



# SBX IP PC Admin Guide

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## REVISION HISTORY

Release	Date	Documentation Changes	Page No.
3.5	06-10	Station Mailbox feature was added (PGM127).	<a href="#">1-45 &amp; 2-39</a>
		Virtual Mailbox feature was added (PGM129).	<a href="#">1-47 &amp; 2-40</a>
		Voice Mailbox COS feature was added (PGM238).	<a href="#">1-138 &amp; 2-125</a>
3.0	09-08	Speed Editor chapter added.	<a href="#">2-1</a>
2.0	07-08	Offline PC Admin chapter added.	<a href="#">2-1</a>
1.0	01-08	Initial Release NOTE: that this document contains information on ISDN, DCOB, and SMS. These features are currently not supported. Information pertaining to DID pertains only to SIP Trunking.	--

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# SBX IP Online PC Admin

## General Description

### Introduction to Online PC Admin

The SBX IP PC Admin performs the Admin function on your PC instead of a keyset so that you can manage the functions more conveniently. It performs all the function of keyset programming, and runs on Windows NT/2000/XP/Vista.

### Hardware/Software Requirements

#### SBX IP PC Admin

- SBX IP MPB Software preliminary version
- Serial Port that is installed on MPB as a basic option (Basic Serial Port)
- Password for using PC Admin should be set in the MPB
- One IP Address should be set in the MPB for LAN Connection. If you do not know the exact IP address, ask your network administrator.
- Available system: SBX IP Office system.

#### PC

- Pentium Celeron 233MHz CPU or higher (Celeron 333 or more high performance CPU is recommended)
- 256 color Super VGA (800 X 600) or higher (Recommended: 1024 X 768)
- One or more Serial Port: Mouse that has two or more buttons
- At least 64MB RAM (128MB or more RAM is recommended)
- MS-Windows NT/2000/XP
- NIC (Network Interface Card) for LAN connection and ability to connect to the network (Optional)
- MODEM for PSTN connection (Optional)

### Cable

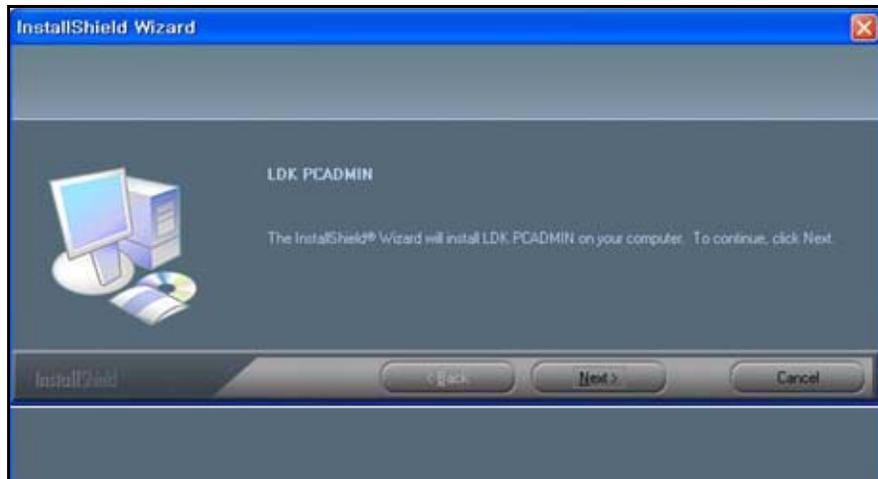
- RS-232C Type Cable to connect the PC and the SBX IP system: Two connectors are needed for this connection. One connector must be a 9-pin female connector that is to be connected to the SBX IP, and the other one must fit the serial port of the PC. There are three required lines that must be connected for the communication between the PC and the SBX IP system: Ground-Ground, Transmit-Transmit, and Receive-Receive.
- RS-232C Type Cable for connecting PC and the system to be routed: There are three required lines that must be connected between the PC and the system to be routed: Ground-Ground, Transmit-Receive, and Receive-Transmit.
- UTP cable is used for the LAN connection.

### Environments for LAN connection

- The SBX IP system should have one IP address and it has to be set for the MPB using PGM108 - Flex button 2.
- If your site uses the firewall or NAT (Network Address Translation)/PAT (Port Address Translation) for security, you need help from the network administrator to use the PC Admin software for remote access.
- If you don't remember the above information, you will not be able to connect to the SBX IP system from outside using PC Admin via Internet.

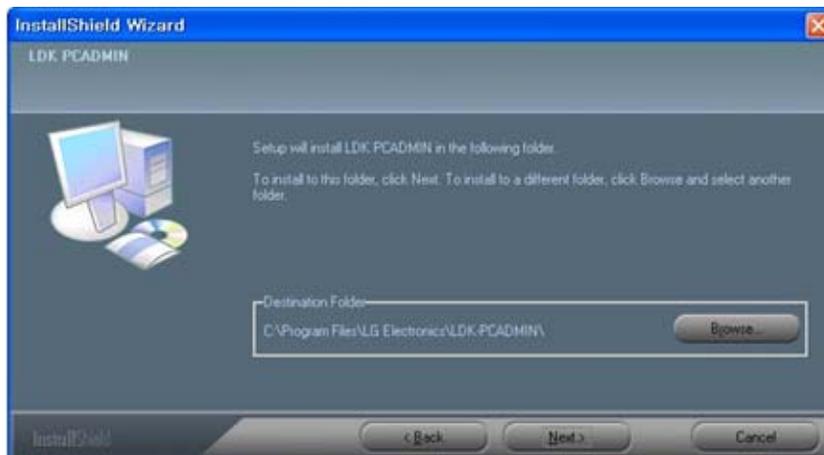
## Installation of the Online PC Admin Software

1. Put the CD-ROM into your PC.
2. Run Explorer on your PC and search for the setup.exe on the CD-ROM.
3. Double-click on the setup.exe file. This will bring up the initial screen for the installation of PC Admin as shown in the following illustration.

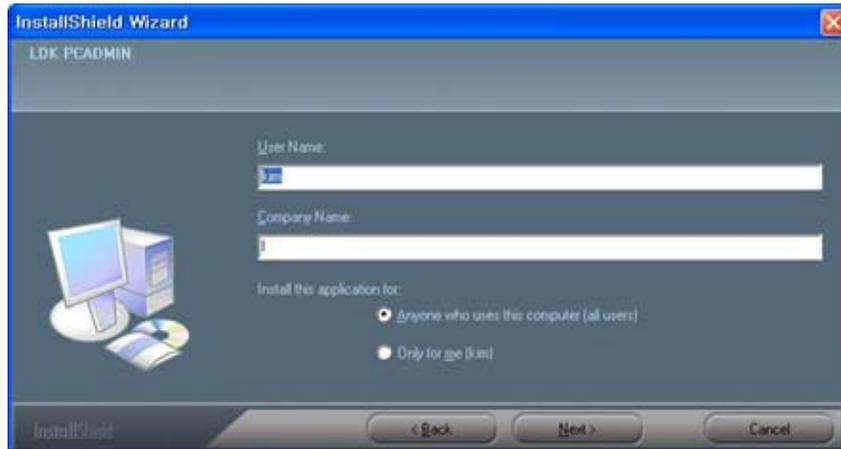


4. Click [Next] to start the install process. If you press the [Cancel] button, the install process will stop.

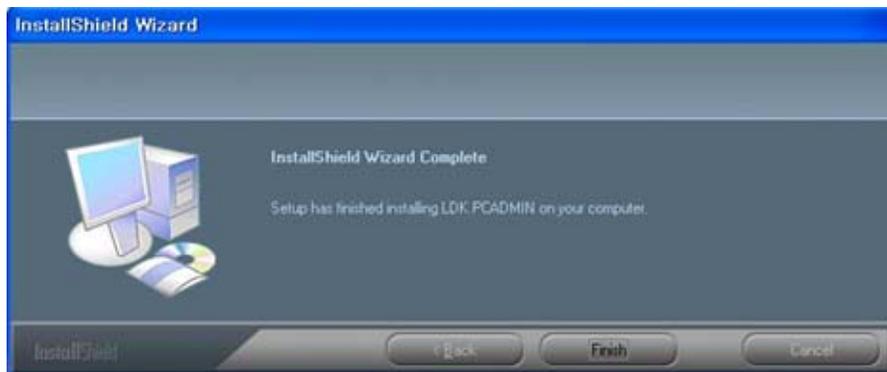
The next step is selecting a location for the installation.



5. You can change the install directory if desired or click [Next] to install the directory to the default directory as shown in the illustration above.



6. Enter a User Name, Company Name, and choose who the application will be installed for. Then click [Next] to copy the files into the install directory that you have selected in the previous step.



7. Click the [Finish] button.

## Brief Outline of PC Admin

This program has a simple menu such as connection and disconnection to the system, Reload, and Debugging Window. All of the admin program is structured in a tree shape. It has 14 upper items, excluding Networking and VoIP. Each of them has lower items. A related program appears at the right side of the tree as you click on an item. Each upper item is implemented on a dialog box that has tabs to classify the lower items.

## Password

As you execute the SBX IP PC Admin application, you will see the box below to enter a user ID and password. An Administrator must assign the user ID, access level, and password for each user.

This password is not related to PGM162. This is a multi-level management for users and it is only for use with PC Admin (Default ID: administrator, Password: 0000).

## Operation

When you launch PC Admin software, a logon dialog box will display. You must enter your user ID and password. An Administrator has the highest priority and level. Only an Administrator can program the user ID and password..

1. Enter your user name and password whenever you want to logon. But if you use the same ID, you can enable the User ID Save field. Then you do not need to enter your user name again. If another user wants to logon, they should enter their own user ID.
2. Press the [OK] button after entering your user ID and password.
3. Follow the instructions in Connection Type Setup, which is described in the next section.

**Login Dialog**

**PC ADMIN**

GSVAD C.5Ac 2009.11.30

Copyright (C) 2005-2009  
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All rights reserved.

**SBX IP**

Enter user ID and Password !

User ID  OK

Password  Cancel

User ID Save

## Connection Type

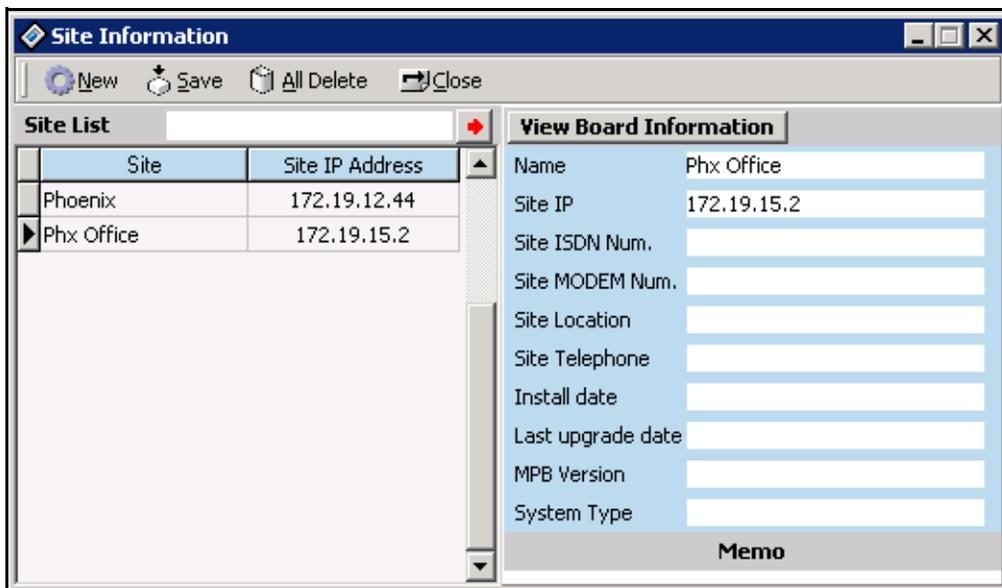
From V3.0, PC Admin supports LAN and serial connections directly. Because the SBX IP system uses a PPP connection, PC Admin can be connected with PPP from your PC. PC Admin uses a small program to manage the connection separately. This connection manager is not done by itself. This module transfers data between the GUI and MPB software.

## Site Management Tool

PC Admin can save simple information for sites so that you can connect to the site directly by using this list.

### Operation

1. [Tools] > [Site Information]



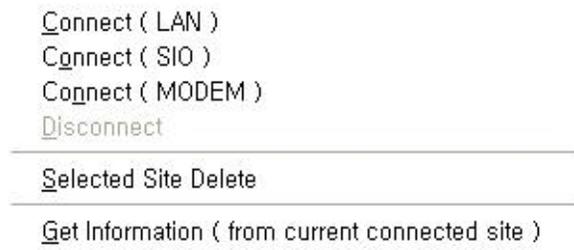
2. Press the [New] button to add site information. A dialog box for each information piece will display in the following order.

Site Name / IP Address / Modem phone number / Location / Telephone number for customer / Install date / Last upgrade date.

The telephone number for customer, install date, and last upgrade date are information for engineering.

3. After setting each field, press the [Save] button to save changes.

4. To connect to a site, move the mouse to the site that you want to connect and right-click with the mouse button. The following selection menu will display.



From this menu, you can select the type of connection.

Use the "Get Information (from current connected site)" to save the basic configuration of the site. If you select this menu during your connection, PC Admin will read the basic slot configuration and will save the data. If you save this data, you can later see this information without connecting to the site.

