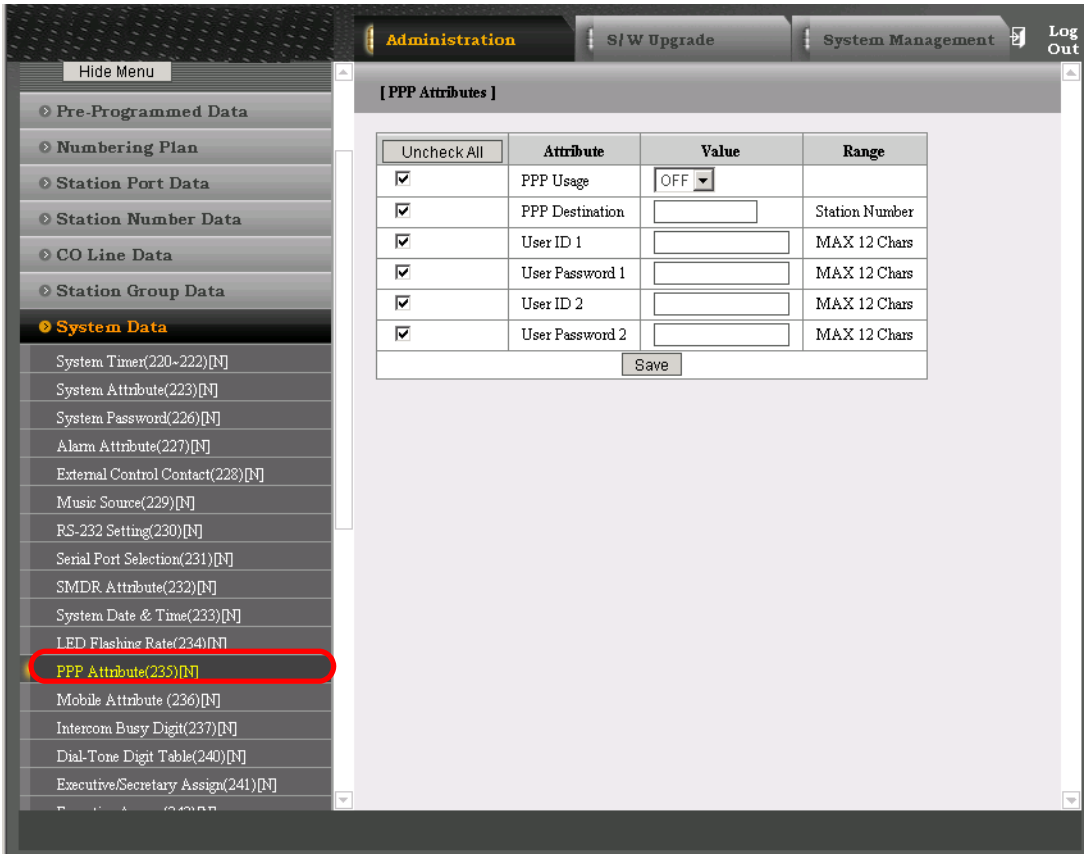
NOTE: If Green/Amber color is not supported by digital phone, Red Color is applied.

Flash Rate Description

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

PPP Attributes (PGM 235)

Selecting PPP Attributes will display the page shown below..



In addition to remote access via an IP network connection, the system database may be accessed remotely using an ISDN connection:

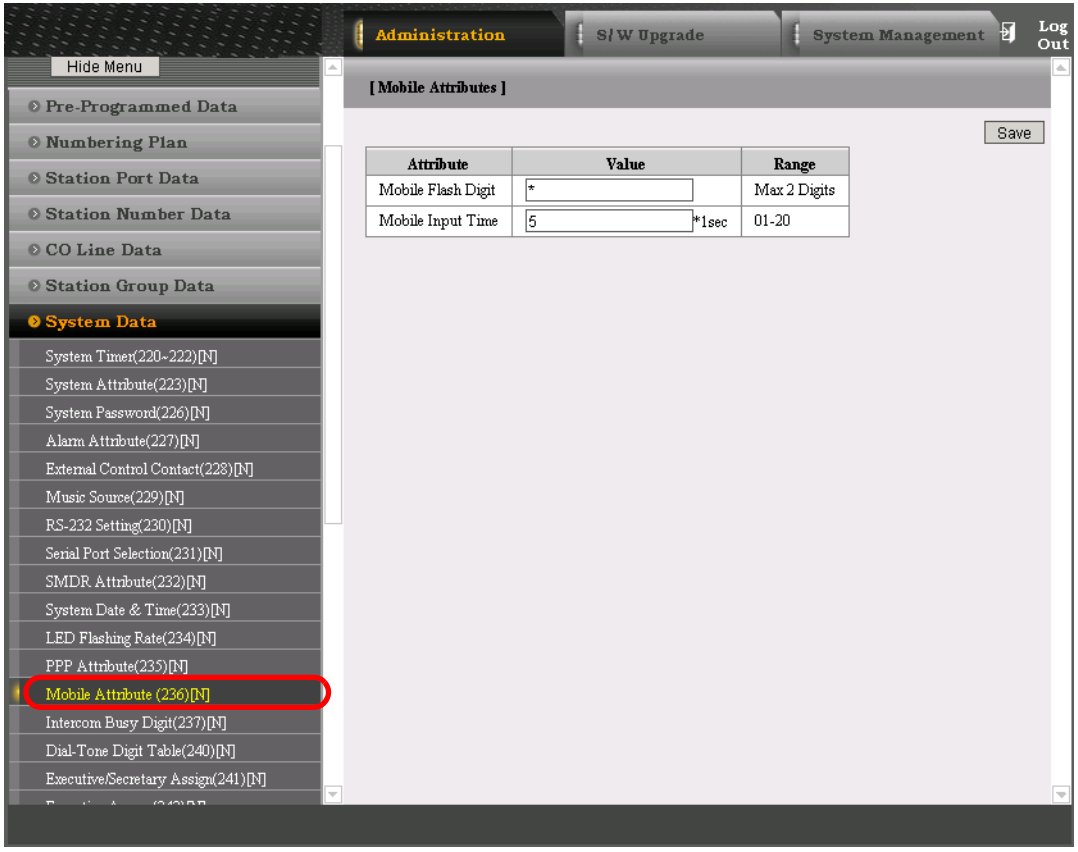
1. Place a call to the designated PPP station.
2. Enter User ID and password; the MBX IP Home page is provided and Web Admin is available,
   OR
3. If User ID or password does not match information contained in the system, an error will be returned.

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. Characters	None
User Password 1	The password entered is used to authorize PPP ID 1.	Max 12. Characters	None
User ID 2	System accepts this PPP ID 2	Max 12. Characters	None
User Password 2	The password entered is used to authorize PPP ID 2.	Max 12. Characters	None

Mobile Attributes (PGM 236)

Selecting Mobile Attributes will display the page shown below..



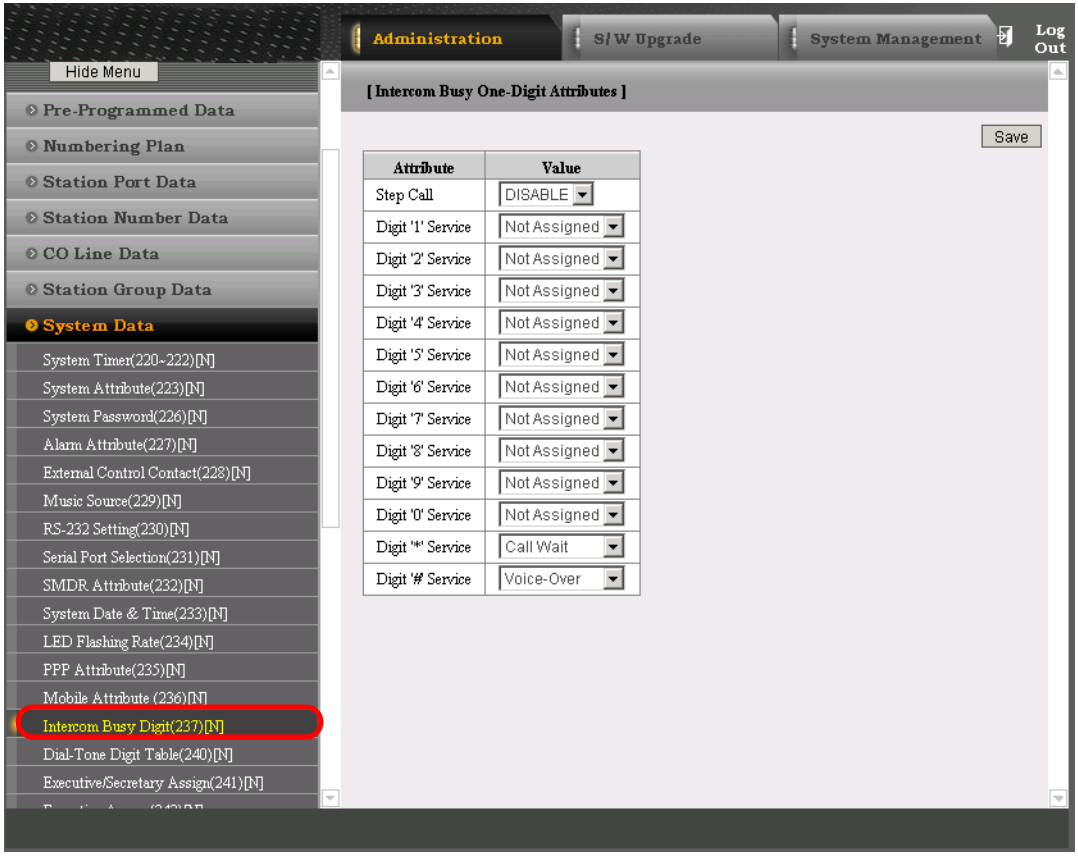
The flash digit and input timer for call transferring from a mobile extension can be assigned according to the following table.

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

Intercom Busy One-Digit Attributes (PGM 237)

Selecting Intercom Busy One-Digit Attributes will display the page shown below.



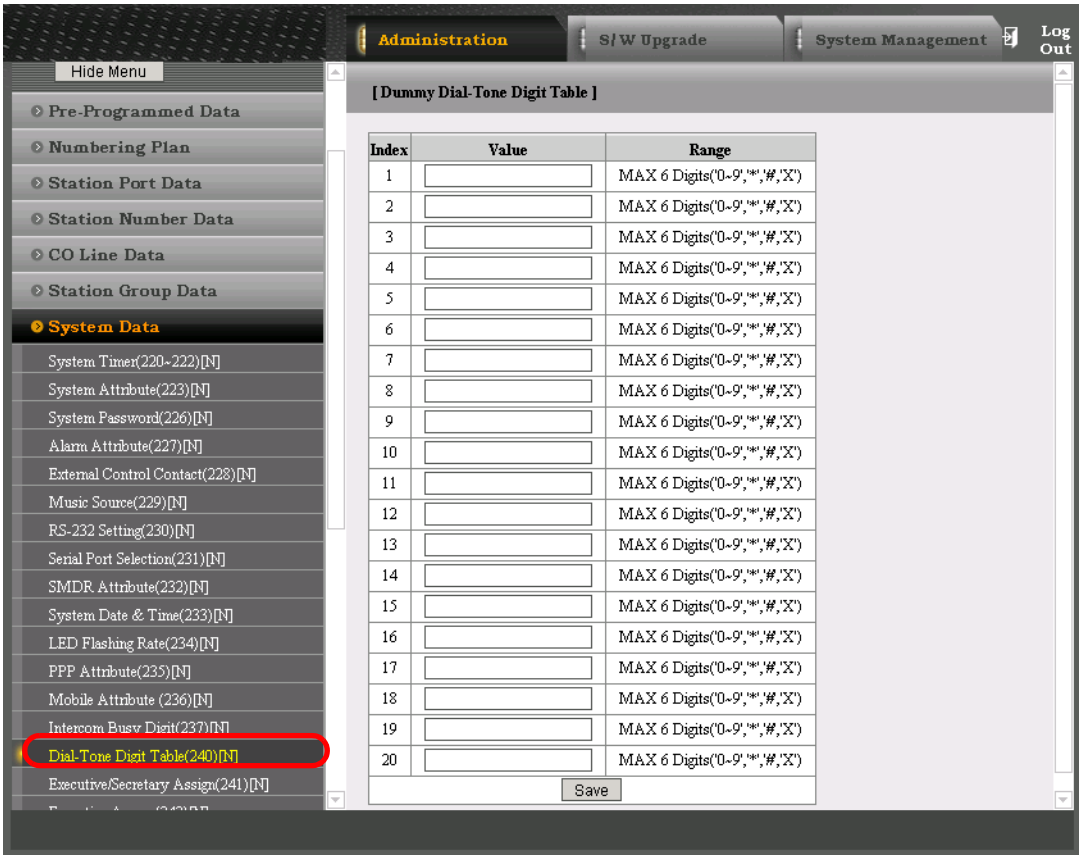
The flash digit and input timer for call transferring from a mobile extension can be assigned according to the following Table.

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 user dials "X" digit in intercom busy tone.	0: N/A 1:Call-Back 2:Camp On 3:Call Wait 4:Voice Over 5:Intrusion 6: Hunt	Not Assigned
Digit "2" Service			Not Assigned
Digit "3" Service			Not Assigned
Digit "4" Service			Not Assigned
Digit "5" Service			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

Dummy Dial-Tone Table (PGM 240)

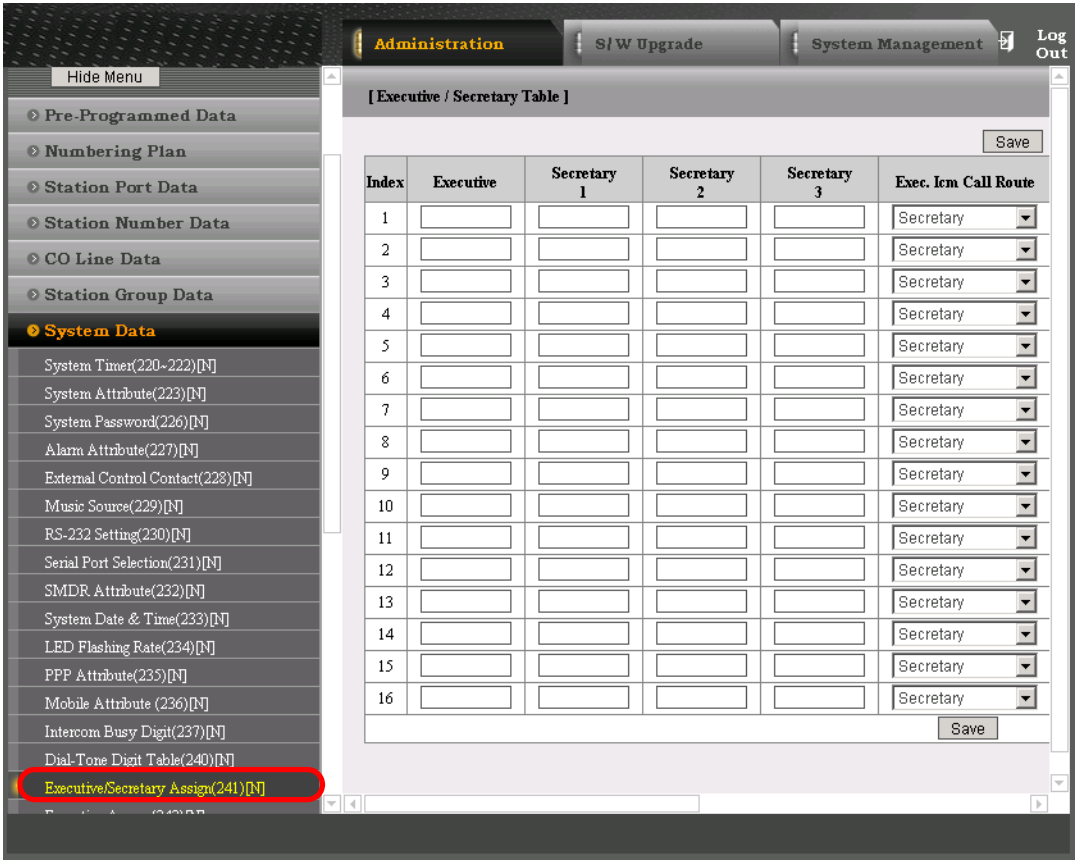
Selecting Dummy Dial-Tone Table Attributes will display the page shown below..



When digit conversion is programmed, the CO line is seized after digit conversion is completed. Then user cannot get the CO dial tone from PX. For this case, a dummy dial tone can be programmed for use.

Executive/Secretary Assign (PGM 241)

Selecting Executive/Secretary Attributes will display the page shown below.



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

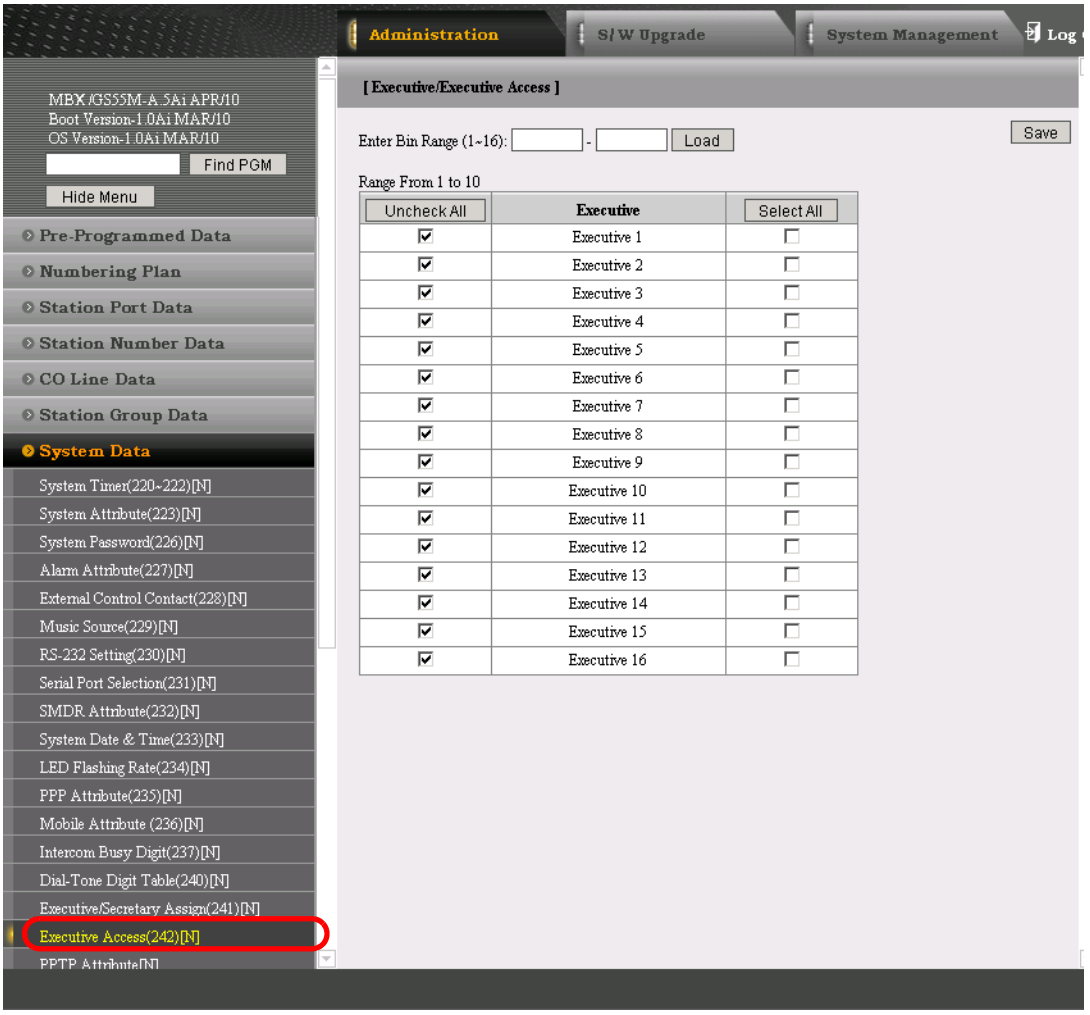
An Executive may have up to 3 Secretaries. A Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another, however, assignments that form a loop-back are not allowed.

Executive/Secretary Assign

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Executive	Assigns Executive station.		
Secretary 1-3	Assigns Secretary stations. Enter secretary station number.	1-3	Not Assigned
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	0: 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	0: 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 Sec. DND/ All Sec. DND	OFF
Sec. Choice	Determines the method of selecting a secretary station when multiple secretaries are assigned. (First Idle/Longest Idle)	First/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	0

Executive-Executive Access (PGM 242)

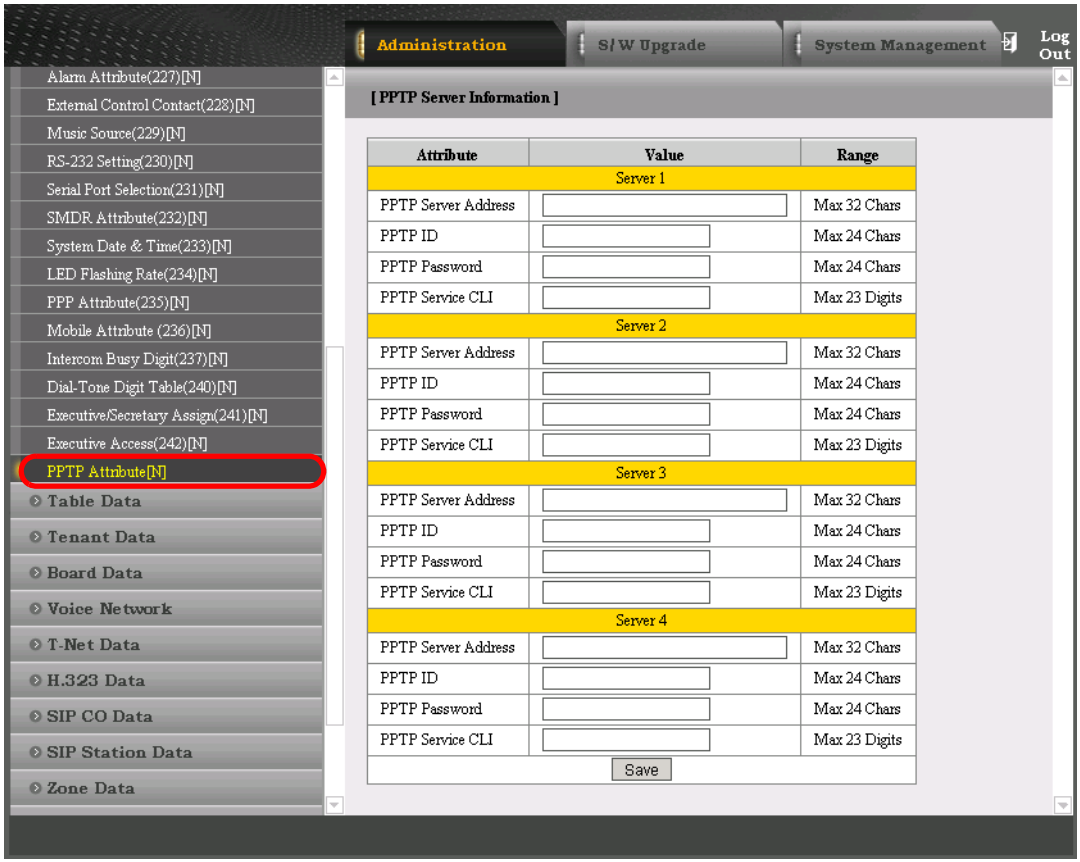
Selecting Executive-Executive Access will display the page shown below.



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

PPTP Attribute

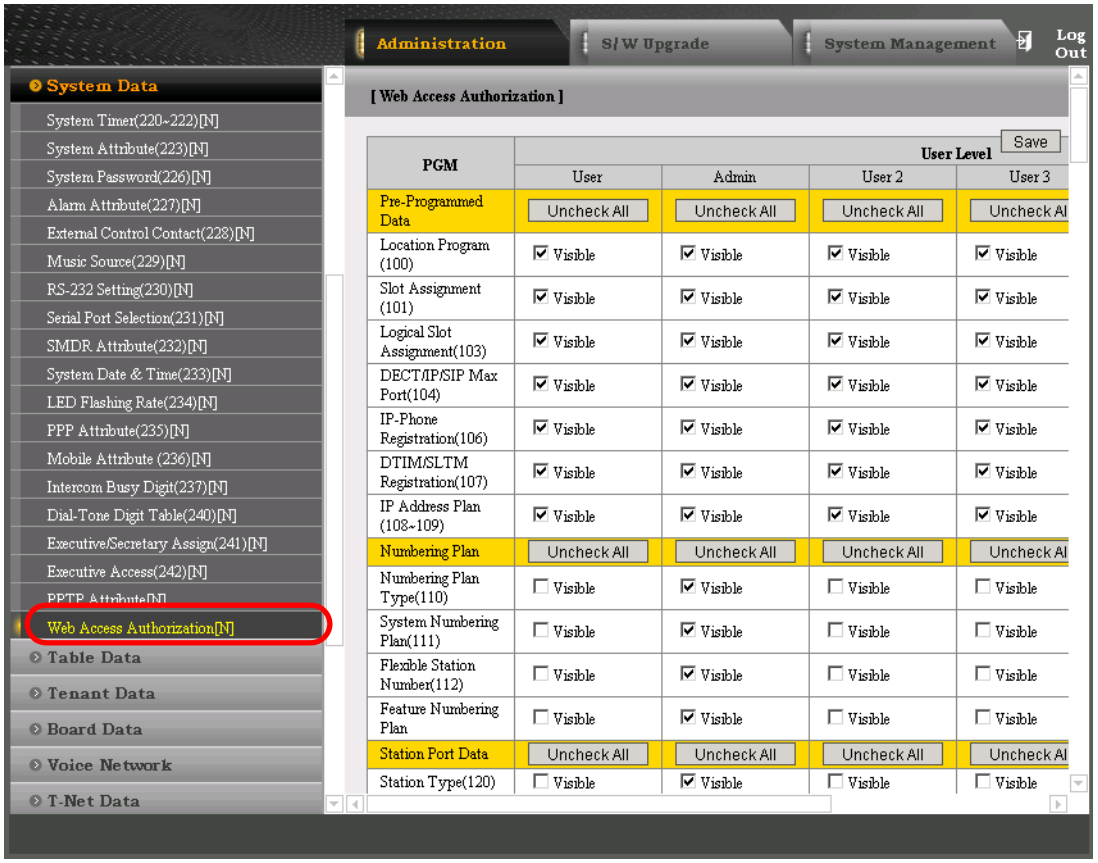
Selecting PPTP Attribute will display the page shown below.



Web Access Authorization

Selecting Web Access Authorization will display the Web Access Authorization data entry page.

>>> This page is only displayed when a password is defined.



Three different passwords can be assigned for the access to the MBX IP Web administration so that the different levels of access to the program fields can be allowed.

- **The User level** -- has access to assigned programming fields and File Upload & remote Upgrade page, which are mainly related to the system installation.
- **The Admin level** -- has access to assigned programming fields.
- **The Maintenance password** -- has access to 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.

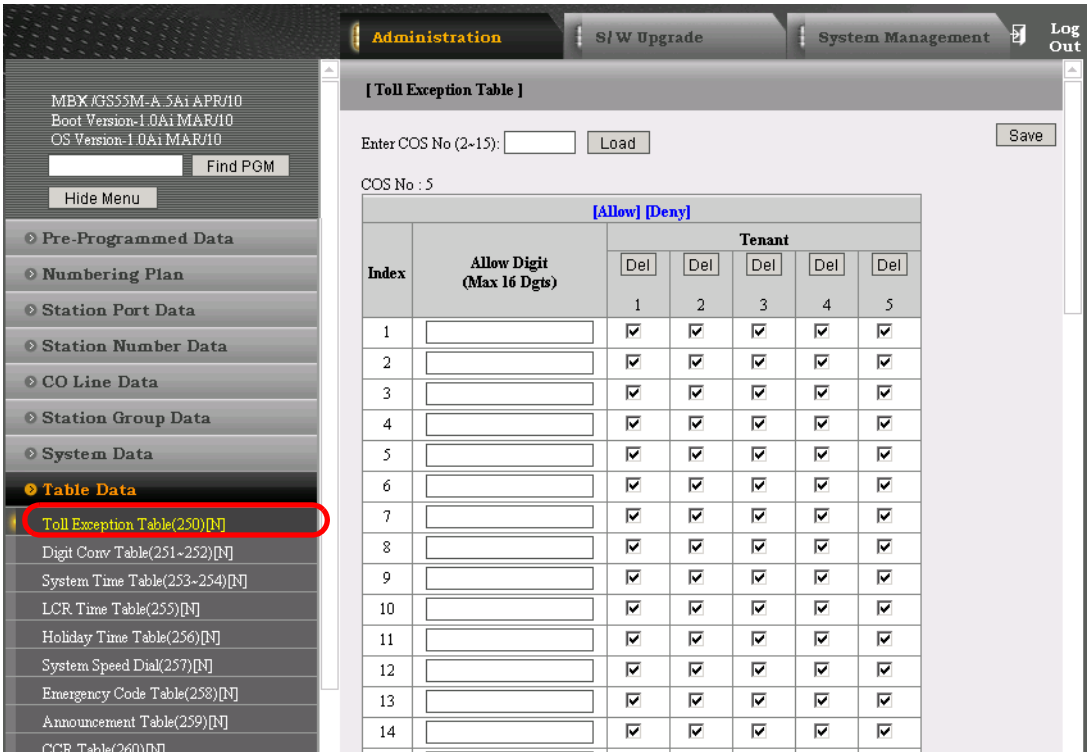
Table Data

Selecting the Table Data program group returns the sub-menus listed below.

- Toll Exception Table (250)
- Digit Conv Table (251-252)
- System Time Table (253-254)
- LCR Time Table (255)
- Holiday Time Table (256)
- System Speed Dial (257)
- Emergency Code Table (258)
- Announcement Table (259)
- CCR Table (260)
- ICLID Table (262)
- CLI Conversion Table (263)
- Tone Frequency/Cadence (264)
- Ring Table (265)
- Ring Frequency/Cadence (266)
- Voice Mail Dial Table (269)

Toll Exception Tables (PGM 250)

Selecting Toll Table will display the Toll Table data entry page shown below. Select the desired Allow or Deny Table.



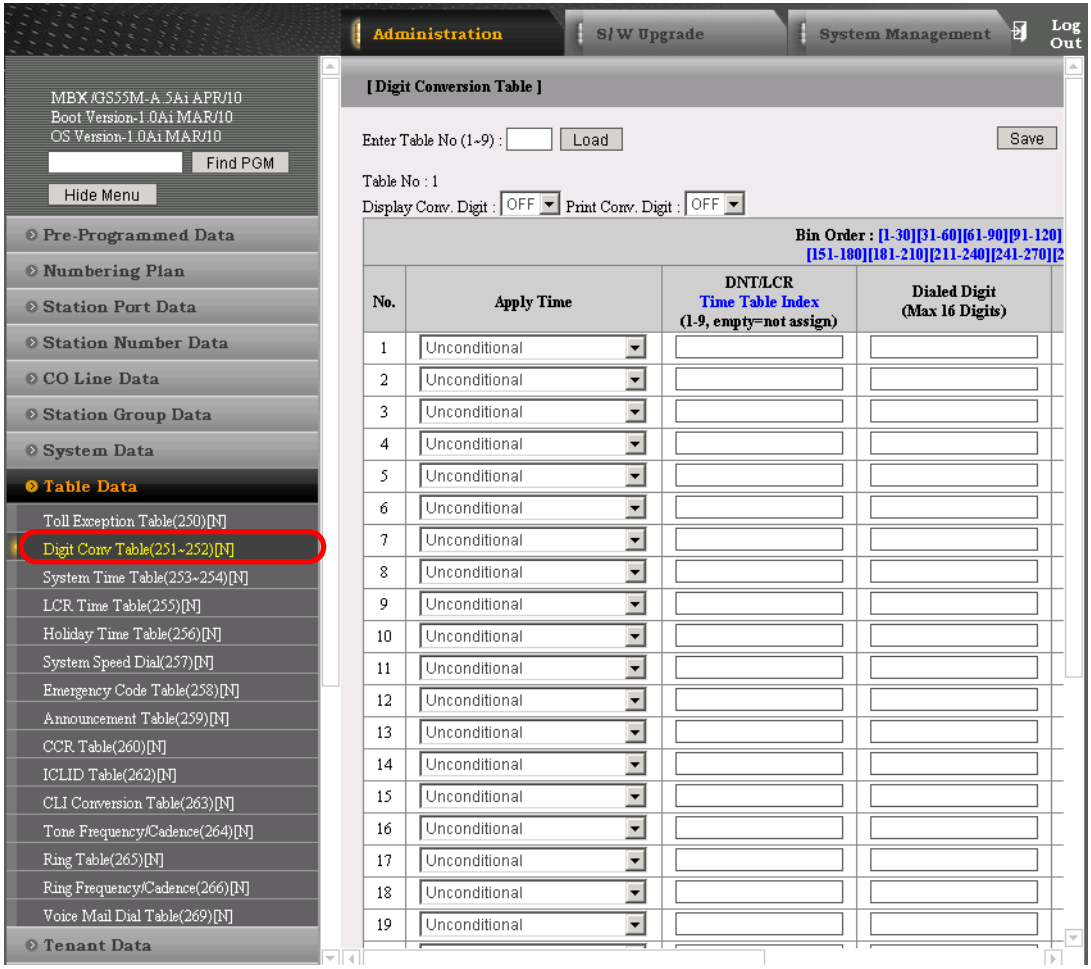
The COS numbers from 2 to 15 have both Allow and Deny values in the Toll Table. For each Table, there can be up to 100 separate Allow and Deny entries (up to 16 digits). Entries in the Tables can be any digit (0-9), "*", "#".

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 Allow Table, only those numbers entered can be dialed, all other dialed numbers will be restricted.
- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table, the number will be restricted otherwise the number can be dialed without restriction.

Digit Conversion Tables (PGM 251-252)

Selecting System Time Table will display the page shown below:

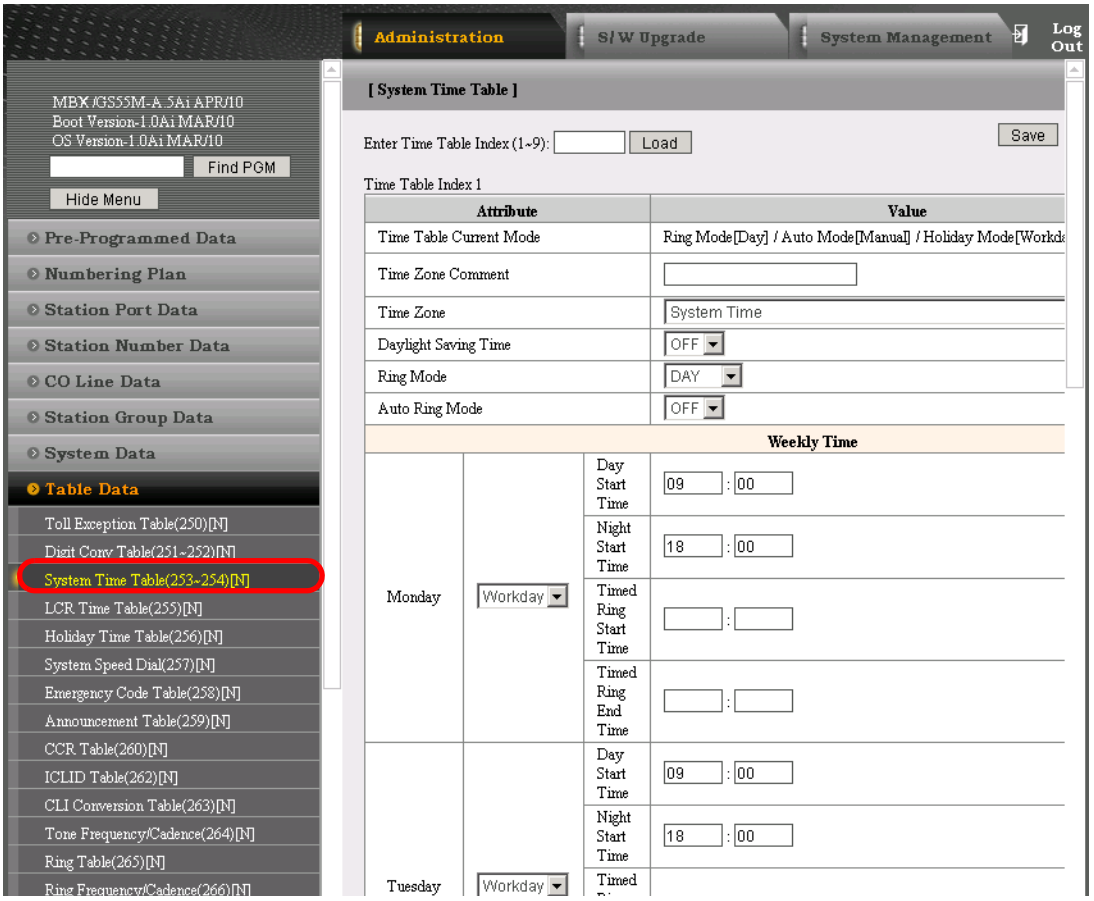


The Digit Conversion Table index is assigned to the Station and CO line. In addition, digit conversion can be applied according to the Apply Time Type (Unconditional, Day/Night/Timed or LCR Day/Time) as necessary.

- Each Table has 300 entries of up to 16 digits. Entries in the Tables can be any digit (0-9), "*", "#".
- Each Index can be applied by Apply Option (All/Station/CO line/Disable).

System Time Tables (PGM 253-254)

Selecting System Time Table will display the page shown below..



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

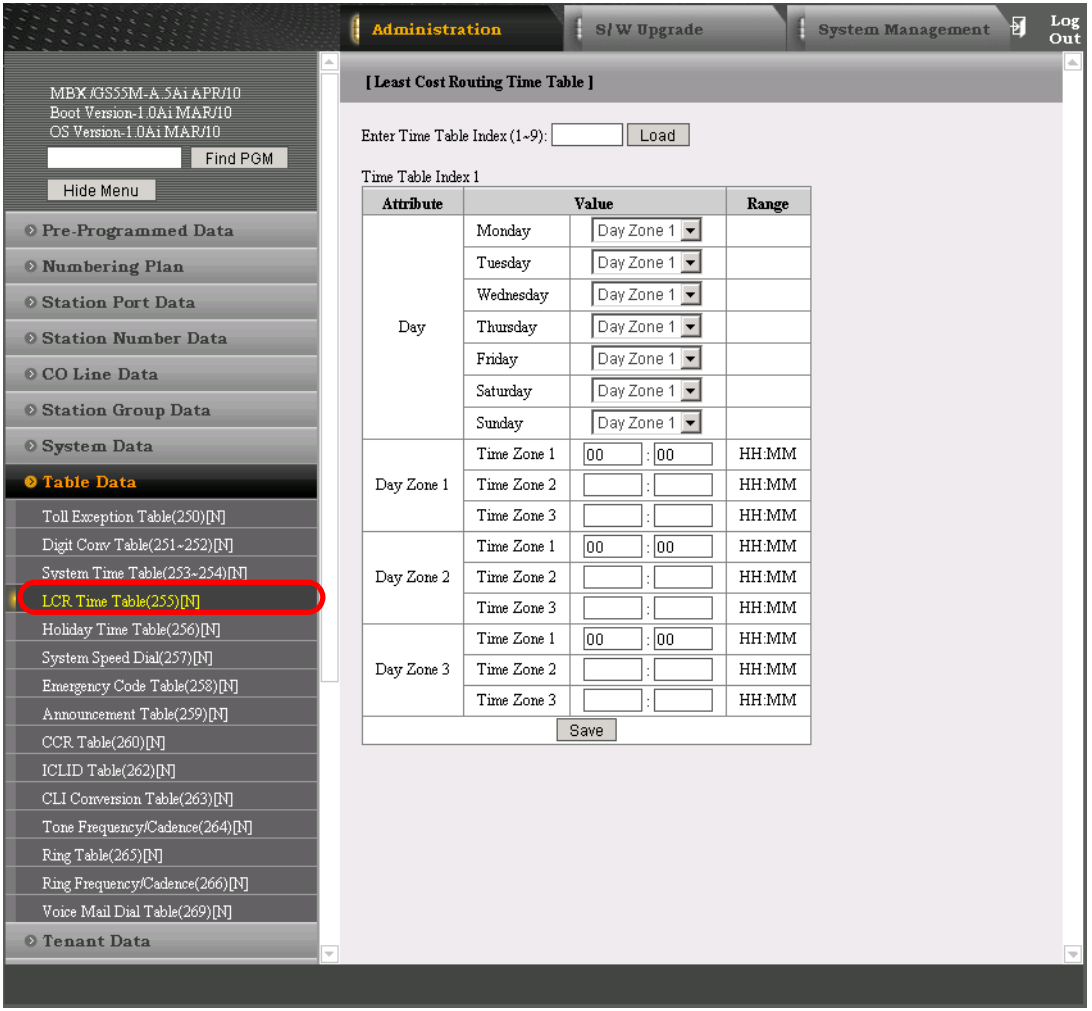
- Each Time Table has a ring mode related to the different ring assignments, COS and answering method for the system. The ring mode can be controlled automatically through definitions in the Auto Ring Mode & Weekly timetable based on Time Table.
- Start times for Day, and Night modes, and start and end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

System Time Table Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Time Zone Comment	This entry defines comment of Time table	32 Characters	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. Week Day/Holiday also can be selected.	0000-2359	DAY: 9:00 NITE: 18:00 TDS: ..:.. TDE: ..:..

LCR Time Table (PGM 255)

Selecting LCR Time Table will display the LCR page shown below..



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).