#### **[File] > [Connect]**

- This menu is for fast connection to the last site that you have visited.
- The PC Admin software remembers the type of connection and connection number (IP address or telephone number) of the last site visited. So, if you want to connect again to the last visited site, select this menu instead of selecting site information.

## **Basic Information**

### **Connect LED**

If connection is established between PC Admin and the SBX IP system, the connect light LED will illuminate. The Tool Bar shows menu items, including connection and disconnection to the system, Reload, Debug Window, and Item Window.

### **Tx/Rx LED**

This LED will illuminate when PC Admin sends or receives data from the SBX IP system.

### **Nation Code and Site Name**

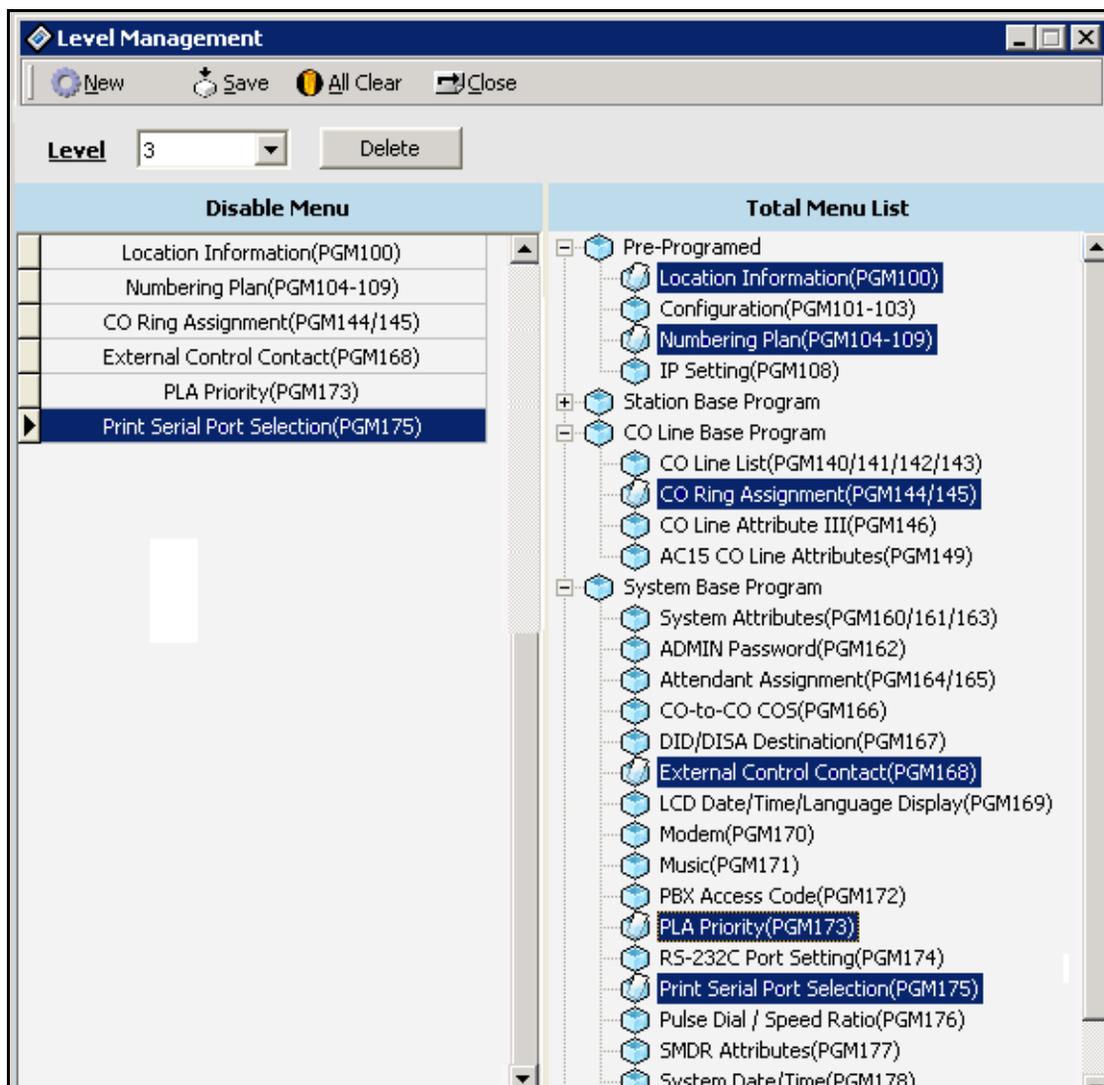
This information will be displayed when connection is established between PC Admin and the SBX IP system.

## Level Management - Administrator Only

### Description and how to program

PC Admin supports multi level of users. Administrator has highest priority and can assign levels to each user.

1. Click on **[Tools] > [Level Management]**. The following window for level management displays.



2. Press [New] button to assign a new level.
3. Enter the level that you want to add.

Duplicated levels are not allowed. After entering a level, you can select the features that you want to disable with the assigned level. If you disable a feature, the user who has this level cannot see the menu in the menu list.

It is possible to select the menu by medium category (For example, PGM108, 111, 141, etc.). You cannot assign a main category such as "Preprogrammed" or "Station Base programming".

4. After configuration, press the [SAVE] button to save changes.  
Use [All clear] to clear the entire level of data.  
Use [Delete] to delete one feature.

### Tip for backup level database

There are two cases where you may need to restore the database or setup multiple customers to the same level database.

Case 1: When you want restore the database after installing the PC Admin again.

Case 2: When you want to setup the same level data to various customers. In other words, you can fix several levels and apply this configuration to all customers. Refer to below instruction.

Backup and restoring the level database requires the use of two files - Lmaster.cds and Ldetail.cds, which are in the installation directory.

If you backup these two files, it will be very helpful for emergency use.

1. Install the PC Admin software in your PC and configure the level/menu with a desired level.
2. Backup the Lmaster.cds and Ldetail.cds files (Default: C:\Program files\LG Electronics\ipLDK PCADM\Data) to your mobile storage device (e.g., floppy diskette, USB memory, CD-ROM, etc.).
3. Go to another site and install the PC Admin package.
4. After installation, copy your preprogrammed DB file from your mobile storage device (Lmaster.cds and Ldetail.cds) to the installation directory (Default: C:\Program files\LG Electronics\ipLDK PCADM\Data).

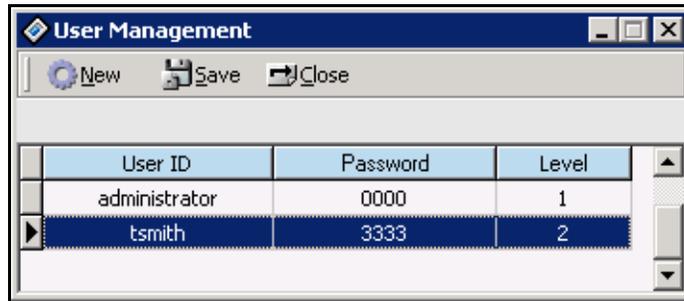
These two files will be overwritten and you can use the PC Admin with the fixed level information that you have programmed.

## User Management - Administrator Only

### Description and how to program

PC Admin supports multiple users with different levels. When you want to add or modify the user information, refer to below description.

1. Click on **[Tools] > [User Management]**. The following window for level management displays.



2. Press the [New] button to add a user. A dialog box will display with fields in the following order.

User Name / Password / Level

After entering the three items, press the [SAVE] button to save the input.

### Tip for backup and restore of user database

To backup the user database, save the attribute.cds file to your mobile storage device. This file is located the installation directory (Default: C:\Program files\LG Electronics\ipLDK PCADM\Data).

To restore the user database, save the attribute.cds file from your mobile storage device to the installation directory.

If you want to backup the databases for level and user, backup the three files.

Lmaster.cds, Ldetail.cds, Attribute.cds

## LDK Utilities

### Description and how to program

PC Admin includes some utilities. You can download the database of the MPB using one of these utilities. Detailed information is described in the user guide. This section provides information about connection type.

#### Included Utilities

- LDK DB Upload / Download software
- LDK Remote Diagnostic software
- LDK Upgrade software
- LDK Speed Editor Path
- LDK Speed Editor

Other utilities are linked with PC Admin software directly because they have strong relationship with PC Admin. So, you just select the correct menu to use them. Speed Editor has different characteristics. Some users do not want to use this utility and other users want to use it. So, SBX IP PC Admin supports an optional Speed Editor. If you want to link speed editor to PC Admin, select [ipLDK Utility] > [ipLDK Speed Editor Path] to link the program. Then you can link the path of which speed editor was installed. After assigning the path, you just select the menu [ipLDK Utility] > [ipLDK Speed Editor] to run the software.

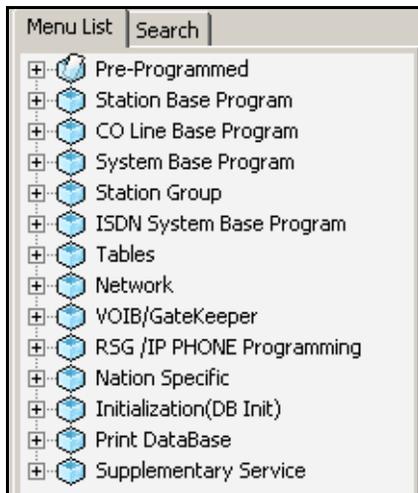
If you want to change the path, use the [ipLDK Utility] > [ipLDK Speed Editor Path] menu again.

### How to upgrade these utilities?

Normally only Speed Editor will be released alone. If Speed Editor is released for update, you just overwrite the old one with the new one. Then you can use the updated speed editor without additional configuration. The other three utilities will normally be released with PC Admin as a package. In special cases, each software may be released individually. You just copy the new software over the old one.

## Pre-Programmed

The SBX IP system is operated by default values when you first install the system. You can change these default values such as Location Information, Slot Assignment, and Numbering Plan. Pre-Programmed items are from PGM 100 to PGM 108. Click on the Pre-Programmed item in the Menu List to expand the menu and to reprogram the desired function.



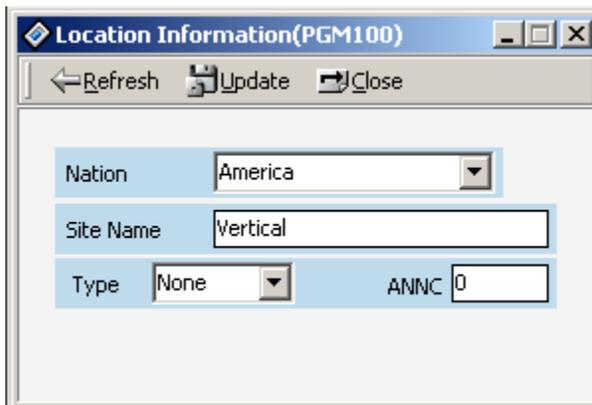
### Location Information (PGM 100)

Set up the Nation Code and Customer Site Name. Name code is the same as long distance telephone code. The site name is the name of your site. This information will be displayed on the menu title bar automatically when you connected to the SBX IP system.



## Operation

1. Click [Location Information].



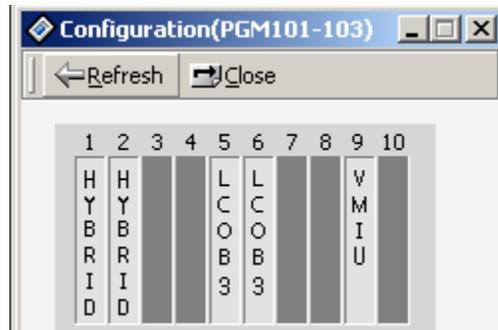
The screenshot shows a window titled "Location Information(PGM100)". At the top, there are three buttons: "Refresh", "Update", and "Close". Below the buttons, there are three input fields:

- Nation:** A dropdown menu with "America" selected.
- Site Name:** A text box containing "Vertical".
- Type:** A dropdown menu with "None" selected, and a text box labeled "ANNC" containing "0".

2. USA is the default value of Nation Code. You can change the code.
3. Before changing the Nation Code, check the DB Protected by DIP4. If DB Protected is enabled, nation code will not be changed.
4. After changing the Nation Code, you have to reset the system. At that time Dip S/W 8 should be located for database protected.
5. You can put any name in the [Customer Site Name] box, up to 23 characters. Both characters and number are available. You can enter lowercase characters.

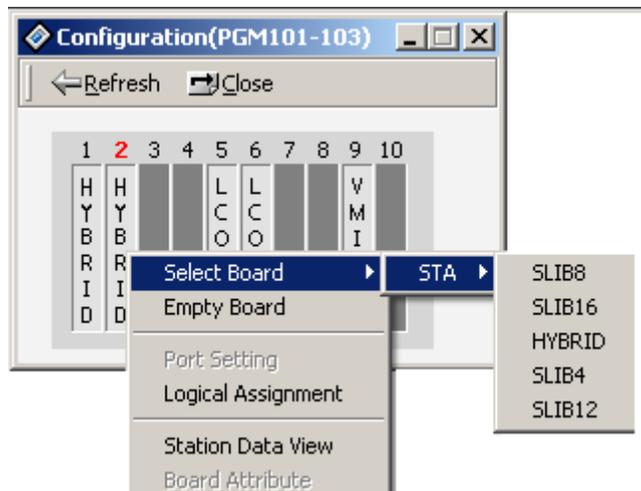
## Slot Assignment (PGM 101)

The SBX IP system supports a max of 10 slots. This program assigns each slot to one type of the boards. Slot Assignment is possible by the system automatically or by the PC Admin program manually. If the dipswitch is off, the system automatically senses the board. If the dipswitch is on, you have to assign each board to the slot where it is placed. Then reset the system. The PC Admin software shows the same shape GUI type for slot configuration.



### Operation

1. Right-click in the upper area of the PC Admin window to display a menu, then click [Configuration]. The configuration window displays similar to that shown above. The window is a GUI type and it will display the correct slot numbers automatically.
2. With this window, you can add/delete slots by GUI screen and mouse operation. If you want to add or delete a slot, right-click on the slot with the mouse. Then a sub menu will display.



**To assign board manually, choose one of the slots and a board type:**

When you use this feature, you can not modify the logical port number, except for the DCOB.

When you assign the DCOB, you can select the logical port number that you want. It has range from 0 to 30 ports.

Any board except the DCOB has a fixed logical port number.

If you want to see the attributes of an installed slot, you can select the "View" menu in above window.

When you select an empty board menu, a confirmation window will be displayed and will ask once more to avoid a mistake.

**Logical Slot Assignment (PGM 103)**

The COL board and STA board is assignable either automatically or manually. If the dipswitch is off, they will be assigned automatically, otherwise manually. The VMIB is assignable only manually, regardless of the dipswitch status.

**Operation**

1. Select the [Logical Assignment] in Rack Slot Assignment Setting Window (Figure 1-1). If any board is preset automatically by the system, it shows the boards on the dialog box.
2. Add the slot to the appropriate location on the right side. If you select the Station board, you should enter the slot to the station window.
3. If you want to change the order of slots, use [Up] and [Down] button to change the order of the boards
4. After editing, press the [Update] button to save changed values.
5. If you want to remove it, select a slot number below COL board, STA board, or VMIB and click the left arrow button [ << ].

In the case of VOIBE, if you select VOIBE slot into any type of COL/STA type, it will be added in the other slot type. For example, if you select a VOIBE slot in COL board type, the PC Admin software will add the VOIBE slot to the STA board type automatically.

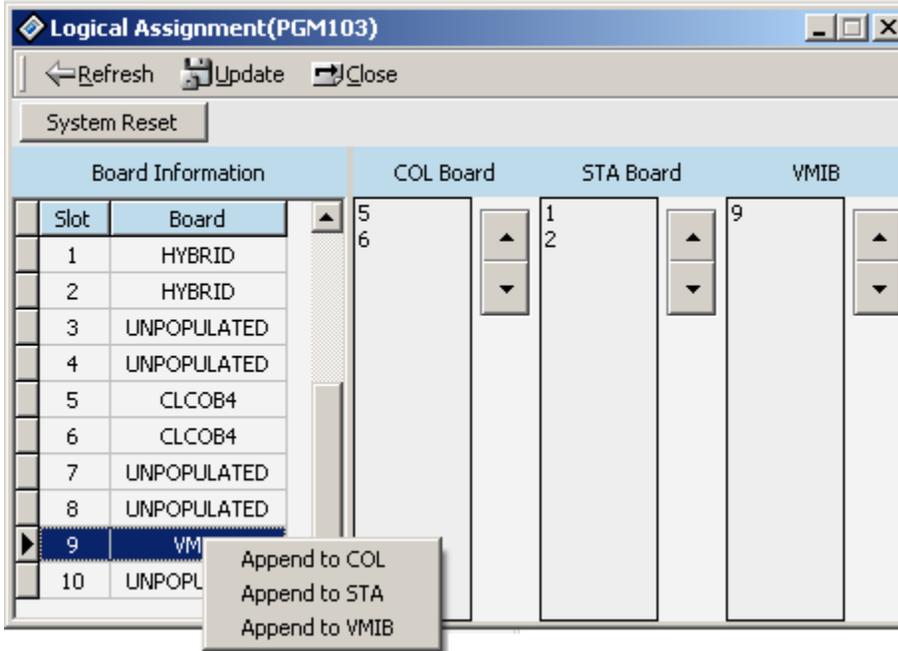


Figure 1-1 Logical Slot Assignment Window

**DIP Switch Configuration for Slot Assignment (PGM103)**

ITEM	REMARK
COL board	DIP ON: Manually DIP OFF: Automatically
STA board	DIP ON: Manually DIP OFF: Automatically
VMIB	DIP ON: Manually DIP OFF: Automatically

## Numbering Plan Type (PGM 104/105/106/107/109)

The default range of the station numbers is from 100 to 131. You can change the range according to the nation or to fit your style. But there is information that you have to remember.

**Note:** If you change the numbering plan type when you are using the PC admin, you have to reload the flexible number plan - Station number (PGM 105) information. If you don't reload that information, range information will be faulty.

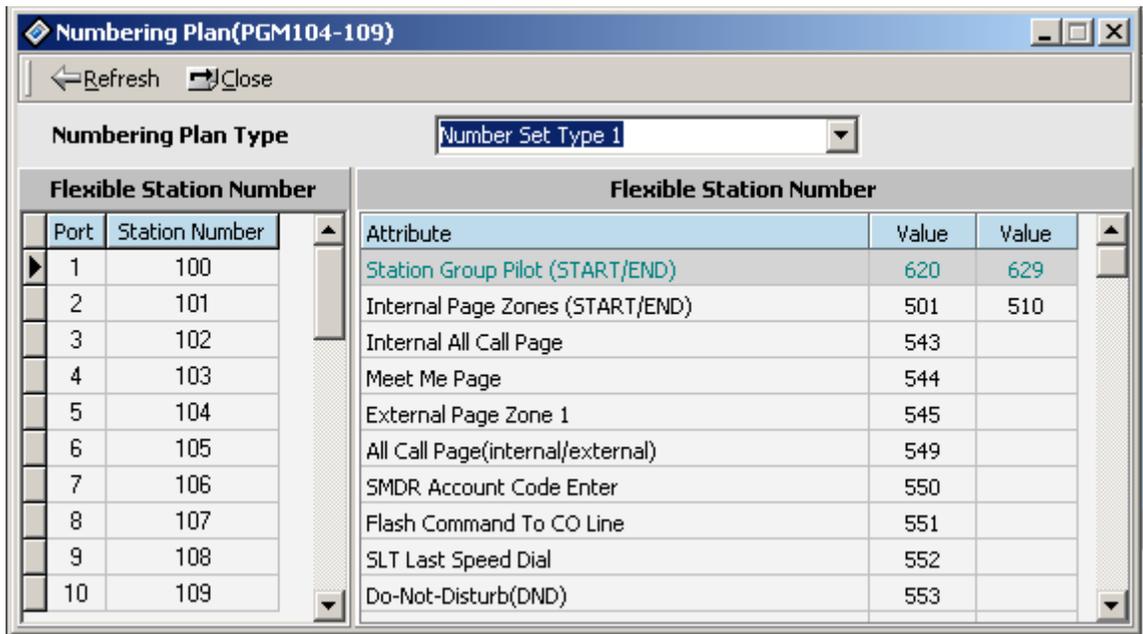
### Operation

1. Click [Numbering Plan] menu in left main menu. Then you will see the below screen.

With this window, you can program all kinds of numbering plan.

You can change the station range from any position.

When you select [All Station Delete], a confirmation window will be displayed and will ask once to avoid making a mistake.



2. Use the following table and change the Number Set Type.

## Flexible Numbering Plan for SBX IP (PGM104)

ITEM	INTERCOM RANGE	DEFAULT	REMARK
Number Set Type 1	100-131	Yes	As the basic type, the 1st digit of the station numbers should be 1-4.
Number Set Type 2	100-131	No	The number can be changed within 799
Number Set Type 3	100-131	No	Australia default
Number Set Type 4	700-731	No	New Zealand default
Number Set Type 5	200-231	No	Italy default
Number Set Type 6	21-53	No	Max Station Ports: 32 Stations above max ports will be displayed as "****"
Number Set Type 7	100-131	No	Max Station Ports: 32 Stations above max ports will be displayed as "****"
Number Set Type 8	100-131	No	The number can be changed within 999

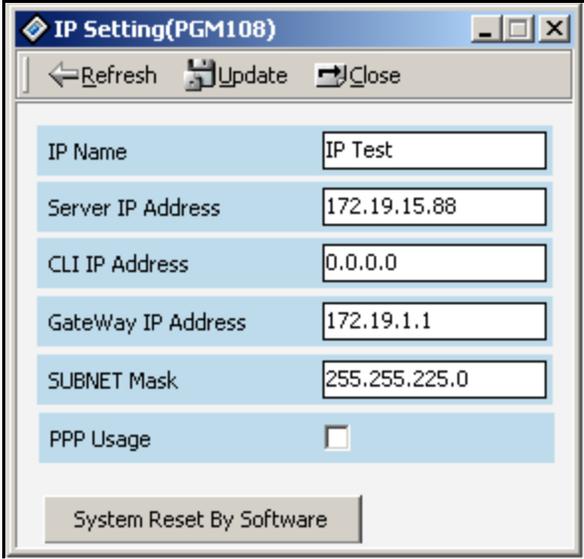
## IP Setting (PGM 108)

You must set the IP Address to transport data remotely through the network.

### Operation

1. Select [IP Setting]. Default values are displayed.
2. IP Name has no meaning at all. Enter a name of up to 15 characters. You can put the hostname if you want. But in that case, it is not a real hostname (optional).
3. Enter the Server IP Address of the SBX IP system. The IP address is assigned by the network administrator. If you don't want to use the network connection, you might skip this feature. But if you want to use a network connection, you must configure this feature.
4. Enter the Client CLI IP Address (optional).
5. Enter the Gateway Address (the IP Address of the gateway that the system uses). If you do not enter the Gateway's IP Address, you can not access the SBX IP system from another LAN segment that is separated by a router or 3-layer switch.

**Note:** Subnet Mask is 255.255.255.0 by default.



Field	Value
IP Name	IP Test
Server IP Address	172.19.15.88
CLI IP Address	0.0.0.0
GateWay IP Address	172.19.1.1
SUBNET Mask	255.255.225.0
PPP Usage	<input type="checkbox"/>

System Reset By Software

**Note:** If your network uses a firewall, NAT (Network Address Translation) or PAT (Port Address Translation), you should contact your network administrator. In that case, you can't connect the SBX IP system using PC Admin software from a remote site (not your network) without your network administrator's help.

## Board Attributes (PGM 155)

You can program the board attributes of equipped board.

### Operation

1. [Configuration] > [Select slot] > [Board Attribute (R2 CRC Check)].
2. If you select the slot number, then R2 CRC Check data will be displayed.
3. If selected board is not DCOB12, a message box will display that says "The selected slot is not DCOB12."

## Station Base Program

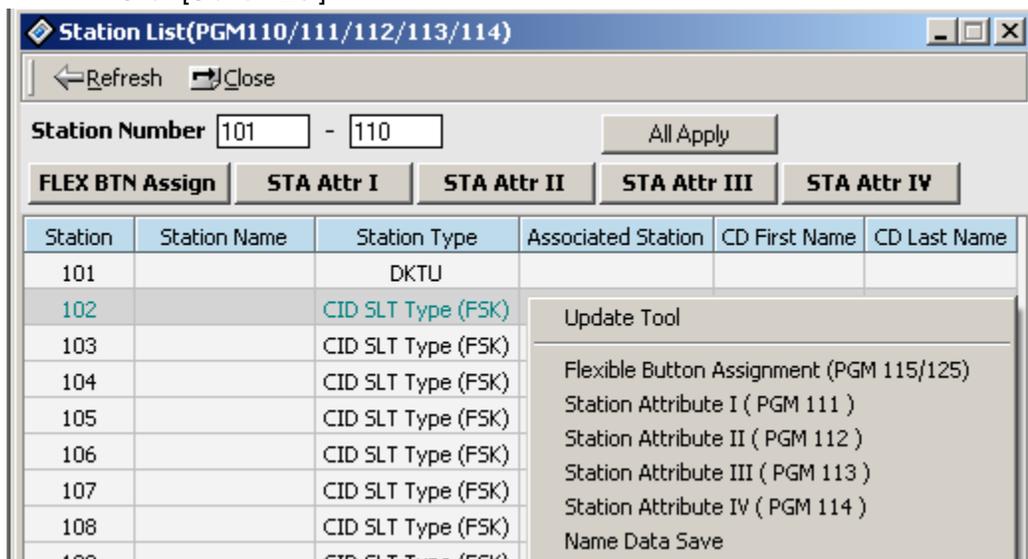
Use Station Base Programming to change any station related function. Station Base Program items are from PGM 110 to PGM 131 & 250. When you use station base program items, you must enter the station range.

### Station ID Assignment (PGM 110/111/112/113/114)

This menu is related with assigning the phone type for each station. First, select the station list. In this window, you can select other menus such as station attributes or flex button assignment.

### Operation

1. Click [Station List].



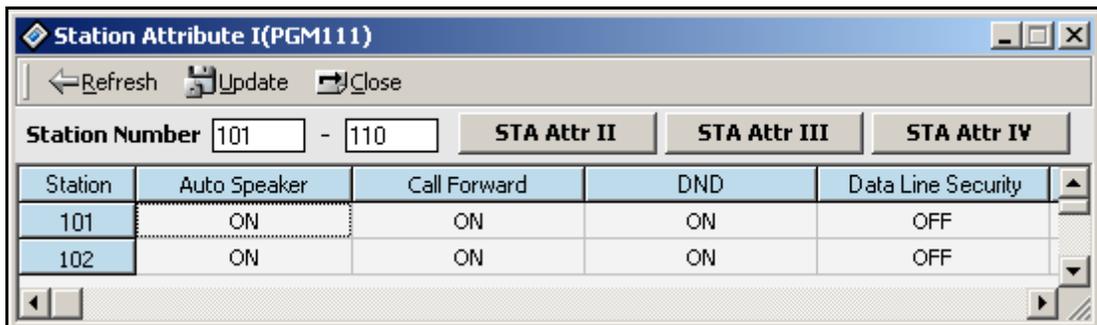
2. Right-click for other programming.
3. Select the menu that you want to change. Then a different window for the menu that you selected will display.