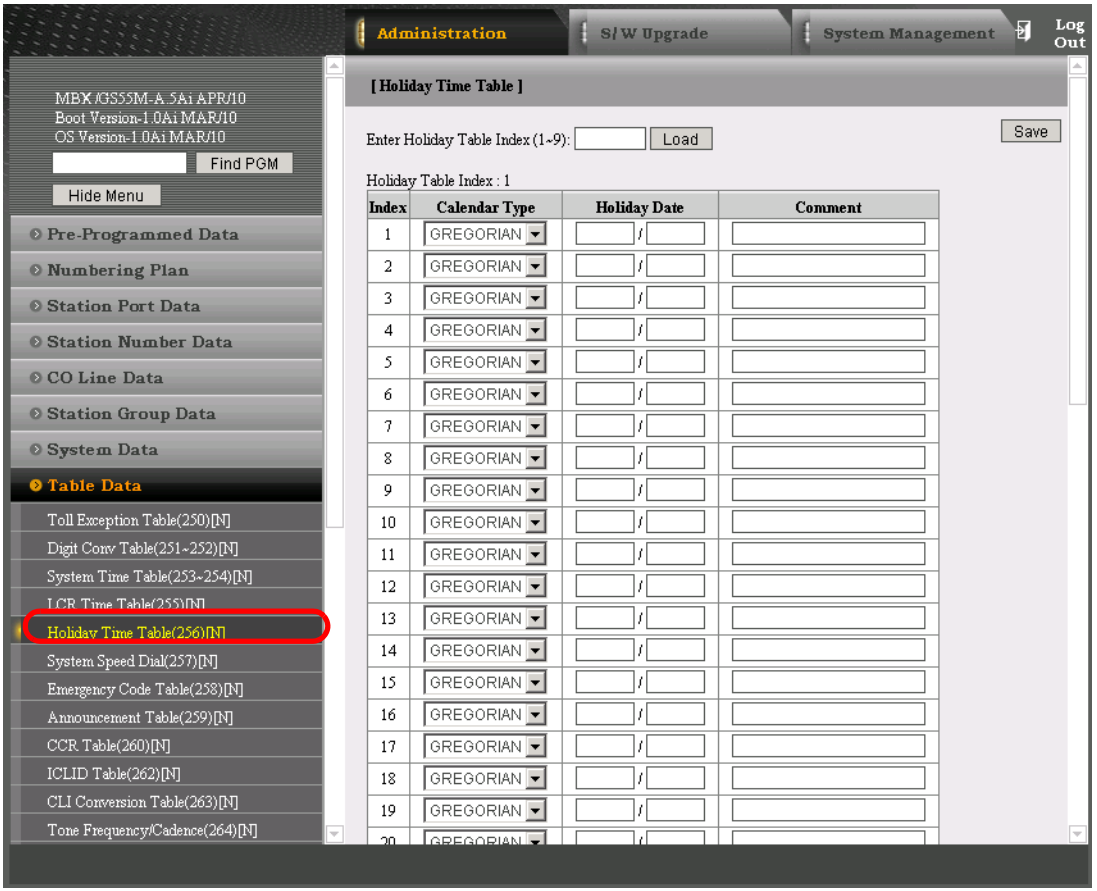
The table below provides general descriptive information and input ranges.

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 (Flex1-7 + 1-3).	Flex 1-7 (1-3)	Zone 1: all days of the week
Time Zone1	Determines the time zone of day zone 1 when Day Zone 1 is active.	00-24	00-24
Time Zone2	Determines the time zone of day zone 2 when Day Zone 2 is active.	00-24	
Time Zone3	Determines the time zone of day zone 3 when Day Zone 3 is active.	00-24	

Holiday Time Table (PGM 256)

Selecting Holiday Time Table will display the page shown below:

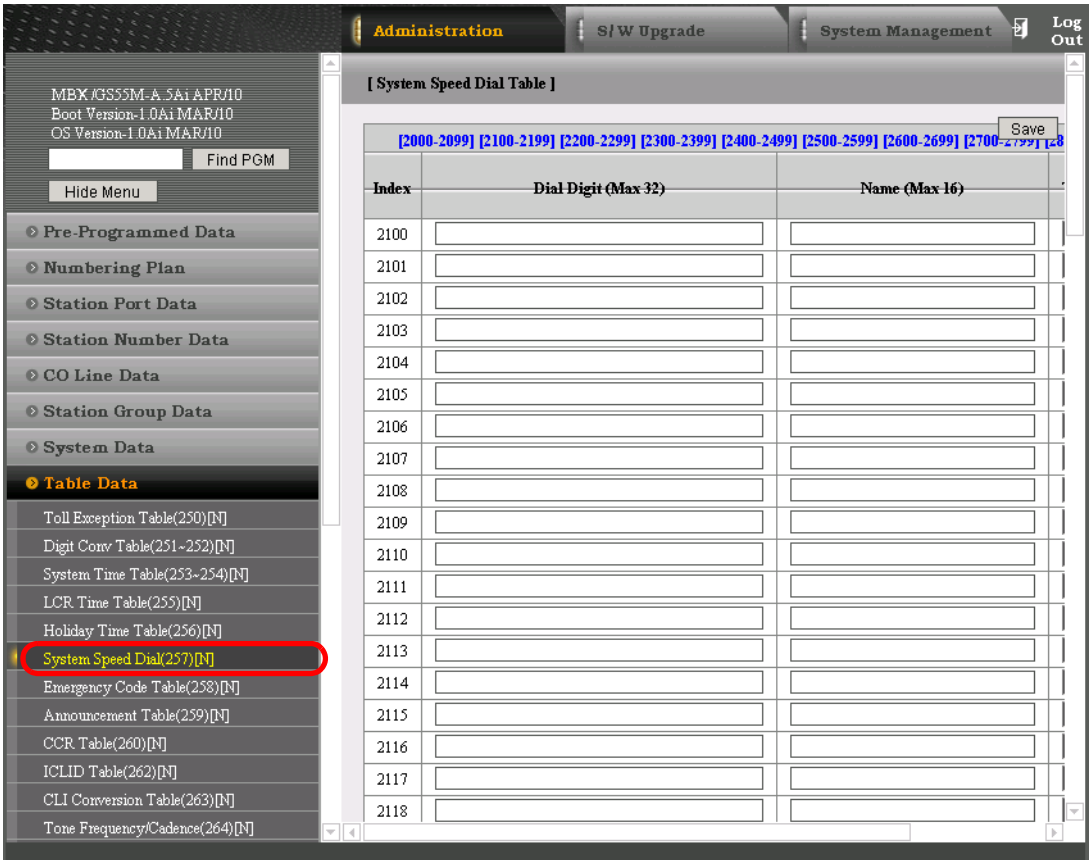


Each Time Table has a Holiday time table and ring mode that can be used in place of Night mode when the current date matches with Holiday time table election from automatic to manual.

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

System Speed Table (PGM 257)

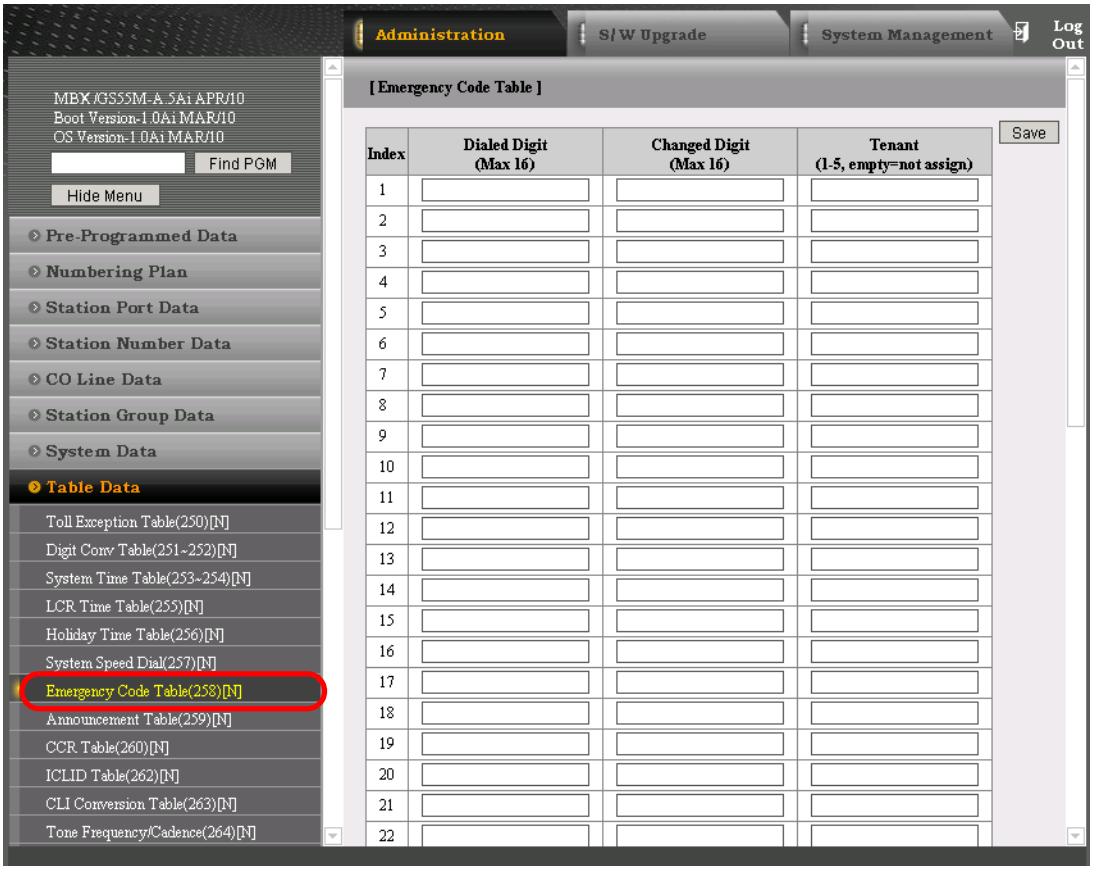
Selecting System Speed Table will display the System page shown below..



ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Dial	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 is left empty, the entry will be adapted to all tenants.	Empty, 1-9 (MBX IP-300) 1-5 (MBX IP-100)	1

Emergency Code Table (PGM 258)

Selecting Emergency Code Table will display the page shown below.

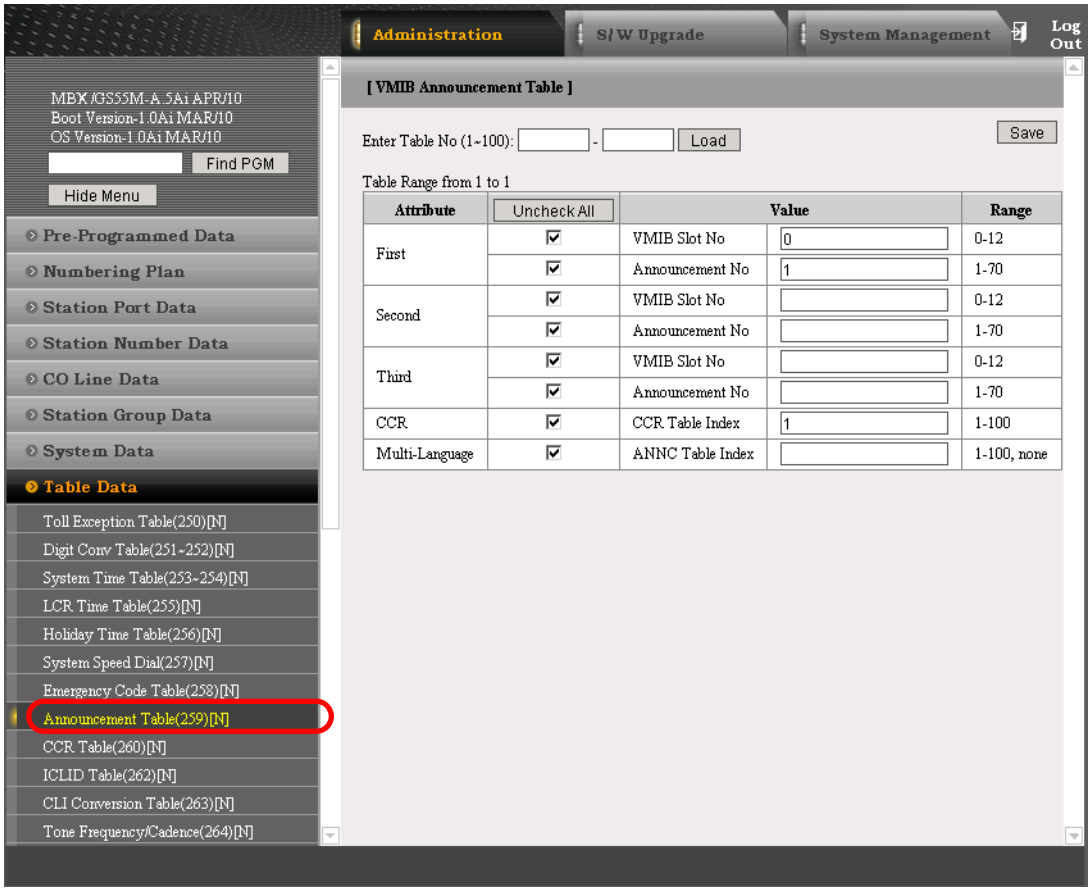


The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions. An Emergency Code number may be up to sixteen (16) digits in length.

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.	1-9 (MBX IP-300) 1-5 (MBX IP-100)	1

VMIB Announcement Table (PGM 259)

Selecting VMIB Announcement Table will display the page shown below.



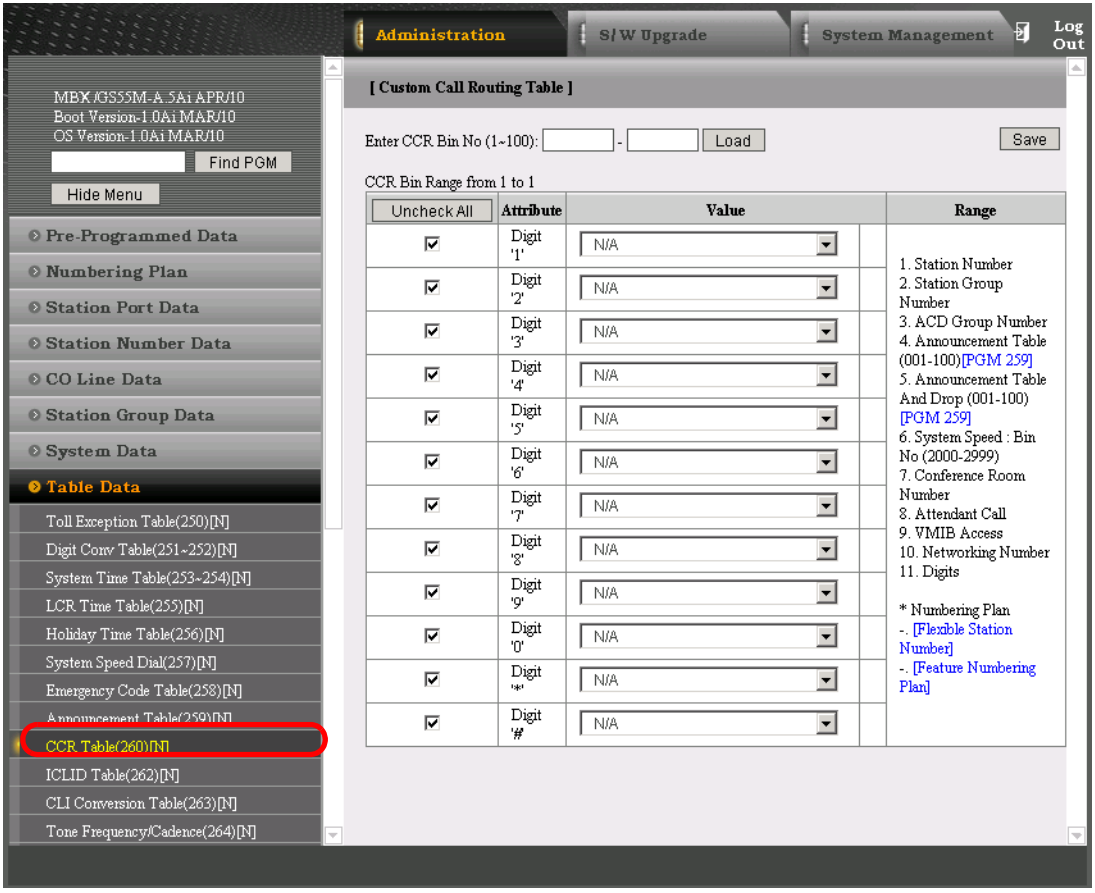
The VMIB Announcement Table is used for play the VMIB Announcement.

Emergency Code Table Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
VMIB Slot No & Announcement No	To be used for playing.	-	-
CCR	CCR index use for playing.	1-100	1

Customer Call Routing Table (PGM 260)

Selecting CCR Table will display the Customer page shown below.



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.

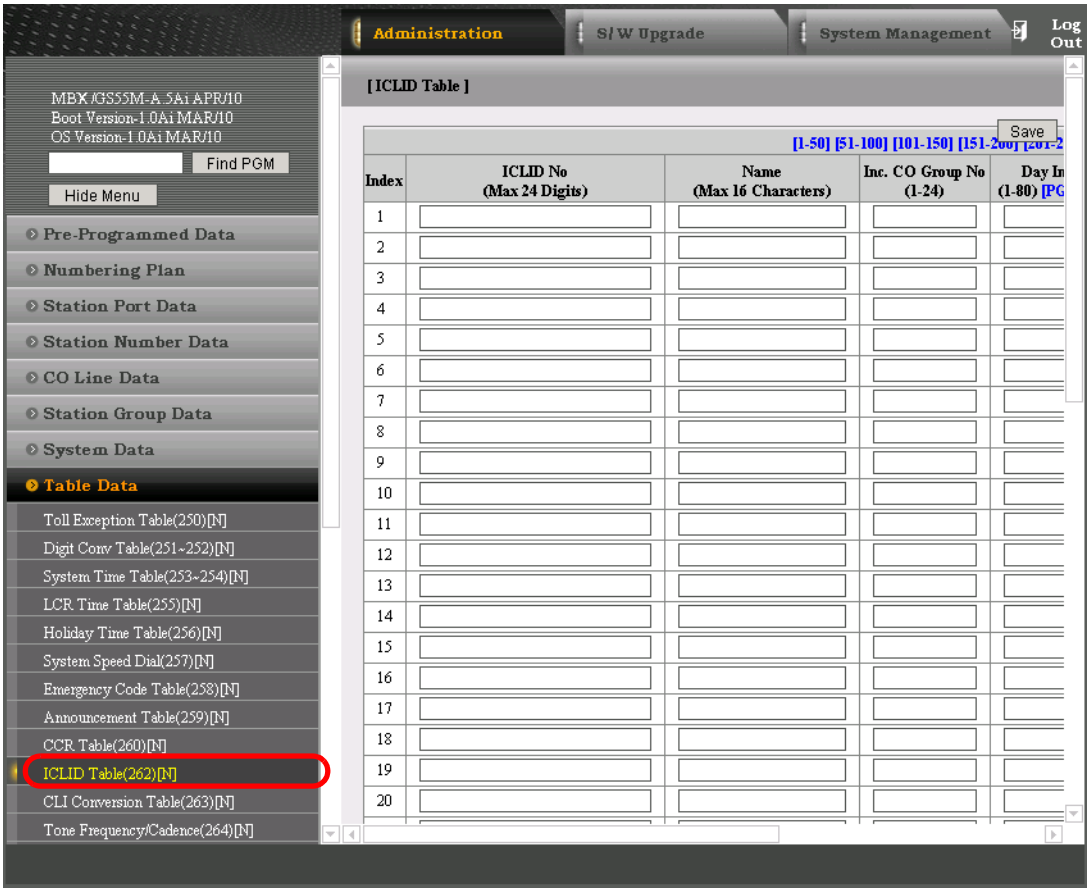
The CCR Table defines the destination associated with digits dialed by the caller in response to a VMIB Announcement (001-100). Up to 100 single-level Audio Text menus may be assigned, or multi-level menu structures (maximum 100 levels) can be established using one menu as a destination for the previous level.

CCR TABLE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Value	The destination of CCR. The following is the CCR destination. 1. Station Number 2. Station Group Number 3. ACD Group Number 4. Announcement Table (001-100)[PGM 259] 5. Announcement Table And Drop (001-100)[PGM 259] 6. System Speed : Bin No (2000-2999) 7. Conference Room Number 8. Attendant Call 9. VMIB Access 10. Networking Number 11. Digits (to use the digit conversion, or the assigned digit is displayed if the above feature code is changed.)		N/A

ICLID Route Table (PGM 262)

Selecting ICLID Route Table will display the page shown below. Select the ICLID Table Index range desired (blue text above table header row), then click on a column head to sort based on the selected column.



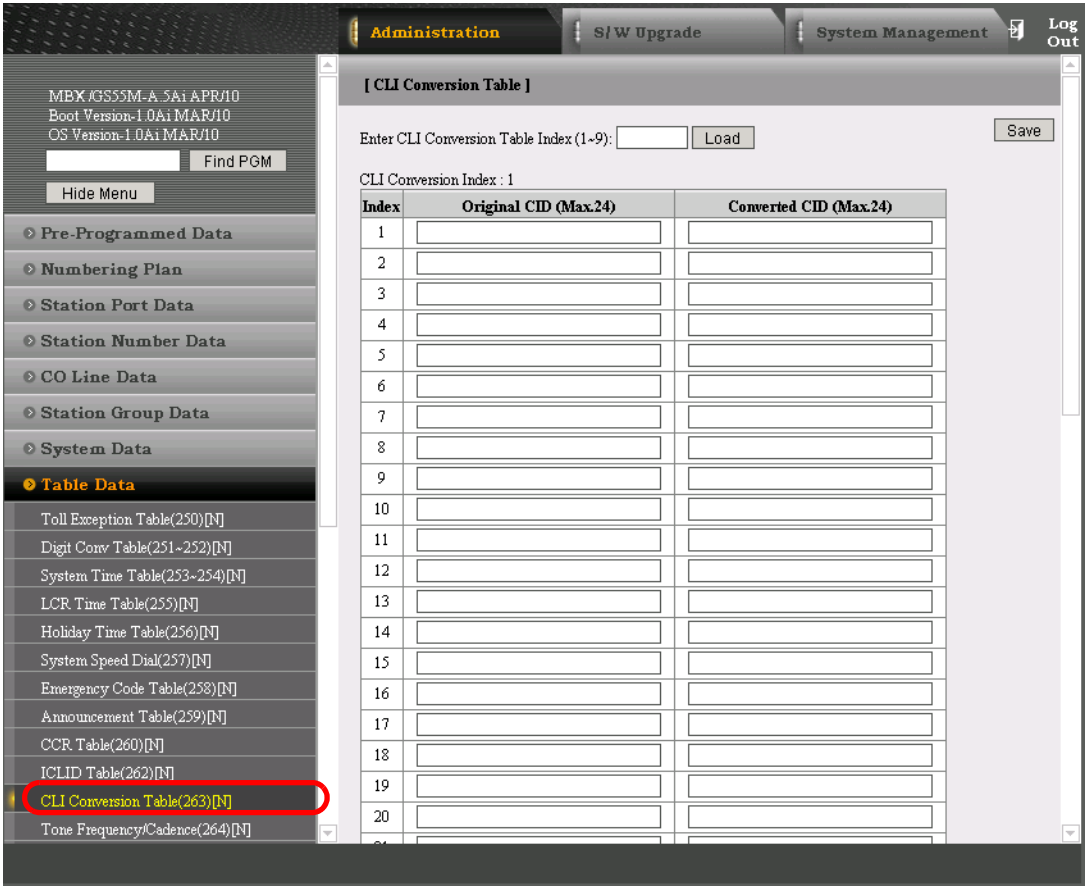
The system can employ Incoming Calling Line Id (ICLID) to determine the routing of incoming external calls. Each CO/IP Line may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table, and route the call based on destination indicated by the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

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	-
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 (MBX IP-300) 1-5 (MBX IP-100)	1

CLI Conversion Table (PGM 263)

Selecting the CLI Conversion Table will display the page shown below.

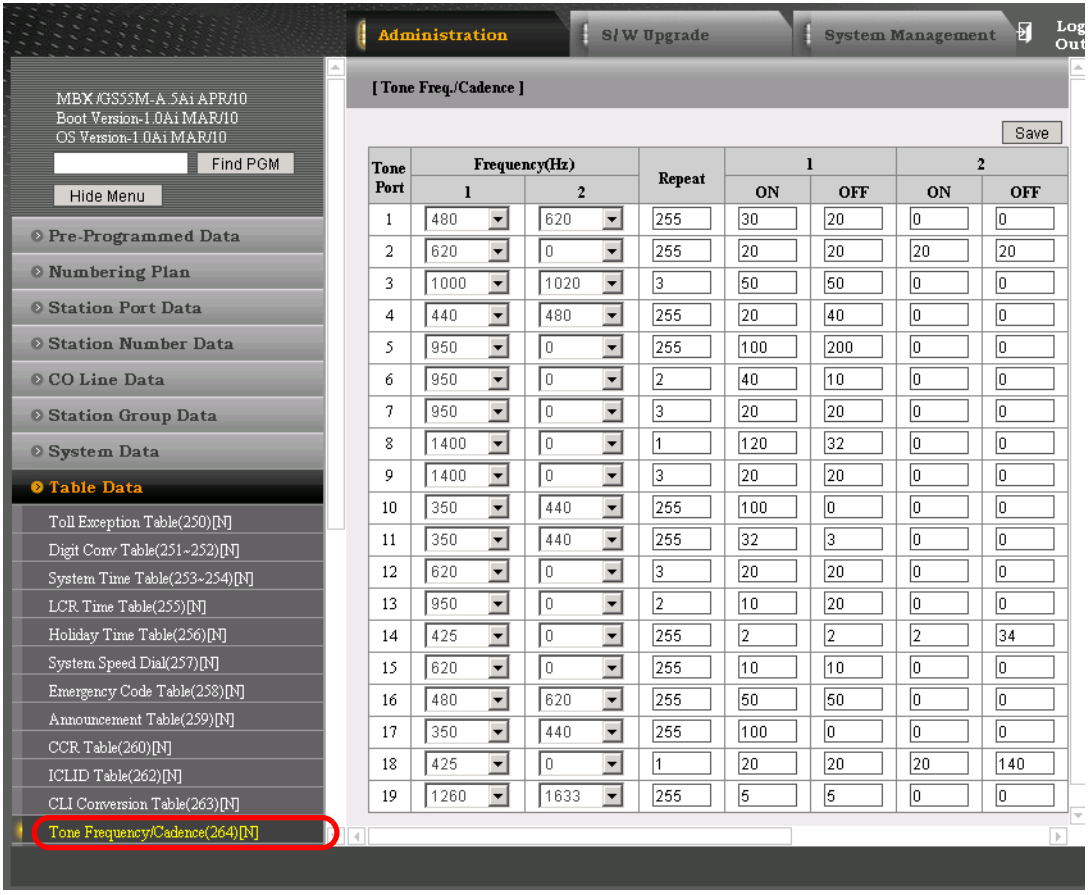


The system can convert Incoming or Outgoing CLI using the CLI Conversion Table. The system will compare a received CLI or calling CLI to the conversion table.

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Original CLI	-	24-digits	None
Converted CLI	-	24 digits	None

Tone Frequency/Cadence Table (PGM 264)

Selecting Tone Frequency/Cadence will display the page shown below.



Tone Port	Frequency(Hz) 1	Frequency(Hz) 2	Repeat	1 ON	1 OFF	2 ON	2 OFF
1	480	620	255	30	20	0	0
2	620	0	255	20	20	20	20
3	1000	1020	3	50	50	0	0
4	440	480	255	20	40	0	0
5	950	0	255	100	200	0	0
6	950	0	2	40	10	0	0
7	950	0	3	20	20	0	0
8	1400	0	1	120	32	0	0
9	1400	0	3	20	20	0	0
10	350	440	255	100	0	0	0
11	350	440	255	32	3	0	0
12	620	0	3	20	20	0	0
13	950	0	2	10	20	0	0
14	425	0	255	2	2	2	34
15	620	0	255	10	10	0	0
16	480	620	255	50	50	0	0
17	350	440	255	100	0	0	0
18	425	0	1	20	20	20	140
19	1260	1633	255	5	5	0	0

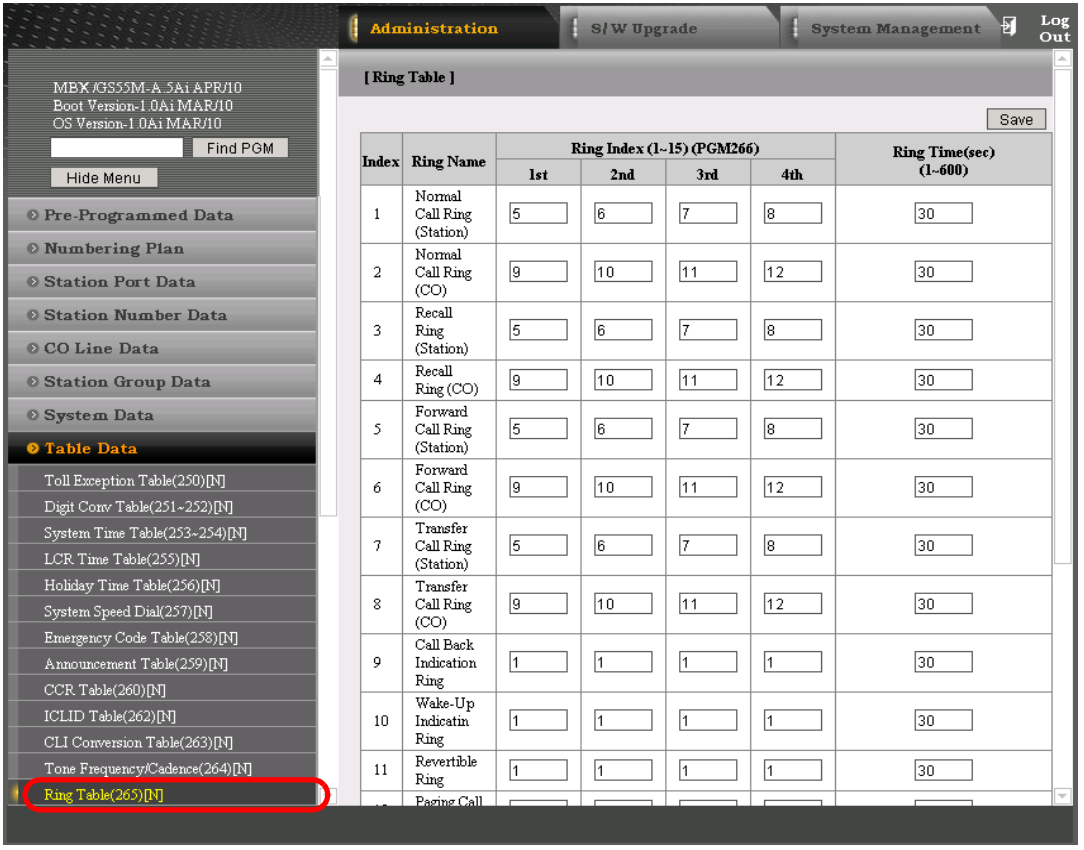
The system provides 19 different of tone ports. Each tone port may be designated a tone type according to the Tone Table (PGM 290).

Tone Port Table (Default)

Index	Frequency		Cadence	Repeat
	Frequency 1	Frequency 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.)

Ring Table (PGM 265)

Selecting Ring Table will display the page shown below.



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.

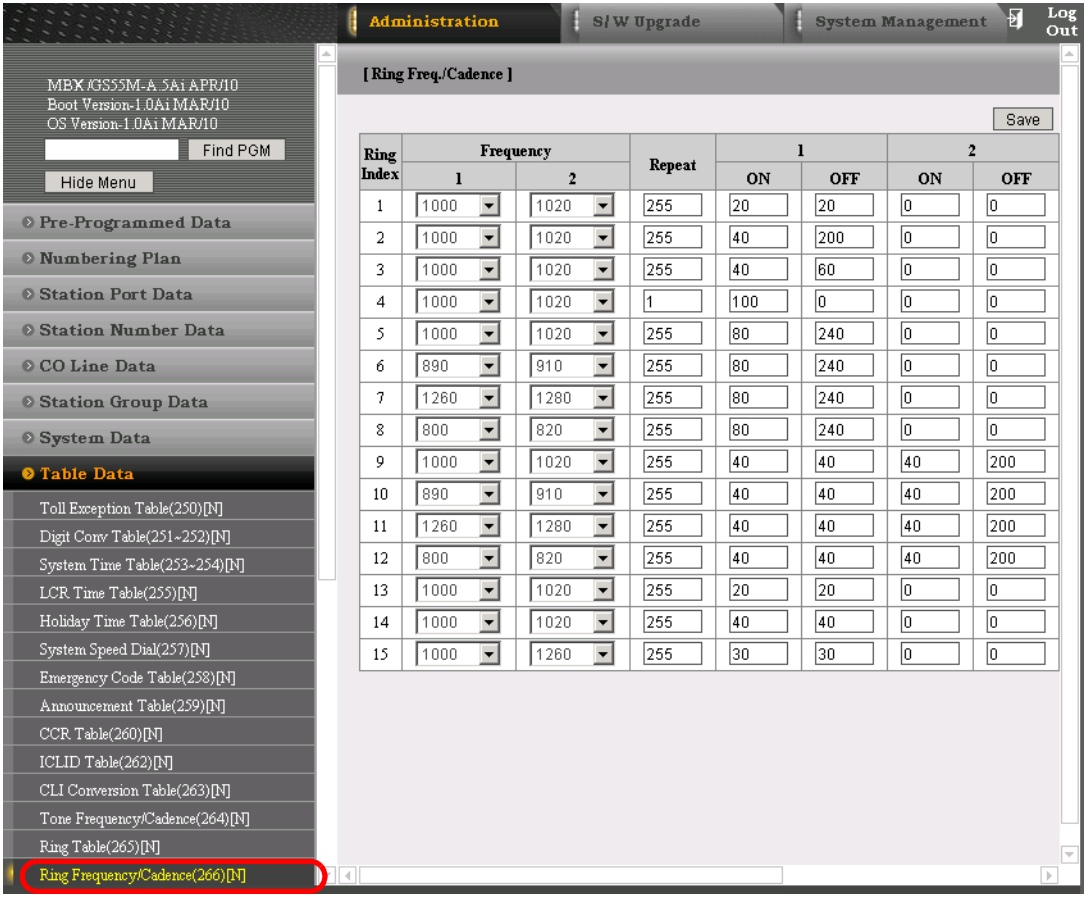
INDEX	RING NAME	REMARK
1	Normal Call Ring (Station)	For an internal call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller gets error tone or goes to idle.
2	Normal Call Ring (CO)	For an external DID call, this ring type and ring timer is applied. If the call is not answered within this timer, the caller is routed to the "NO-Answer Destination" of incoming CO Alternative (PGM 169).

INDEX	RING NAME	REMARK
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	

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).

Ring Frequency/Cadence Table (PGM 266)

Selecting Ring Frequency/Cadence will display the page shown below..

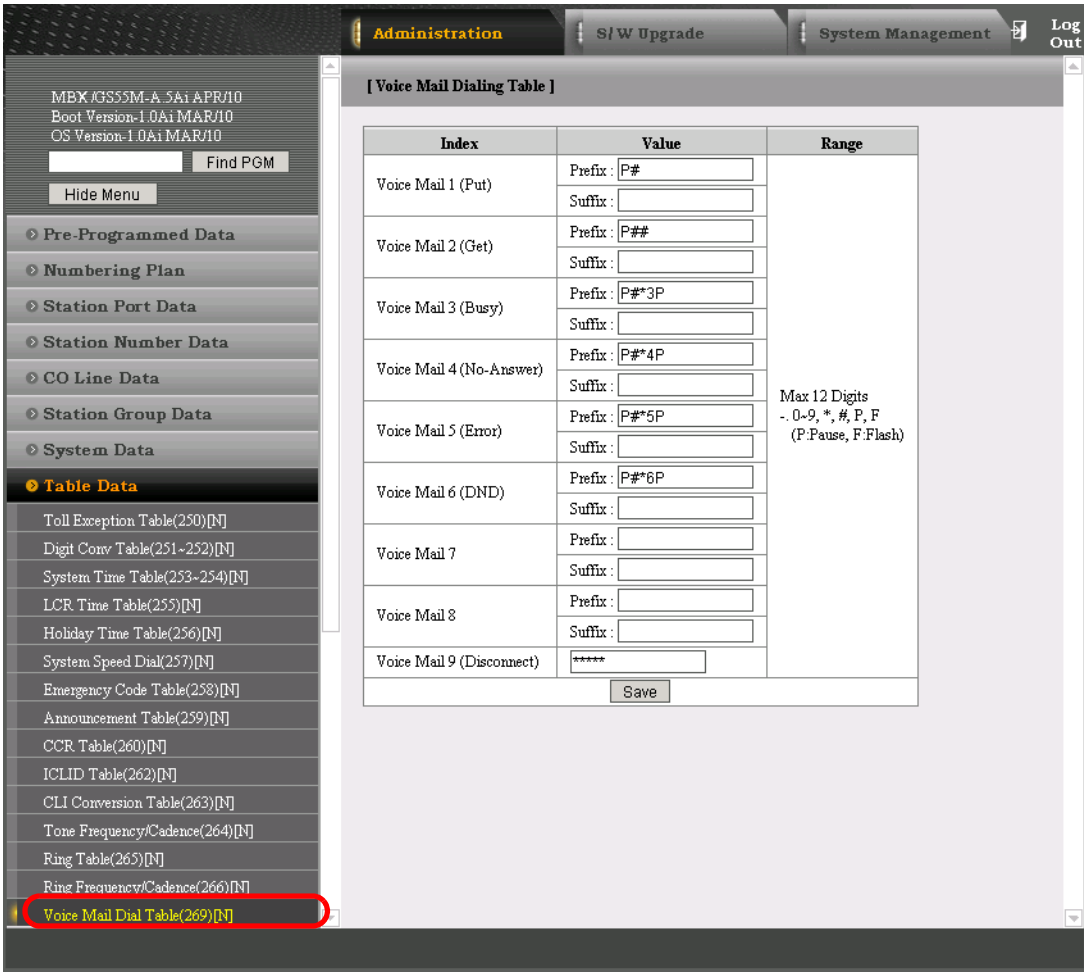


Ring Freq/Cadence Table

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.)

Voice Mail Dialing Table (PGM 269)

Selecting Voice Mail Dialing Table will display the page shown below..



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.

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 Any digits	P#
Voice Mail 2 - Get	Code sent for message playback (Get Mail).	0: Prefix 1: Suffix Any digits	P##
Voice Mail 3 - Busy	Code sent when voice mail receives a call while the user is busy (Busy Mail).	0: Prefix 1: Suffix Any digits	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 Any digits	P#*4P
Voice Mail 5 – Error	Code sent when voice mail receives a call when dialing error exists (Error Mail).	0: Prefix 1: Suffix Any digits	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 Any digits	P#*6P
Voice Mail 7	RESERVED	0: Prefix 1: Suffix Any digits	-
Voice Mail 8	RESERVED	0: Prefix 1: Suffix Any digits	-
Voice Mail 9 - Disconnect	Code sent when voice mail receives a disconnected call (Disconnect Mail).	0: Prefix 1: Suffix Any digits	*****

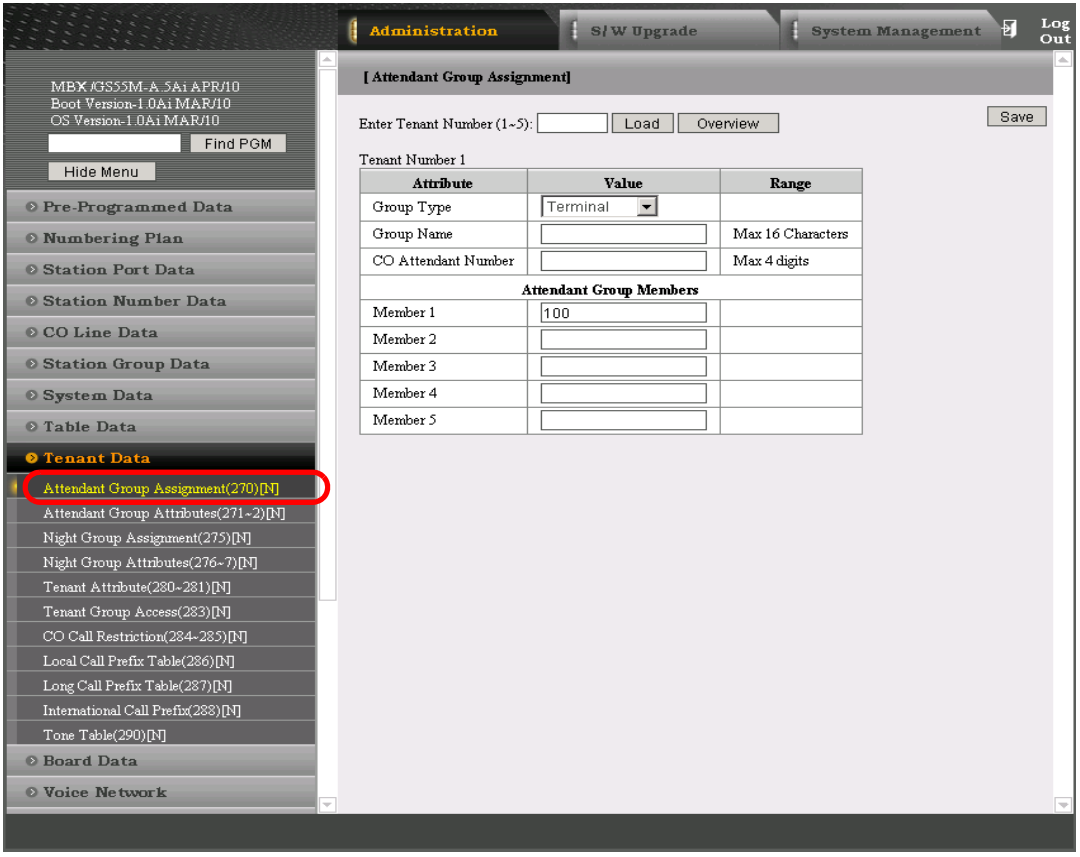
Tenant Data

Selecting the Tenant Data program group returns the sub-menu displayed below.

- Attendant Group Assignment (270)
- Attendant Group Attributes (271-2)
- Night Group Assignment (275)
- Night Group Attributes (276-7)
- Tenant Attribute (280-281)
- Tenant Group Access (283)
- CO Call Restriction (284-285)
- Local Call Prefix Table (286)
- Long Call Prefix Table (287)
- International Call Prefix (288)
- Tone Table (290)

Attendant Group Assignment (PGM 270)

Selecting ATD Group Assignment will display the page shown below..