For example, the following window displays Station Attribute I (PGM111).

[All Apply] can be used when you want to update all.

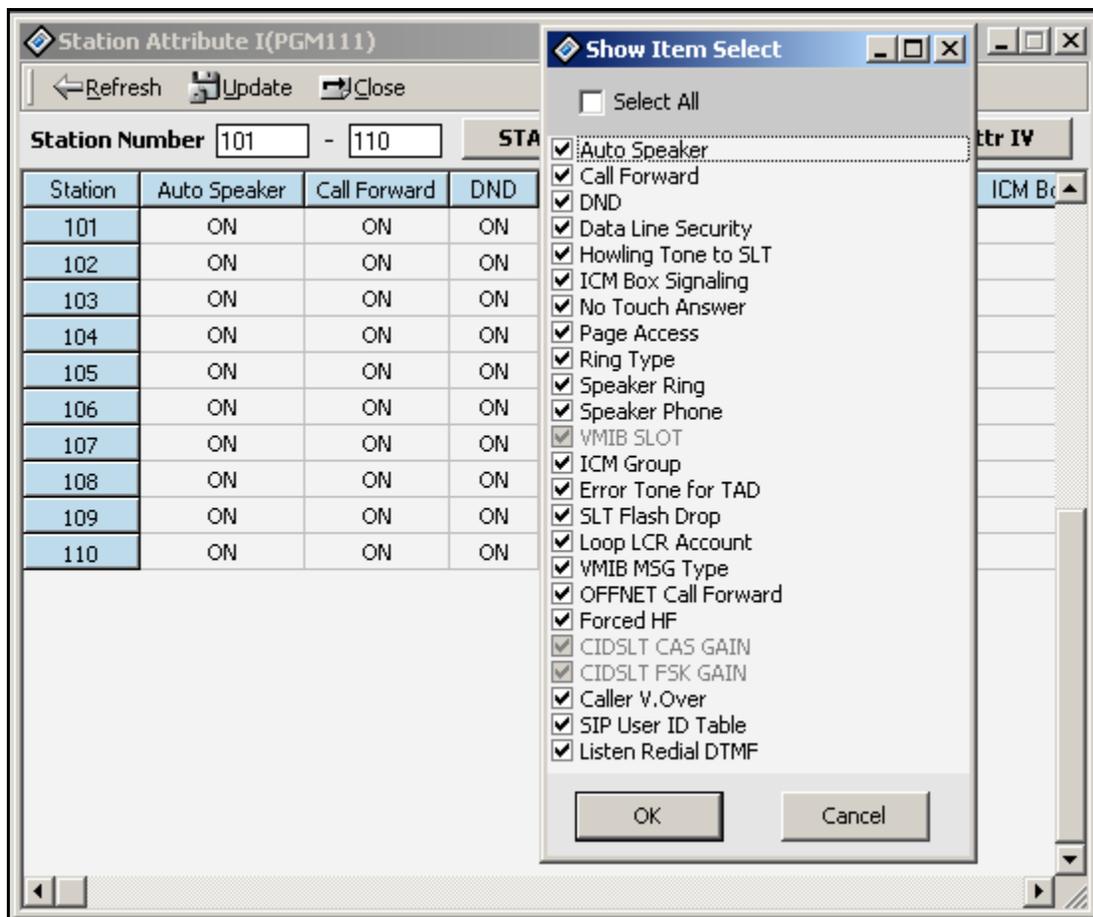
[Name Data Save] can be used when you want to save ("Station Name").

[Name Data Load] can be used when you want to load from a saved file (The file should be created by using the [Name Data Save] feature).



You can see all attributes by pressing [STA Attr II/III/IV] tab buttons and scrolling to the right.

4. Right-click and click on the [View Option]. The Show Item Select window will display as shown in the following illustration. If you want to see specific features, click the desired check boxes in this window, then click OK. PC Admin will display the attributes that you have selected.



- To edit the attribute, right-click and select the [Edit Tool] option. The edit window will display and you can edit the attributes.

The screenshot shows the 'Station Attribute I (PGM111)' window. At the top, there are buttons for 'Refresh', 'Update', and 'Close'. Below this, the 'Station Number' is set to '101 - 110'. There are three tabs: 'STA Attr II', 'STA Attr III', and 'STA Attr IV'. On the left, a list of stations from 101 to 110 is shown, with 101-110 selected. The main area is titled 'Edit Tool' and shows the configuration for station 102. It includes a 'Station' field with '102', navigation buttons '<' and '>', and buttons for 'Edit OK', 'Edit OK and Next', 'Close', and 'All Edit OK'. A 'Select All' checkbox is checked. The configuration is organized into two columns of options, each with a checked checkbox, a dropdown menu, and a value field.

Option	Value	Option	Value
<input checked="" type="checkbox"/> Auto Speaker	ON	<input checked="" type="checkbox"/> ICM Group	1
<input checked="" type="checkbox"/> Call Forward	ON	<input checked="" type="checkbox"/> Error Tone for TAD	OFF
<input checked="" type="checkbox"/> DND	ON	<input checked="" type="checkbox"/> SLT Flash Drop	Disable
<input checked="" type="checkbox"/> Data Line Security	OFF	<input checked="" type="checkbox"/> Loop LCR Account	OFF
<input checked="" type="checkbox"/> Howling Tone to SLT	ON	<input checked="" type="checkbox"/> VMIB MSG Type	LIFO
<input checked="" type="checkbox"/> ICM Box Signaling	OFF	<input checked="" type="checkbox"/> OFFNET Call Forward	Enable
<input checked="" type="checkbox"/> No Touch Answer	ON	<input checked="" type="checkbox"/> Forced HF	OFF
<input checked="" type="checkbox"/> Page Access	OFF	<input checked="" type="checkbox"/> CIDSLT CAS GAIN	5
<input checked="" type="checkbox"/> Ring Type	0	<input checked="" type="checkbox"/> CIDSLT FSK GAIN	5
<input checked="" type="checkbox"/> Speaker Ring	S	<input checked="" type="checkbox"/> Caller V.Over	OFF
<input checked="" type="checkbox"/> Speaker Phone	ON	<input checked="" type="checkbox"/> SIP User ID Table	0
<input checked="" type="checkbox"/> VMIB SLOT	0	<input checked="" type="checkbox"/> Listen Redial DTMF	ON

- After editing, press the [Update] button to save the changed values.

## Station Attributes I (PGM111)

ITEM	RANGE	DEFAULT	REMARK
Auto Speaker Selection	ON/OFF	ON	Allows accessing a CO line or placing a DSS call by pressing an appropriate {CO} or {DSS} button without lifting the handset or pressing the [SPEAKER] button
Call Forward	ON/OFF	ON	Enables Call Forward to be activated by the station
DND	ON/OFF	ON	Enables DND to be activated by the station
Data Line Security	ON/OFF	OFF	ON protects from override and camp-on, when in a busy state
Howling Tone to SLT	ON/OFF	ON	The allowance to give howling tone to an SLT
ICM Box Signaling	ON/OFF	OFF	Allows receiving ICM box / Doorbox signal
No Touch Answer	ON/OFF	ON	The allowance to connect the transferred CO line automatically when station mode is set to H/P
Page Access	ON/OFF	OFF	Allows access to paging by the station
Ring Type	0-4	0	The station can give its own ring type signal to another station in the system through this field calling party centric
Speaker Ring	1-3	1	Station rings through (1) Speaker, (2) Headset, or (3) Both speaker & headset
Speakerphone	ON/OFF	ON	ON allows operation with Speakerphone
VMIB Slot	0-2	0	Assign VMIB logical slot the station uses
ICM Group	1-5	1	Assign the ICM Tenancy Group to which the stations belong
Error Tone for Tad	ON/OFF	OFF	In Answering machine instead of SLT, send Busy Tone
SLT Flash Drop	ON/OFF	OFF	In SLT, pressing [FLASH] key or hook flashing will drop the CO Call
Loop LCR Account Code	ON/OFF	OFF	Check Account Code at Loop LCR <b>(Except AUS_TELSTRA)</b>
VMIB Message Type	FIFO/ LIFO	LIFO	Priority to play VMIB message

## Station Attributes I (PGM111)

ITEM	RANGE	DEFAULT	REMARK
Off-net Call Forward	EN/DIS	EN	The possibility to enable/disable Off-net call forward
Force HF	ON/OFF	OFF	Forced Handsfree configuration (from V3)
Reserved	--	--	--
Reserved	--	--	--
Caller Voice Over	ON/OFF	OFF	Caller Voice Over option (ON/OFF)
SIP User Bin	00-32	00	UID table index for SIP outgoing call VOIB make "From" header if this value is: 00: Use COLP 01-32: Use SIP UID (PGM351-1)
Redial DTMF	ON/OFF	ON	

## Station Attributes II (PGM112)

ITEM	RANGE	DEFAULT	REMARK
CO Warning Tone	ON/OFF	ON	The allowance to receive warning tone to remind of the call elapse time in case of outgoing CO conversation
Automatic Hold	ON/OFF	ON	While on a CO line, the station user seizes another CO line by depressing the {CO} button. The first CO line goes on Hold automatically (STA2:ON).
CO Call Time Restriction	ON/OFF	OFF	If this flag is set to YES, a station's outgoing CO call may be disconnected when the CO call restriction timer (PGM180-Btn 17) expires
CO Line Access	ENABLE/DISABLE	ENABLE	The allowance to access individual CO line by dialing
CO Line Queuing	ENABLE/DISABLE	ENABLE	The allowance of queuing for a busy CO/group of lines
CO PGM	ENABLE/DISABLE	DISABLE	Determines if a station user can program CO button

## Station Attributes II (PGM112)

ITEM	RANGE	DEFAULT	REMARK
PLA	ENABLE/ DISABLE	ENABLE	The allowance to answer calls by simply lifting handset or pressing the [SPEAKER] button with the answering priority
Prepaid Call	ON/OFF	OFF	The allowance to use the Prepaid CO Call feature (refer to PGM180-Btn16)
Speed Dial Access	ENABLE/ DISABLE	ENABLE	Allows access to system speed dial by the station
Two Way Record	ON/OFF	OFF	During incoming or outgoing call, user can record the conversation of both parties.
Fax Mode	ON/OFF	OFF	In Fax mode, Single ring and No Attendant Recall
Off-net Call Mode	EXT/ALL	ALL	ALL: Internal Off-net Call Fwd and External Off-net Call Fwd are allowed. EXT: only External Off-net Call Fwd is allowed
UCD Grp Service	ON/OFF	OFF	When DID/DISA call destination is STA: ON: ring to UCD Grp to which the station belongs OFF: ring to the station
Ring Grp Service	ON/OFF	OFF	When DID/DISA call destination is STA, ON: ring to Ring Grp to which the station belongs OFF: ring to the station
Stop Camp On Tone	ENABLE/ DISABLE	DISABLE	ENABLE prevents the Camp on Tone from sounding
Line Length	SHORT/ LONG/ FAR	SHORT	Line Length
MSG SCRL SPD	0-7	3	Scroll speed when a broadcasting message is displayed
Block Back Call	ON/OFF	OFF	To prevent unattended recalling, the 1st CO line will be disconnected if an SLT seizes a 2nd CO line with FLASH
I-Time RST	ON/OFF	OFF	Internal RST
Stn Auth Chk	ON/OFF	OFF	Station authentication check
Reserved	ON/OFF	OFF	--
Door Open	EN/DIS	EN	Door open enable
Dummy Stn	ON/OFF	OFF	Dummy Station Usage
Emergency Supervisor	ON/OFF	OFF	

## Station Attributes III (PGM113)

ITEM	RANGE	DEFAULT	REMARK
Admin	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to program the Admin Database. This feature is available at only DKTUs (STA 100 is Enabled by default).
VMIB Access	ENABLE/ DISABLE	ENABLE	ENABLE allows access to the Digital Voice Unit
Group Listening	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to use group listening (While you are talking on handset, by pressing the [SPEAKER] button, other persons around you may hear the conversation through the speaker of the key telephone).
Override Privilege	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to override a CO line to gain access to the conversation
SMDR Hidden Dialed Digits	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to hide CO dialing numbers from SMDR printing
Voice Over	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to use Voice Over feature
Warm Line	HOT/ WARM	WARM	This field is determined that Warm Line (OFF) or Hot Line (ON) in PGM 122.
VMIB MSG Password	ON/OFF	OFF	ON allows the station to use VMIB MSG Password attributes
VMIB MSG Date/Time	ON/OFF	ON	The allowance to use VMIB MSG
ALARM Attribute	ON/OFF	OFF	Basic Alarm
Mute Ring Service	ON/OFF	ON	Mute Ring Service configuration
Call Cut Off Timer	00-99	00	If the timer expires, the call is released and the user receives a disconnect tone
Barge In Mode	0-2	0	0: OFF 1: Monitor Mode: The intruding extension can listen to the existing conversation but cannot participate. 2: Speech Mode: The intruding extension can listen to and join to the existing conversation.
Auto Forward to VMIB	ON/OFF	ON	