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

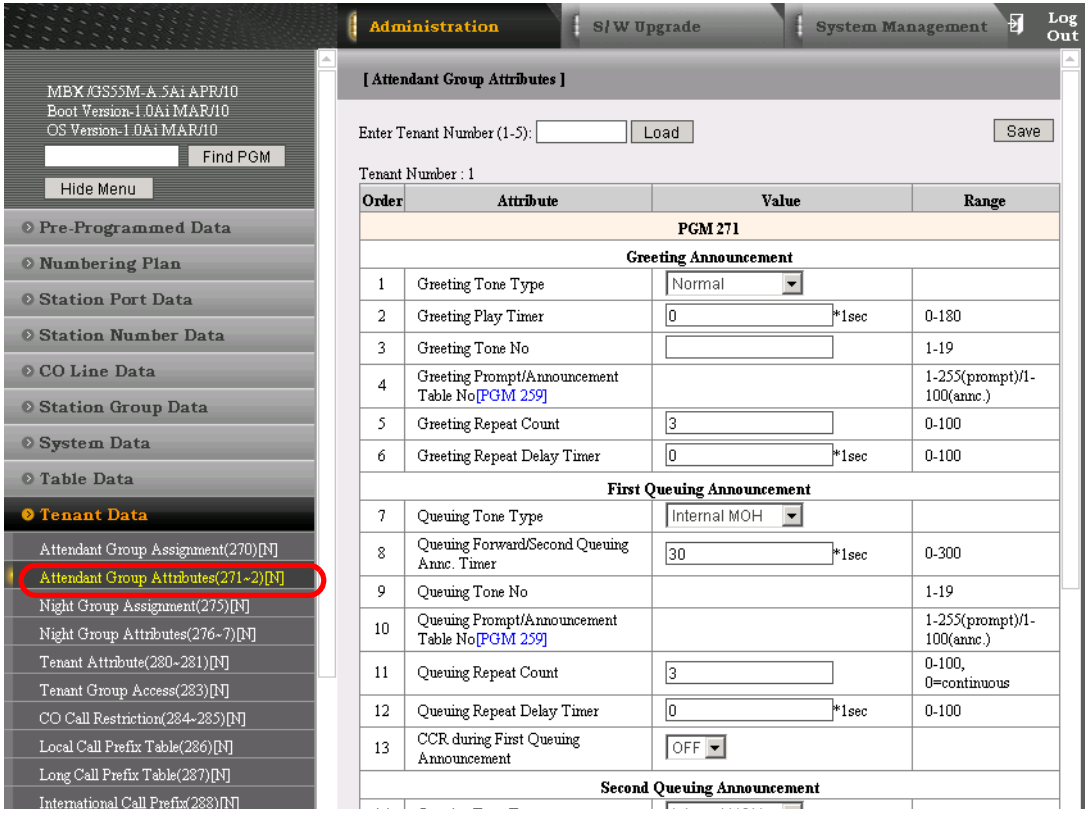
Attendant stations can be grouped so that calls will search for an idle attendant in the group. The system allows processing assignment to be Circular, Terminal, Ring, or Longest Idle.

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

Attendant Group Attributes (PGM 271-272)

Selecting Attendant Group Attributes will display the page shown. Enter the Attendant Group number and click Load, the Web page for the selected group will be displayed as shown below..



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.

Attendant Group Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Greeting Tone Type	Determines the type of greeting tone.	0. Normal 1. Prompt 2. Annc 3. INT MOH 4. EXT MOH 5.VMIB MOH1 6.VMIB MOH2 7.VMIB MOH3 8.VMIB MOH4 (MBX IP 300 only) 9.SLT MOH1 10.SLT MOH2 11.SLT MOH3 12.SLT MOH4 13.SLT MOH5	0
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	04
Greeting Prompt/Announcement Table No(PGM259)	Determines greeting prompt/annc number in case greeting type is PROMPT or ANNC.	001-255	NOT ASG
Greeting Repeat Count	Determines greeting repeat number	000-100	3
Greeting Repeat Delay Timer	Determines pause timer amount before greeting repeat.	000-100 (seconds)	0

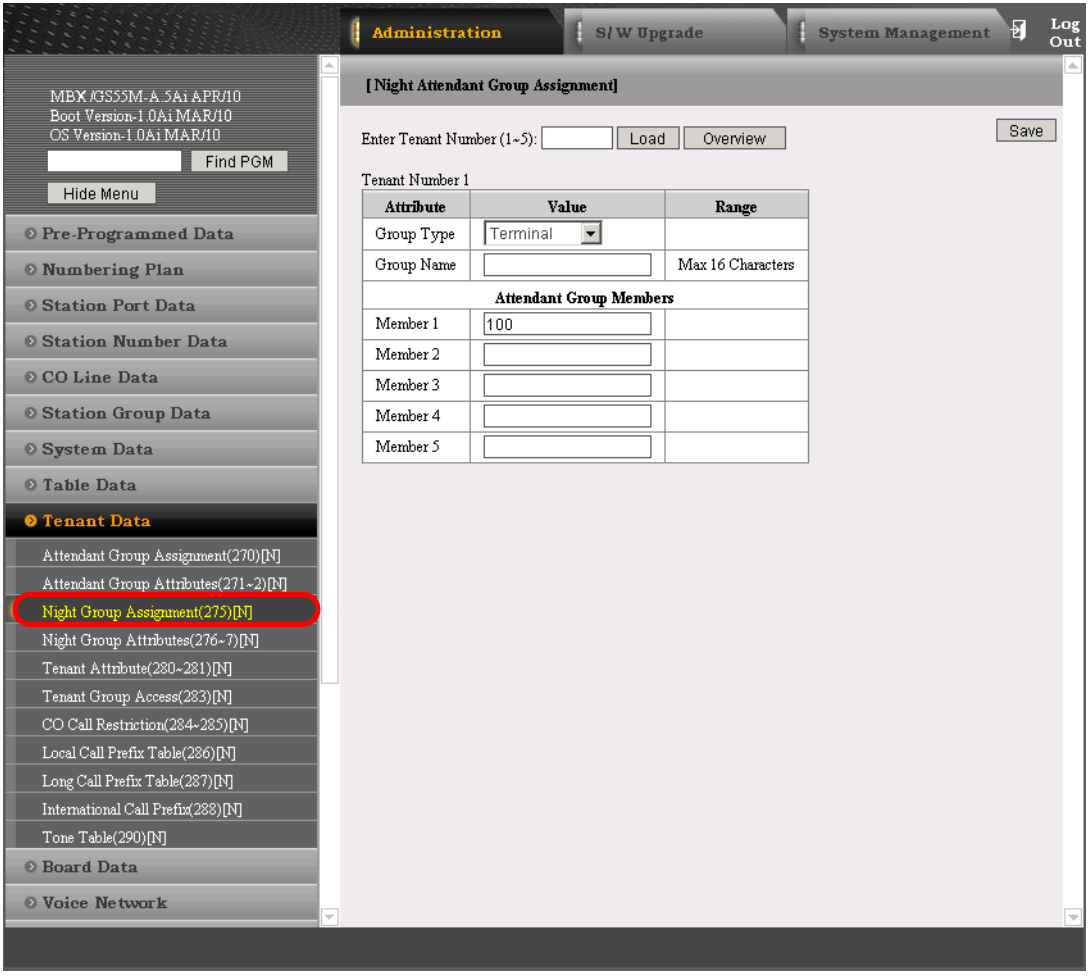
ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Queuing Tone Type	Determines the type of queuing tone.	0. Normal 1. Prompt 2. Annc 3. INT MOH 4. EXT MOH 5.VMIB MOH1 6.VMIB MOH2 7.VMIB MOH3 8.VMIB MOH4 (MBX IP300 Only) 9.SLT MOH1 10.SLT MOH2 11.SLT MOH3 12.SLT MOH4 13.SLT MOH5	3
Queuing Forward/Second Queuing Annc. Timer	Determines queuing forward/second annc timer	010-300 (seconds)	30
Queuing Tone No	Determines tone number in case queuing type is normal.	01-19	NOT ASG
Queuing Prompt/Announcement Table No (PGM259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Queuing Repeat Count	Determines queuing repeat number	000-100	3
Queuing Repeat Delay Timer	Determines the pause timer before queuing repeat.	000-100 (seconds)	0
CCR during First Queuing Announcement	This entry defines CCR option during queuing announcement is provided.	0-1	0

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Second Queuing Tone Type	Determines the type of queuing tone.	0. Normal 1. Prompt 2. Annc 3. INT MOH 4. EXT MOH 5.VMIB MOH1 6.VMIB MOH2 7.VMIB MOH3 8.VMIB MOH4 (MBX IP 300 only) 9.SLT MOH1 10.SLT MOH2 11.SLT MOH3 12.SLT MOH4 13.SLT MOH5	3
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.	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	1
Max Queue Count	Determines queue count.	00-99	05

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 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	0
Apply Time Type	Determines a time to apply forward type.	0. ALL 1. DAY 2. NIGHT 3. TIMED	0
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. 0: the call for attendant follows normal call. 1: the call for attendant follows attendant group call		OFF
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	0

Night Attendant Group Assignment (PGM 275)

Selecting Night ATD Group Assignment will display the page shown below..



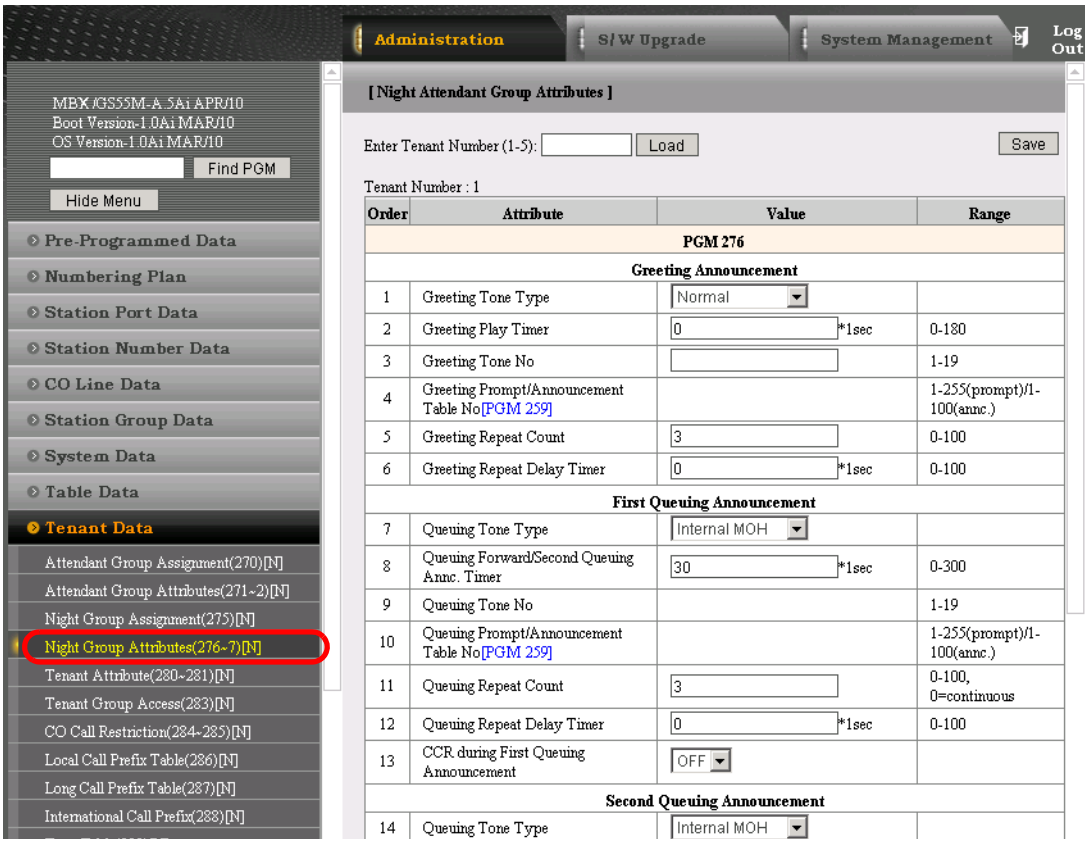
Night Attendant Group covers a call while the Attendant station is in an unavailable mode or system goes to night mode. Stations can be grouped as night attendant group so that calls will search for an idle station in the night attendant group. The system allows assignment of processes, Circular, Terminal,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

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	0
Group Name	Determines the name of night attendant group.	Max 16.	-
Member	Assigns stations as members of a night attendant group.	-	-

Night Attendant Group Attributes (PGM 276-277)

Selecting Night ATD Group Attributes will display the page shown. Enter the Night Attendant Group number and click Load, the Web page for the selected group will display as show below.



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.

Night Attendant Group Attributes

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Greeting Tone Type	Determines the type of greeting tone.	0. Normal 1. Prompt 2. Annc 3. INT MOH 4. EXT MOH 5.VMIB MOH1 6.VMIB MOH2 7.VMIB MOH3 8.VMIB MOH4 (MBX IP 300 only) 9.SLT MOH1 10.SLT MOH2 11.SLT MOH3 12.SLT MOH4 13.SLT MOH5	0
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	04
Greeting Prompt/Announcement Table No(PGM259)	Determines greeting prompt/annc number in case greeting type is PROMPT or ANNC.	001-255	NOT ASG
Greeting Repeat Count	Determines greeting repeat number	000-100	3
Greeting Repeat Delay Timer	Determines pause timer amount before greeting repeat.	000-100 (seconds)	0

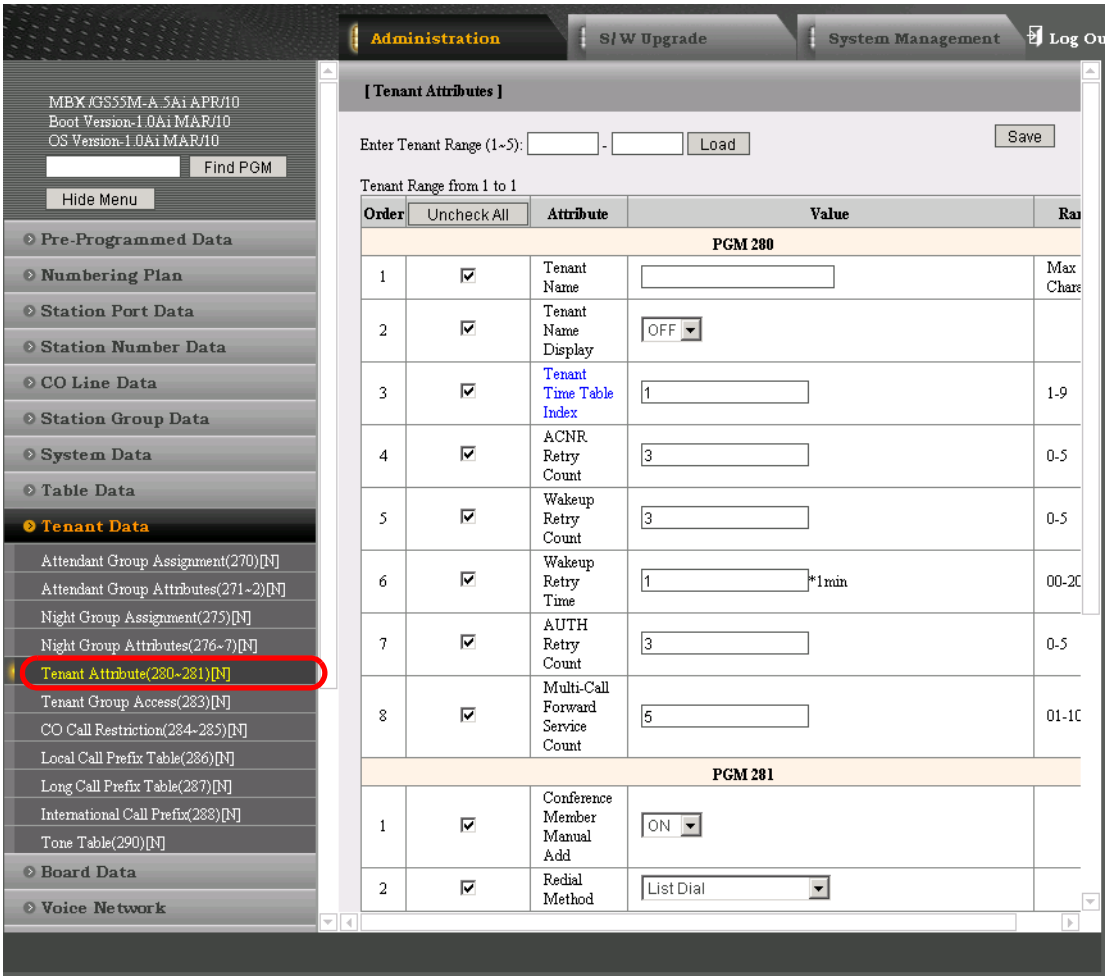
ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Queuing Tone Type	Determines the type of queuing tone.	0. Normal 1. Prompt 2. Annc 3. INT MOH 4. EXT MOH 5.VMIB MOH1 6.VMIB MOH2 7.VMIB MOH3 8.VMIB MOH4 (MBX 300 only) 9.SLT MOH1 10.SLT MOH2 11.SLT MOH3 12.SLT MOH4 13.SLT MOH5	3
Queuing Forward/Second Queuing Annc. Timer	Determines queuing forward/second annc timer	010-300 (seconds)	30
Queuing Tone No	Determines tone number in case queuing type is normal.	01-19	NOT ASG
Queuing Prompt/Announcement Table No(PGM259)	Determines queuing prompt / annc number when queuing type is PROMPT/ANNC.	001-255	NOT ASG
Queuing Repeat Count	Determines queuing repeat number	000-100	3
Queuing Repeat Delay Timer	Determines the pause timer before queuing repeat.	000-100 (seconds)	0
CCR during First Queuing Announcement	This entry defines CCR option during queuing announcement is provided.	0-1	0

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Second Queuing Tone Type	Determines the type of queuing tone.	0. Normal 1. Prompt 2. Annc 3. INT MOH 4. EXT MOH 5.VMIB MOH1 6.VMIB MOH2 7.VMIB MOH3 8.VMIB MOH4 (MBX 300 only) 9.SLT MOH1 10.SLT MOH2 11.SLT MOH3 12.SLT MOH4 13.SLT MOH5	3
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.	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	1
Max Queue Count	Determines queue count.	00-99	05

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 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	0
Apply Time Type	Determines a time to apply forward type.	0. ALL 1. DAY 2. NIGHT 3. TIMED	0
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
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	0

Tenant Attributes (PGM 280-281)

Selecting Tenant Attributes will display the page shown below.



One system can be divided as if it is 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.

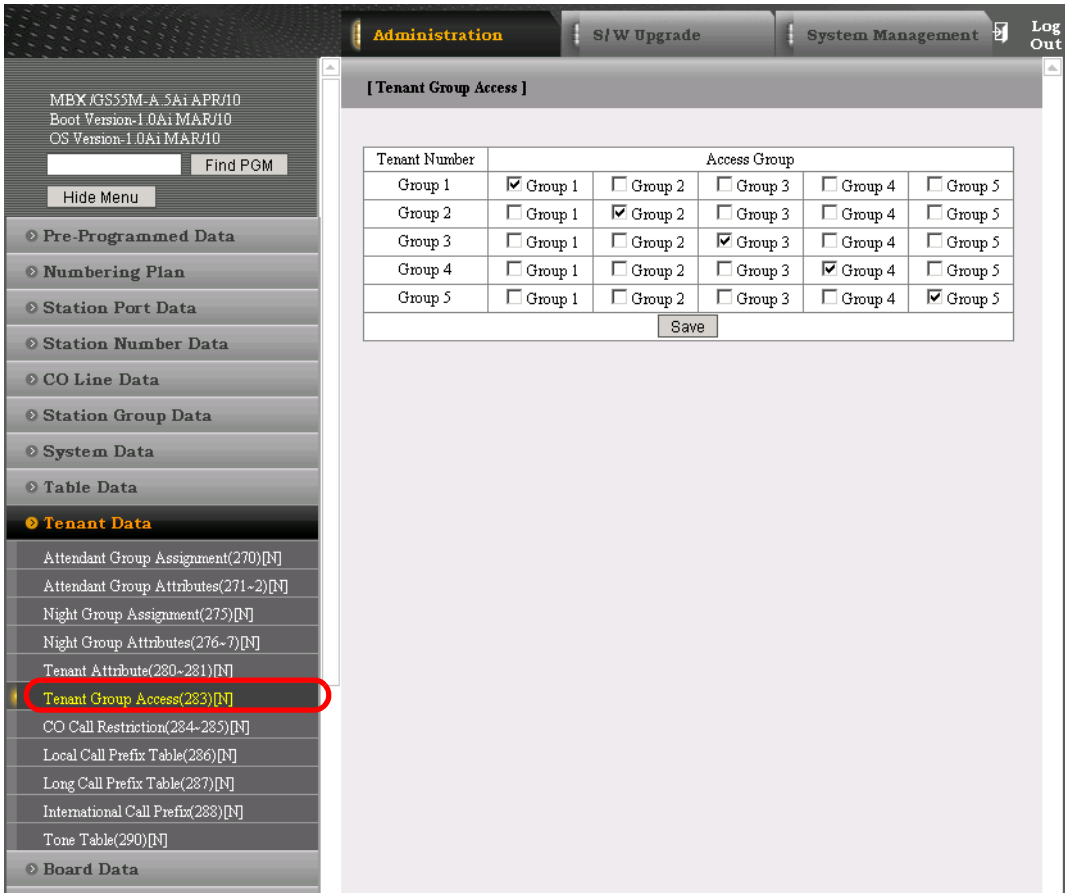
ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Tenant Name	Determines the name of Tenant.	Max 24	
Tenant Name Display	Determines Tenant name display	ON/OFF	OFF
Tenant Time Table Index	Time Table index of tenant group	1-9	1
ACNR Retry Count	Determines ACNR retry count	0-5	3
Wake Up Retry Count	Determines Wakeup retry count	0-5	3
Wake Up Retry Time	Determines Wakeup retry time (min)	00-20	01
Autho Retry Count	Determines Auth. retry count	0-5	3
Multi-Call Forward Service Count	Determines Multi Call forward count	01-10	05
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.	0-2	2:LIST DIAL

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	0-2	2: 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.729 G.723 G.722	G.711
Backlight Usage	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	0

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
CDR For Prefix Unmatched Calls	This entry defines default Call Duration Restriction type when a called party number is not match with prefix table.	0.No CDR 1.Local Call CDR 2.Long Call CDR 3.Intl Call CDR 4.Dedicated Call CDR	0

Tenant Group Access (PGM 283)

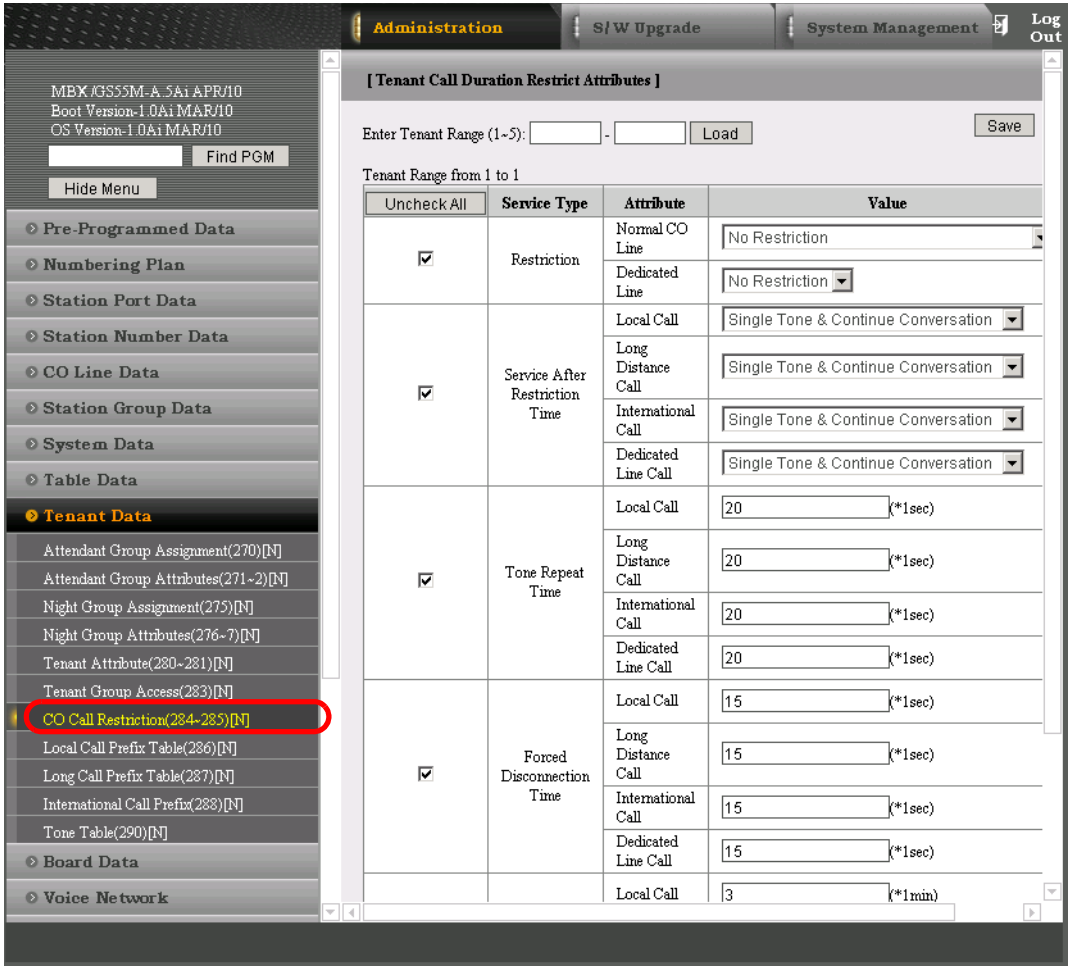
Selecting Tenant Group Access will display the page shown below.



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.

CO Call Restriction (PGM 284-285)

Selecting CO Call Restriction will display the page shown below.



Tenant Call Duration Restrict Attributes

Call time restriction can be applied differently according to call type (Local, Long Distance, or International call) based on Tenant.

Each tenant has available attributes related to Call Duration restriction according to call types.

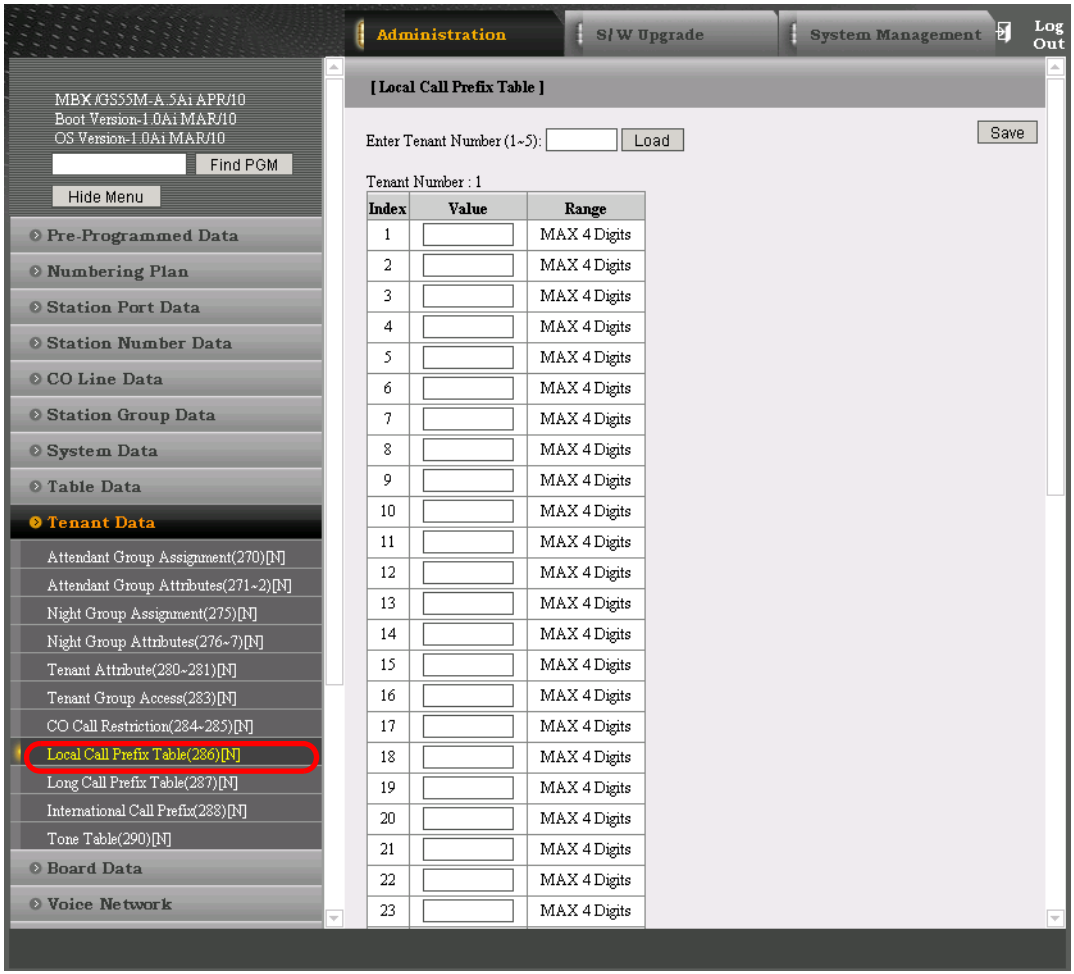
Call Duration Restriction

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Restriction (Normal CO Line)	Determines restriction of Normal CO line. No restriction All call Long/International call International call	0-3	0
Restriction (Dedicated CO Line)	Determines restriction of TIE line. 0 : No restriction 1 : Restriction	0-1	0
Service After Restriction Time (Local Call)	Determines the operation of Local calls after restriction time expires. 0. Single tone 1. Repeat tone 2. Single tone & Drop	0-2	0
Service After Restriction Time (Long Distance Call)	Determines the operation of Long Distance calls after restriction time expires. 0. Single tone 1. Repeat tone 2. Single tone & Drop	0-2	0
Service After Restriction Time (International Call)	Determines the operation of International calls after restriction time expires. 0. Single tone 1. Repeat tone 2. Single tone & Drop	0-2	0
Service After Restriction Time (Dedicated Call)	Determines the operation of TIE calls after restriction time expires. 0. Single tone 1. Repeat tone 2. Single tone & Drop	0-2	0
Tone Repeat Time (Local Call)	Determines tone repeat timer of Local call.	010-254	020
Tone Repeat Time (Long Call)	Determines tone repeat timer of Long Distance call.	010-254	020
Tone Repeat Time (International Call)	Determines tone repeat timer of International call.	010-254	020

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
Tone Repeat Time (Dedicated Call)	Determines tone repeat timer of Dedicated Line call.	010-254	020
Forced Disconnection Time (Local Call)	Determines disconnect timer of Local call.	10-60	15
Forced Disconnection Time (Long Call)	Determines disconnect timer of Long Distance call.	10-60	15
Forced Disconnection Time (International Call)	Determines disconnect timer of International call.	10-60	15
Forced Disconnection Time (Dedicated Call)	This entry defines disconnect timer of Dedicated Line call.	10-60	15
Call Restriction Time (Local Call)	This entry defines restriction timer of Local call.	001-100	003
Call Restriction Time (Long Call)	This entry defines restriction timer for Long Distance calls.	001-100	003
Call Restriction Time (International Call)	This entry defines restriction timer of International call.	001-100	003
Call Restriction Time (Dedicated Call)	This entry defines restriction timer of Dedicated Line call.	001-100	003

Local Call Prefix Tables (PGM 286)

Selecting Local Call Prefix Table will display the page shown below:

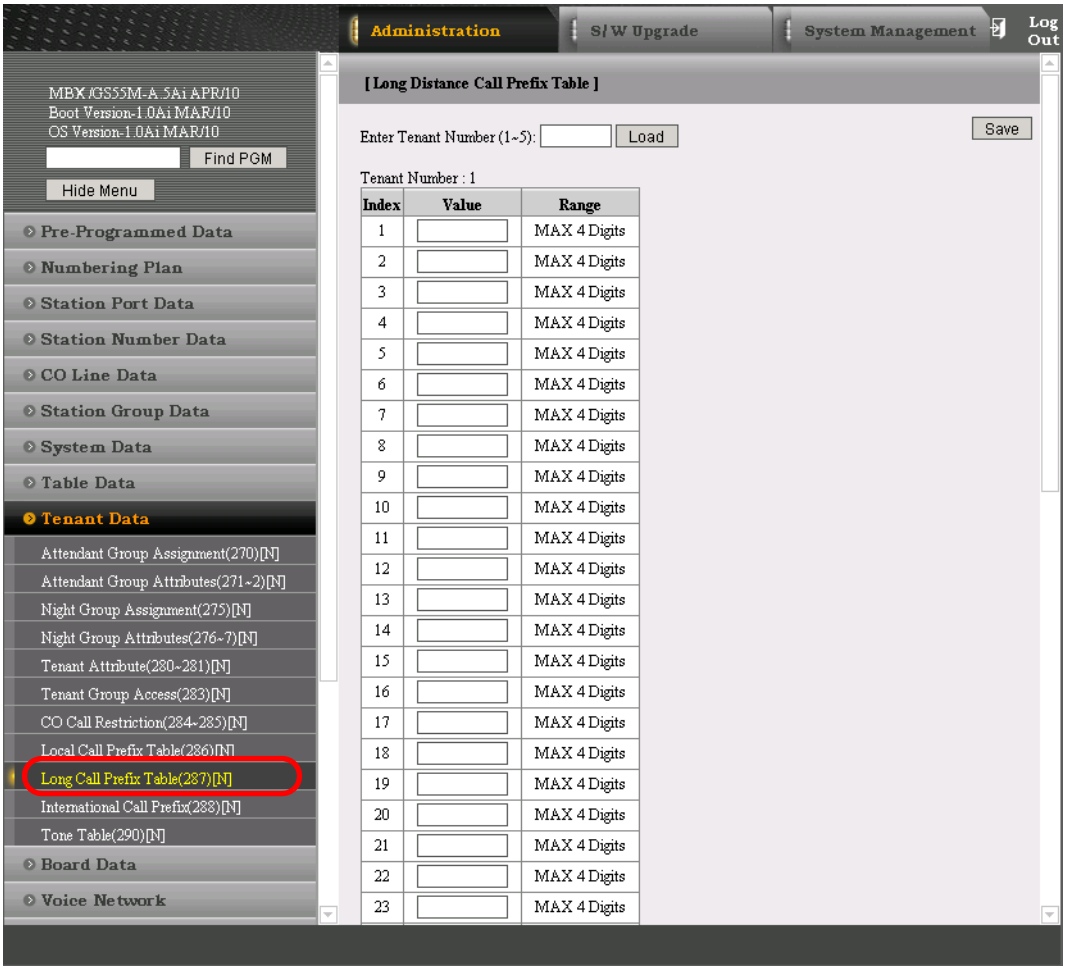


The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table based on the Tenant.

Each tenant has a Local Call Prefix table related to CDR.

Long Distance Call Prefix Tables (PGM 287)

Selecting Long Call Prefix Table will display the Tenant page shown below..

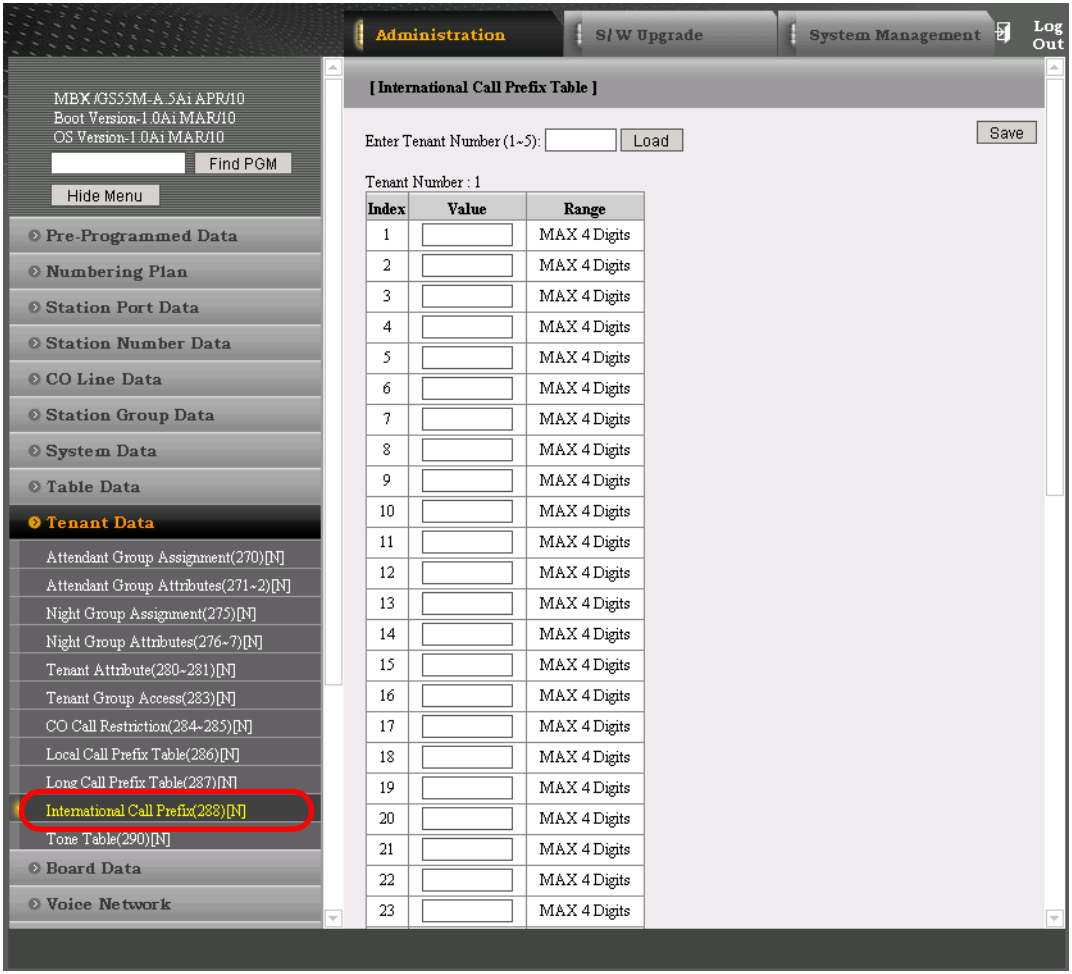


The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table based on Tenant.

Each tenant has a Long Distance Call Prefix table related to (CDR).

International Call Prefix Tables (PGM 288)

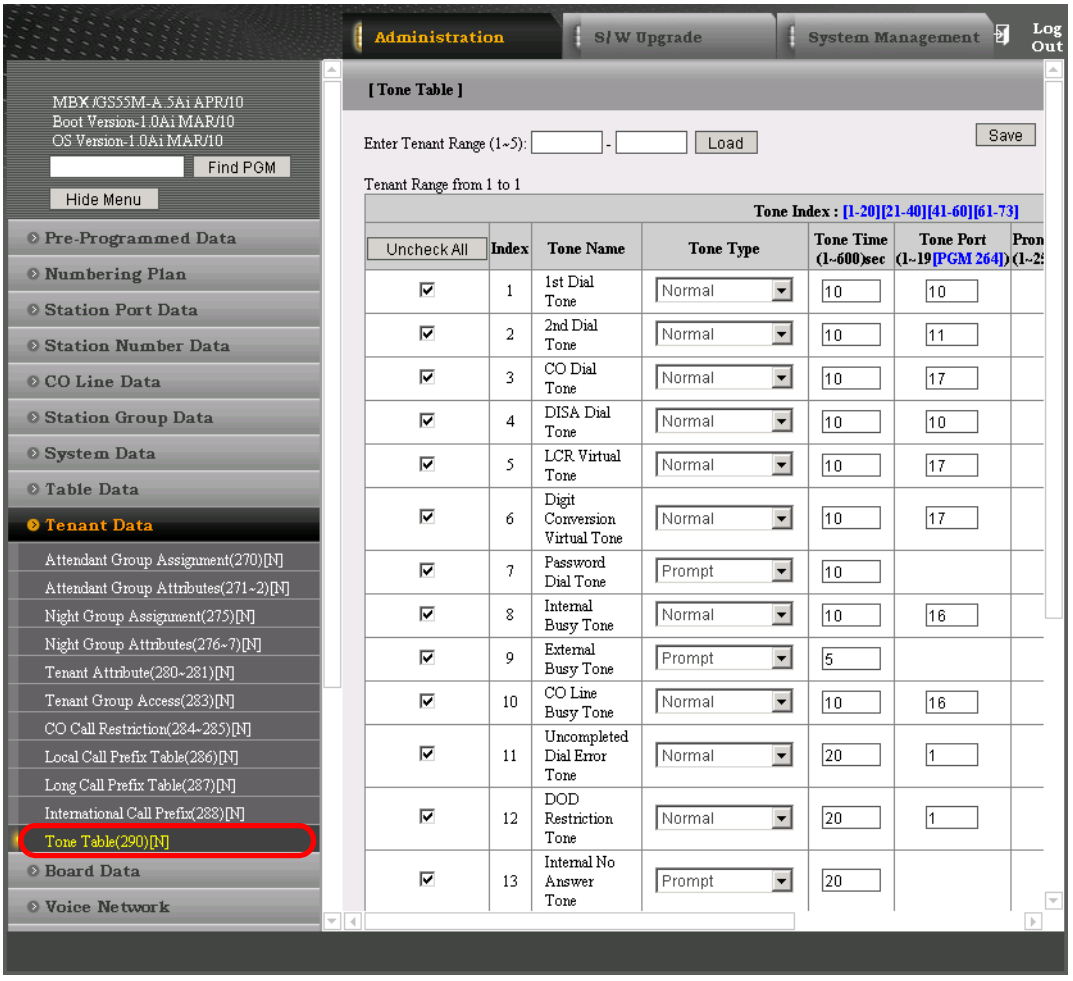
Selecting International Call Prefix Table will display the page shown below.



The call type for Call Duration Restriction (CDR) can be applied differently according to the call Prefix Table based on Tenant. Each tenant has an International Call Prefix table related to CDR.

Tenant Tone Tables (PGM 290)

Selecting Tone Table will display the page shown below..



The system provides 71 tone types. Each tone may be assigned as normal tone, VMIB prompt/Announcement or internal/external music.

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	1 ;Normal Tone
Tone Time	Determines the amount of time the tone is provided	1-600	10
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 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	1
Prompt / Announcement Interval	The VMIB Prompt or Announcement Repeat interval when VMIB Prompt or announcement. Repeat is assigned.	0-100	0

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.

INDEX	TONE NAME	DESCRIPTION
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.
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

INDEX	TONE NAME	DESCRIPTION
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
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.