## Station Attributes III (PGM113)

ITEM	RANGE	DEFAULT	REMARK
Station Port Block	ON/OFF	OFF	If this value is set to ON, the station is blocked and it is impossible to use that station
Pre-selected MSG DND	ON/OFF	OFF	
Park and Page	ON/OFF	OFF	
Call Coverage	ON/OFF	OFF	
DND to VM	ON/OFF	ON	
Back Light	ON/OFF	OFF	

## ISDN Station Attributes (PGM114)

ITEM	RANGE	DEFAULT	REMARK
CLIP LCD Display	ON/OFF	ON	This field is determined whether a station displays CLIP
COLP LCD Display	ON/OFF	OFF	This field is determined whether a station displays COLP
CLI / Redirect Display	0-1	0	To Select Original CLI or Redirected CLI. 0: Original CLI, 1: Redirected CLI
CLI MSG Wait	ON/OFF	OFF	An ON setting allows a station to receive CO message wait indications
Ext or CO ATD	ATD/EXT	EXT	To Select EXT (extension number) or CO ATD to make outgoing CLI or COLP information
Keypad Facility	KEYPAD/DTMF	DTMF	This field determines whether an ISDN station sends digit in DTMF or keypad facility after connected
LONG/SHORT	LONG/SHORT	SHORT	This field determines whether an ISDN station acts in Short passive mode or in the Long mode.
CPN Type	0-2	0	This field indicates how the CPN IE is filled in SETUP message. 0: Do not sent CPN (Called Party Number) to S0. In this case, all S0 STA of the S port will be ringing. 1: Send station number as CPN 2: Bypass the CPN from the network. (In options 1 & 2, only one specific STA will be ringing)

## ISDN Station Attributes (PGM114)

ITEM	RANGE	DEFAULT	REMARK
Sub Address	0-2	0	This field indicates how the sub-address is used in the SETUP message. 0: Station sub-address not used. 1: Sub-address is filled in the CPN field of SETUP message. 2: Sub-address is filled in the CPSN (Called Party Sub-address Number) field of SETUP.
DISA Restriction	ON/OFF	OFF	If this value is set to ON, the station is restricted to receive the DISA incoming call.
CLI Name Display	ON/OFF	OFF	If this field is ON, the system checks whether the received CLI matches speed dial data. If they match, the speed dial name displays.
ISDN CLI STA	Max 4 digits	Logical STA No.	If outgoing CLI is active and CLI type is EXT, this field used when make outgoing CLI.
Progress Indication	ON/OFF	OFF	If this field is set to ON and an SLT seizes an ISDN line, the progress indication IE that indicates the originator is non-ISDN device is made in the SETUP message.
ISDN CLIR	ON/OFF	OFF	If this field is set to ON, does not send CLI Information and restrict PX send it
ISDN COLR	ON/OFF	OFF	If this field is set to ON, does not send CLI Information and restrict PX send it
DID Restriction	ON/OFF	OFF	Restrict the DID Call
DID Call Wait	ON/OFF	OFF	New DID Call waiting indicator
CLI Type	0-1	0	1: Long: Use station CLI with PGM114-BTN19. (max 12) 0: Short: Use station CLI with PGM114-BTN12 (max 4)
Long Station CLI	Max 12 Digits	Logical STA No.	If outgoing CLI is active and CLI type is EXT, this field used when making outgoing CLI
MSN Wait	ON/OFF	OFF	New virtual MSN call waiting enable
Long CLI 1	Max 16 Digits	Long CLI 1	
Long CLI 2	Max 16 Digits	Long CLI 2	
CC Blocking	ON/OFF	ON	

## Flex Buttons Assignment (PGM 115)

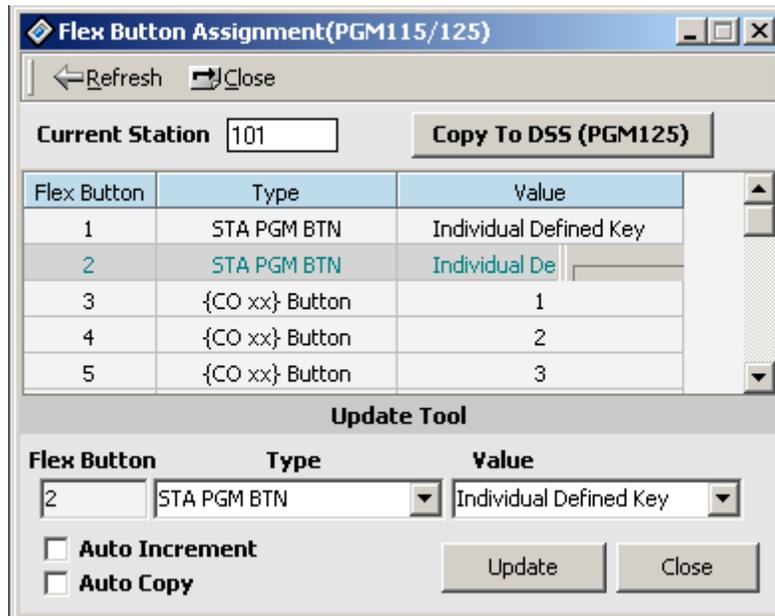
This feature is to enable programming flexible button and copy feature (PGM 125). Select [Flexible button assignment] from the popup menu and the configuration window displays.

### Operation

1. Select [Flex Button Assignment].
2. Click the [Update] button to edit data.

Flex Button	Type	Value
1	STA PGM BTN	Individual Defined Key
2	STA PGM BTN	Individual Defined Key
3	{CO xx} Button	1
4	{CO xx} Button	2
5	{CO xx} Button	3
6	{CO xx} Button	4
7	{LOOP}	
8	{CO Grp xx}	1
9	Not Assigned	
10	Not Assigned	
11	Not Assigned	

- To assign another function to a flex button, double-click on the row of the flex button. The following dialog window displays.



- Refer to the following table, and select the type and value in the update tool. Pressing [Update], displays the changed values. If the data is not in the range specified in the table, you will receive an error message.

Before you enter the new value, check the data with the Station Attributes I (PGM111) window to avoid entering duplicated values.

[Auto Increment] means that you don't need to select the next index. If this field is enabled and you press the [Update] button, PC Admin will increase the Flex button index automatically. So, you can continue programming buttons without moving the cursor to next index (from V3 only).

[Auto Copy]: If this field is enabled, you can copy a button to another button without deleting and reprogramming the same data. For example, Flex Button 10 has station 1000 and you want to move this PGM to BTN 11. Select Flex Button 10 and press the [Update] button with enabled [Auto Copy]. Then PC Admin and the MPB will delete the function under Flex Button 10 and save the same data under Flex Button 11. Duplication is available with some PGMs (Ex: Loop button) and some PGMs will not be allowed, dependant on MPB validation.

[Auto Increment] and [Auto Copy] are exclusive. You can select only one at one time.

<b>Information for Flex Button Assignment</b>			
<b>NO.</b>	<b>TYPE</b>	<b>RANGE</b>	<b>REMARK</b>
1	User Button	--	User can program by button programming procedure.
2	{CO xx} Button	01-12	CO Line
3	{CO Grp xx}	01-24	CO Group
4	{LOOP}	Loop Button	--
5	{STA xxxx}	100-131	Station Number
6	STA PGM Button	11-99	--
7	{STA SPD xx}	00-99	Station Speed Bin
8	{SYS SPD xxxx}	2000-2499	System Speed Bin
9	Num Plan Button	Num Plan Code	--
10	Net DSS Button	Net DSS number checked by MPB	When using the Networking feature
11	Reserved	--	--

## Station COS (PGM 116)

You can change the COS (Class of Service) for each station. COS is from COS 1 to COS 7. All station COS for day and night operation is COS 1 by default.

For a particular call, the CO COS is combined with station COS to determine the restriction. Each station must be assigned a class of service which governs the station's toll restriction for the day and night operation. The weekend COS is same as night COS.

### Operation

1. Click [Display Station COS].
2. Enter a station range, then click on the [View] button.
3. For day and night you select a station COS, and press the [Refresh] button. You can see the COS information that you have selected.

Station Number	Station	Day COS	Night COS
1	101	1	1
2	102	1	1
3	103	1	1
4	104	1	1
5	105	1	1
6	106	1	1
7	107	1	1
8	108	1	1
	109	1	1
	110	1	1

- To update the COS level, right-click in the window and click on the [Update Tool] button. The following Update Tool displays where you can change values. With this tool, you can edit one station or a range of stations.

The screenshot shows a window titled "Display station COS(PGM116/130)". At the top, there are controls for "Refresh" and "Close". Below that, there are dropdown menus for "COS Type" (set to "Day") and "Level", and input fields for "Station Range" (101 to 110). The main area contains a table with columns: "Station Number", "Station", "Day COS", and "Night COS". The table has 10 rows, all with "1" in the "Day COS" and "Night COS" columns. An "Update Tool" dialog box is overlaid on the table. It has two sections: one for a single station and one for a range of stations. Each section includes a "Station" input field, "Day COS" and "Night COS" dropdown menus, and an "Update" button. A "Close" button is at the bottom of the dialog.

Station Number	Station	Day COS	Night COS
		1	1
		1	1
		1	1
		1	1
		1	1
		1	1
		1	1
		1	1
		1	1

- After entering the values, press the [Update] button to save the changes.

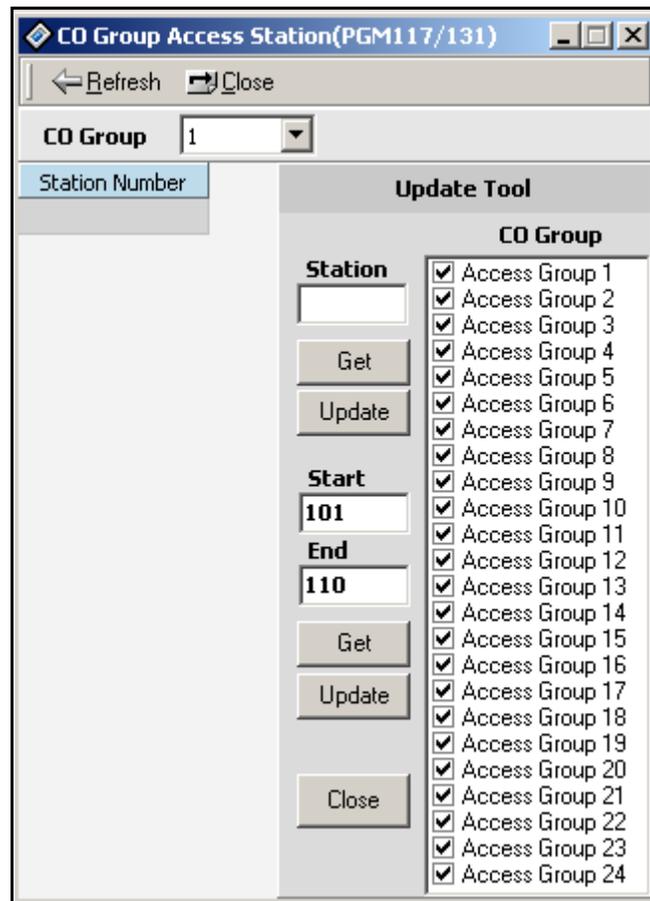
## CO Group Access Station (PGM 117)

You can divide the CO lines by group, and give a station access to a specified CO line group. All stations can access any CO line by default.

### Operation

Click [CO Group Access Station].

This feature has the same operation as Station COS. You can see the accessible group base station list. If you wants to see the stations which are accessible to group 1, select the CO group number 1 and press the [Refresh] button. Then stations that can access CO group 1 will display.



## Internal Page Zone Access (PGM 118)

Each station can be assigned to an internal paging zone. You can assign a station in a number of zones or no zone at all. If a station is not in any internal zone, it will not receive any page announcement. The system supports 5 internal paging zones.

### Operation

1. Click [Internal Page Zone Access].
2. Select the page zone number and click [Refresh] button. Then the available station list will be displayed.
3. The rest of the operation is the same as the CO Group Access feature.

## Conference Page Zone (PGM 119)

Each station can be assigned to a conference paging zone. You can assign a station in a number of zones or no zone at all. The system supports a total of 5 conference paging zones.

### Operation

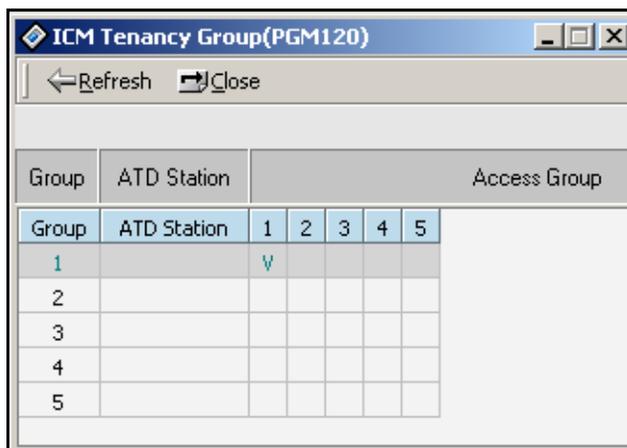
1. Click [Conference Page Zone].
2. Select the conference page zone and click [Refresh] to see the station list that is able to access a specified conference page zone.
3. The rest of the operation is the same as PGM 118.

## ICM Tenancy Group (PGM 120)

You may assign a station to an ICM Tenancy Group, and restrict ICM Tenancy Groups to call each other. Each ICM Tenancy Group can be assigned a different attendant.

### Operation

1. Click [ICM Tenancy Group]. Then all ICM tenancy group information is displayed on one screen.
2. Select an ICM Tenancy Group that you want to change and click the [Update] button in the popup menu.



3. Put an attendant station number for the ICM Tenancy Group you have just selected.
4. Click each ICM group check box that you want to access.
5. After all changes press the [Update] button to save changes.

## Preset Call Forward (PGM 121)

If a station does not respond to an outside call for a certain period of time, the call may be forwarded to another station.

### Operation

1. Click [Preset Call Forward]. Then programmed preset call forward pair will be displayed.
2. If there is no pair data, the window will not display anything.

Station	Type	Value
100	STA	101
101	STA	102

Station	Type	Value
101	STA	102

3. Enter the station range at the top of the window, then click on [Refresh] to display stations that you may wish to preset call forward within the range.
4. To edit the preset forward pair, right-click in the area under the headings in blue of Station, Type and Value, then click on the [Update Tool] button.
5. In the Update Tool panel enter the station number that you want forwarded, click on the Type arrow to get the dropdown menu, then select either station or hunt group.
6. Enter the station number or hunt group number in the Values box.
7. After entering all data, press the [Update] button on the Update Tool panel.

## Hot/Warm Line Selection (PGM 122)

This feature lets a station perform a pre-assigned feature as soon as lifting the handset or pressing the [SPEAKER] button as if a station selects the feature (Hot Line). On the other hand, Idle Line Selection for a station which is assigned to a warm line is activated when you take no action for Warm Line Timer setting after lifting the handset or pressing the [SPEAKER] button (Warm Line). Warm line is programmable at PGM 113.

All stations are not assigned any Idle Line Selection by default.

### Operation

1. Click [Hot/Warm Line] then you will see the list of Hot/Warm line programming.  
If there is no data, the table will be empty.

The screenshot shows the 'Hot / Warm Line (PGM122)' window. At the top, there are 'Refresh' and 'Close' buttons. Below them is a 'Station' field with two empty input boxes separated by a hyphen. The main area contains a table with three columns: 'Station', 'Idle Line Assign Type', and 'Value'. The table is currently empty.

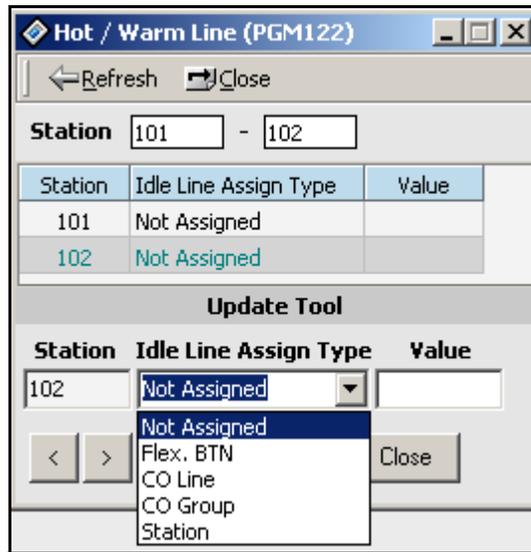
Station	Idle Line Assign Type	Value

2. Enter a station range, then click on [Refresh].

The screenshot shows the 'Hot / Warm Line (PGM122)' window after entering a station range. The 'Station' field now contains '101' and '102'. The table below shows the results for these stations.

Station	Idle Line Assign Type	Value
101	Not Assigned	
102	Not Assigned	

- Right-click under the headings in the blue area, then click on the [Update Tool] button.



Values for Hot/Warm Line Selection		
ITEM	RANGE	REMARK
Flex Btn	01-48	To activate a feature on a flex button as if pressed
CO Line	01-12	To seize a CO Line
CO Group	01-24	To seize a CO Line Group
Station	100-131	To call another station

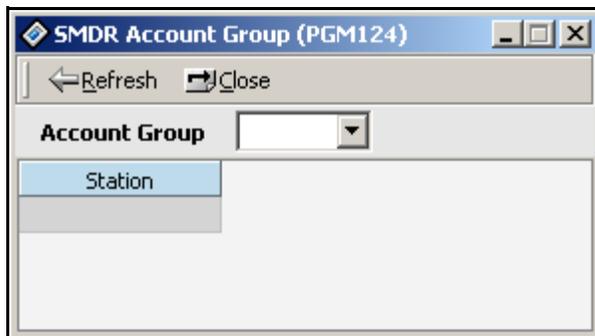
- After setting data, press the [Update] button in the Update Tool to save changes.

## SMDR Account Group (PGM 124)

Stations can be assigned as a member of a call account group on SMDR. A station belongs to only one call account group. The system supports 24 SMDR Account Groups (0-23).

### Operation

1. Click [SMDR Account Group].



2. Click in the [Account Group] box to display a dropdown menu, then select an Account Group (0-23).

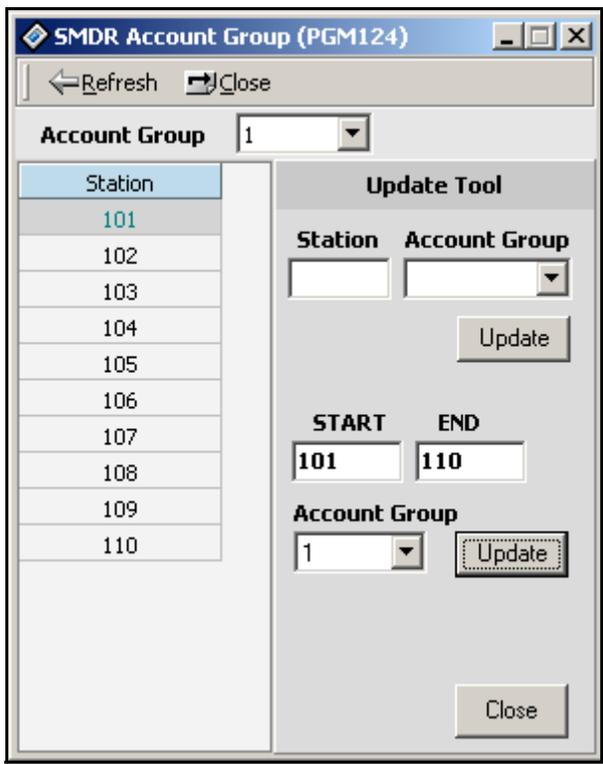
By default, all stations are in group 0. Once stations are placed in a different group they cannot be deleted; however, they can be moved back into group 0 or another group as desired.

3. Right-click on [Station] or the adjacent area, then click on the [Update Tool] button.

The screenshot shows a software window titled "SMDR Account Group (PGM124)". At the top, there are "Refresh" and "Close" buttons. Below them is a dropdown menu labeled "Account Group" with the value "1". The window is divided into two main sections. The left section is labeled "Station" and is currently empty. The right section is labeled "Update Tool" and contains three distinct input areas. The first area has a "Station" text box and an "Account Group" dropdown menu, with an "Update" button below them. The second area has "START" and "END" text boxes, with an "Update" button below them. The third area has an "Account Group" dropdown menu and an "Update" button. A "Close" button is located at the bottom right of the "Update Tool" section.

4. Enter a single station number in the top of the Update Tool or a range of stations in the bottom of the Tool and choose the account group for assignment

- 5. Click on the associated [Update] button, then click on the [Refresh] button.



## Copy DSS Button (PGM 125)

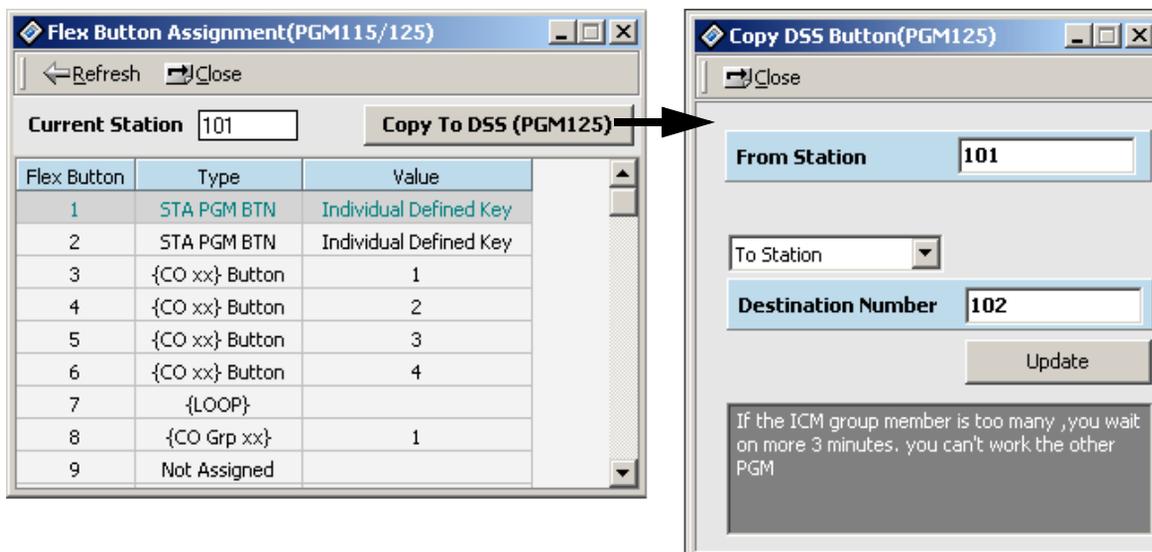
The assigned DSS buttons of a DKTU can be copied to another station or ICM group. This does not apply to the DSS Box.

### Operation

1. Click the [Copy To DSS] button.
2. Enter the station number and select the type of destination.

You can select one of two types of destination. One destination is station and the other is ICM Group.

3. After entering the data, press the [Update] button to save the data.



## Station IP List for CTI (PGM 126)

You can make a CTI connection with a LAN connection. To use this feature, you must enter the IP address of the PC that you want to use CTI with. For example, if you use station 101 and its IP address is 10.0.0.5 then you should enter this table with station 101 and IP Address of 10.0.0.5.

You can enter this mapped table up to the max station numbers of the SBX IP system. The limitation depends on the lock key that is installed on the SBX IP system.

## Station Mailbox Attributes (PGM 127)

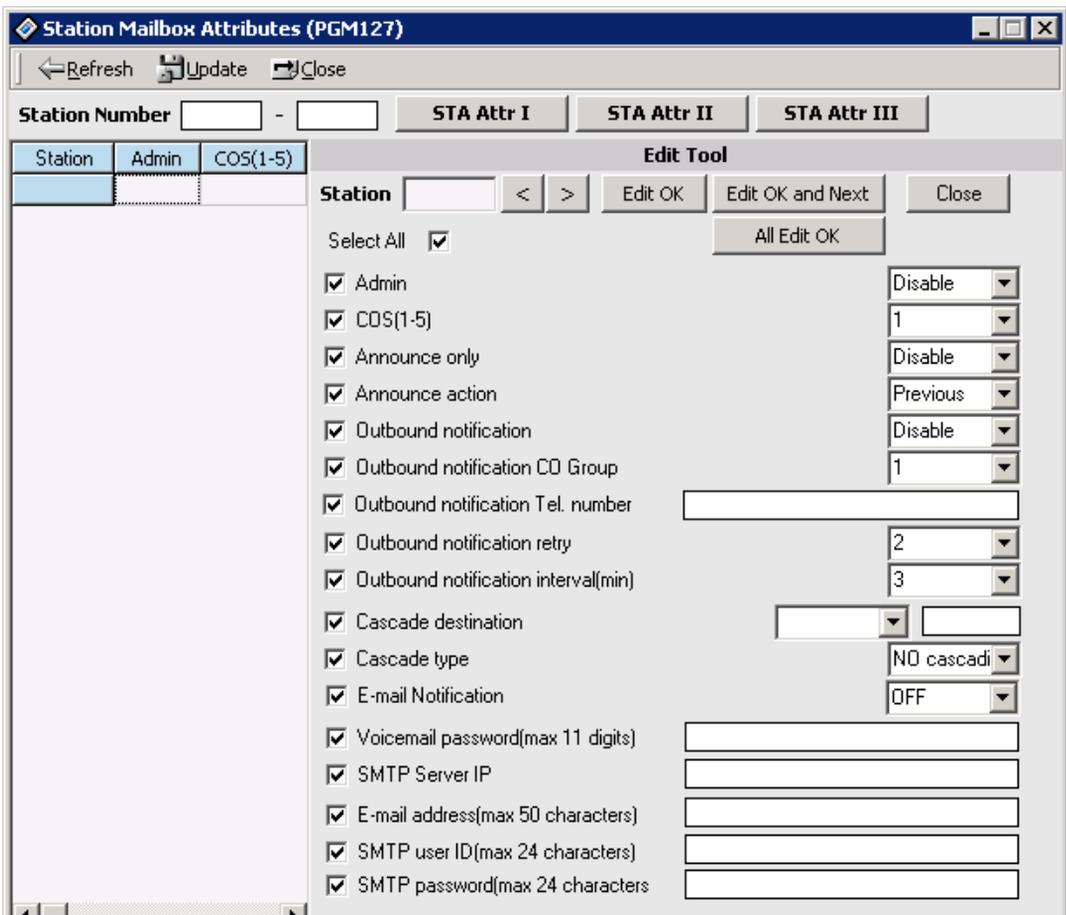
You can provide a mailbox with administrative options to perform common tasks associated with the VM. This mailbox may also be used to record a broadcast message that is delivered to all mailboxes in the system.