INDEX	TONE NAME	DESCRIPTION
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

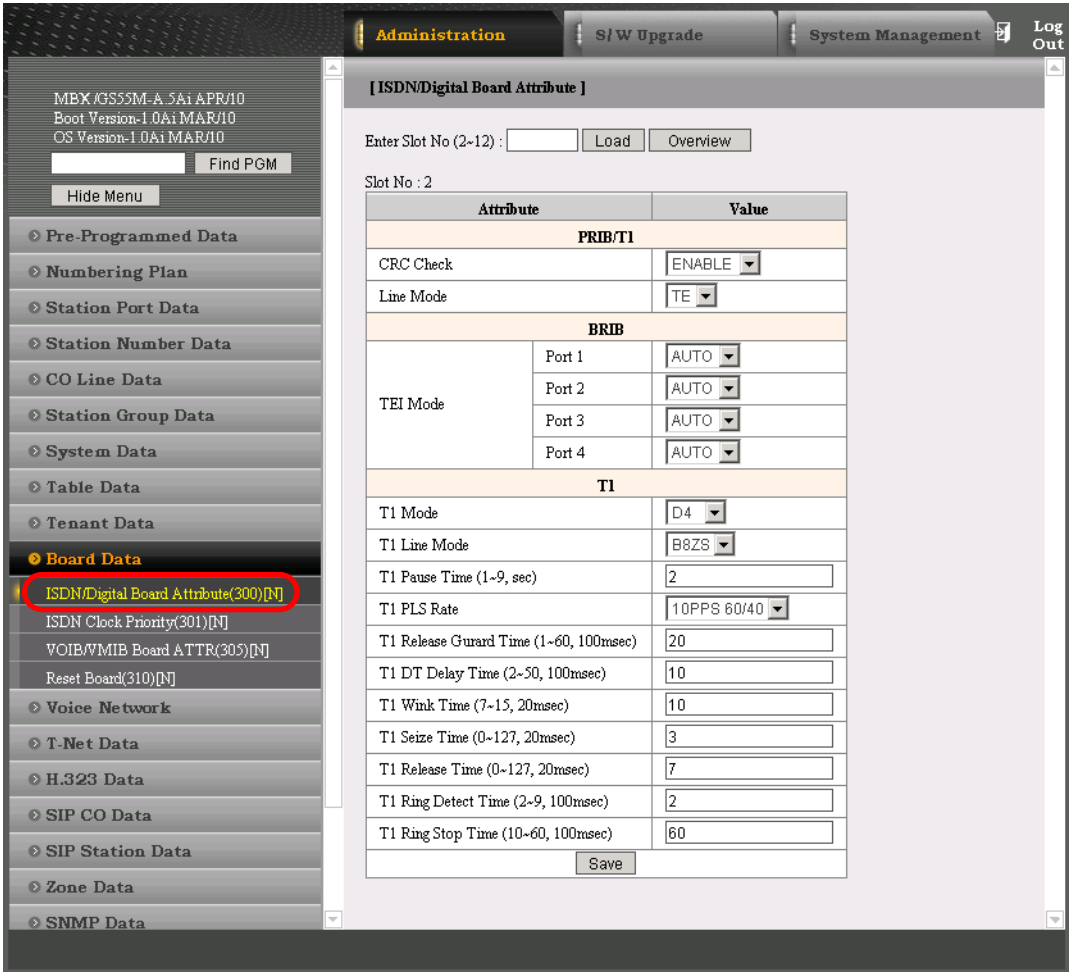
Board Data

Selecting the Board Data program group returns the sub-menus shown below..

- ISDN/Digital Board Attribute (300)
- ISDN Clock Priority (301)
- VOIB/VMIB Board ATTR (305)
- Reset Board (310)

ISDN Board Attribute (PGM 300)

Selecting ISDN Board Attributes will display the page show below.



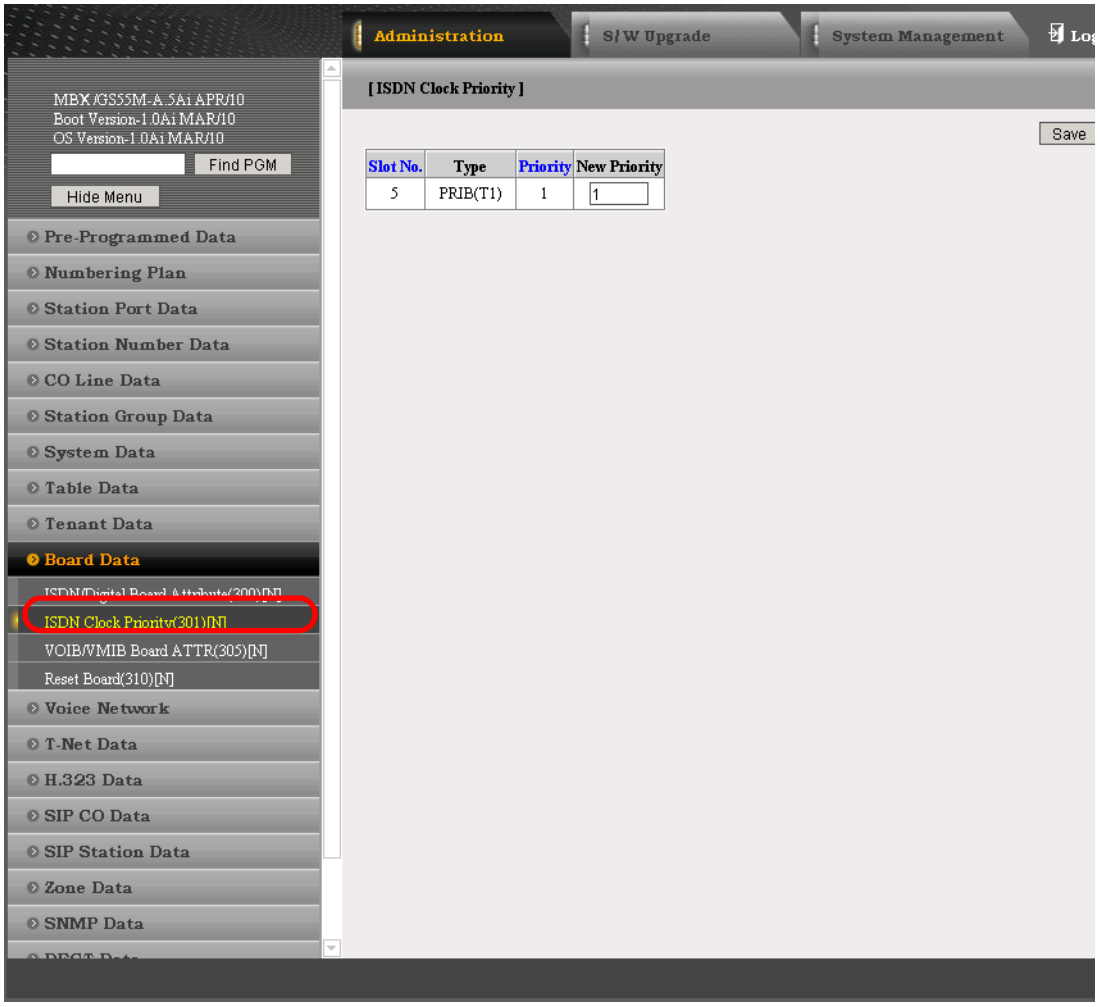
PRIB boards have the following attributes which can be programmed using the Web Admin.

ISDN Board Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PRIB CRC Check	Enable CRC check of PRIB.	Disable/ Enable	Enable
PRIB Line Mode	NT/ TE mode of PRIB; after changing mode, the board is automatically restarted.	TE / NT	TE
BRIB TEI Mode (n/a	TEI mode of BRIB Port 1/2/3/4	Fixed / Auto	Auto
T1 Mode	T1 Mode (D4/ESF)	0:D4 1:ESF	0
T1 Line Mode	T1 Line Mode (B8ZS/AMI)	0:B8ZS 1:AMI	0
T1 Pause Time	T1 Pause Time (100 msec)	1-9	2
T1 PLS Rate	T1 PLS Rate	0-3	0
T1 Release Guard Time	T1 release guard time (100 msec)	0-60	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

ISDN Board Clock Priority (PGM 301)

Selecting ISDN Board Clock Priority Attributes will display the page shown below.

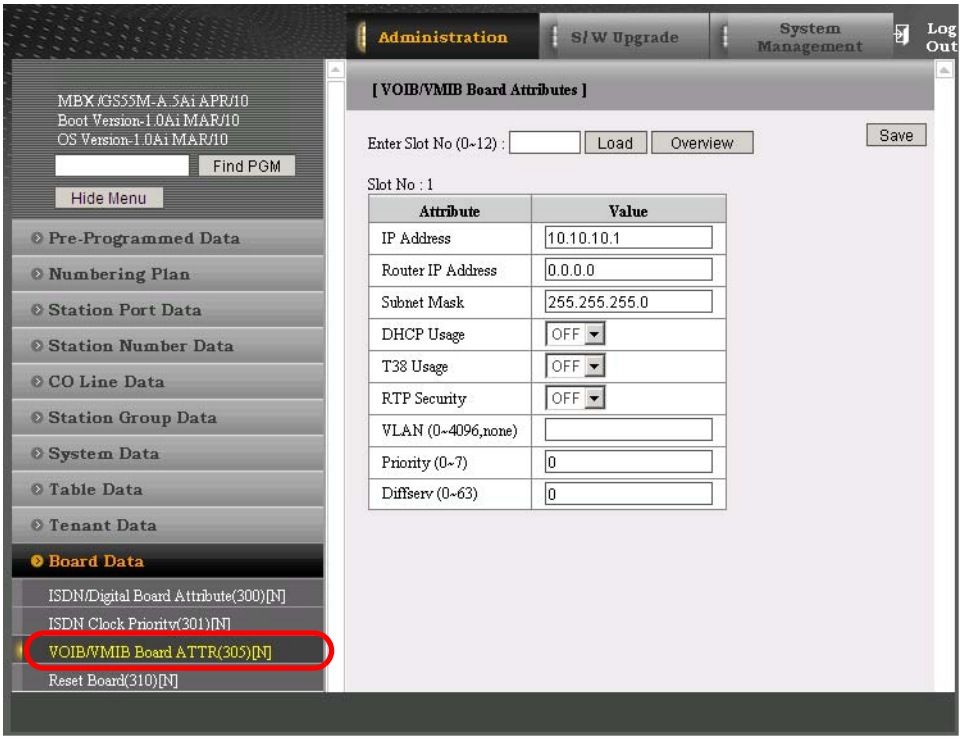


In the MBX IP system, clock synchronization is controlled by the pre-programmed ISDN clock priority. The first ISDN board becomes a clock master board. If an error occurs to a clock master board, the next board takes on the role of a master clock.

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

VOIB/VMIB Board Attribute (PGM 305)

Selecting VOIB/VMIB Attributes will display the following page:

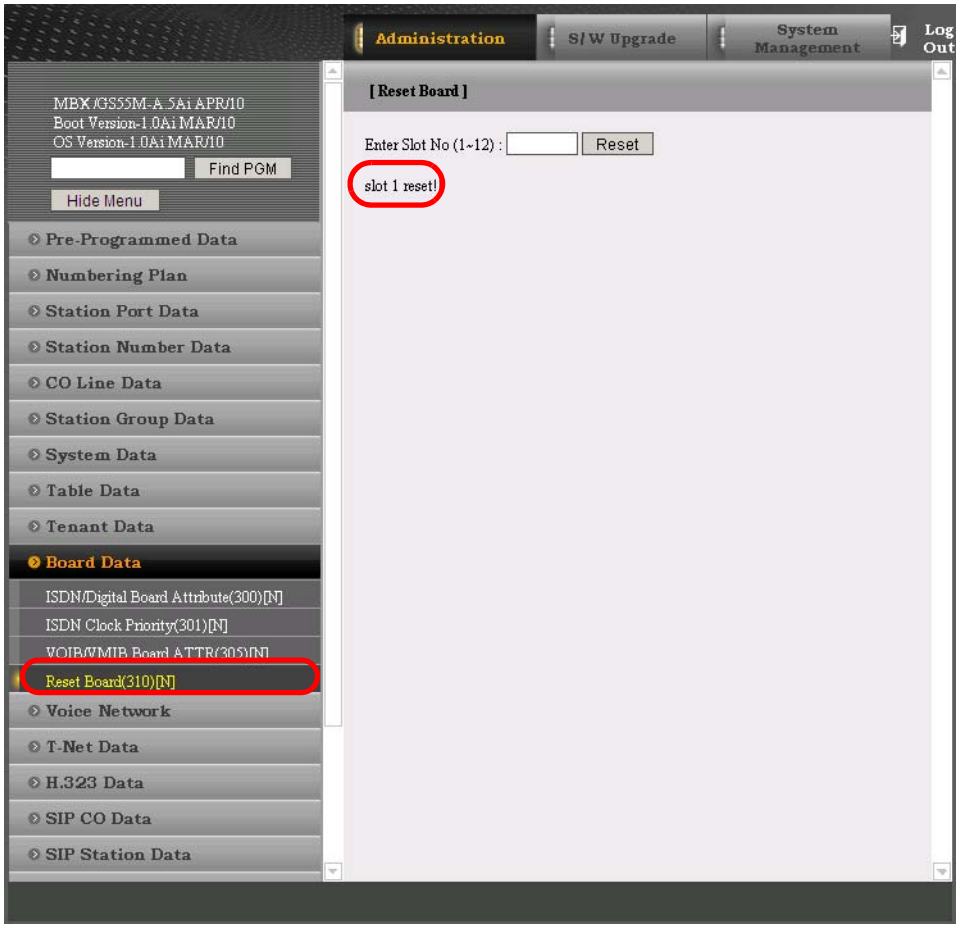


ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
IP Address	IP Address of selected slot.	IP Address	10. 10. 10. # (#: slot number)
Router IP Address	Router IP Address of selected slot.	IP Address	0.0.0.0
Subnet Mask	Subnet Mask of selected slot.	IP Address	255.255.255.0
DHCP Usage	DHCP Usage.	Off/On	Off
T38 Usage	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

Reset Board (PGM 310)

Each board in the system can be reset with this menu.

Enter the board number and click the Reset button. The window will return with "slot x reset!!"



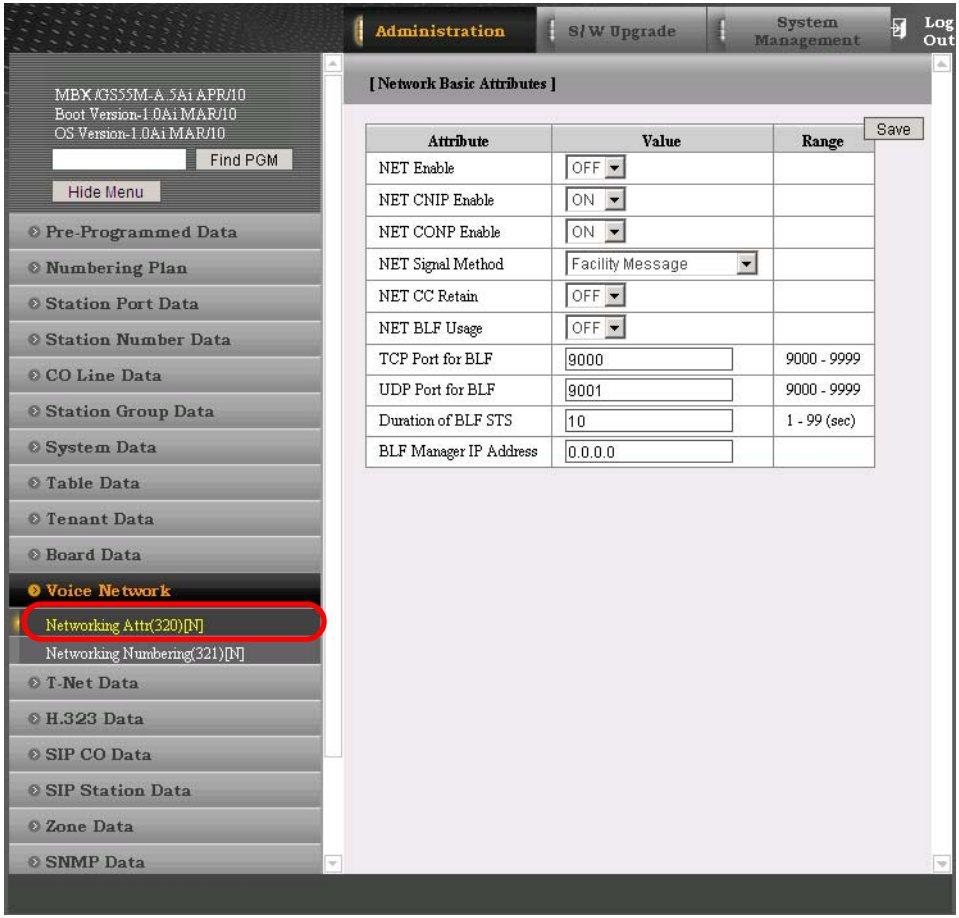
Networking Data

Selecting the Networking Data program group returns the following sub-menus displayed.

- Networking Attr (320)
- Networking Numbering (321)

Net Basic Attribute (PGM 320)

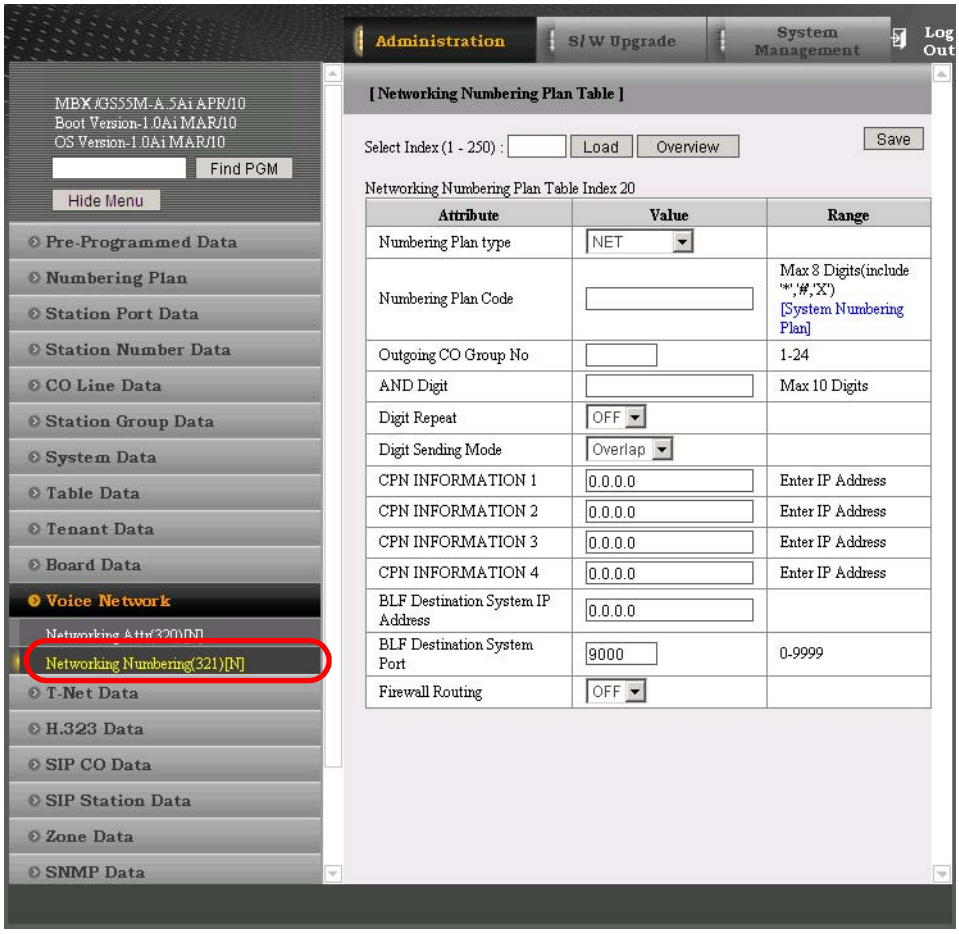
Selecting Network Attributes will display the page shown below.



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 MBX IP systems. CNIP is displayed at called party stations display based on the programming.	OFF/ON	ON
NET CONP Enable	Reserved	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
TCP Port for BLF	TCP port for sending BLF message to BLF Manager	9000-9999	9000
UDP Port for BLF	UDP port for sending BLF message to BLF Manager	9000-9999	9001
Duration of BLF STS	Duration of BLF status message sending to BLF Server.	01-99	10
BLF Manager IP Address	IP Address of BLF Server used only when MBX IP is configured with other systems for Voice Networking (Reserved)		0.0.0.0

Net Numbering Plan Table (PGM321)

Selecting Network Numbering Plan Table will display the page shown below.



Network Numbering Plan

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Numbering Plan Type	Select Number Type	NET / TRANSIT	NET
Numbering Plan Code	"X" means any digits can be inserted between 0-9. (Select "MUTE" button for input "X".)	8 digits	-
Outgoing CO Group No	CO Group Number	01-72	-
AND Digit	AND Digit	10 digits	-
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	Select digit sending mode (Overlap or Enblock)	Enblock / Overlap	OVERLAP
CPN Information	VOIP CPN INFO	Enter IP address	0.0.0.0
BLF Destination System IP Address	IP Address of BLF Server used only when MBX IP is configured with other systems for Voice Networking	Enter IP address	0.0.0.0
BLF Destination System Port	UDP port for sending BLF message to BLF Manager.	-	9500
Firewall Routing	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

T-Net Data

Selecting the TNET Data program group returns the sub-menus shown below.

- T-Net Attribute (330)
- CM Attribute (331)
- FoPSTN Attribute (333)
- T-Net Board Attribute (334)
- IP-Phone T-Net Enable (335)

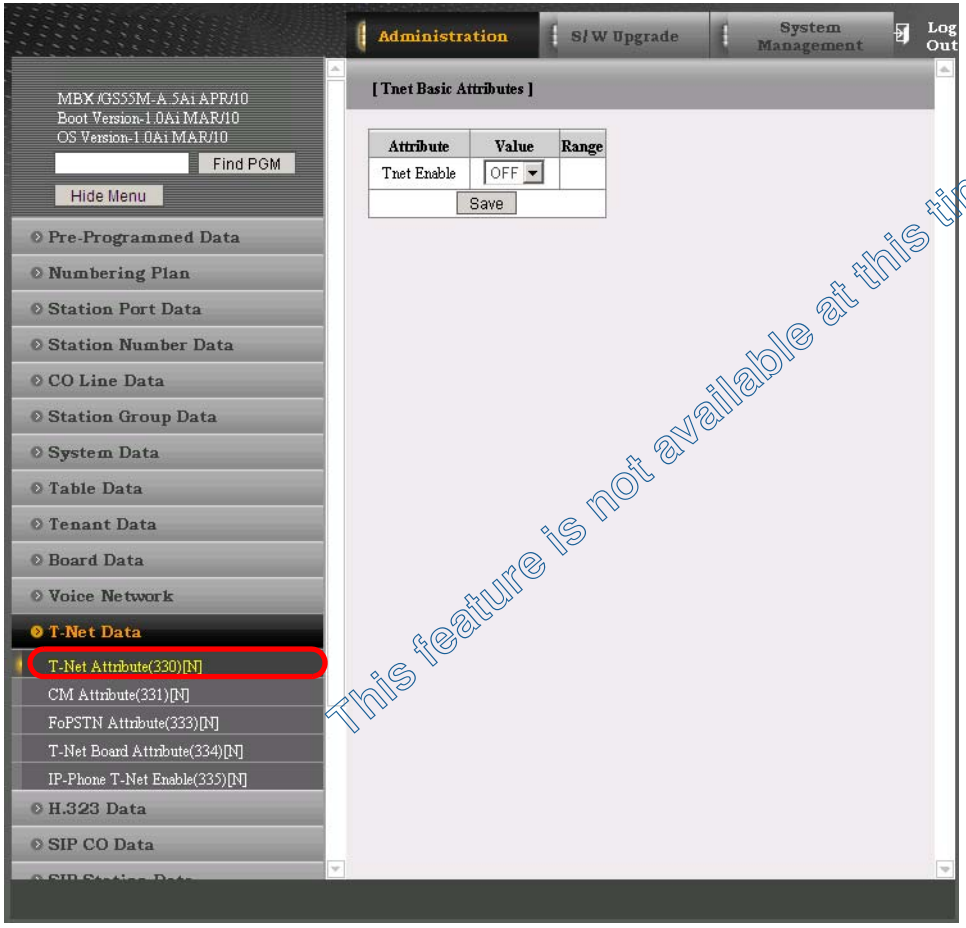
In a Centralized Control TNET (Transparent Networking), remote devices may be registered to a Central MFIM (CM) and to a Local MFIM (LM). In this way, the CM maintains control of the remote device.

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.

T-Net Attribute (PGM 330)

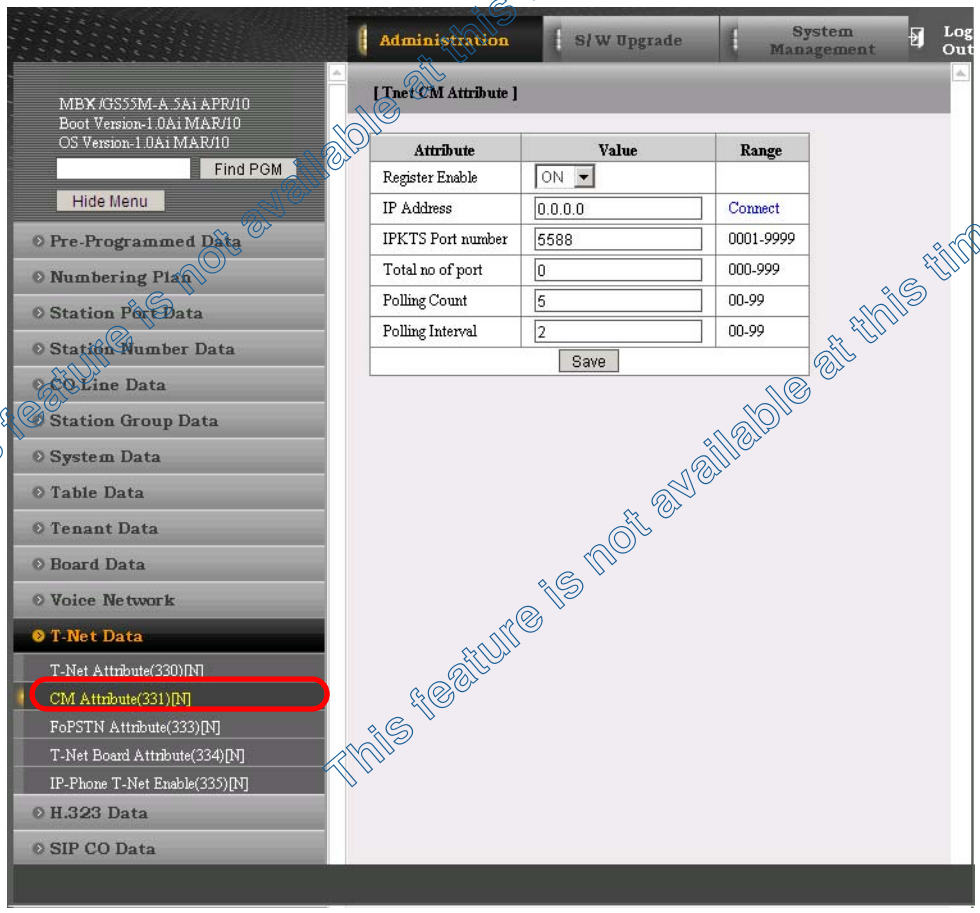
Selecting T-Net Attributes will display the page shown below..



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

CM Attribute (PGM 331)

Selecting CM Attributes will display the page shown below.



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.

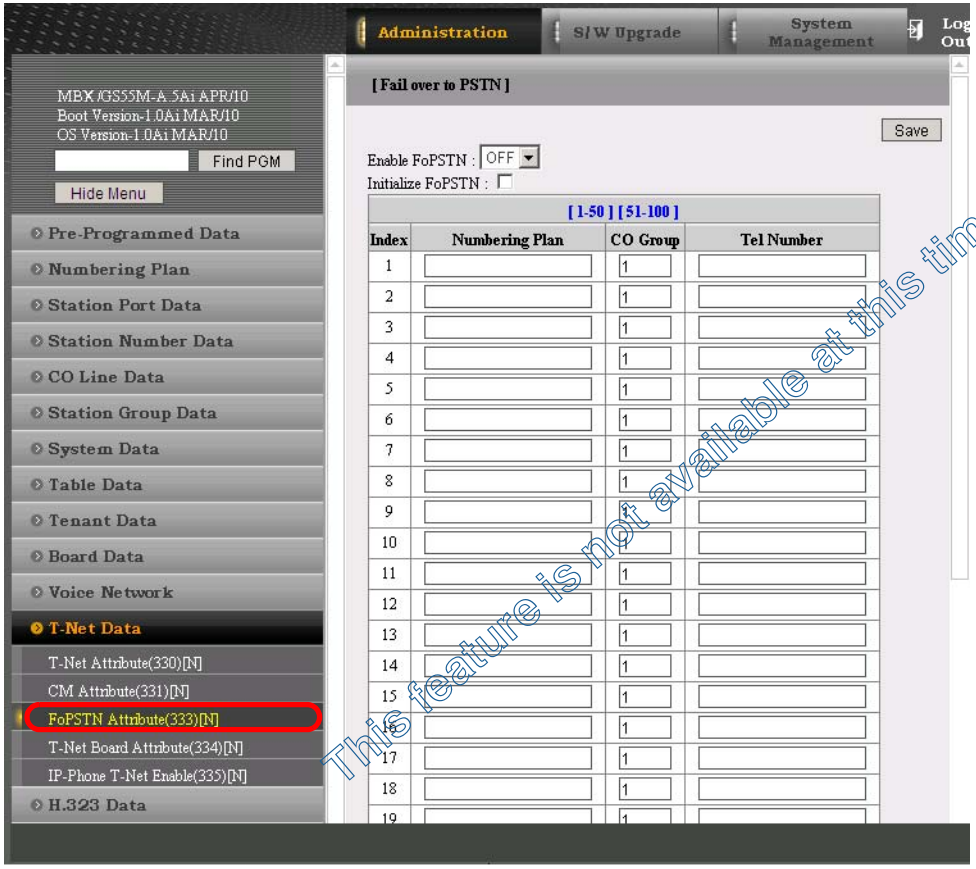
Total port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM must be equal or less than the ports defined in the CM for the LM (refer to PGM 332).

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). RESERVED	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

FoPSTN Attribute (PGM 333)

Selecting FoPSTN table will display the page shown below.



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.

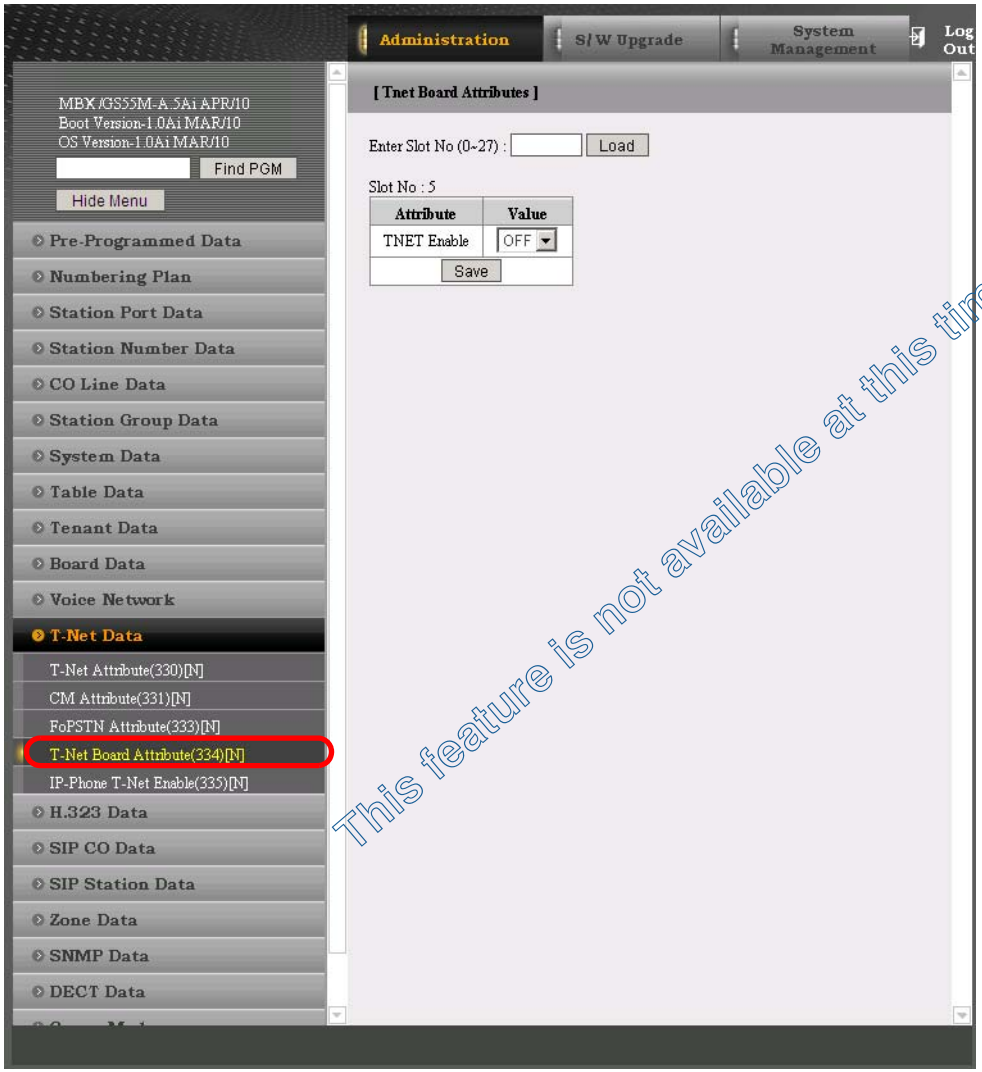
When calls are directed to a DID line at the receiving system, the system will select a line from the assigned CO Group and dial the telephone number with the station number dialed as the trailing digits.

FoPSTN Attributes

DISPLAY	DESCRIPTION	RANGE	DEFAULT
Enable FoPSTN	This field is used to enable or disable FoIP over operation from the CM or LM.	0: OFF 1: ON	OFF
Initialize FoPSTN	Initializes the FO table.	-	-
Index	-	1-100 (MBX IP-100) 1-200 (MBX IP-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 (MBX IP-100) 1-72 (MBX IP-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	-

T-Net Board Attribute (PGM 334)

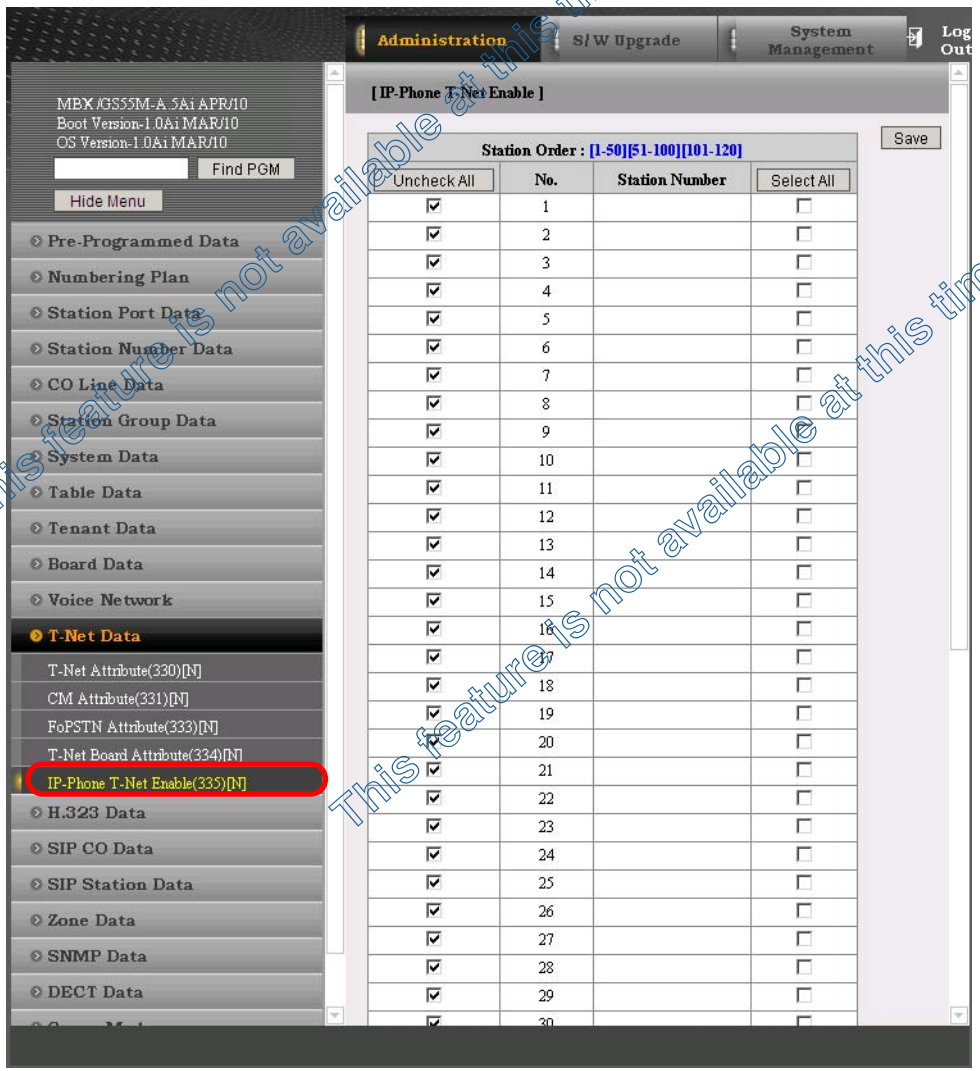
Selecting T-Net Board Attribute will display the page shown below..



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

IP-Phone T-Net Enable (PGM 335)

Selecting IP-Phone T-Net Enable will display the page shown below.



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

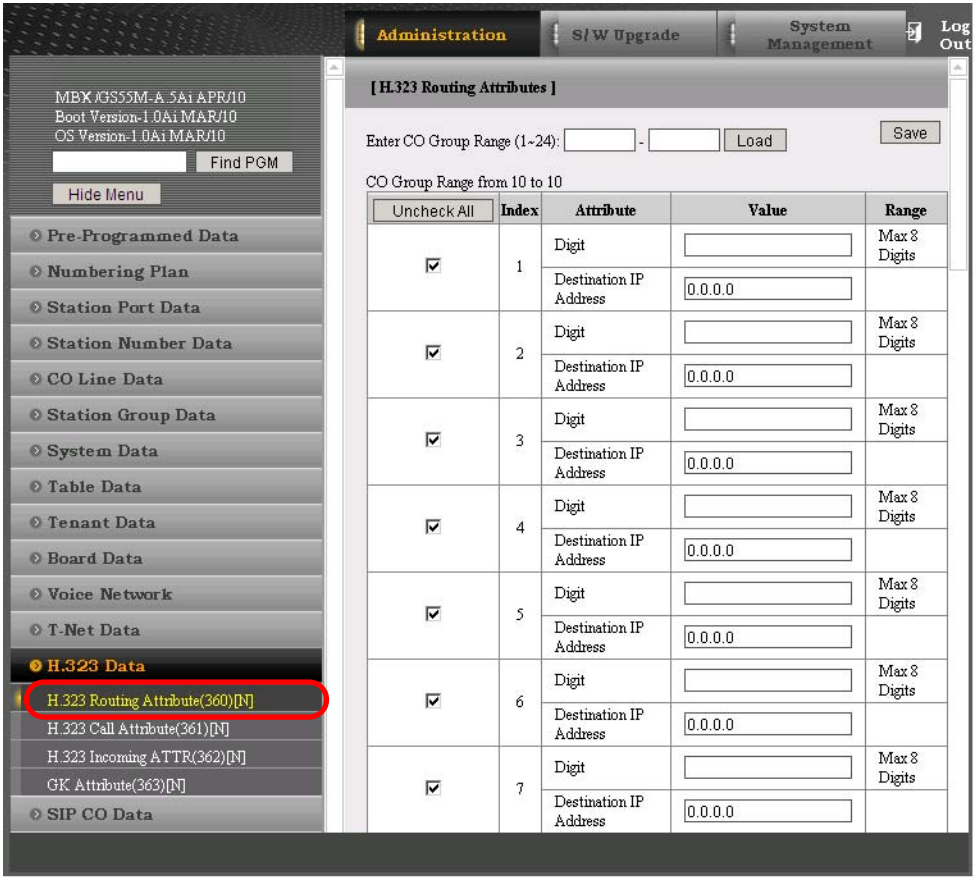
H.323 Data

Selecting the H.323 Data program group returns the sub-menus shown below.

- H.323 Routing Attribute(360)[N]
- H.323 Call Attribute(361)[N]
- H.323 Incoming ATTR(362)[N]
- GK Attribute(363)[N]

H.323 Routing Attributes (PGM360)

Selecting H.323 Routing Attributes will display the page show below..



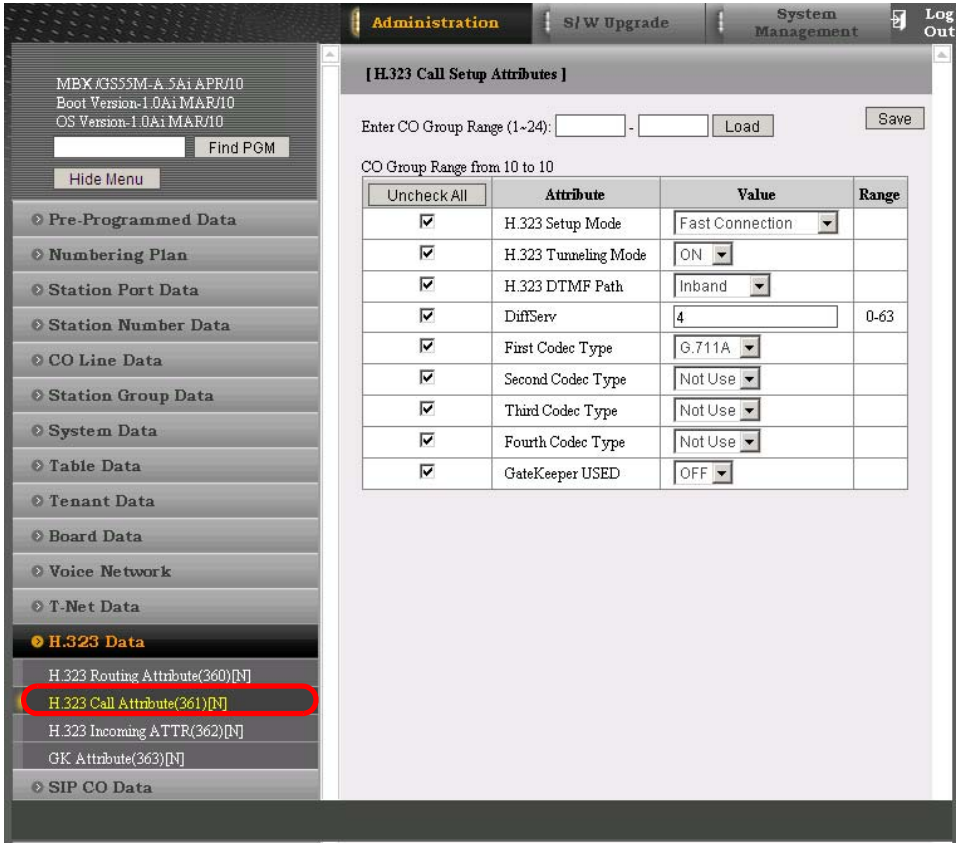
To allow direct H.323, the system assigns unique number to each H323 IP-Address. Direct H.323 can be made by dialing the assigned number.