- There are no limits on the number of mailboxes that can be marked as administrators.
- Only 1 mailbox can be active in the administration area at a time.

### Operation

Once the System Administrator assigns Admin Rights, the user can perform additional mailbox functions (1-6) for all active mailboxes in the system:

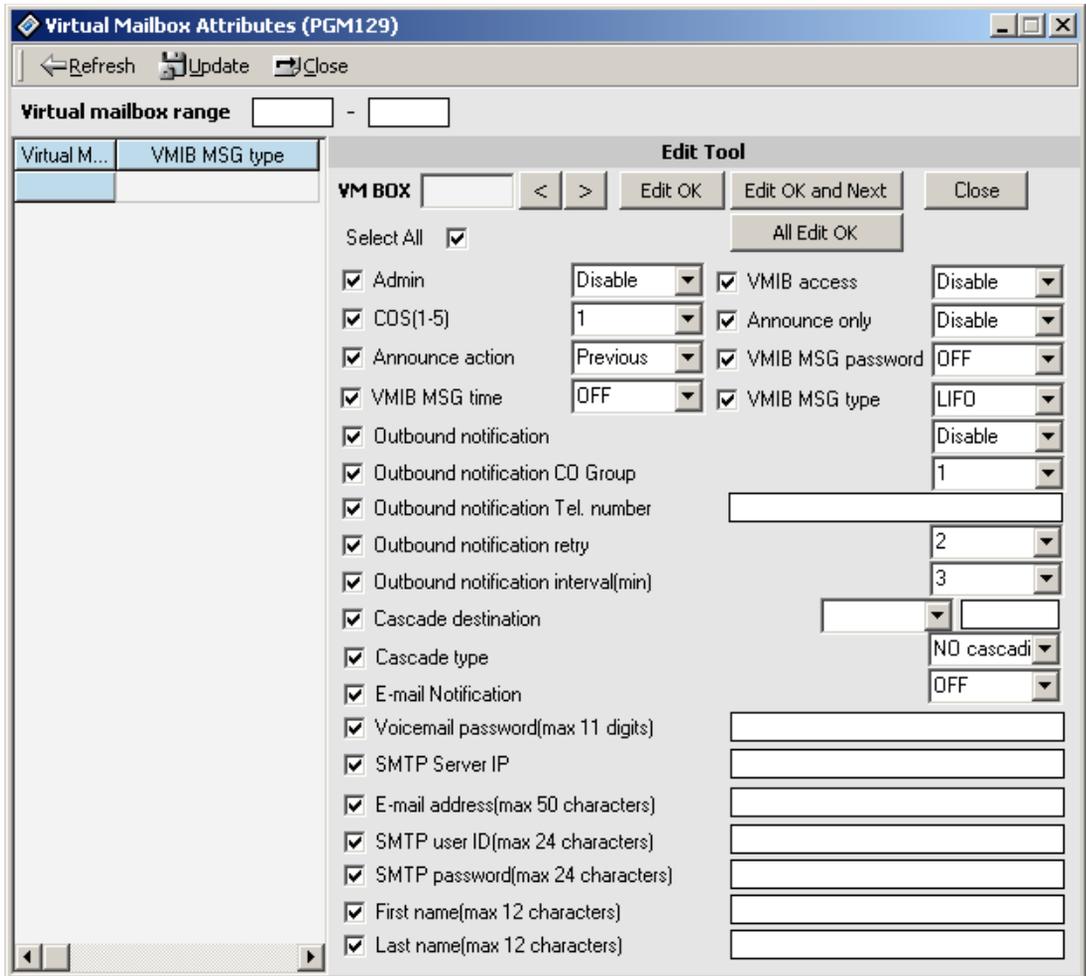
Add/delete a mailbox, reset a password, record a greeting/broadcast message/MB name.



<b>Station Mailbox Attributes (PGM127)</b>		
<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>
Admin	Disable/Enable	Disable
COS 1-5	1-5	1
Announce only	Disable/Enable	Disable
Announce action	Hang-up/Previous	Previous
Outbound Notification	Disable/Enable	Disable
Outbound Notification CO Group	1-24	1
Outbound Notification Tel. number	24 digits	none
Outbound Notification retry	1-9	2
Outbound Notification interval	1-60 minutes	3
Cascade destination	Station/Virtual MB	none
Cascade type	NO cascading/Immediately/ When noti fails/Urgent	NO cascading
E-mail Notification	Off/On	Off
Voicemail password	max 11 digits	none
SMTP Server IP	Ex: xxx.xxx.xxx.xxx.	none
E-mail address	max 50 characters	none
SMTP user ID	max 24 characters	none
SMTP password	max 24 characters	none

## Virtual Mailbox Attributes (PGM 129)

A virtual mailbox is simply a voice mailbox that does not have a digital/IP/SLT extension associated with it. By default, extensions 200-249 are the default virtual mailboxes.



<b>Virtual Mailbox Attributes (PGM129)</b>		
<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>
Admin	Disable/Enable	Disable
VMIB Access	Disable/Enable	Disable
COS 1-5	1-5	1
Announce only	Disable/Enable	Disable
Announce action	Hang-up/Previous	Previous
VMIB MSG password	Off/On	Off
VMIB MSG time	Off/On	Off
VMIB MSG type	LIFO/FIFO	LIFO
Outbound Notification	Disable/Enable	Disable
Outbound Notification CO Group	1-24	1
Outbound Notification Tel. number	24 digits	none
Outbound Notification retry	1-9	2
Outbound Notification interval	1-60 minutes	3
Cascade destination	Station/Virtual MB	none
Cascade type	NO cascading/Immediately/ When noti fails/Urgent	NO cascading
E-mail Notification	Off/On	Off
Voicemail password	max 11 digits	none
SMTP Server IP	Ex: xxx.xxx.xxx.xxx.	none
E-mail address	max 50 characters	none
SMTP user ID	max 24 characters	none
SMTP password	max 24 characters	none
First Name	max 12 characters	none
Last Name	max 12 characters	none

## Display Station with COS (PGM 130)

This feature is linked to Station COS PGM 116. Refer to PGM 116 (Station COS Display).

## CO Group Access Station (PGM 131)

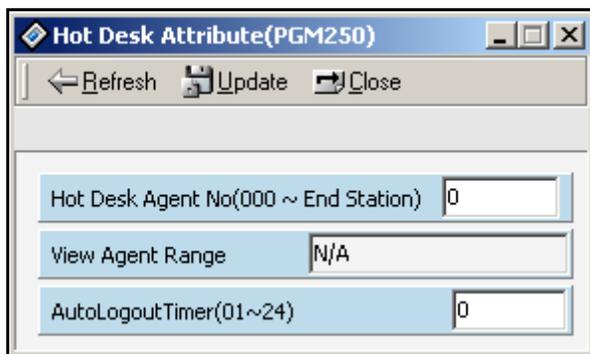
This feature is linked Station COS PGM117. Refer to PGM 117 (CO Group Access Display).

## Hot Desk Attribute (PGM 250)

### Operation

[Station Base Program] > [Hot Desk Attribute].

You can change only two items on the screen. One is the Hot Desk Agent Number and the other is the AutoLogout Timer. View Agent Range will only display the assigned range by first item. The assigned range will start from the last station.



Field Name	Value
Hot Desk Agent No(000 ~ End Station)	0
View Agent Range	N/A
AutoLogoutTimer(01~24)	0

## CO Line Base Program

Use this CO Line Base Program to change CO Line features. The program numbers are from PGM140 TO PGM147.

### CO Related Admin (PGM 140/141/142/143/146/147)

PC Admin links various features that are related to each other. So, you can move to another programming with popup menu.

#### Operation

Select [CO Line List]. The following window displays CO line basic information. (PGM140).

To check a range, enter the range in the index field.

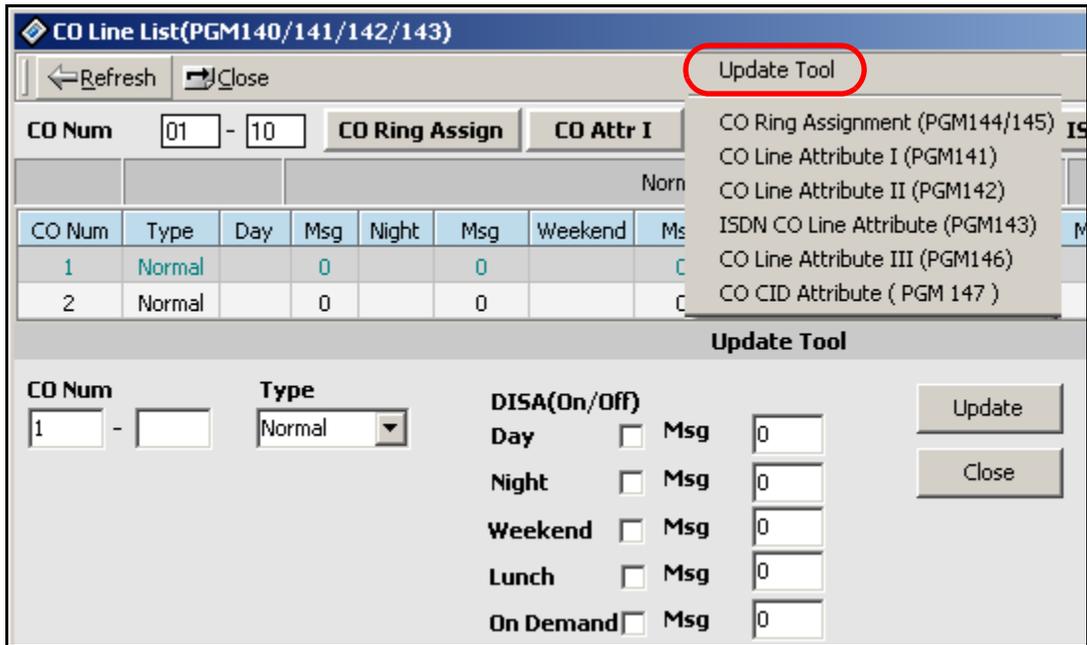
-or-

You can press the [Refresh] button and PC Admin will search and display information for the entire CO range.(1 - NO\_OF\_COLS).

CO Line List(PGM140/141/142/143)													
← Refresh    ↗ Close													
CO Num		01 - 10		CO Ring Assign		CO Attr I		CO Attr II		CO Attr III		CO ISDN Attr	CO CID Attr
Normal							Normal						
CO Num	Type	Day	Msg	Night	Msg	Weekend	Msg	On Demand	Msg	Lunch	Msg		
1	Normal		0		0		0		0		0		
2	Normal		0		0		0		0		0		
3	Normal		0		0		0		0		0		

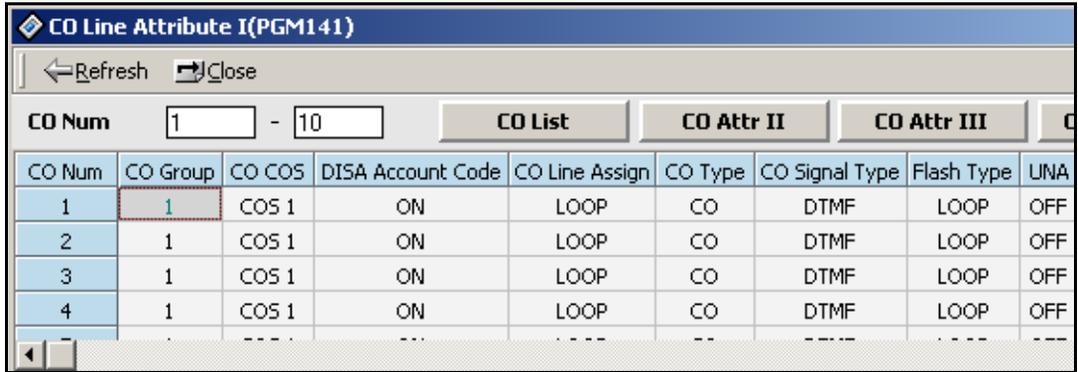
With this window, you can select a linked menu by right-clicking in the data area of the window and then selecting an option from the popup menu or by clicking on one of the tabs above the data area.