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

H.323 Call Setup Attribute (PGM 361)

Selecting H.323 Call Setup Attributes will display the page shown below.



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

Also for H.323 support, a Registration, Admissions and Status (RAS)) channel can be defined. The RAS channel IP addresses (uni-cast and multi-cast) as well as the IP port Numbering Plan and other H.323 set-up characteristics are defined.

This PGM CODE 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.

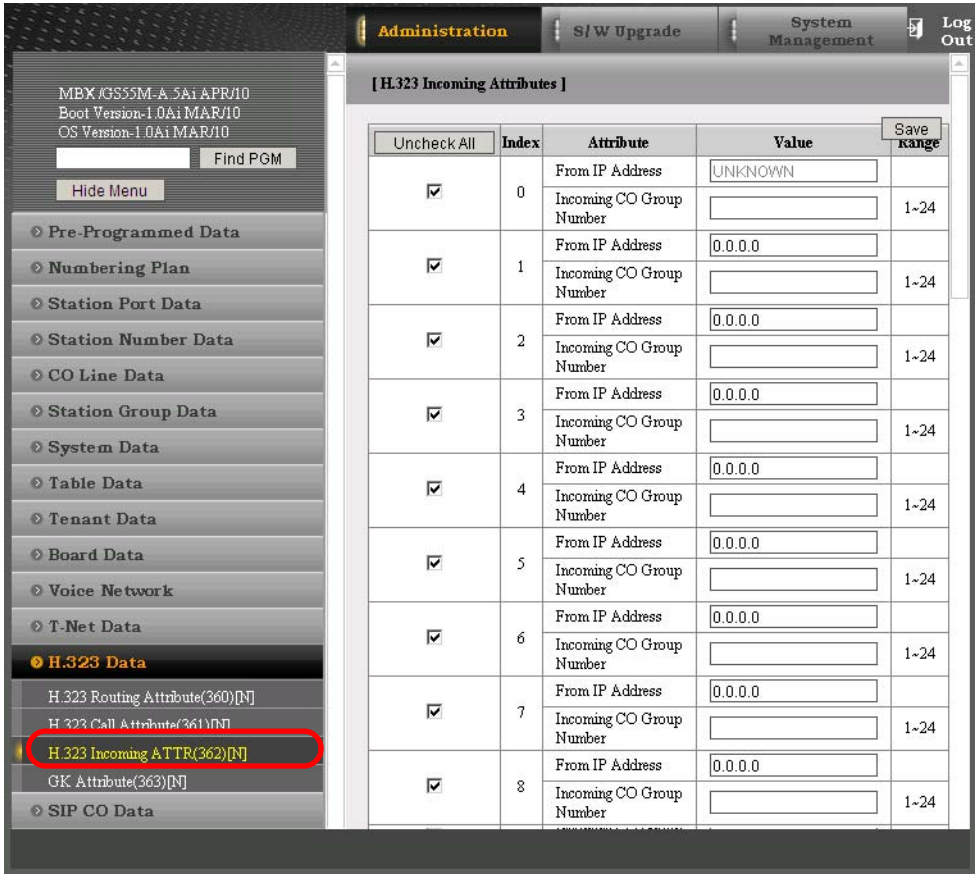
Refer to the following table for a description of the features and the input required.

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

H.323 Incoming Attributes (PGM 362)

Selecting H.323 Incoming Attributes will display the page shown below.



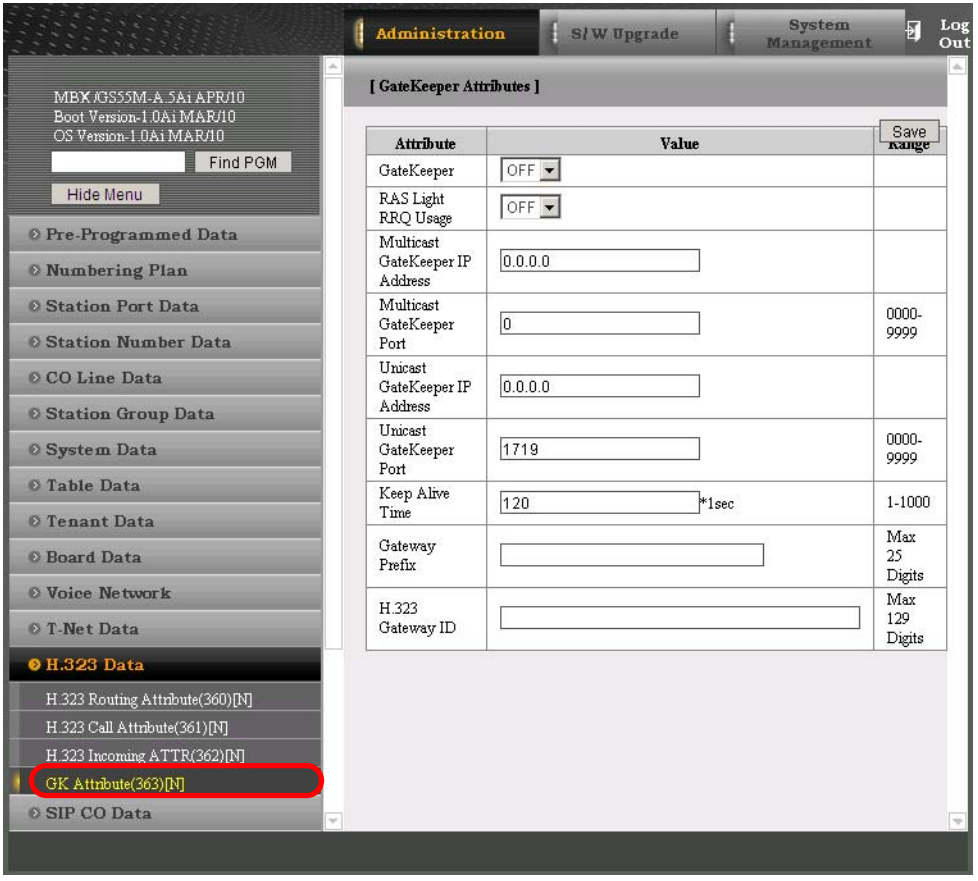
To obtain direct H.323, the "From IP-Address" and the "CO Group number: to be routed should be assigned.

H.323 VOIB Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
From IP Address	IP address associated with the H.323 incoming call.	-	0.0.0.0
Incoming CO Group Number	CO group number associated with the H.323 incoming call.	01-72	-

GateKeeper Attributes (PGM 363)

Selecting GK Attributes will display the page shown below.



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	

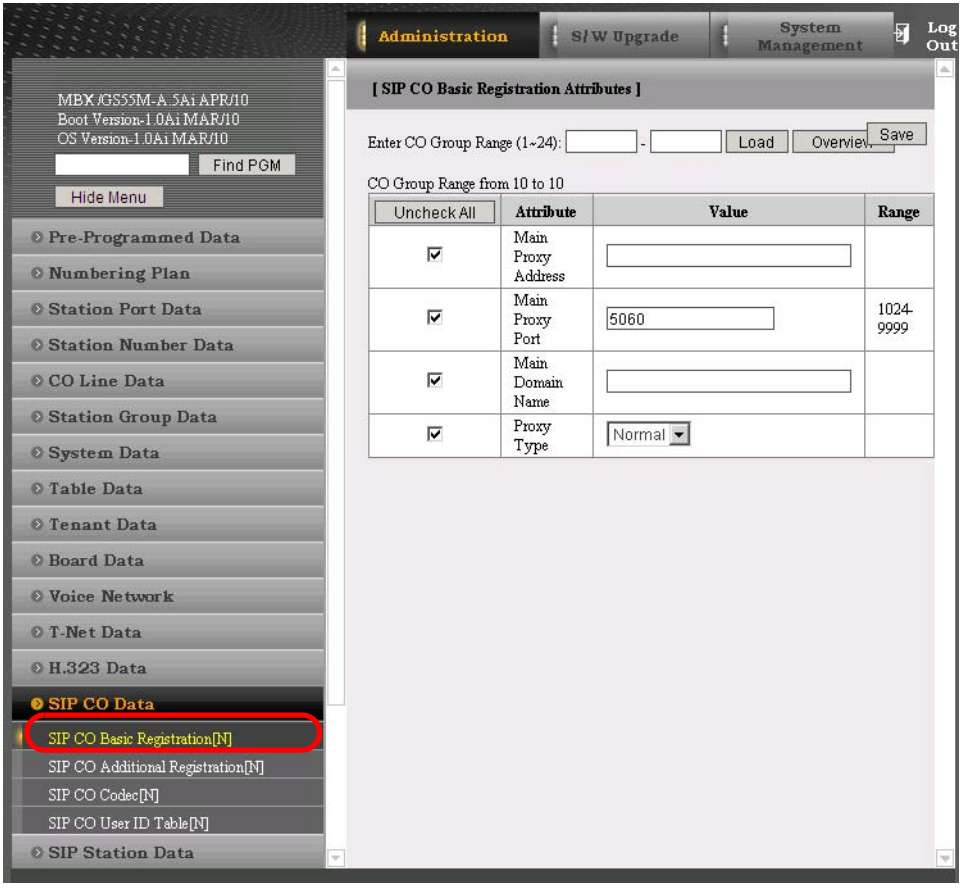
SIP CO Data

Selecting the SIP CO Data program group returns the sub-menu shown below.

- H.323 Routing Attribute (360)
- H.323 Call Attribute (361)
- H.323 Incoming ATTR (362)
- GK Attribute (363)

SIP CO Basic Registration

Selecting SIP CO Basic Registration will display the page shown below.

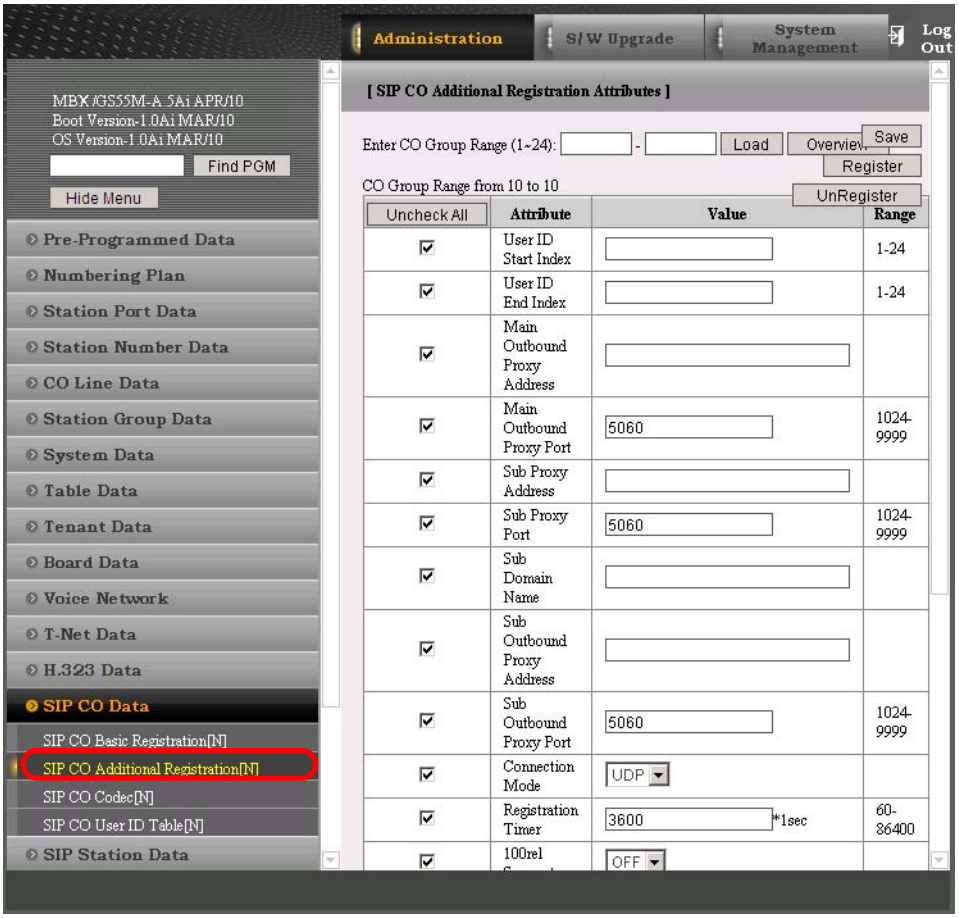


SIP CO Basic Registration Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Main Proxy Address	Main Proxy Address	-	-
Main Proxy Port	Main Proxy Port number to communicate with Main Proxy server.	1024-9999	5060
Main Domanin Name	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 Trunking.	Normal / Dacom / KT	Normal

SIP CO Additional Registration

Selecting SIP CO Additional Registration will display the page shown below..



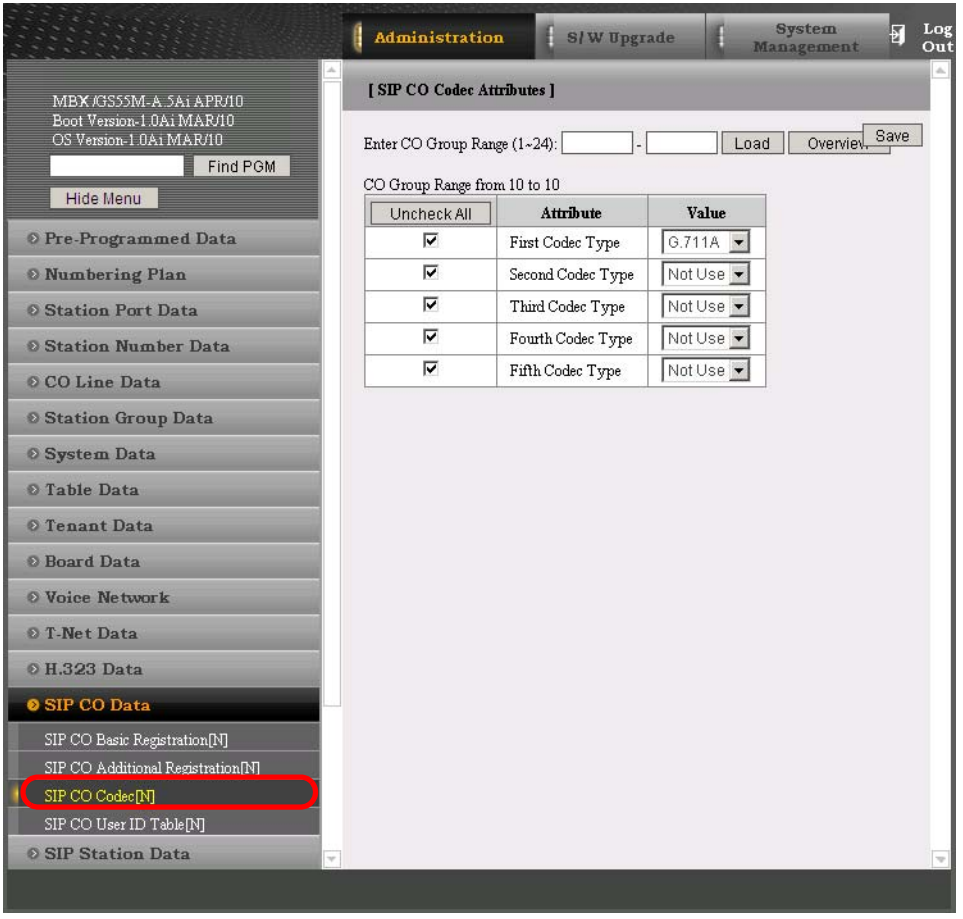
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
User ID Start Index	Sets the Start User ID Index for SIP Trunk In PGM 370	-	-
User ID End Index	Sets the End User ID Index for SIP Trunk In PGM 370	-	-
Main Outbound Proxy Address	If the Proxy Server has both a registration server and call processing server, this field indicates the call processing server address.	-	-

SIP CO Additional Registration Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
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	Maximum time to maintain the communication path.	180-3600	1800
Min Session Timer	Time interval to send check message (Re-Invite or UPDATE) by period.	60-150	90
Use 181 Message	Determines if the 181 message is used or not.	ON/OFF	OFF
Use RPORT	Determines if the RPORT is used or not.	ON/OFF	OFF
P-Asserted-Identity	Includes the P-Asserted-ID Header in SIP Message or NOT	NOT USE / USE	NOT USE
User ID Start Index	Sets the Start User ID Index for SIP Trunk In PGM 370	-	-
User ID End Index	Sets the End User ID Index for SIP Trunk In PGM 370	-	-
DTMF Send Mode	DTMF Sending Mode	IN / OUT / RFC2833	RFC2833

SIP CO Codec

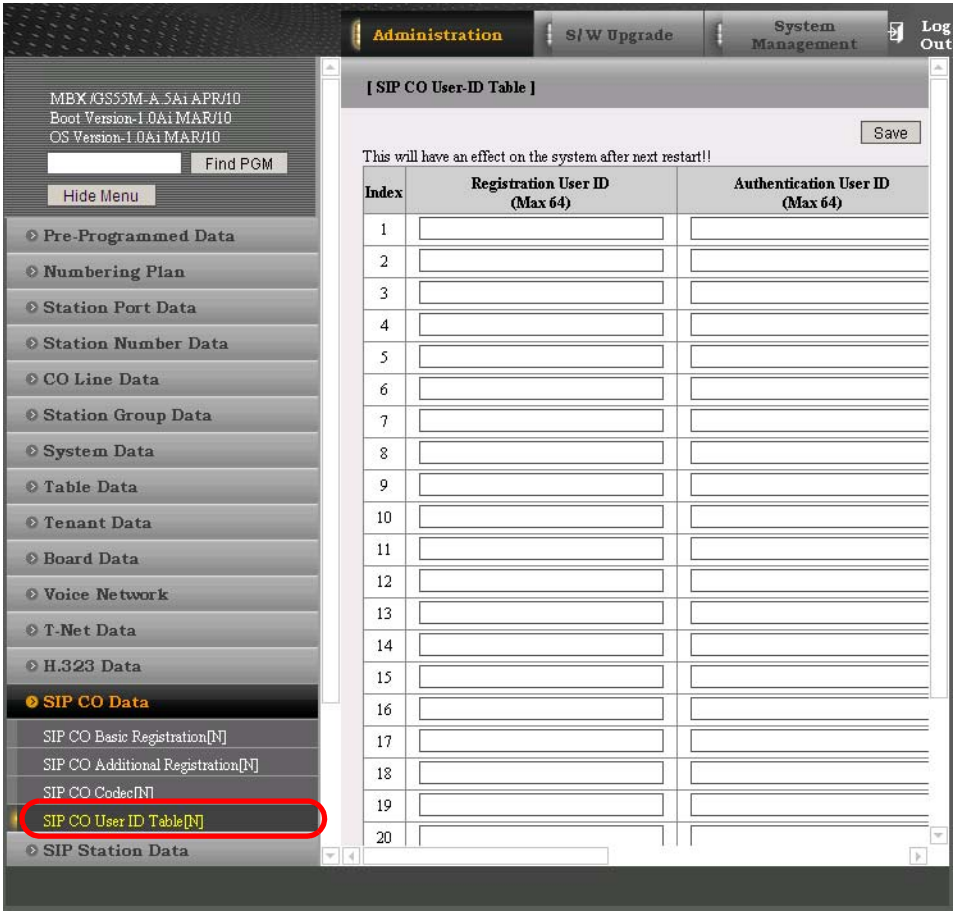
Selecting SIP CO Codec will display the page shown below..



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

SIP CO User ID Table

Selecting SIP CO User ID Table will display the page shown below.



ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registration User ID	CLI or string-type User ID to register with SIP Proxy Server.	-	-
Authentication User ID	ID for 401/407 Authentication.	-	-
Authentication User Password	Password for 401/407 Authentication.	-	-
Registration	User ID will be used to register with SIP Server or NOT.	Yes / No	No
Usage	Utilization of User ID	Yes / No	No

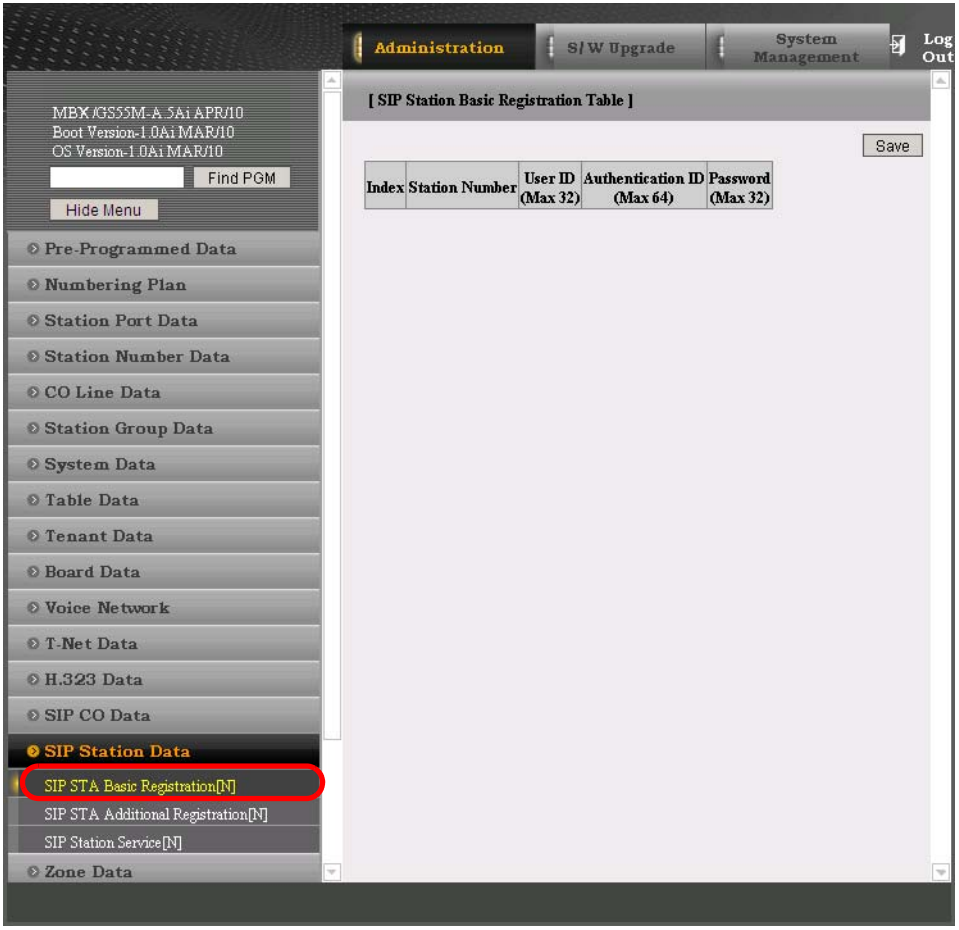
SIP Station Data

Selecting the SIP Station Data program group returns the sub-menus shown below.

- SIP STA Basic Registration
- SIP STA Additional Registration
- SIP Station Service

SIP Station Basic Registration

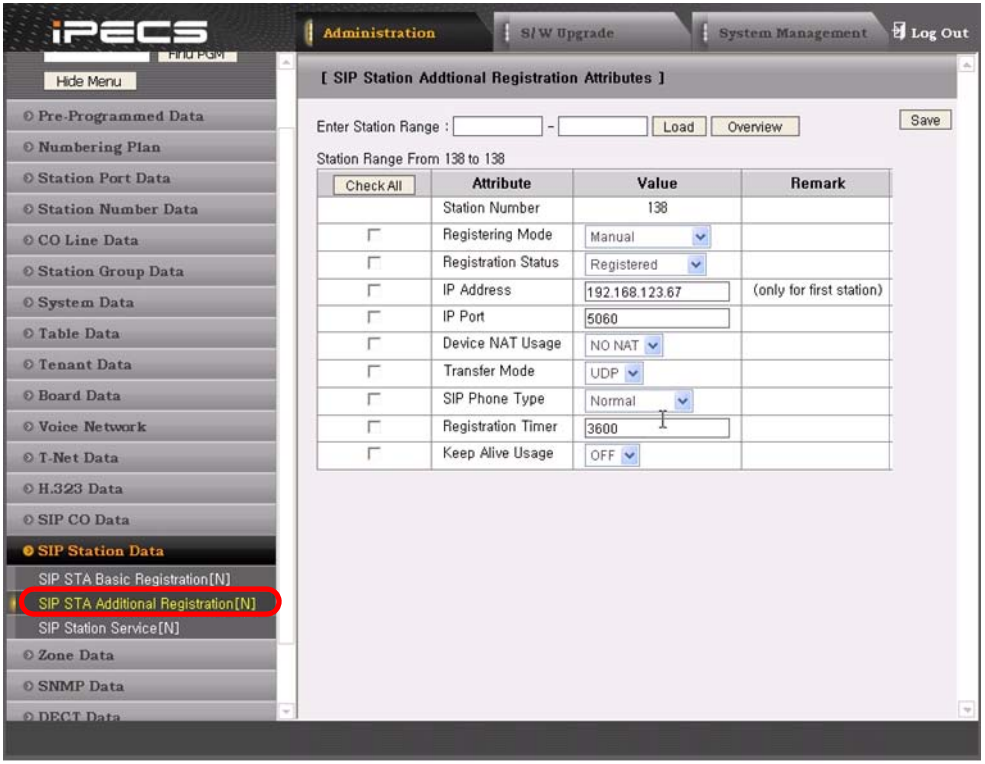
Selecting SIP CO Basic Registration will display the page shown below.



ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
User ID	SIP Ext. User ID. If MBX IP explicitly assigned the user ID for that SIP Ext., then User ID will be SIP Ext."s Station number.	-	-
Authentication ID	ID to authenticate by MBX IP, when SIP Ext. registered to MBX IP.	-	-
Password	Password to authenticate by MBX IP, when SIP Ext. registered to MBX IP.	-	-

SIP Station Additional Registration

Selecting SIP STA Additional Registration will display the page shown below..

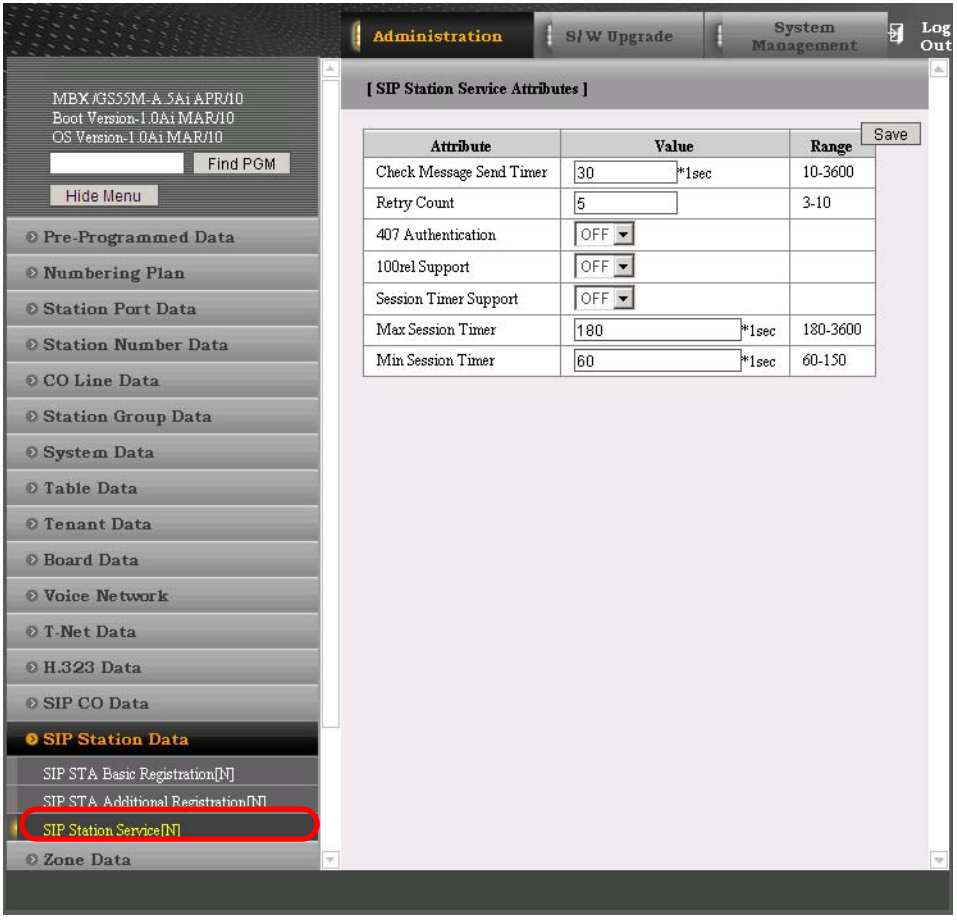


SIP STA Additional Registration Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Number	SIP Ext. Station number that assigned by MBX IP	-	-
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/UserRegister	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 MBX IP.	-	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

SIP Station Service

Selecting SIP STATION Attributes will display the page show below..



SIP Station Attribute

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Check Message Send Timer	If SIP Ext. is set to ON, then system will check the SIP Ext. status using OPTION Message. This field indicates the time interval to send OPTION message periodically.	10-3600	30
Retry Count	Determines the retry count; following MBX IP sending the OPTION message and ACK message is not received in return.	3-10	5
407 Authentication	Determines if MBX IP 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

Zone Data

Selecting the Zone Data program group returns the sub-menus shown below.

- Zone Attribute[N]
- Zone RTP Relay Group[N]
- Inter Zone Attribute[N]
- Station Zone Attribute

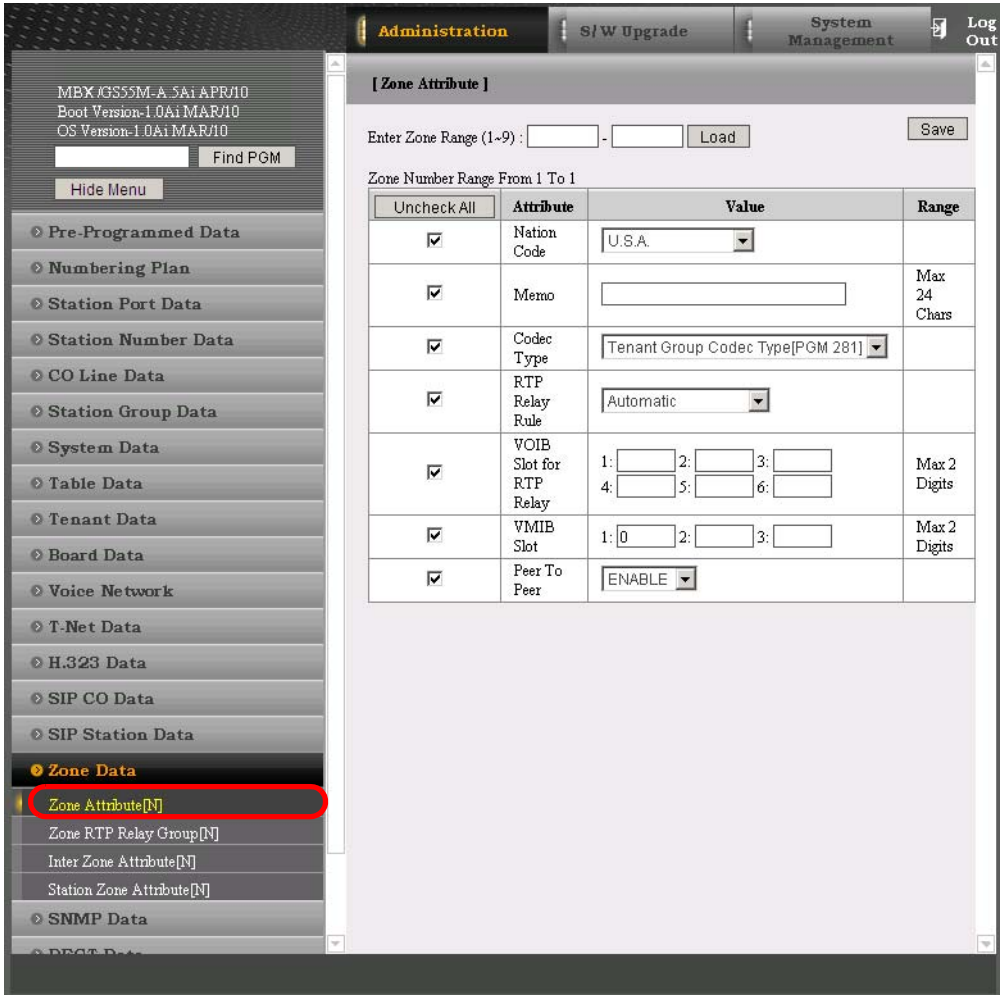
Zone Data is a tool employed to easily manage the characteristics of groups of devices under the control of a MPB. Often, devices are installed in groups with common characteristics. Such devices can be grouped to a Zone to define common characteristics including Country Code, VMIB, RTP packet handling,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

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If 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. Programs 395 to 399 define device zone assignments and zone configurations. These programs are only available in Web admin.

Zone Attributes (PGM 395)

Selecting the Device Zone Attribute returns the page shown below.



Device Zone Attributes define characteristics specific to the device including the registration password, DiffServ Code Point, Nation, etc.

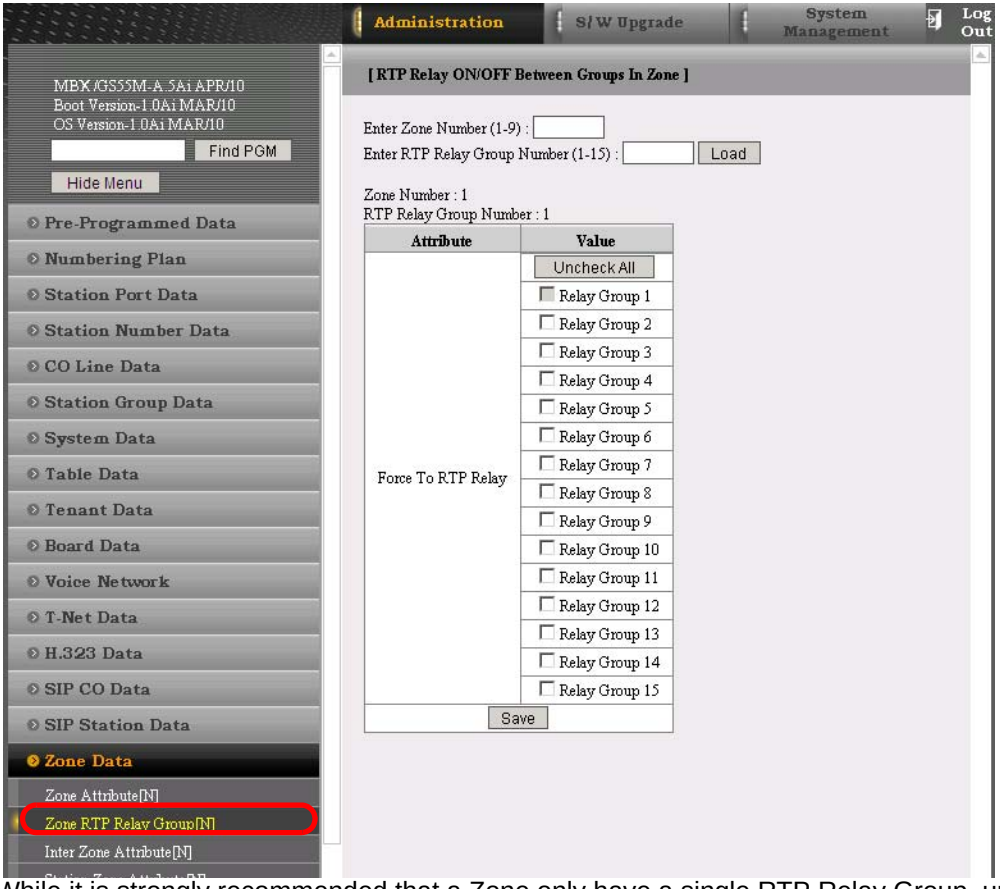
In addition, Zone characteristics set at the Device level take precedence over characteristics for the Zone Attributes. While a Zone may incorporate up to 15 different RTP packet Relay Groups, for clarity a single RTP Relay Group should be used within a Zone.

Zone Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Nation Code	Nation Code of Zone	-	Same with system's nation
Memo	Memo	-	maximum 24 characters
Codec Type	Codec type for Zone	Tenant Codec / G.711 / G.723 / G.729 / G.722 / Not Assign	Tenant Codec
RTP Relay Rule	RTP Relay Rule	Automatic / Follow Relay Group	Automatic
VOIB Slot for RTP Relay	VOIB Slot for RTP relay	-	VOIB Slot
VMIB Slot	VMIB Slot for 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.	Disa-ble/Enable	Enable

Zone RTP Relay Group (PGM 396)

Selecting the Zone RTP Relay Group returns the RTP Relay ON/OFF data input page shown below.. Enter desired Zone and Group numbers and click Load to assign Zone characteristics.



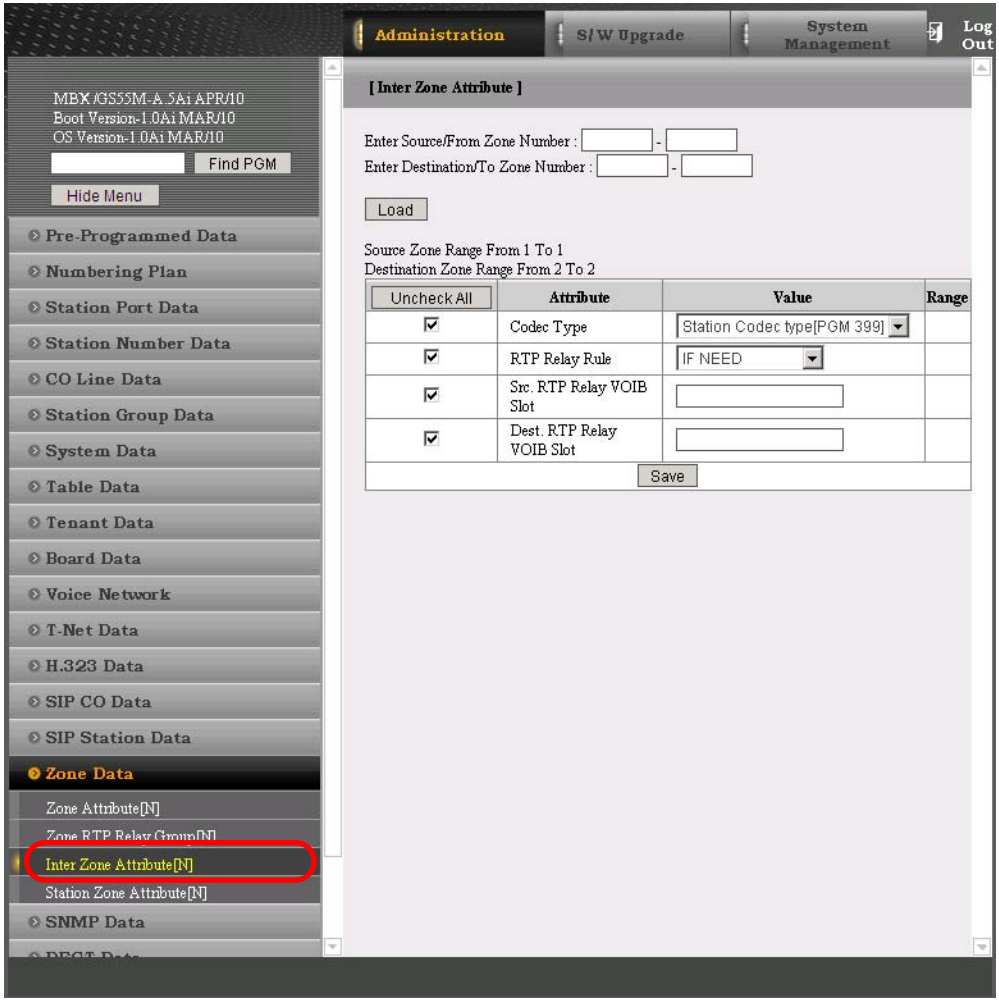
While it is strongly recommended that a Zone only have a single RTP Relay Group, up to 15 Groups can be assigned to a Zone. Devices in an RTP Relay Group should have common requirements for packet relay use. In some situations, it may be necessary to implement packet relay to groups in a Zone.

NOTE: When "if Need" is assigned as the RTP Relay Rule in Zone Attributes, assignments are ignored.

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

Inter-Zone Attribute (PGM 397)

Selecting the Inter-Zone Attribute returns the page shown below. Enter the desired Source and Destination Zone number range and click on Load to assign Zone characteristics.



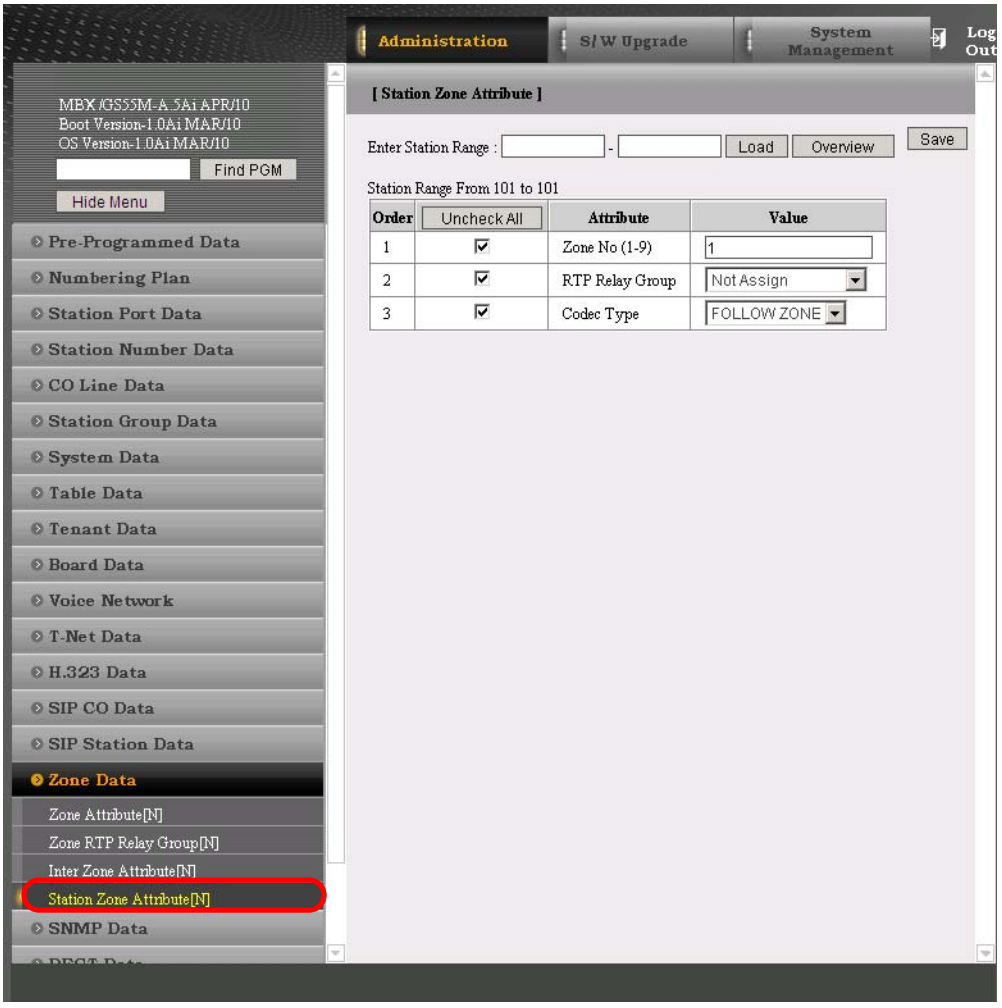
Inter Zone Attributes define RTP packet relay treatment for communication between devices in different Zones.

Inter-Zone Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Codec Type	Codec type for inter zones	Station Codec / G.711/G.723/G.729	Station Codec
RTP Rule	RTP Rule for inter zone	If Need/Always Not/ Forced To Do	If Need
Src. RTP Relay VOIB Slot	Source VOIB Slot for RTP Relay	-	-
Dest. RTP Relay VOIB Slot	Destination VOIB Slot for RTP Relay	-	-

Station Zone Attribute (PGM 399)

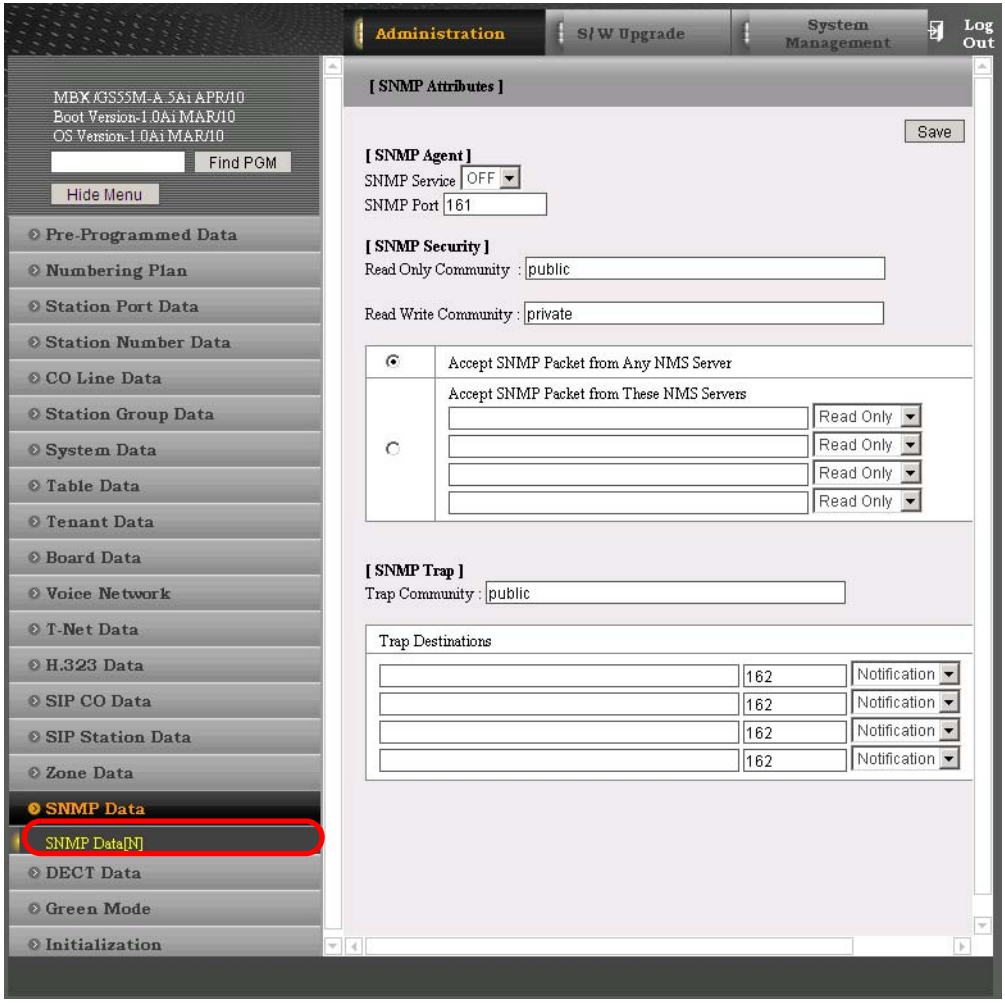
Selecting the Station Zone Attribute returns the page shown below.. Enter the desired station range and click on Load to assign Station Zone characteristics.



ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Zone No	Zone number of station	1-9	1
RTP Relay Group	RTP Relay Group of station	N/A, 01-15	N/A
Codec Type	Codec Type for station	Follow Zone / G.711 / G.723 / G.729 / G.722	Follow Zone

SNMP Data

Selecting the SNMP Data returns the page shown below.



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 MBX IP call server. The SNMP port field defines the UDP port used for communications from the MBX IP 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 (MBX IP system) and SNMP manager (MBX IP NMS). The SNMP community settings must be the same for the MBX IP system and the MBX IP NMS server.

- Read Only Community-Defines a community string used when the MBX IP NMS reads data from the MBX IP system (default=Public).
- Read Write Community-Defines the community string used when MBX IP NMS reads or writes data to the MBX IP system (default=Private).

Although the MBX IP system can accept packets from any SNMP manger (MBX IP 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, MBX IP 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 (MBX IP system) and SNMP manager (MBX IP NMS). This 4 to 16 character string should be the same as the Trap community string defined in the MBX IP-NMS. The Trap community should be same for all the MBX IP systems registered to an MBX IP-NMS server whereas the SNMP community may be defined with different strings for each MBX IP system.

The Trap Destination defines the IP address of the MBX IP 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 MBX IP-NMS and the MBX IP system use, and the Trap type message is not recommended
- Notification - message type are, 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 MBX IP system performance.

SNMP Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SNMP service	SNMP Service' field is used to set the SNMP agent in the MBX IP 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 (MBX IP) this attribute should be enabled.	4-16 characters	-
Trap Community	For the SNMP agent (MBX IP), this field defines the destination IP address to receive trapped messages (Alarm/fault events).	4-16 characters	-
Trap Destination	IP address of MBX IP NMS server, port 162 should not be changed.	IP address	-
Message Type	Defines how the agent sends the message.	Notify Inform Trap	Notify

DECT Subscription Screen

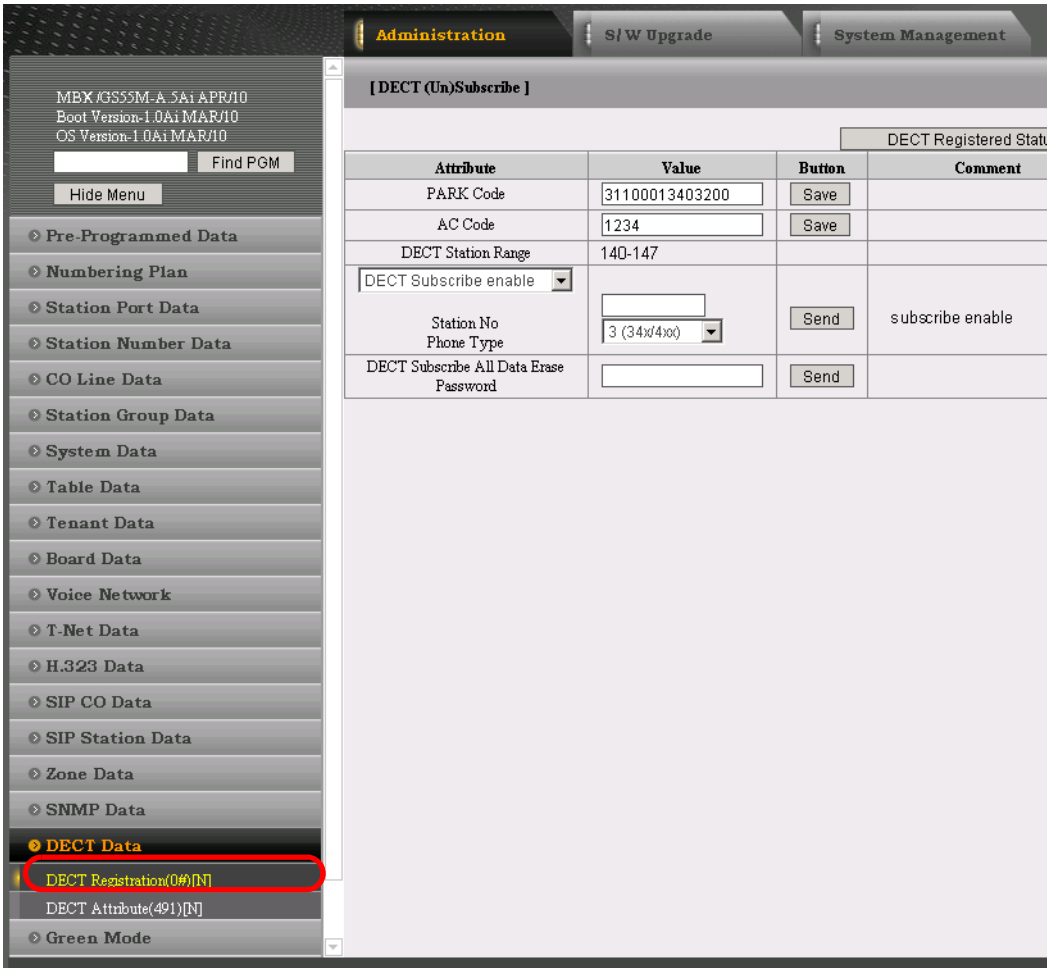
DECT Data

Selecting the DECT Data program group returns the sub-menus shown below.

- DECT Registration (0#)
- DECT Attribute (491)

DECT Registration

Selecting the Registration returns the page shown below.

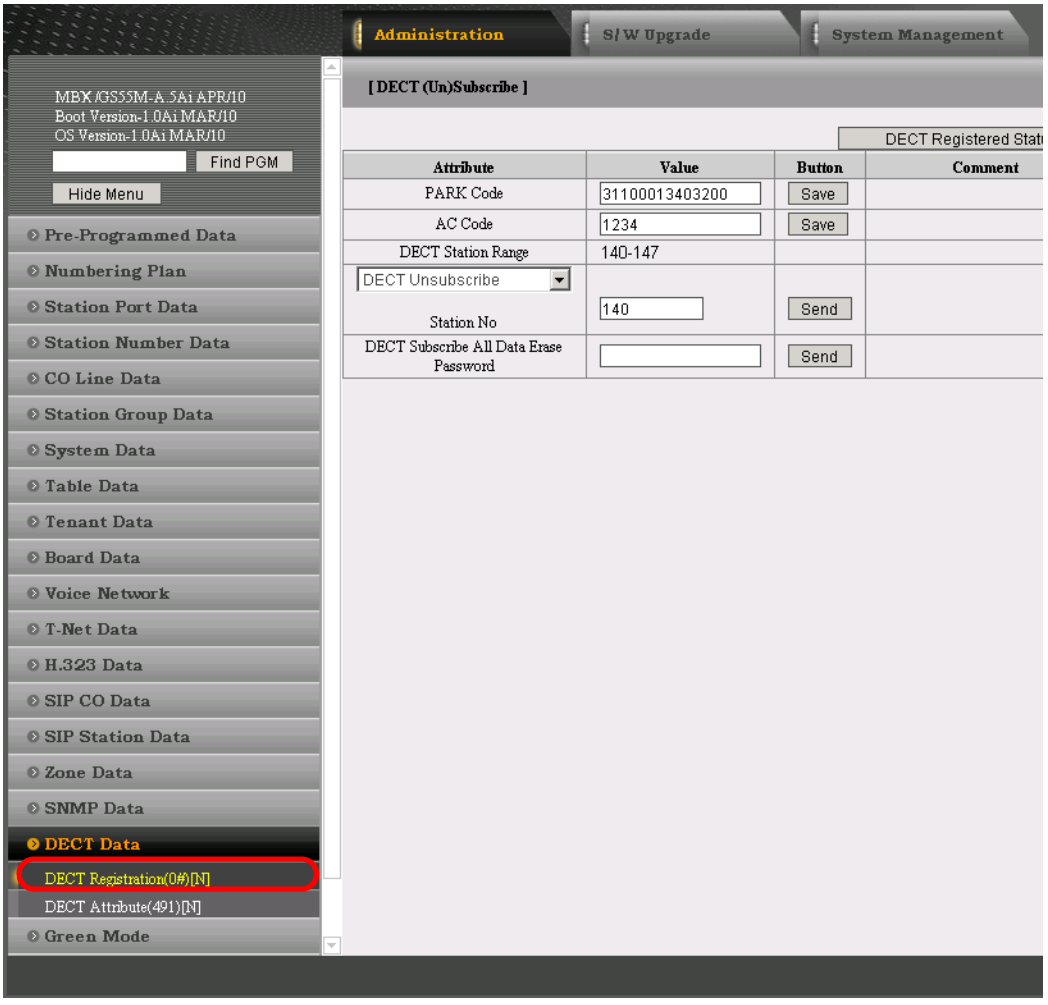


On this page, the DECT ID and authorization codes are defined. In addition, a pull down menu selects one of four subscription events, subscribe, and unsubscribe, mobility or erase registered station.

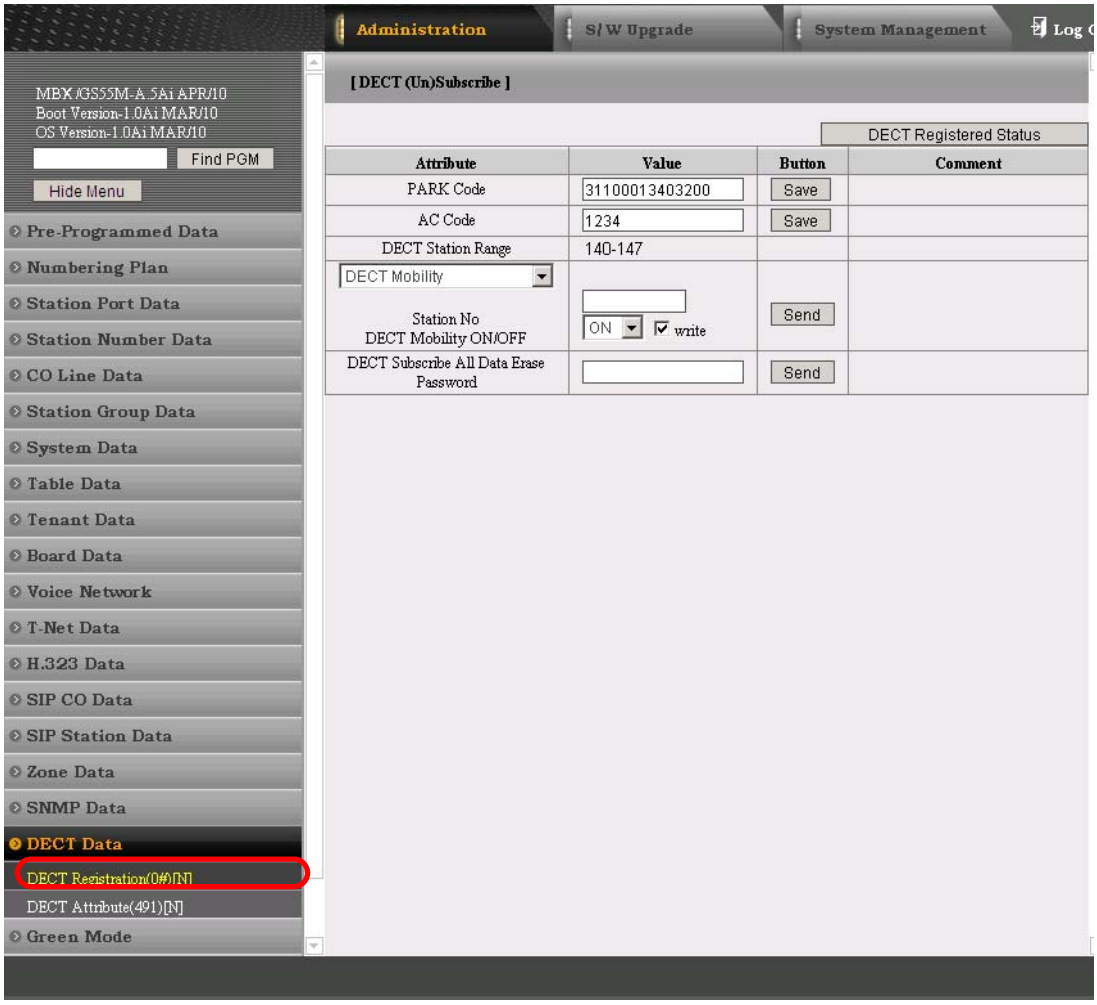
A separate password box permits password entry to terminate (erase) all DECT subscriptions.

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.	-	-
Station Number	Desired station number for the wireless DECT handset.	-	-
Type of Phone	Several types of handsets may be selected including type 3 for the GDC-400H.	GDC-400H: 3	3
	Press [SEND] after entering the number and type.	-	-
DECT Unsubscribe	Terminates the subscription for a DECT handset.	-	-
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 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.	-	-
Station Number	Enter the registered station number, select Mobility ON or OFF and click [SEND].	Station number	-



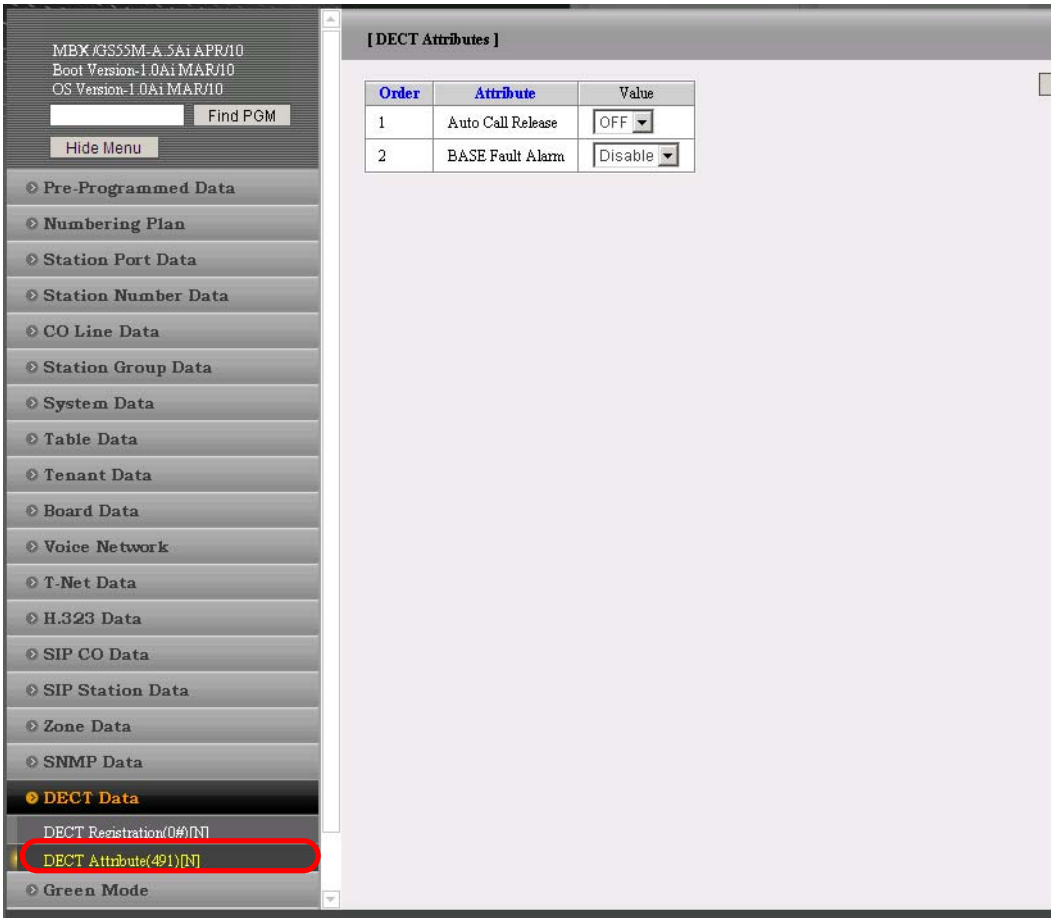
End Subscription Pull Down Menu



DECT Mobility Pull Down Menu

DECT Attributes (PGM 491)

Selecting DECT Attributes returns the page shown below.



DECT Attributes defines functions associated with DECT equipment and operation as shown in the following table:

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

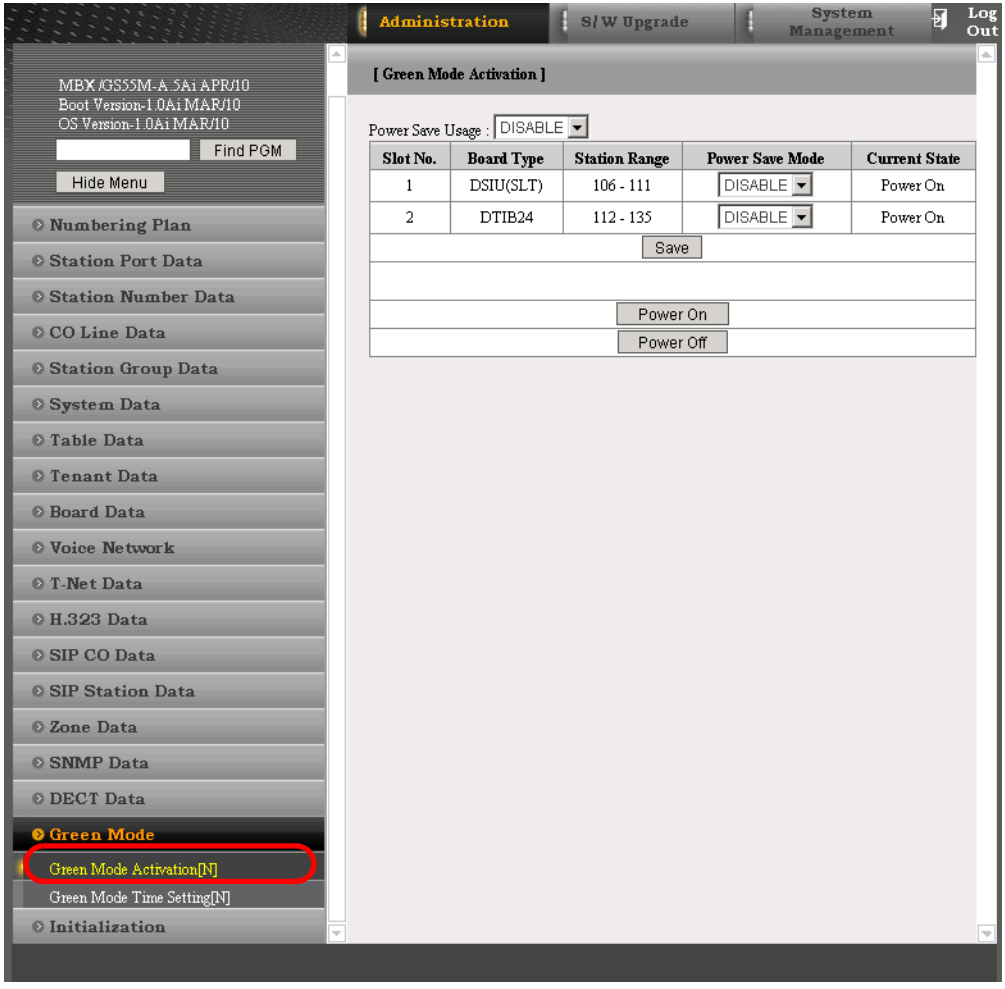
Green Mode

Selecting the Green Mode program group returns the sub-menus displayed below..

- Green Mode Activation
- Green Mode Time Setting

Green Mode Activation

Selecting Green Mode Activation returns the page shown below.

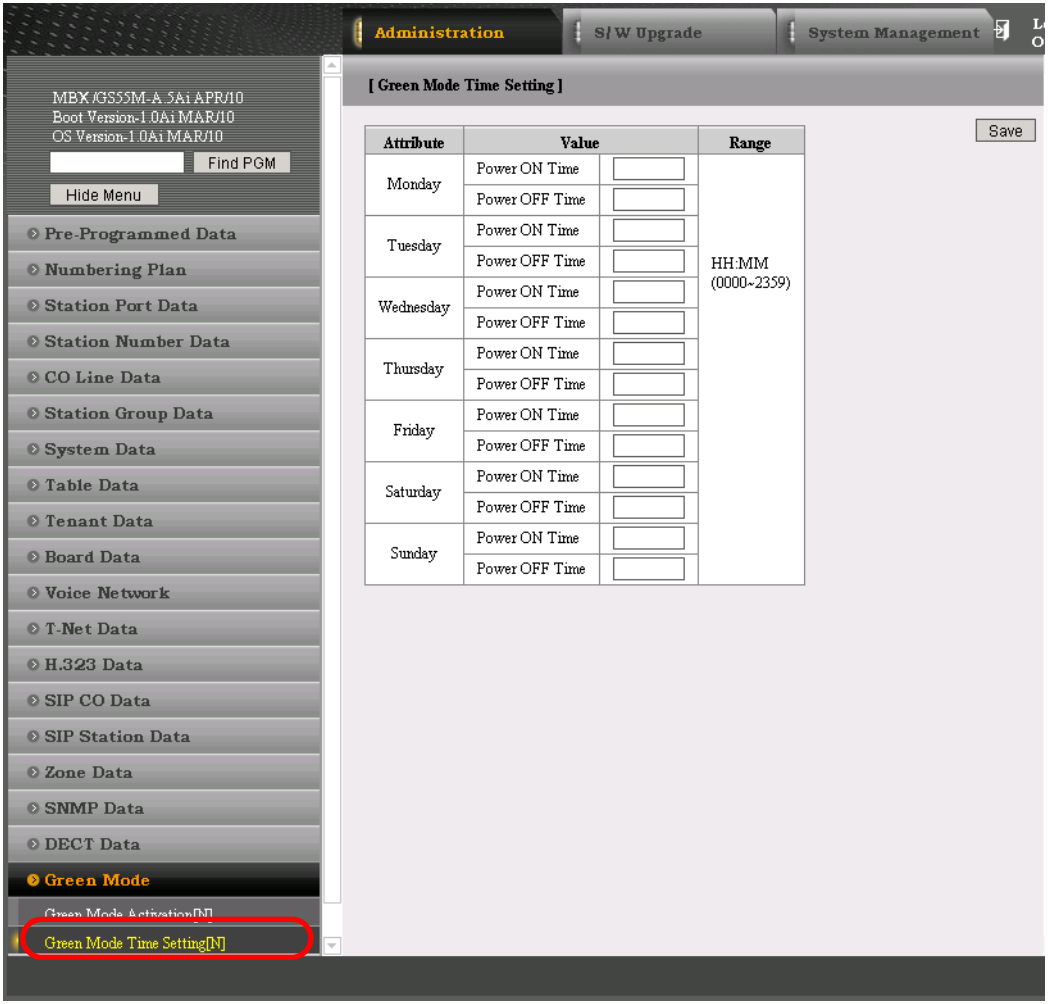


The system can disable the power of a Digital Phone or Single Line Telephone (SLT) installed in the DTIB/SLIB/DSIU to save power during night or holiday mode. The power ON/OFF can be controlled by Web admin manually or automatically by assigning power ON/OFF time.

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	
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	
Power OFF button	Power OFF manually	

Green Mode Time Setting

Selecting the Green Mode Time Setting returns the page shown below.



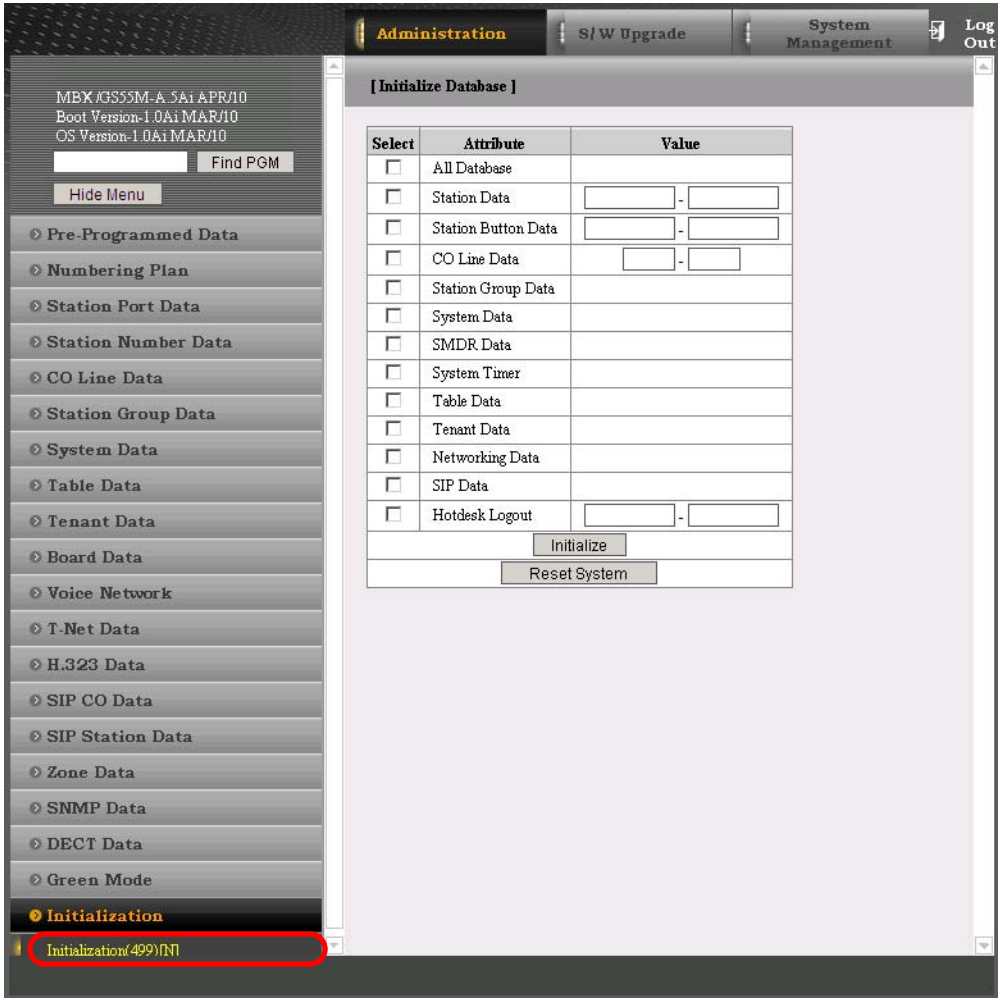
The power ON/OFF time can be assigned to control Green Mode automatically.

ATTRIBUTE	DESCRIPTION	DEFAULT
Power ON Time	The power ON time	
Power OFF Time	The Power OFF time	

Initialization

Initialization (PGM 499)

Selecting Initialization will display the page shown below:



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 *MBX IP Hardware & Installation Guide*. After Initialization, the system should be reset.

INITIALIZATION

DISPLAY	REMARK	RANGE
All Database	Initialize all databases.	-
Reset System	Restart the system	-
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	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

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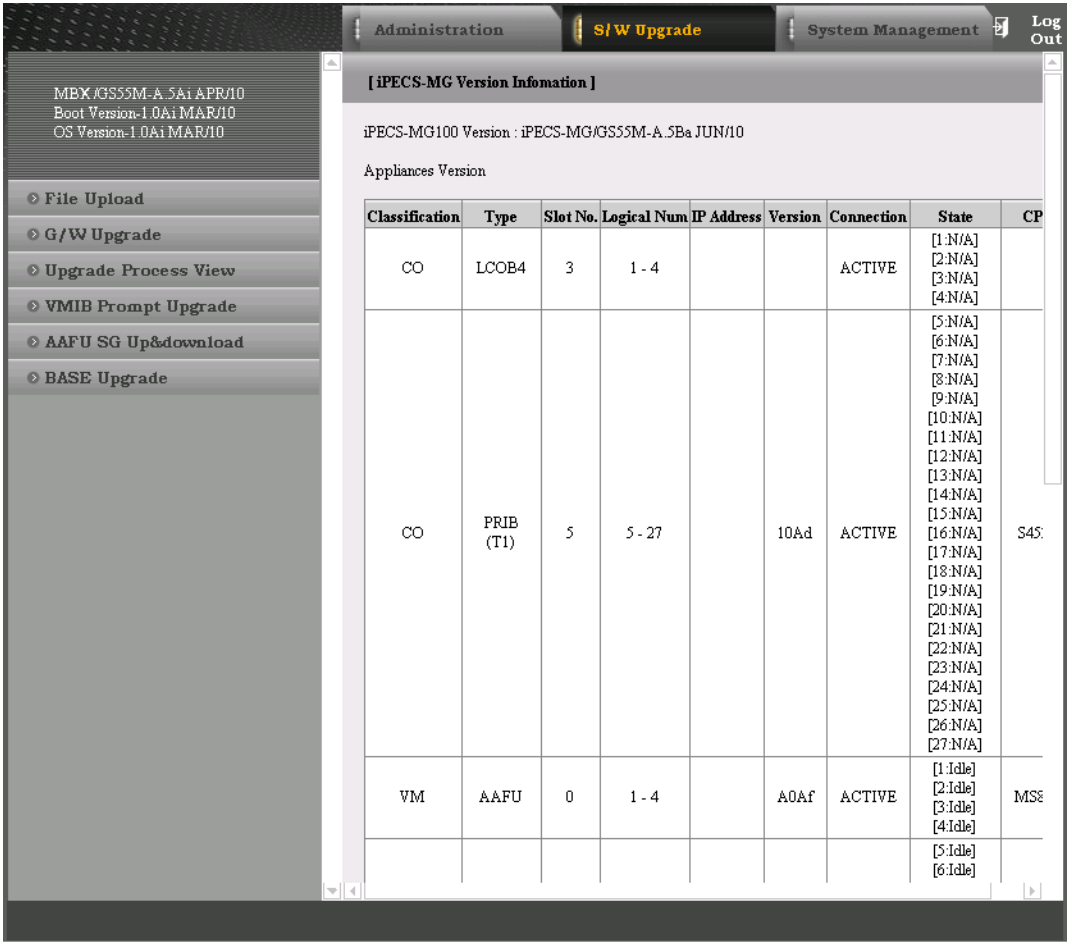
Chapter 3

File Upload & Upgrade

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

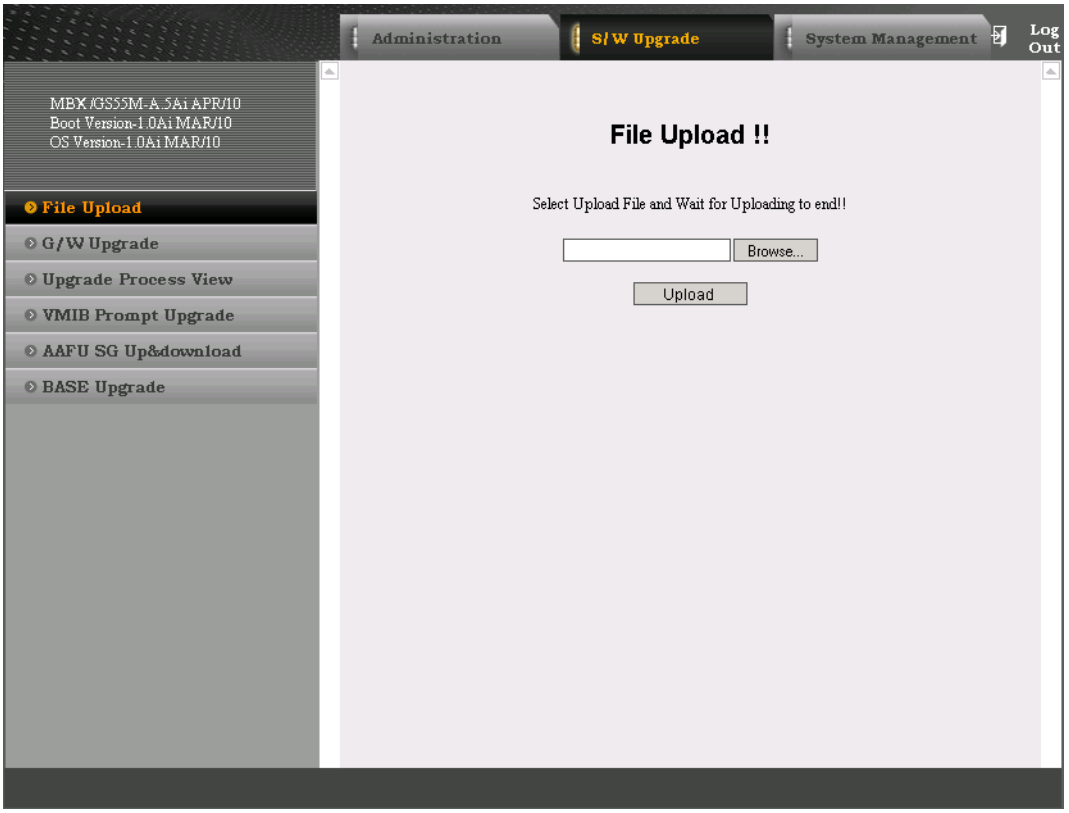


There are two types of upgrade images: application and kernel image. If both are required, upgrade the application then the kernel.

In addition to the appliance image, prompts and system greetings 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.

Fle Uploadi

From the File Upload page shown below, select files to upload to system memory and click the Upload button. The file is sent to the system memory, saved and automatically loaded upon a system reset or restart. HTML image files are extracted and previous HTML files are deleted on completion of the upload process. AAFU formatted system greeting files are also available immediately following successful upload.



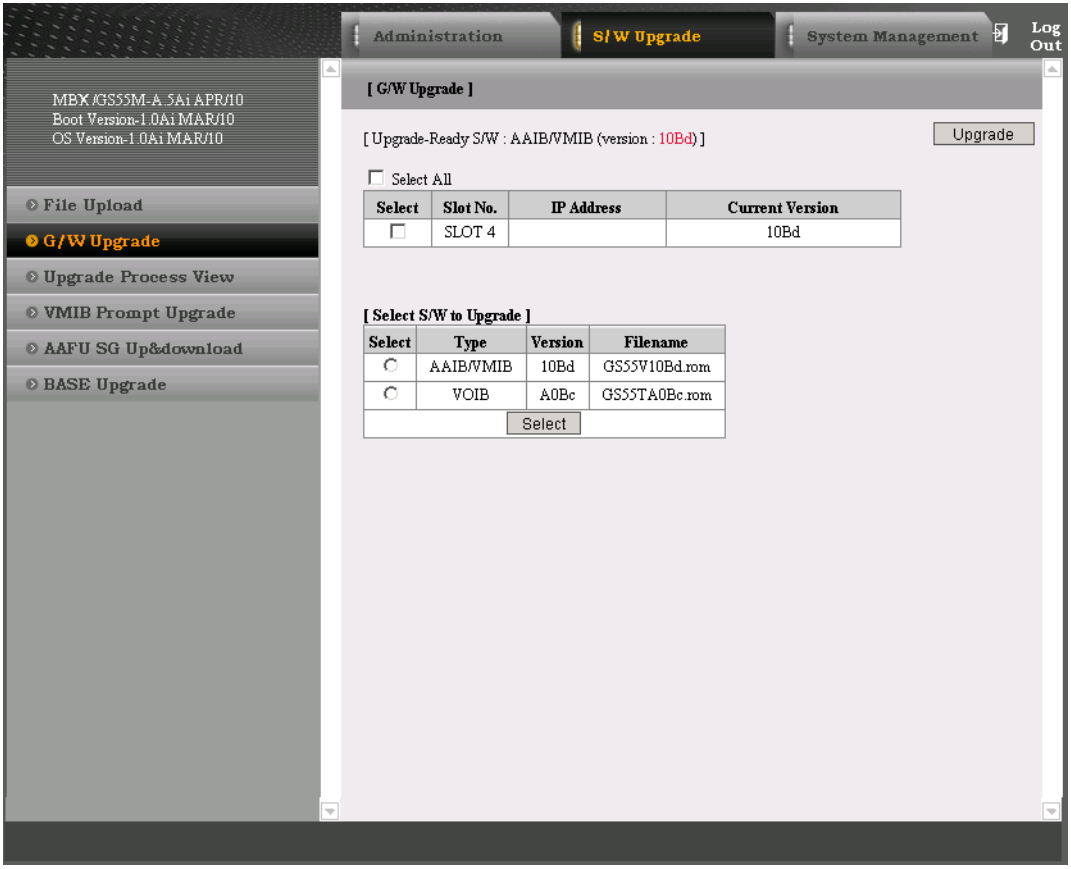
NOTE: If file upload succeeds, a success Confirmation page will be displayed.

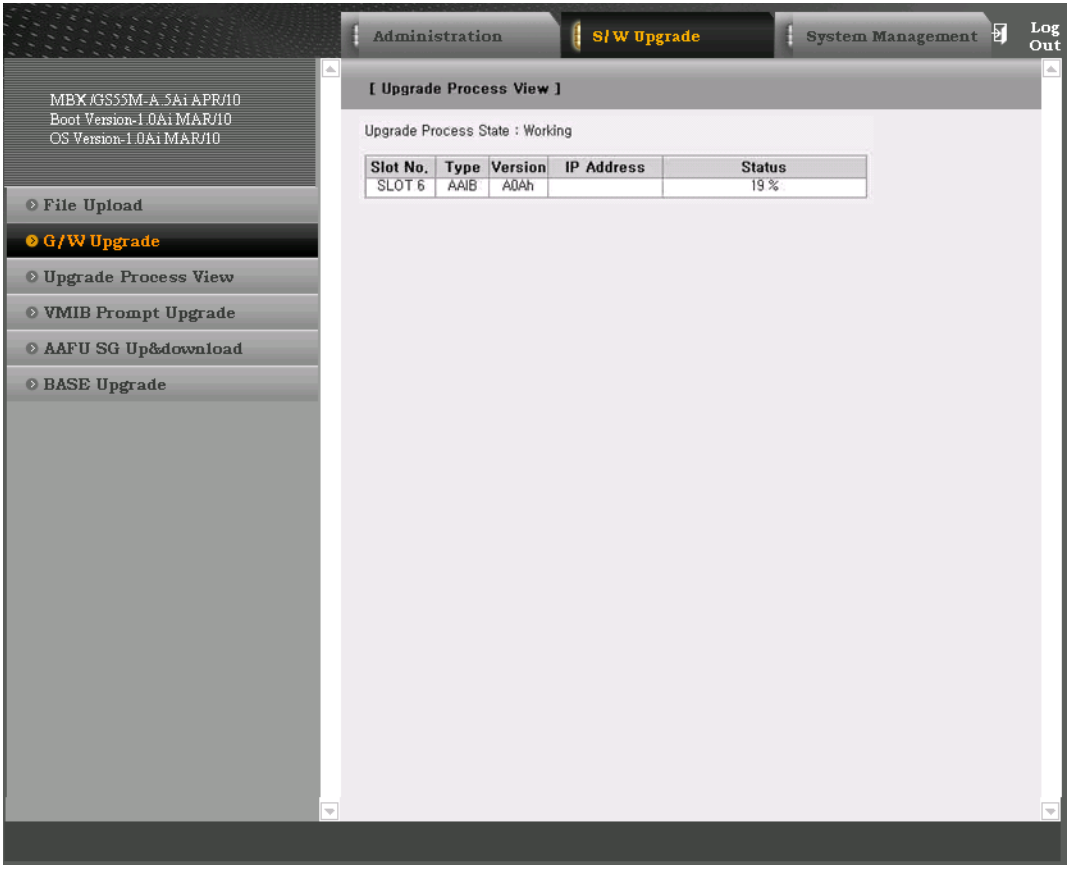
G/W Upgrade

If the MBX IP Appliance image file is uploaded (including already-uploaded files), all uploaded appliance image files will be listed along with the type, as shown below.

1. Select the desired appliance image file.
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, Upgrade Process Working is displayed to indicate the upgrade in process.

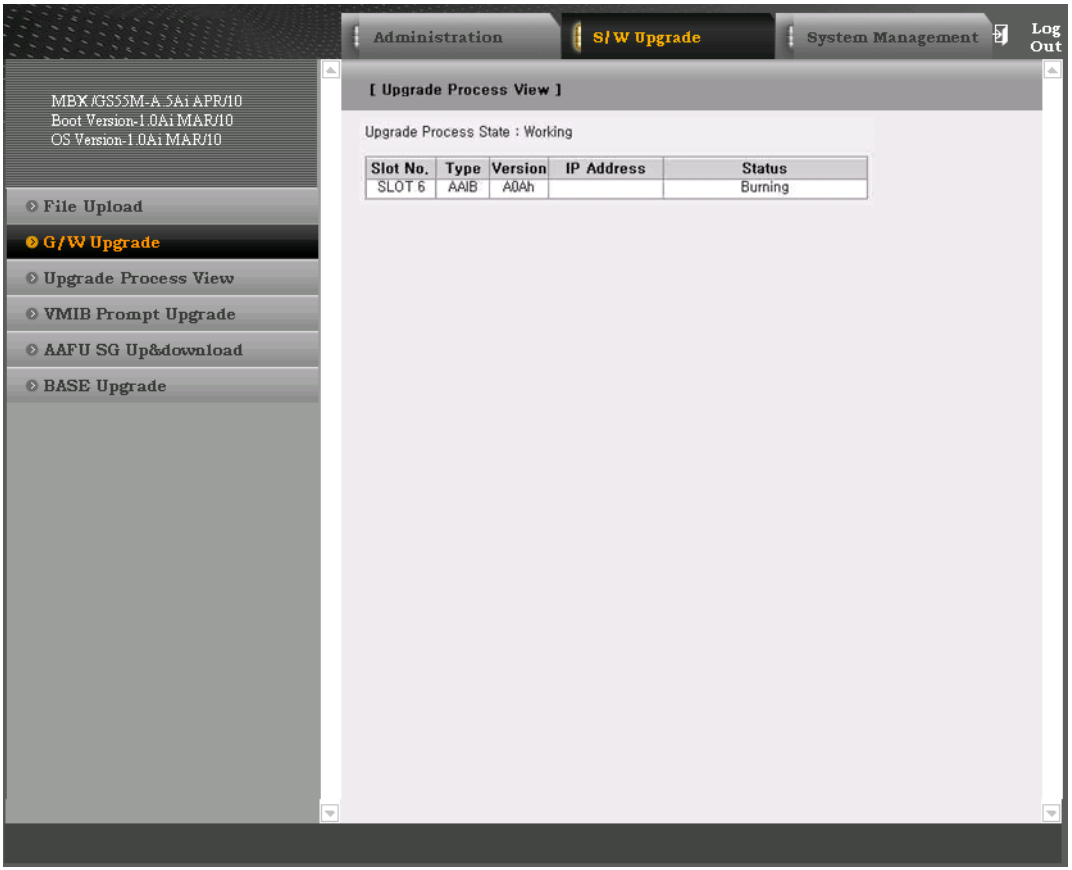




Upgrade Process Working

Upgrade Process View

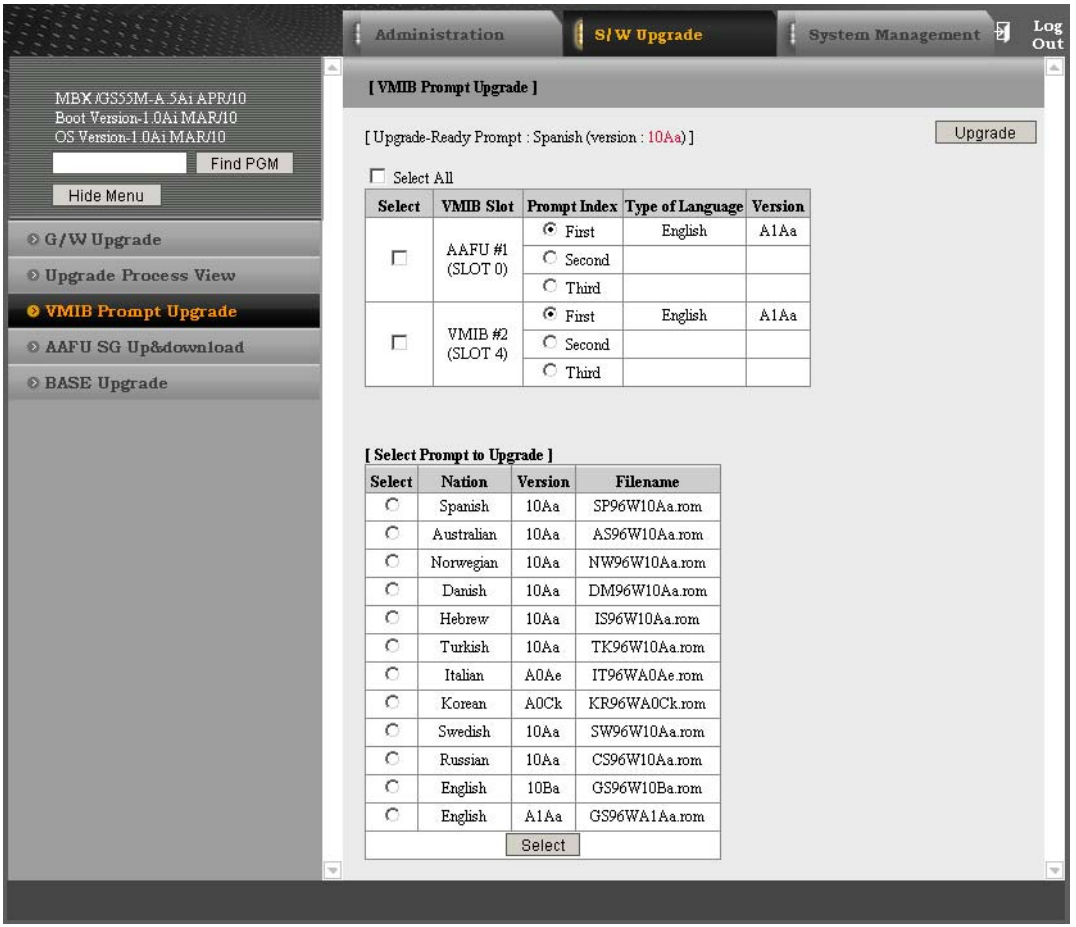
The Upgrade Process View provides a status window; not only for appliance board and terminal upgrade activity in process but also VMIB prompt upgrade.



VMIB Prompt Upgrade

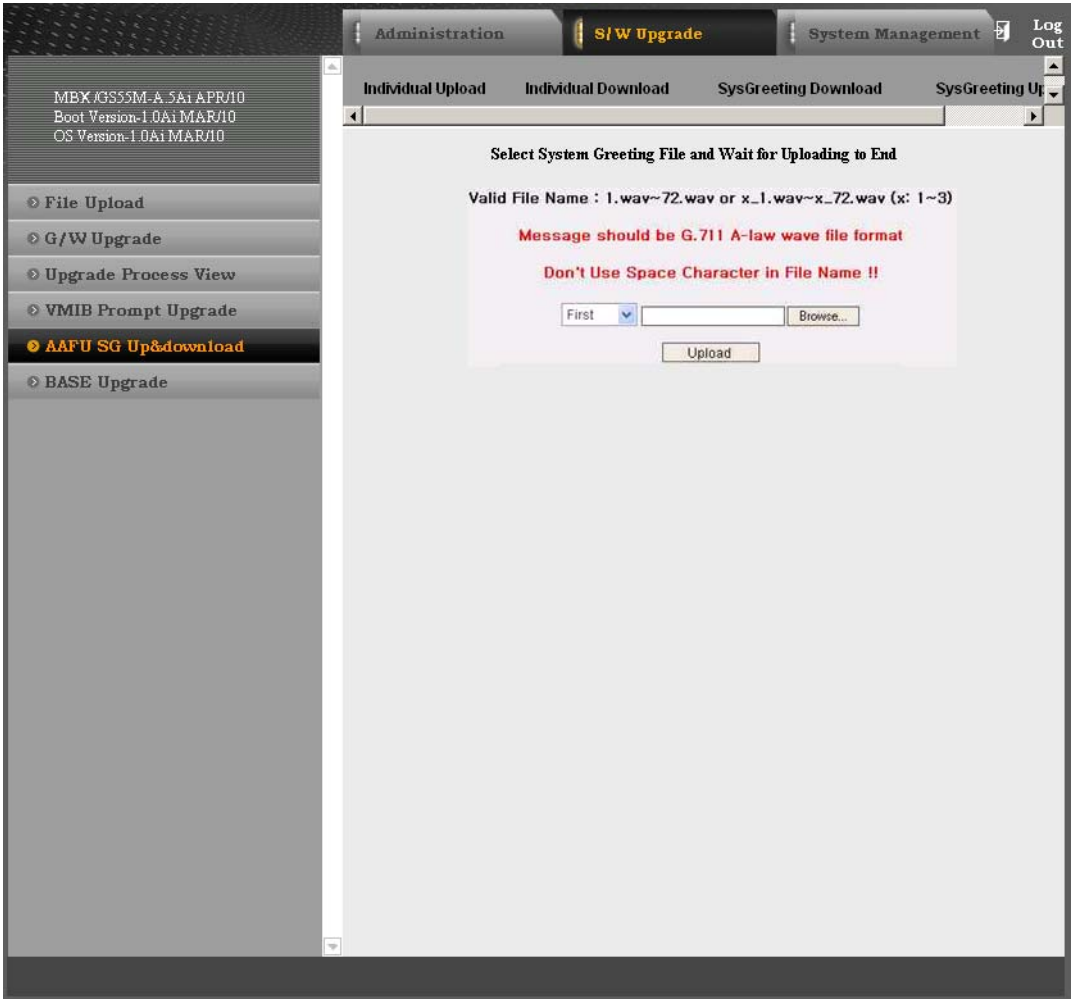
AAFU and VMIBs inserted in the MBX IP system have their own prompt. As in G/W Upgrade, prompt files should be uploaded in the systems memory first, then perform the following:

1. After uploading the prompt files using the "File Upload" menu, select the desired prompt file.
2. Click Select.
3. Select the desired VMIB slot and prompt index.
4. Click Upgrade, as shown in VMIB Prompt Upgrade screen below and then the upgrade process will start and a progress screen will be display as in G/W upgrade.

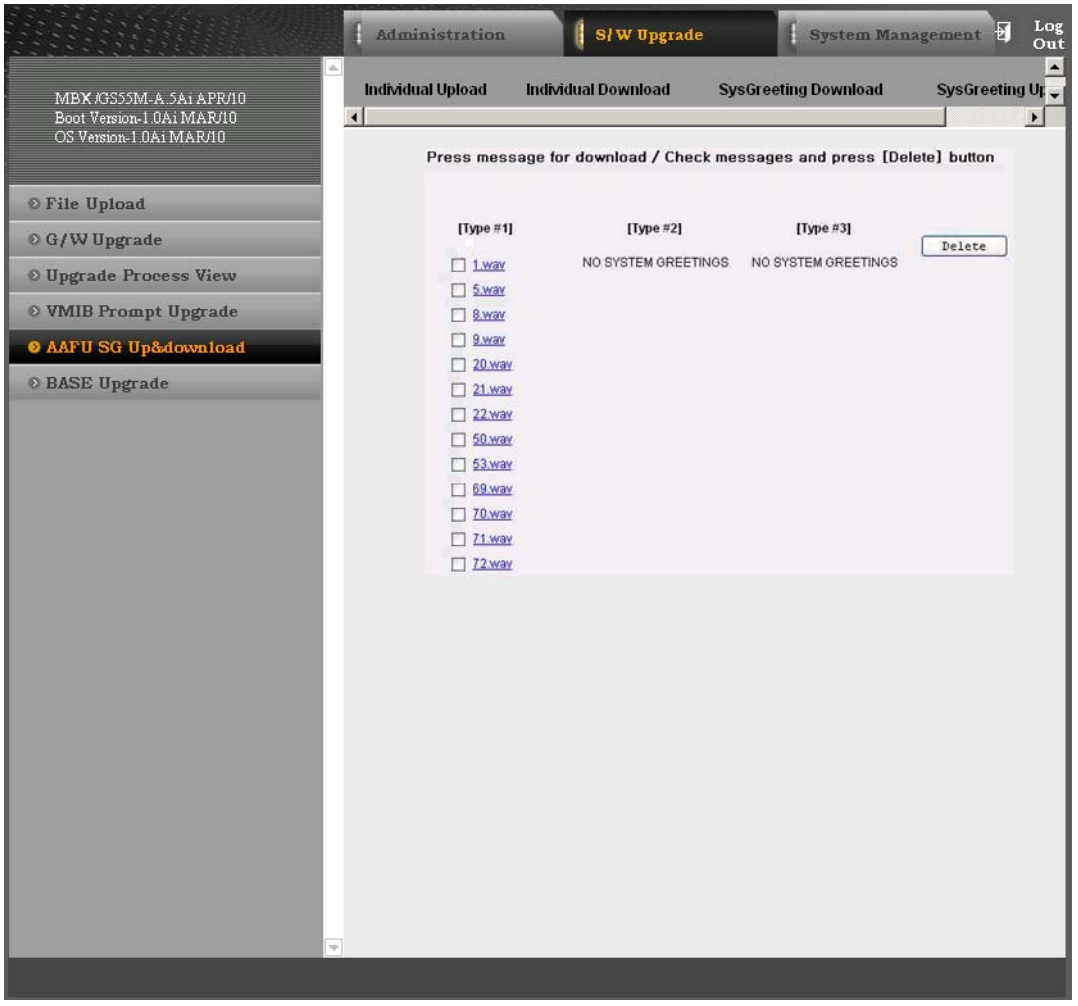


AAFU System Greeting Up & Download View

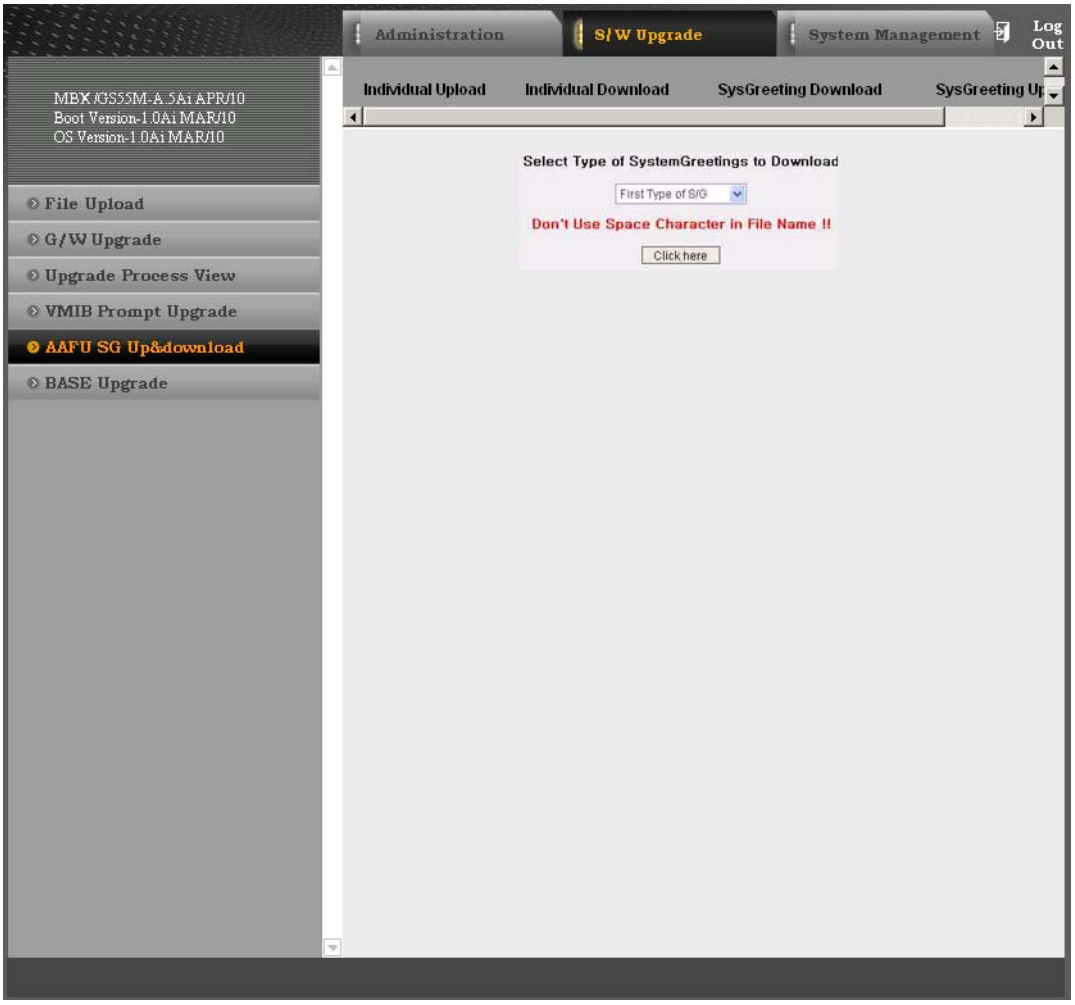
The following screens display Upload and Download of AAFU System Greetings.



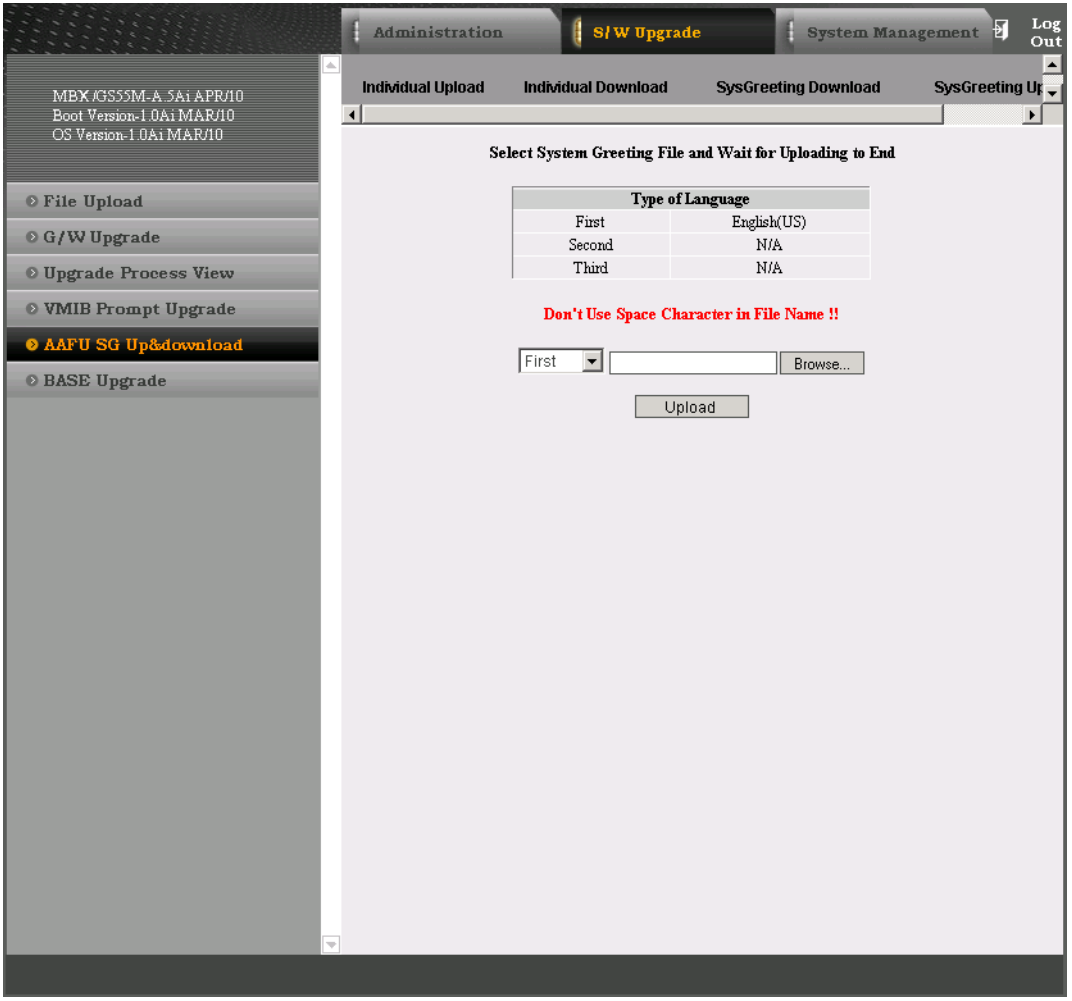
AAFU System Greeting Individual Upload View



AAFU System Greeting Individual Download View



AAFU System Greeting Download View



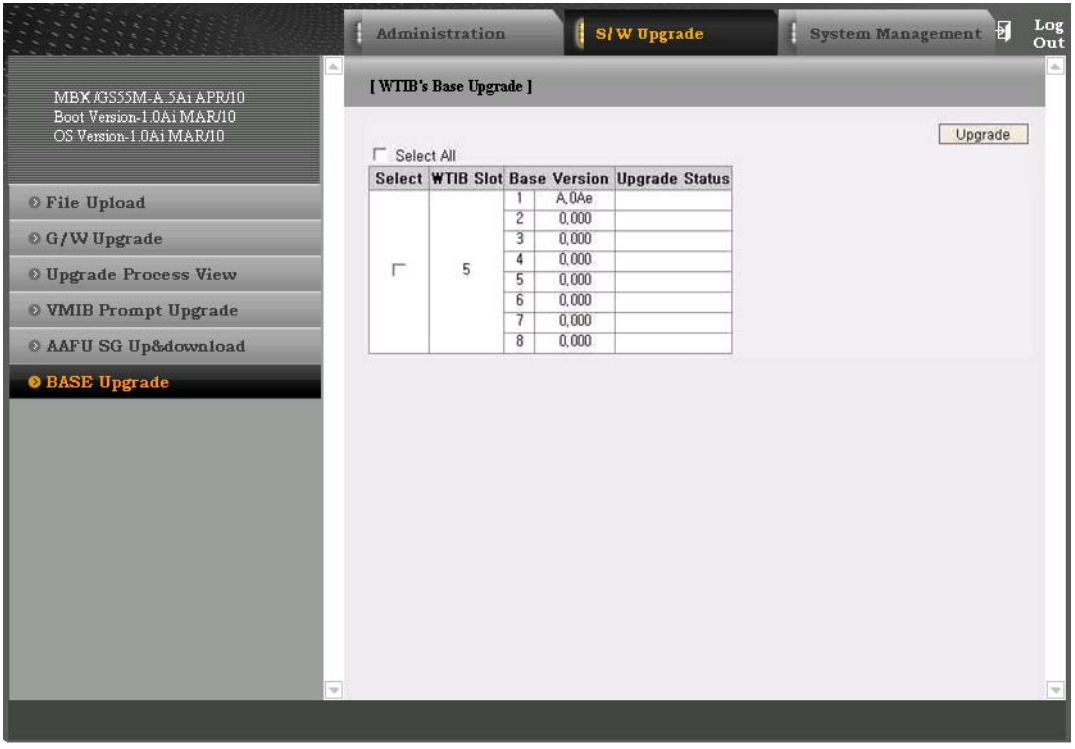
AAFU System Greeting Upload View

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 G/W Upgrade Menu, select the desired WTIB slot number to burn Base image.
2. Click Upgrade (shown Figure 1.6.4 1 VMIB Prompt Upgrade).

   NOTE: In Base upgrading, the upgrade process view is not provided, because Base image burning time is long and irregular.
3. To confirm the completion of Base image burning, refresh the menu by clicking on Base Upgrade.



MBX IP System Upgrade Process

The following shows the order in which the upgrade process proceeds and firmware files for MBX IP and boards.

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

MBX IP Software Full Upgrade Sequence

To upgrade the MPB:

1. Upload MPB application image.
   Ex.,
   MBX IP IP 100
   GS55Mxxxx (xxxx indicates the version)
   MBX IP IP 300
   GS56Mxxxx (xxxx indicates the version)
2. Restart MPB

To upgrade the Appliances:

1. Upload Appliance application image to MPB.
   Ex.,

   SLIB12/32 application image:
   GS55Sxxxx.rom (xxxx indicates the version)

   VMIB 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 appliances application image.
3. Select target appliances & Upgrade application image.
4. Wait until upgrade process completes.
5. Automatically restart when upgrade completes successfully.

To upgrade Voice Prompts in the VMIB/AAFU:

1. Upload voice prompt image to MPB.
   Ex.,
   VSF prompt file-
   ??96Wxxxx.rom (?? Is nation, i.e. GS, DM, KR, etc.; xxxx indicates 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.
3. Select Base image.
4. Select target WTIB & Upgrade.
5. Upgrade confirmation will display.
6. Select Base Upgrade.
7. Select the target WTIB & Upgrade.
8. Upgrade confirmation will result in refreshing the current page.

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 MBX IP Administration & Maintenance Manual. Upgrading the MPB includes HTML files (a separate upload of the HTML files is not required).

Upgrade HTML Files

The system HTML files in the File View Menu, upload files and reloads the page. HTML file upload generally is about 5 - 10 minutes.

Appliances Upgrade (Gateway Board and IP Phone)

To upgrade appliances:

1. Upload appliance image, and click on G/W Upgrade.
2. Select appliance image and appliances.
3. If appliance image is selected, click Select.
4. 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 working.
5. When the appliance upgrade process is successful, the status shown will display as Success.
6. If the upgrade process fails, the process is attempted an additional three (3) times before being abandoned.

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 and AAFU/VMIBs.
3. If voice prompt image is selected, click Select.
4. 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 working.
5. When the voice prompt upgrade process is successful, the status is displayed as Success.
6. If the upgrade process fails, the process is attempted an additional three (3) times before being abandoned.

WTIB Base Upgrade

To upgrade the WTIB Base:

1. Upload Base image, and click G/W Upgrade.
2. Select Base image and WTIBs.
3. If Base image is selected, click Select.
4. 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 working.
5. When the appliance upgrade process is successful, the status is shown as Success.
6. If the upgrade process fails, the process is attempted an additional three (3) times before being abandoned.
7. After successful upgrade, click Base Upgrade to select WTIBs.
8. If WTIBs are selected, click Upgrade.
9. The upgrade will be confirmed when page is automatically refreshed.

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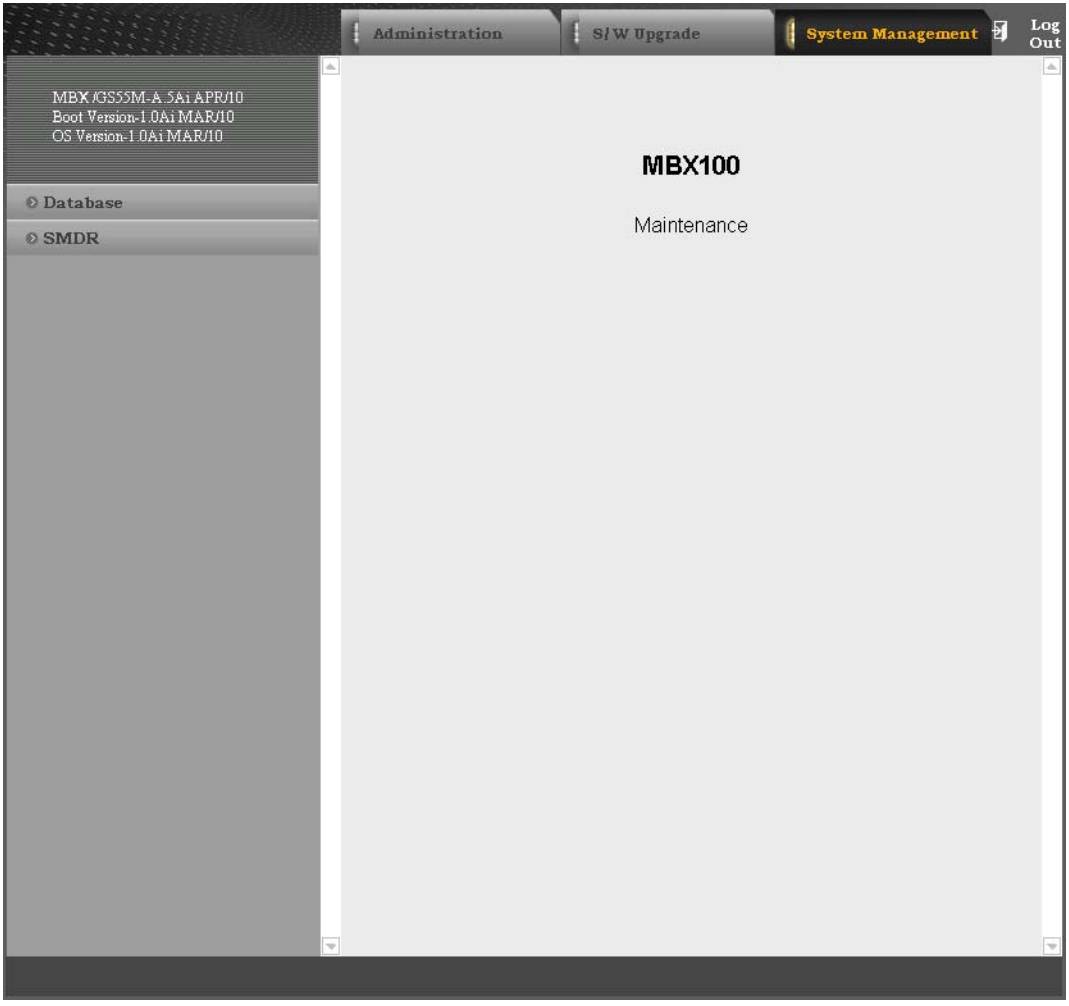
System Management

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 as shown below:



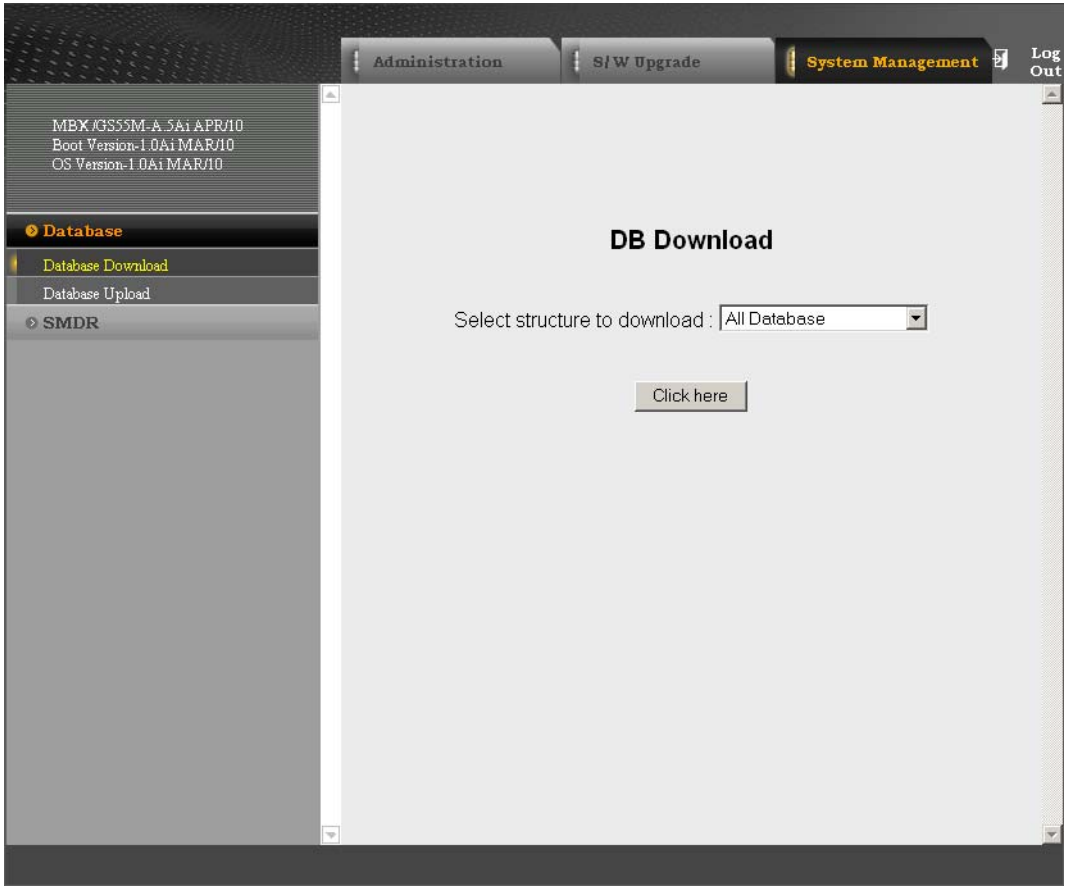
Database

Selecting the Database menu item will display the Database sub-menu items shown below:

- Database Download
- Database Upload

Database Download

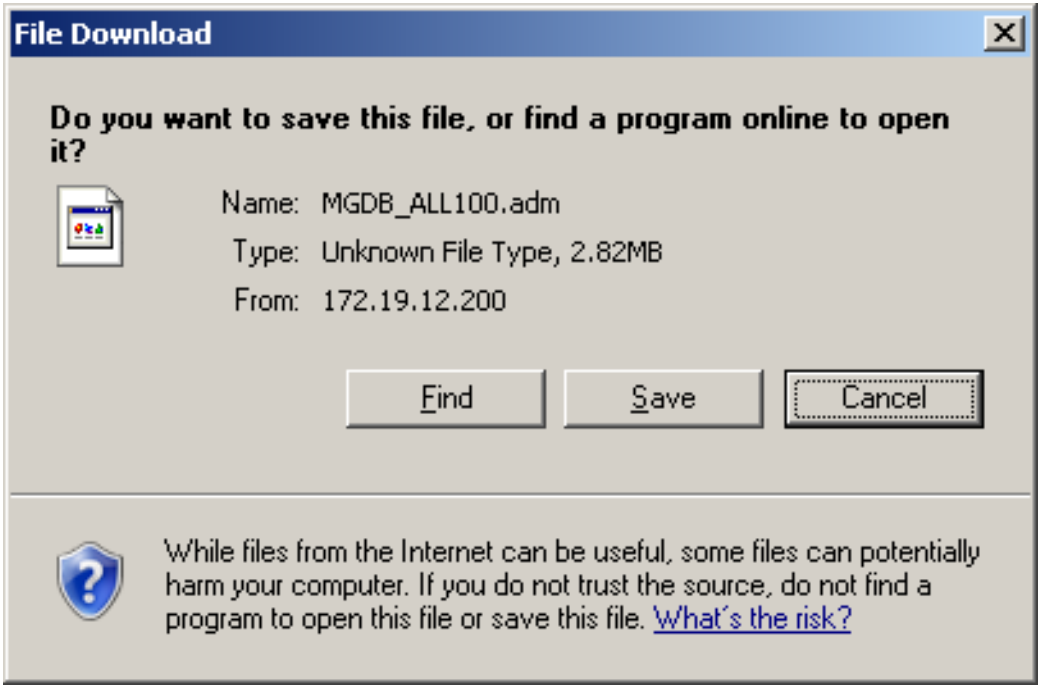
Selecting Database Download will display the page shown below. Selecting this option will download the entire MBX IP system database to the local PC, and also allows the database in the PC to be uploaded to an MBX IP system using the File Upload procedure on page 3-2).



To download the database:

1. Click on the button shown; the File Download window will display.
2. Save files to disk.

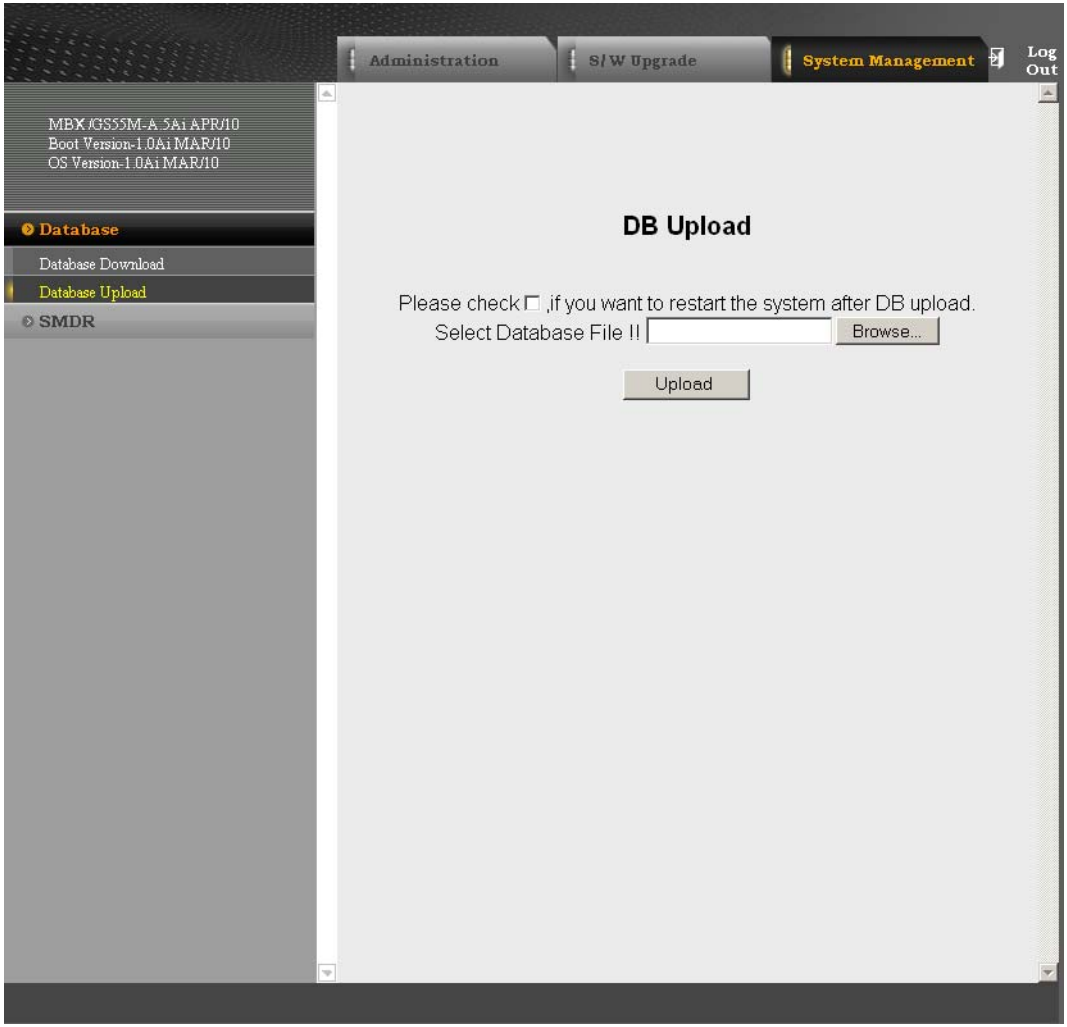
NOTE: The following screen will appear for all download processes.



Database File Save dialog

Database Upload

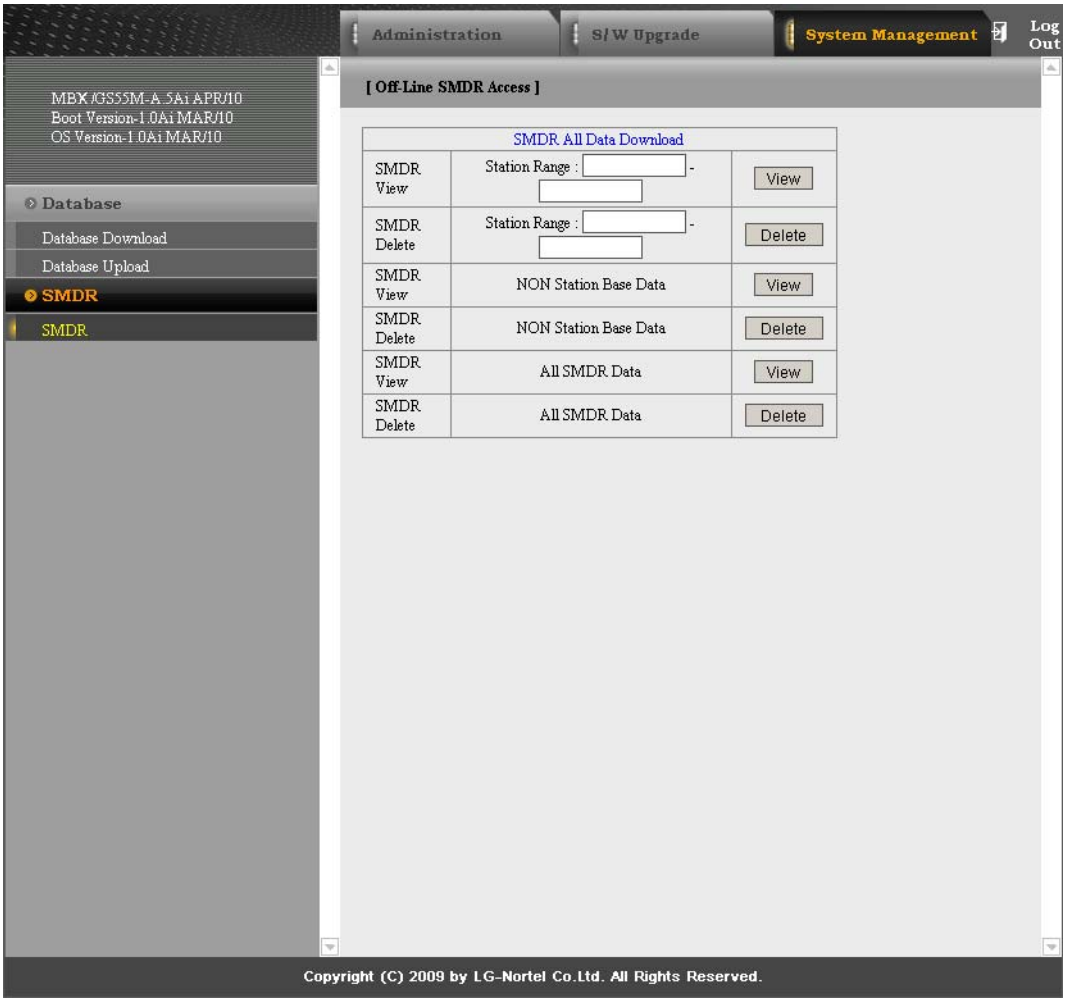
The Database Upload selection will display the page shown below. By selecting the database file from the local PC, the desired database can be uploaded to the MBX IP system database.



SMDR

The MBX IP 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 a view of SMDR data for the station range entered in the Web page shown below. This page may also be used to delete SMDR records for the station range entered.



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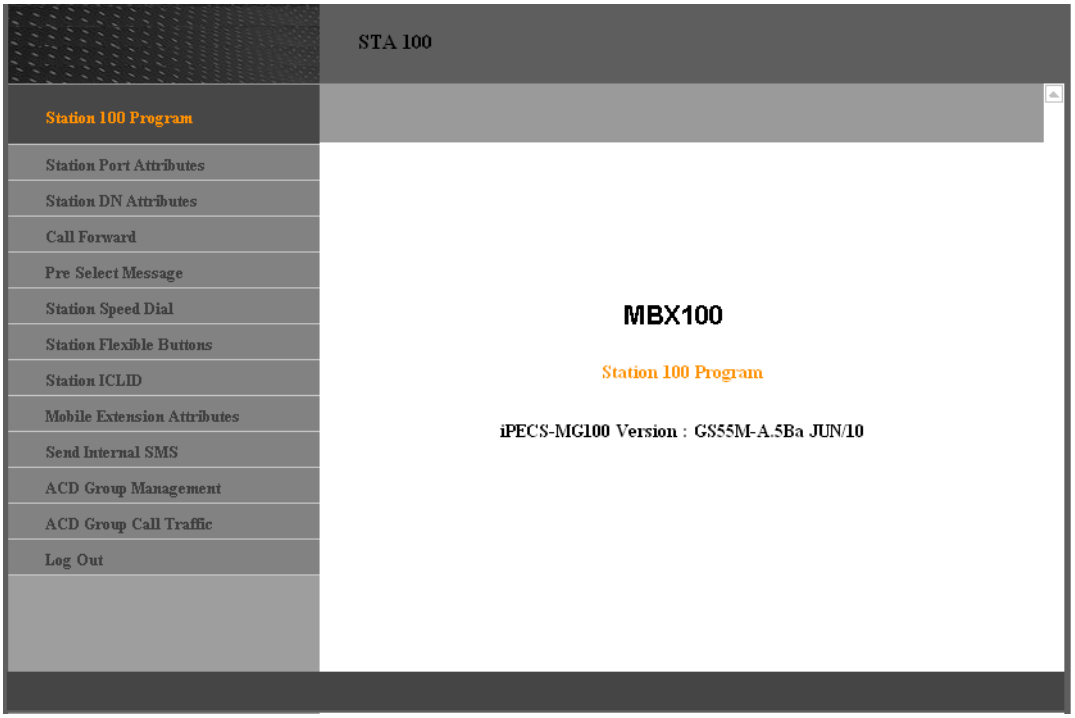
Station User Web Programming

Introduction

A station user can access the Station Program Main Page shown below, by entering a station number and password, a Station Authorization code, and then selecting the Login button.



Station Program Main Page

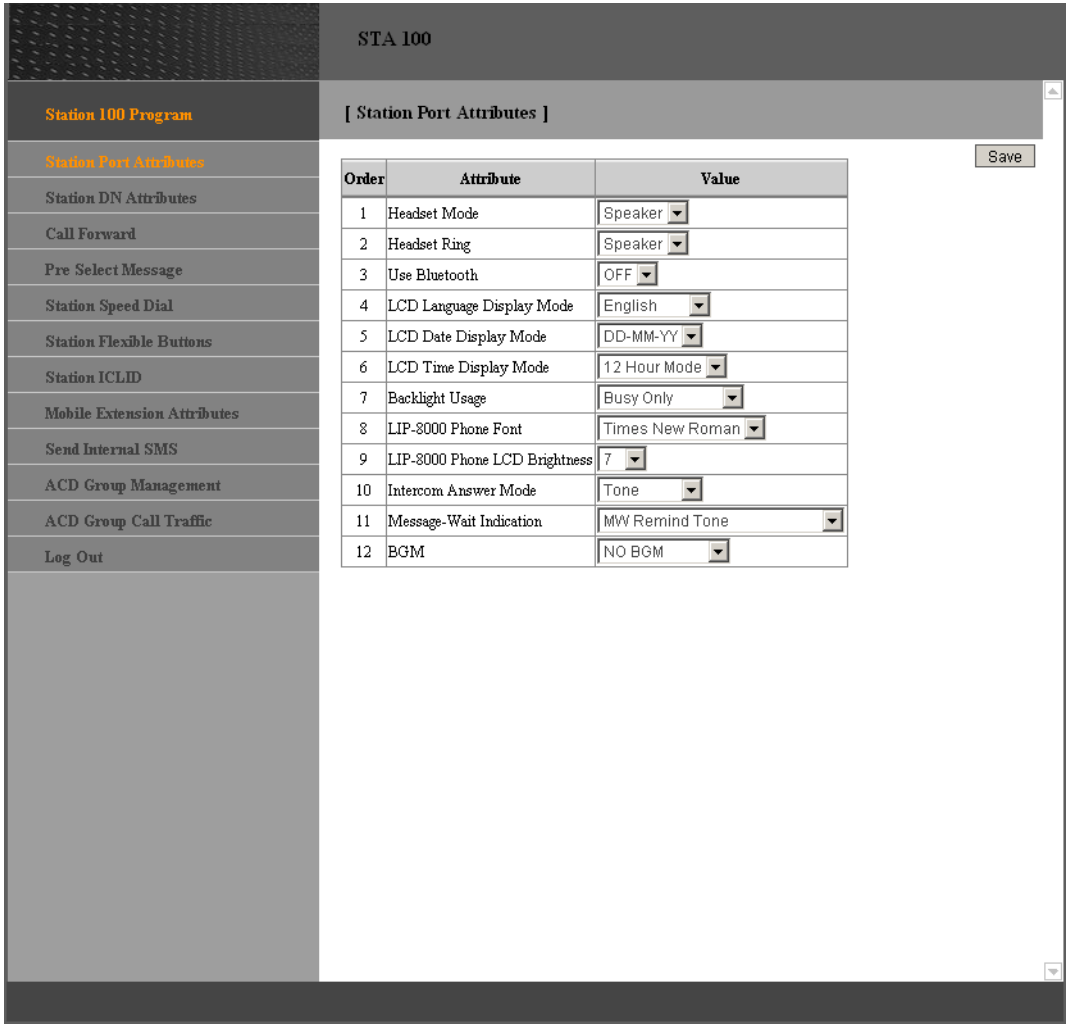
In Station User Programming, users can modify various station attributes, set-up call forwarding, assign flexible buttons, program Station Speed dial numbers and send SMS. The following sections provide details on each of the available Station User Program Web pages.

The Station User Programming main page has three sections:

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

Station Port Attributes

Selecting Station Port Attributes will display the following input entry page:

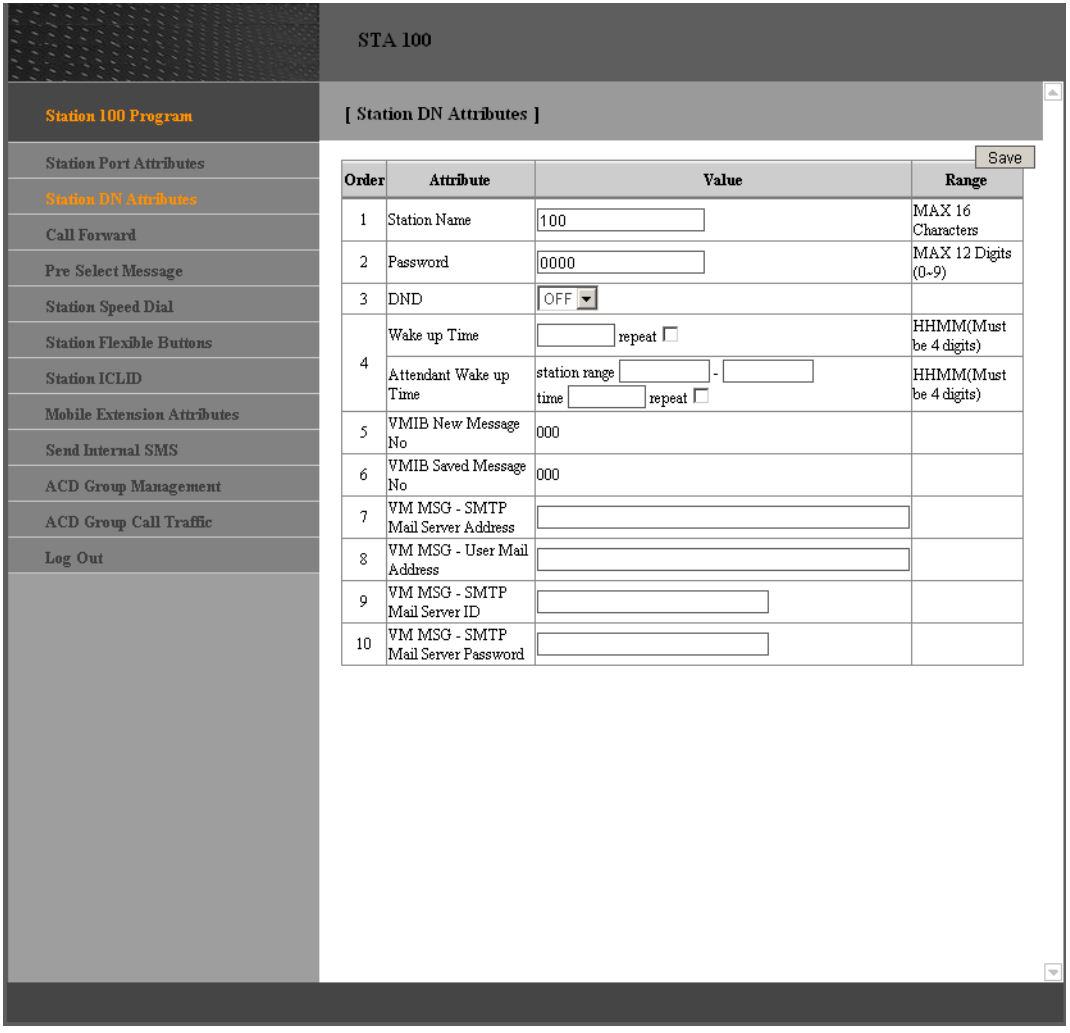


Station Port Attributes define the specific features and functions available to the installed terminal.

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	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.	00-14	00 (English)
LCD Date Display Mode	Sets the Station Date display as month/day or day/month.	1: MMDDYY 0: DDMMYY	DDMMYY
LCD Time Display Mode	Sets the Time display mode as 12 hour or 24-hour (military) time.	1: 24 Hour Mode 0: 12 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	Busy Only
IP-8000 Phone Font	Determines if Times New Roman or Gothic font is used.	0: Times New Roman 1: Gothic	Times New Roman
IP-8000 Phone LCD Brightness	LIP 8000 Series terminal can adjust LCD brightness.	01-15	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 Int/Ext Music VMIB MOB SLT MOH	-

Station DN Attributes

Selecting Station DN Attributes will display the input entry page shown below.



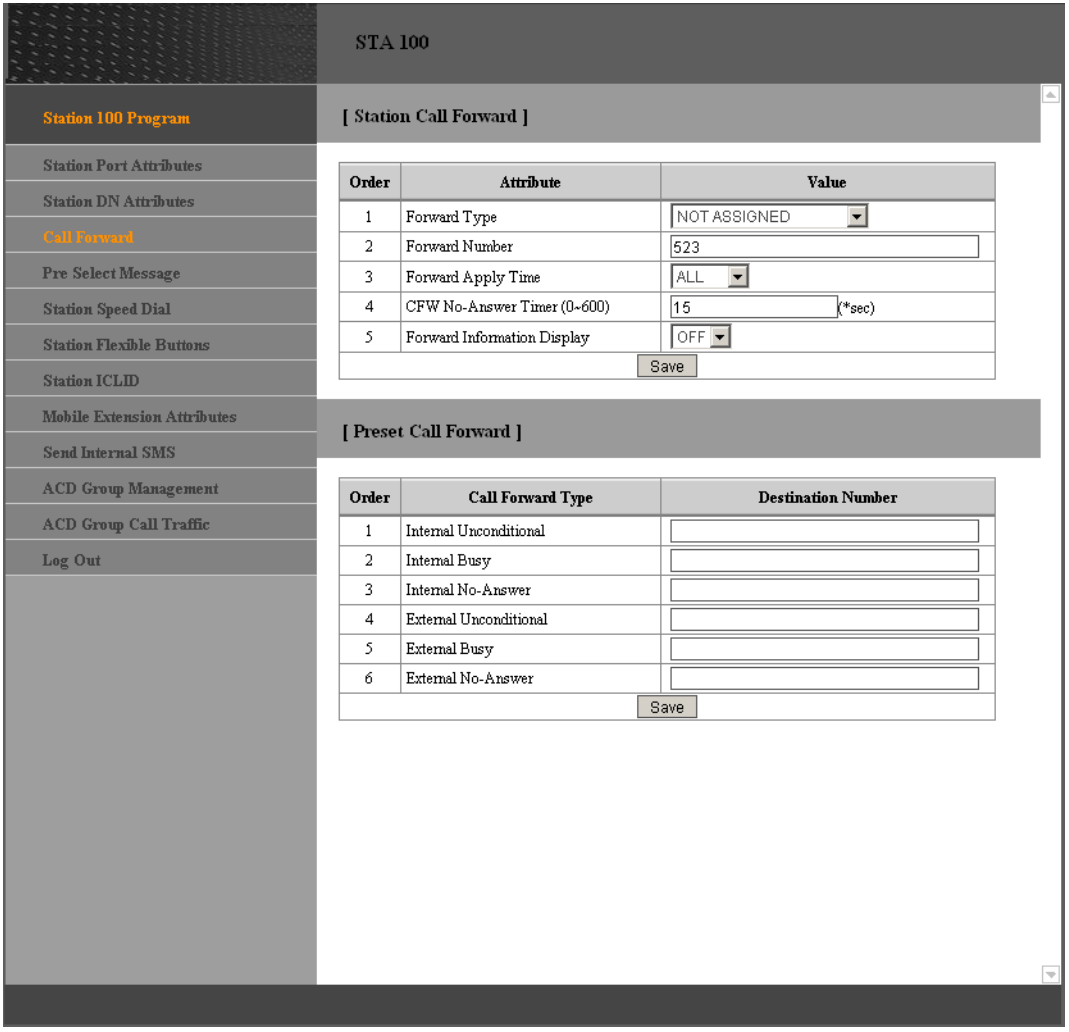
Station Directory Number Attributes define features and functions available to the station directory number.

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	-
Wakeup Time	Assign Wakeup Time	-	-
Attendant Wakeup Time	If attendant, assign other station's wakeup time	-	-
VM MSG-SMTP Mail Server IP Address	SMTP Mail Server IP Address	-	-
VMIB New Message No	Displays the number of new messages.	-	-
VMIB Saved Message No	Displays the number of saved messages.	-	-
VM MSG-User Mail Address	User Mail Address	-	-
VM MSG-SMTP Mail Server ID	SMTP Mail Server ID	-	-
VM MSG – SMTP Mail Server ID	SMTP Mail Server ID	-	-
VM MSG – Attach Message	attach message or not	-	-

Call Forward

Selecting Call Forward will display the following input entry page:



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

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 secs	15 secs
Forward Information Display	Enables Forward Display Option to check forward information in idle state.	0: Off 1: On	On

Preset Call Forward

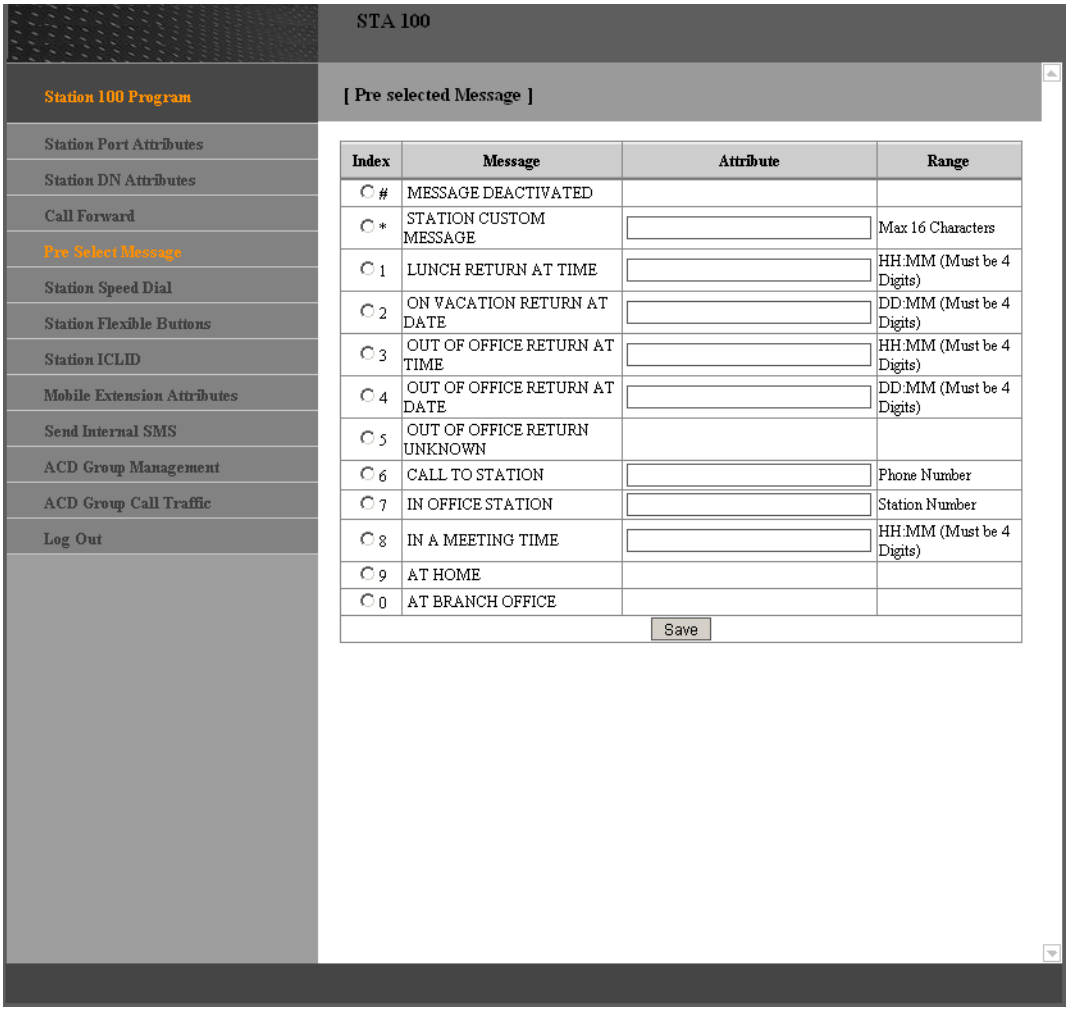
Stations can be programmed so that incoming CO and Intercom calls are forwarded to a preset station or station group. This allows an external call or internal call to initially ring at a station and forward to a pre-determined destination.

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.

As a default, no Preset Call Forward is assigned.

Pre-selected Message

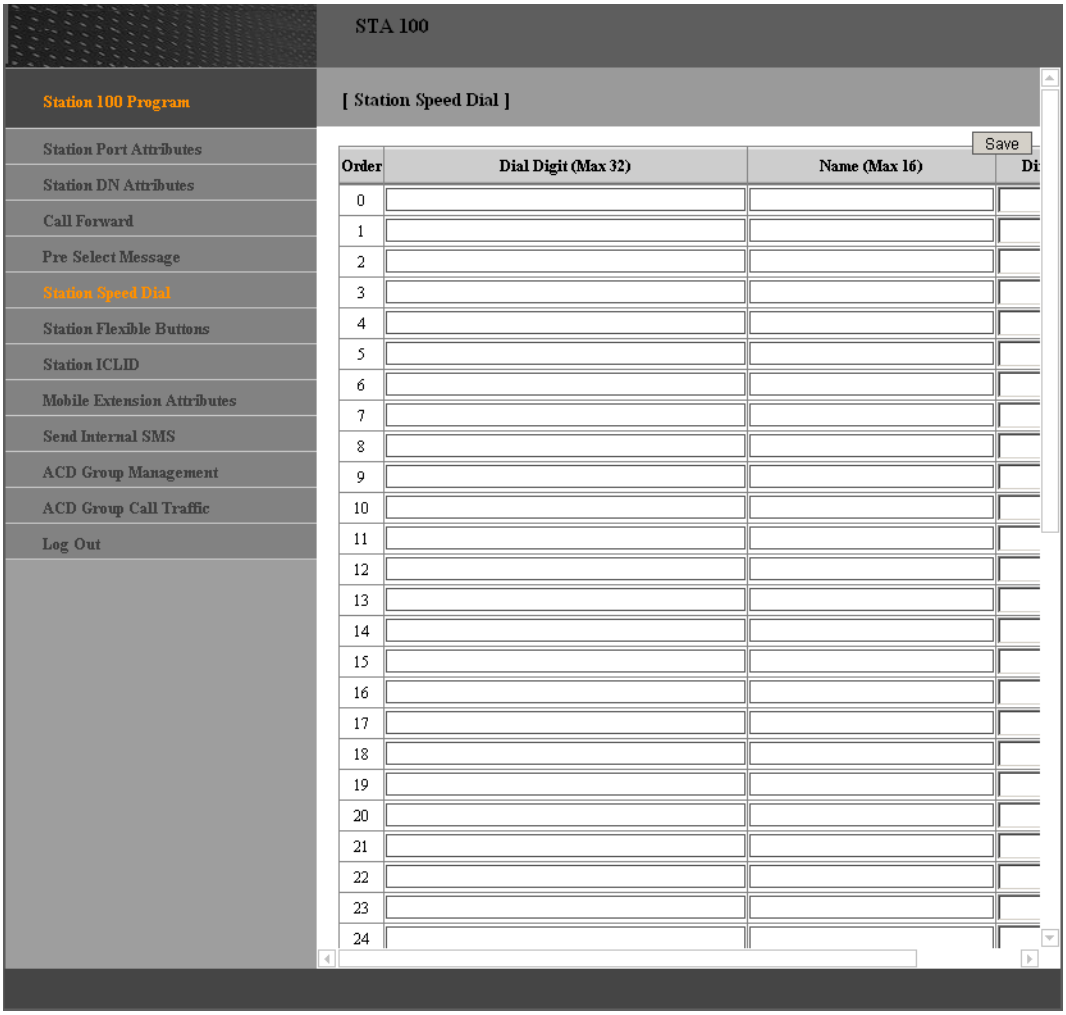
Selecting Pre-selected Message will display the following input entry page:



- A user can select a message to be displayed on the LCD of a calling MBX IP 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.

Station Speed Dial

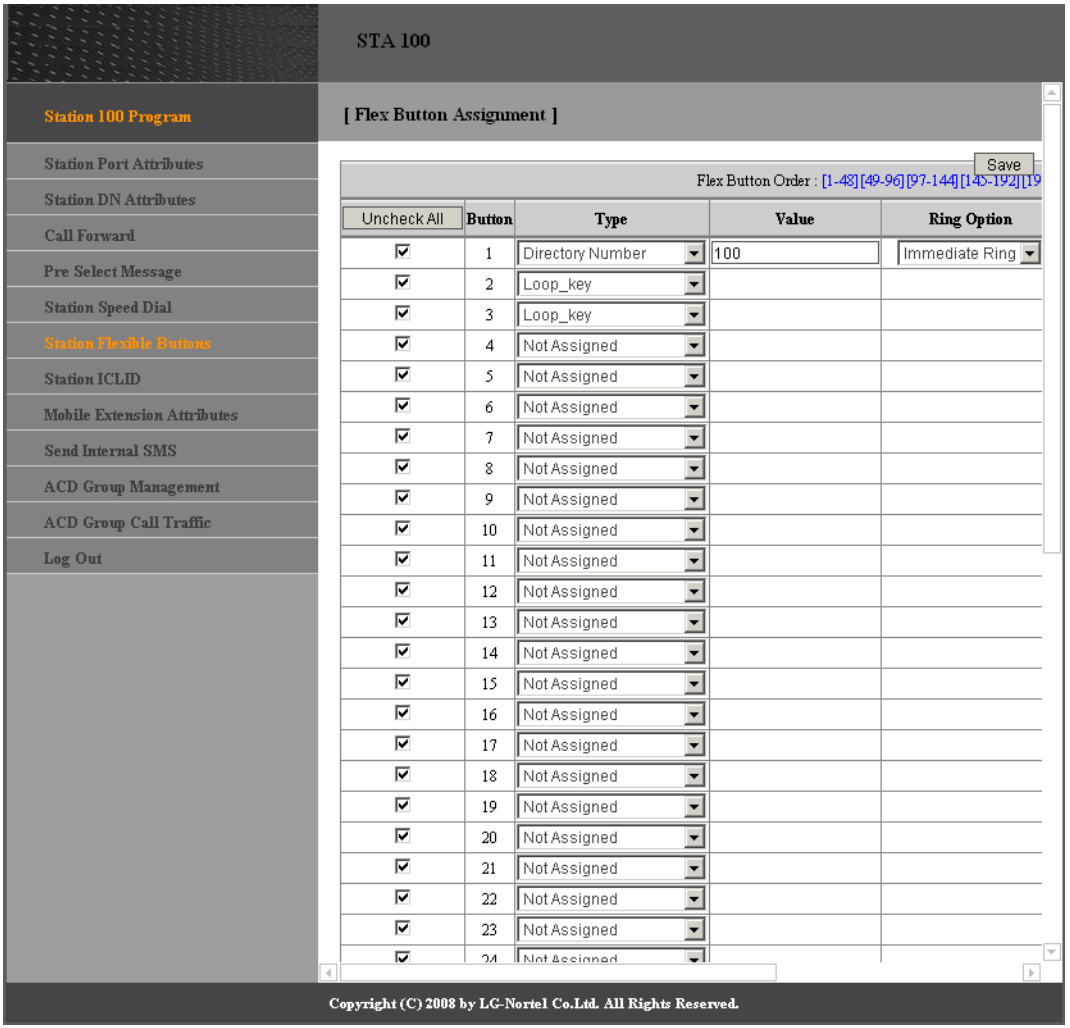
Selecting Station Speed Dial will display the following input entry page:



- 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. The CO Line used with the Speed Dial number and a name can be entered.

Station Flex Buttons

Selecting Station Flex Buttons will display the following input entry page:



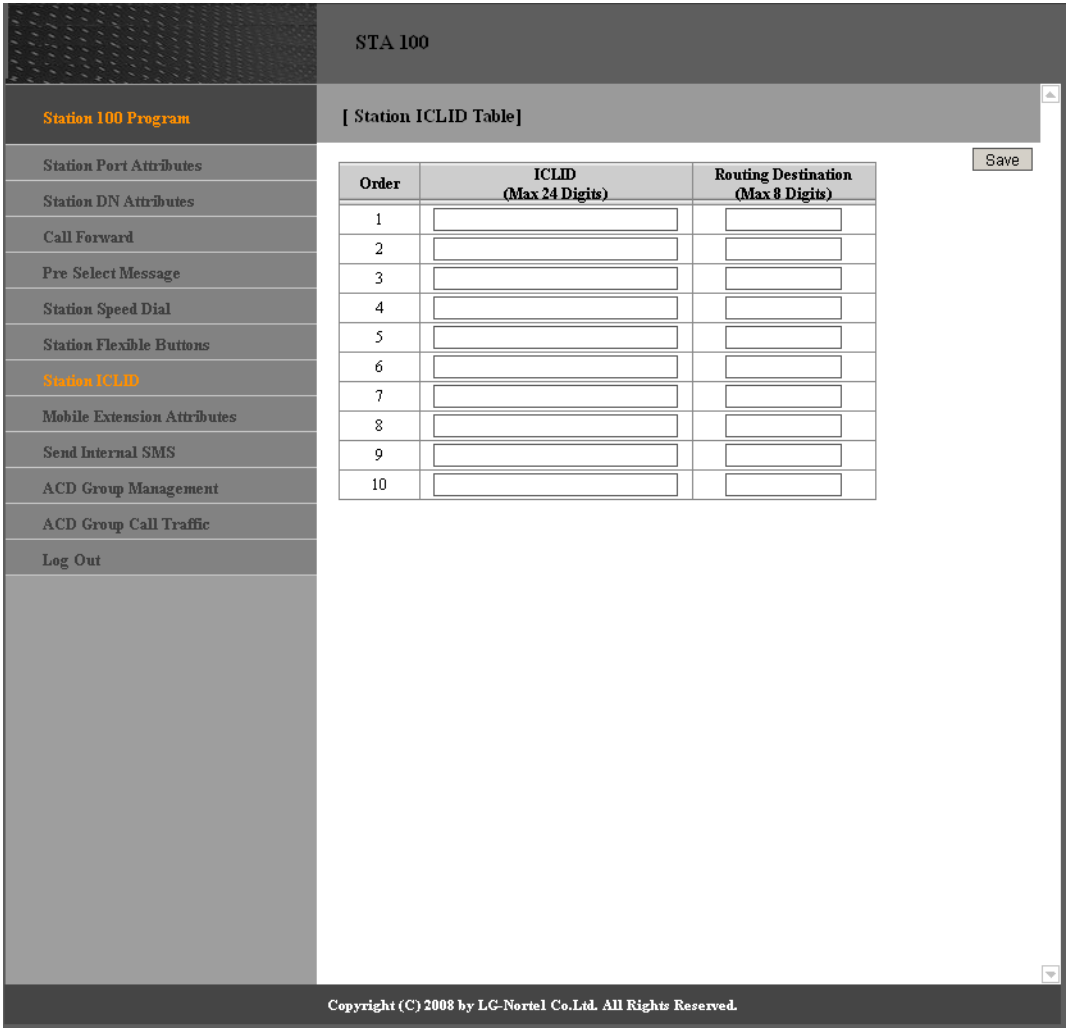
Each Flex button for each Phone/DSS Console can be assigned a function (TYPE) from the pull down menu as shown in the following Table. After selecting the Type for a button, enter the value, if required.

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 - 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 [CALLBACK] button - DND/FWD: assign [DND/FWD] button - TRANSFER: assign [TRANSFER] button - FLASH: assign [FLASH] button - PTT: assign [PTT] button	-	-
Value	Station Number if button is Station Number type, OR Dial digit if button is 'Dial Number' type.	-	-
Ring Option	The Ring Option of Station Number	-	-
Access type	Determines Station Number access type if button is 'Station Number' type. 0. All call: there is no restriction. 1. Seize and Dial: 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. Only answering incoming call is allowed. OR Button Assignment privilege at the station if button is Dial Number type	-	-
Name	Button Name	-	-

Station ICLID

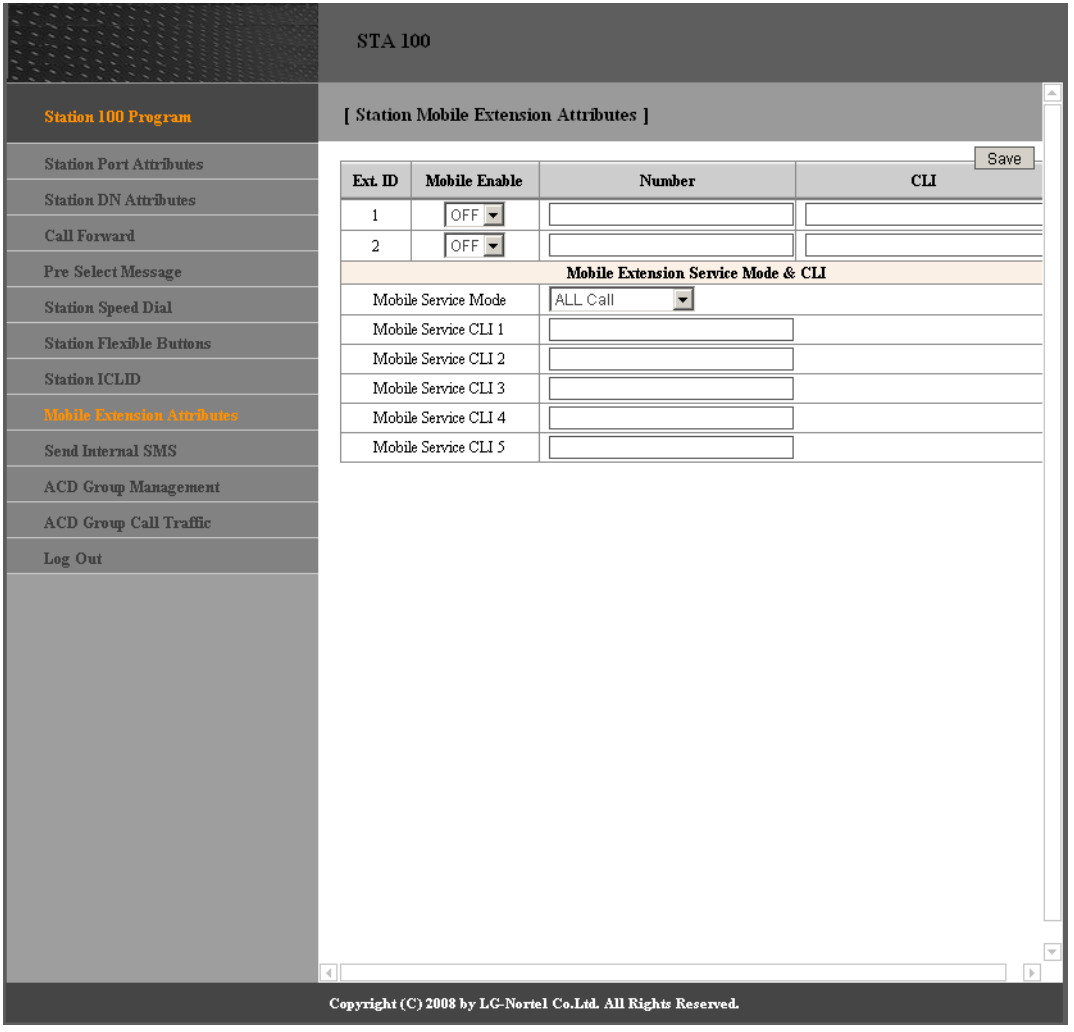
Selecting Station ICLID will display the input entry page shown below.



Each station can assign specific CLI to route other destination.

Mobile Extension Attributes

Selecting Mobile Extension Attributes displays the following input entry page:



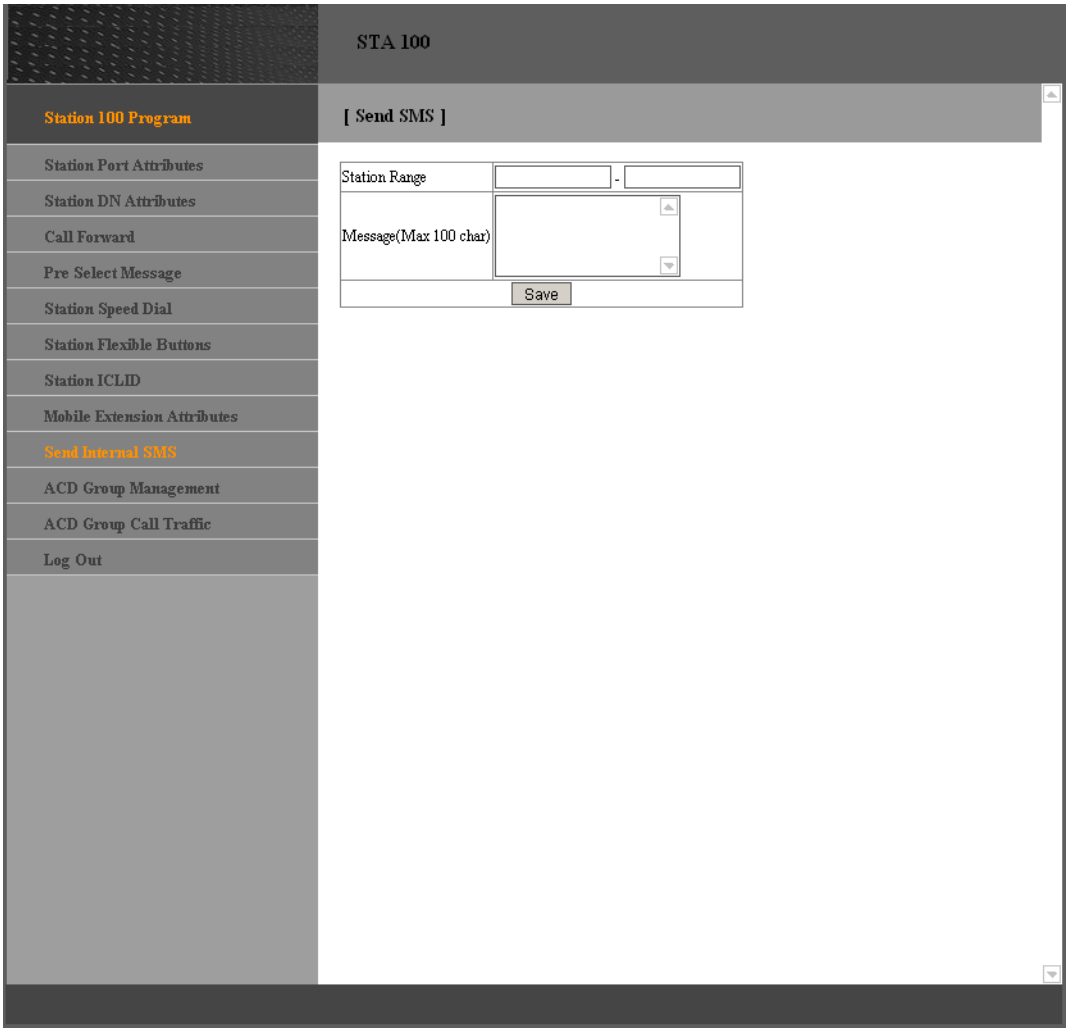
A mobile phone can be used in conjunction with a station. The Mobile phone can access system resources available to the user's wired phone and will receive ringing for incoming calls. The user may be allowed to enable the Mobile extension and define the mobile number.

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.	ALL Call Or, Service CLI only	-
Mobile Service CLI (1 ~ 5)	CLI for Mobile Service	-	-

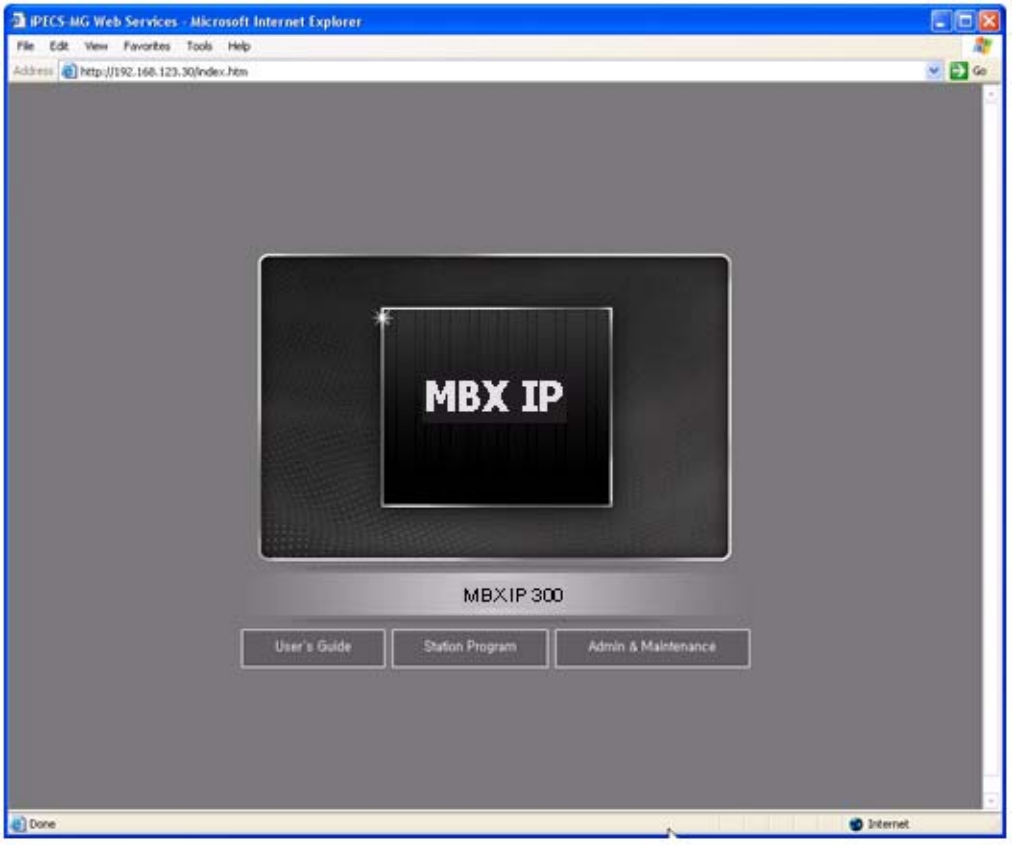
Internal SMS

Selecting Send Internal SMS displays the following input entry page:



Station Logout

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



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