If you right-click in the data area of the window and then select the Update Tool the following displays:

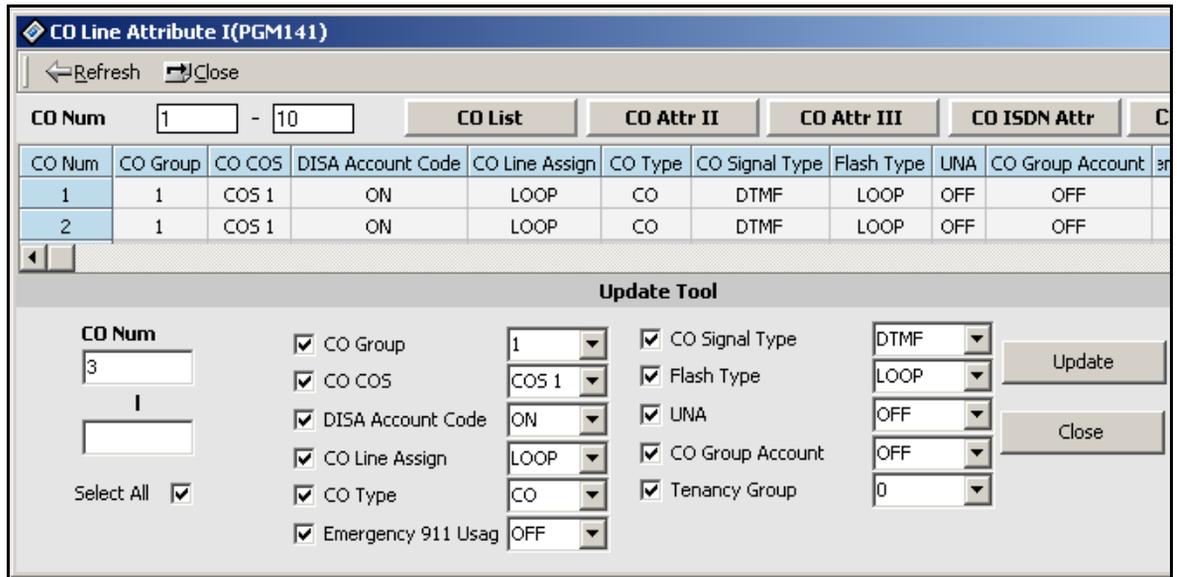


CO Service Type (PGM140)	
DISA TYPES	REMARK
Normal CO	<p>All lines are assigned as normal CO lines by default.</p> <p>Each CO line in the system can be programmed as a DISA (Direct Inward System Access) line and sub-attributes can be programmed for the following time periods:</p> <ul style="list-style-type: none"> <li>- Flex Btn 1 (Day) / 2 (Night) / 3 (Weekend) / 4 (Lunch) / 5 (On-Demand)</li> <li>- Sub-attributes for each period are:               <ul style="list-style-type: none"> <li>---- F1: DISA Service On/Off.</li> <li>---- F2: VMIB Message No. (Voice announcement(VMIB Message) can be assigned (00-70), but by default it is not assigned (00).</li> </ul> </li> </ul>
Reserved	--
ISDN DID/MSN	
Reserved	--
DCO DID	DCO DID Line (This type will be valid in a few countries. For example, Korea)

The following CO Line Attributes window displays when you select the CO Attribute I menu from the popup menu or when you click on the CO Attr I tab.



You can select the attributes that you want to check and modify by right-clicking on the data portion of the window and then clicking the Update Tool button.



This is same architecture for PGM 142/143/146/147

CO Line Attributes I (PGM141)			
ITEM	RANGE	DEFAULT	REMARK
CO Line Group	00-25	01	Groups should be assigned according to CO type and Class-Of-Service.
CO COS	1-5	1	-CO COS 1: no restriction -CO COS 2: Exception Table A governs -CO COS 3: Exception Table B governs -CO COS 4: restricts Long Distance Code -CO COS 5: overrides STA. COS 2,3,4 and 5, 6.
DISA Account Code	ON/OFF	ON	When accessing another CO line in the system by DISA line, you should enter authorization code if this flag is set.
CO Line Assign	POL/LOOP	LOOP	Polarity Reverse, Loop Start
CO Line Type	PBX/CO	CO	When marked PBX, a 1 or 2 digit dial code may be entered, after which toll restriction is applied.
CO Line Signal Type	DTMF/PULSE	DTMF	--
Flash Type	GROUND/ LOOP	LOOP	--
UNA	ON/OFF	OFF	The allowance of Universal Night Answer service
CO Line Group Account	ON/OFF	OFF	--

CO Line Attributes I (PGM141)			
ITEM	RANGE	DEFAULT	REMARK
CO Tenancy Group	0-5	5	Tenancy Group of CO line.
Emergency 911 Usage	ON/OFF	By default, CO Line 01 is ON and other CO Lines are OFF.	If this value is set to ON, the designated CO Line is active for E911 use.

CO Line Attributes II (PGM142)			
ITEM	RANGE	DEFAULT	REMARK
CO Line Name Display	ON/OFF	OFF	If CO Line name is assigned at BTN2, and this field is ON, CO name is displayed for CO incoming calls
CO Line Name Assign	Max 12 characters	--	--
Metering Unit	00-06	00	There are 7 metering signal types: - 0: None - 1: 50 Hz - 2: 12 KHz - 3: 16 KHz - 4: Singular Polarity Reverse (SPR) - 5: Plural Polarity Reverse (PPR) - 6: No Polarity Reverse (NPR)
Line Drop Using CPT	ON/OFF	OFF	If this field set to ON, CPT checks the incoming CO line when answered and if CPT detects dial tone, then the system drops the line for toll restriction.
CO Distinct Ring	0-4	0	The CO can have a specific ring signal to stations in the system through this field's setting. This ring type can be programmed at PGM422.

CO Line Attributes II (PGM142)			
ITEM	RANGE	DEFAULT	REMARK
CO Line MOH	0-9	1	0: Not assigned by this field. 1: Internal Music 2: External Music 3: Reserved 4-8: SLT MOH 9: HOLD Tone
PABX CO Dial Tone	YES/NO	YES	YES: PX or PABX provides dial tone. NO: PX or PABX does not provide dial tone. System provides dial tone
PABX CO Ring Back Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that Ring back is provided by PX.). YES: PX, NO: System
PABX CO Error Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that error tone is provided by PX.). YES: PX, NO: System
PABX CO Busy Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that busy tone is provided by PX.). YES: PX, NO: System
PABX CO Announce Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that announcement is provided by PX, but the system provides only error tone.). YES: PX, NO: System
CO Flash Timer	000-300	005	10 msec base

CO Line Attributes II (PGM142)			
ITEM	RANGE	DEFAULT	REMARK
Open Loop Detect Timer	00-20	00	100 msec base
Line Length	SHORT/ LONG	SHORT	Line Length of CO (TELKOM only)
DISA Answer Timer	1-9	2	--
DISA/DID Delay Timer	1-9	1	--
Reserved	--	--	--
Busy/Error CPT	ON/OFF	OFF	

ISDN CO Line Attributes (PGM143)			
ITEM	RANGE	DEFAULT	REMARK
COLP Table Index	00-50	Not Assigned	To make called party number with assigned COLP Table entry. (PGM 201) 00-49: PGM 201 Bin No. / 50: PGM 11-BTN 5
CLIP Table Index	00-50	Not Assigned	To make calling party number with assigned CLIP Table entry. (PGM 201) 00-49: PGM 201 Bin No. / 50: PGM 11-BTN 5
Call Type	0-4	2	0: Unknown 1: International 2: National 3: Not used 4: Subscriber

ISDN CO Line Attributes (PGM143)			
ITEM	RANGE	DEFAULT	REMARK
DID Conv Type	0-2	0	0: convert digits by DID Dgt Conversion (PGM230) 1: call to the valid extension. 2: convert digits by Flex DID Table (PGM 231)
DID Remove No.	00-99	00 =Not Assigned	Remove received digits from the left of the assigned #
ISDN Enblock Send	ON/OFF	OFF	ON: Enblock Sending Mode OFF: Overlap Sending Mode
CLI Transit	ORI/CFW	CFW	1: ORI : Send CLI as the originating caller's CLI. 2: CFW : Send CLI as the call forwarded station's CLI.
Numbering Plan ID	0-7	0	F1 : Calling NPI / F2 : Called NPI
ISDN Call Deflection	ENABLE/ DISABLE	DISABLE	ISDN call deflection service usage. Norway only.
ISDN DGT RM	ON/OFF	OFF	
ISDN CP Inband	ON/OFF	OFF	
CLI Type	0-2	0	0: Normal 1: Long CLI 1 (PGM114-F21) 2: Long CLI 2 (PGM114-F22)
Reserved	--	--	--
Screening	0-3	0	0: User Provided, No S 1: User Provided, Pass 2: User Provided, Fail 3: Network Provided

ISDN CO Line Attributes (PGM143)			
ITEM	RANGE	DEFAULT	REMARK
Double CLI Service (Calling Party Number Service)	If this value is ORI, the real CPN is displayed. If this value is Transit, Transit Point CPN is displayed.		
Prefix Table Index	--	--	Ukraine only - Not Used
Deny Incoming Call	ON/OFF	OFF	
ICLID Usage	ON/OFF	OFF	

CO Line Attributes III (PGM146)			
ITEM	RANGE	DEFAULT	REMARK
Incoming Prefix Code Insertion	ON/OFF	OFF	If this value is set to ON, a prefix code will be attached in front of incoming CLI.
Outgoing Prefix Code Insertion	ON/OFF	ON	If this value is set to ON, a prefix code will be attached in front of outgoing CLI.
ISDN Line Type	u-Law/A-Law	A-Law	This value is used to set the ISDN CODEC Type.
Calling Sub-Address	ON/OFF	OFF	If this value is set to ON, the calling party sub-address of the ISDN station is attached when an ISDN station makes an outgoing CO Call through this CO Line.
DID DGT Receive Number	2-4	3	This value is used as count of the received DID Digit number to route DID incoming Call.

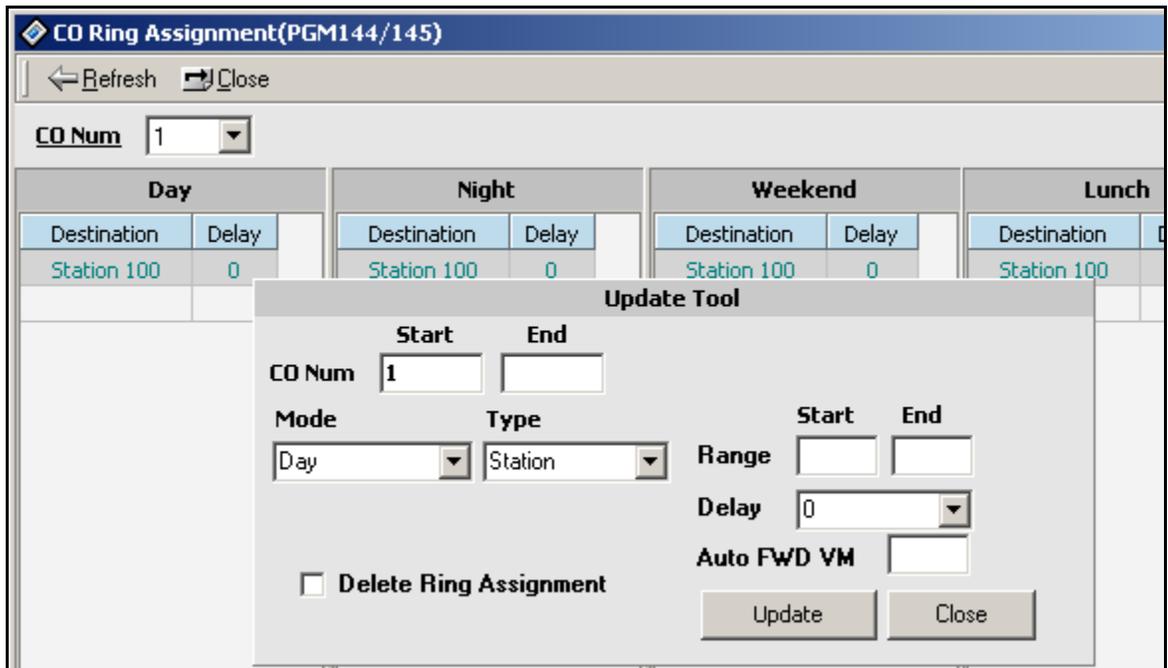
CO Line Attributes III (PGM146)			
ITEM	RANGE	DEFAULT	REMARK
DID Digit Mask	4 digits	#***	When the DID Conversion Type (PGM 143 - FLEX4) is set to 0, the received DID digits are converted by this value. The digits 0-9, #, * can be entered. # means to ignore received digit, and * means to bypass the digit. The length of DID Digit Mask is 4. e.g.) "1234" is received when DID Digit Mask is set as "#8***", the digit is converted as "834".
R2 Collect Call	0: Disable 1: Double Answer 2: With Indicator	Disable	If this feature is set to ON (1,2), R2 collect call is served
Collect Call Answer Timer	001-250	010	This feature is used when R2 call is answered (Brazil only)
Collect Call Idle Timer	001-250	020	This feature is used when R2 call is answered (Brazil only)

## CO Ring Assignment (PGM 144/145)

Each station can be assigned to receive a CO ring for only a certain period of time such as Day, Night, Weekend, Lunch, and On-demand.

### Operation

1. Select the [CO Ring Assignment].
2. Select CO Number in [CO Num] field to read the data.
3. To change data, right-click in the active area, click the [Update Tool] button. After changing each destination and delay, click the [Update] button to save changes.



## CO CID Attributes (PGM 147)

User can assign some attributes related with CID setting.

### Operation

1. Click [CO CIDU Attribute].
2. Enter the CO range for which you want to program CID attributes. Then current values will be displayed.
3. Select or enter each field and press the [Update] button to save data.

This menu was linked in other CO programming field.

**CO CID Attribute(PGM147)**

← Refresh    Close

CO Num  -     CO List    CO Attr I    CO Attr

CO Num	CID Mode Select	CID Name Display
1	FSK	TEL
2	FSK	TEL
3	FSK	TEL

**Update Tool**

CO Num      CID Mode Select       

    CID Name Display       

I

Select All

Update    Close

CO CIDU Attribute (PGM147)			
ITEM	RANGE	DEFAULT	REMARK
CID Mode Select	OFF, FSK, DTMF	FSK	--
CID Name Display	NAME/TEL	TEL	Analog CO line CLI carries the caller's telephone number and name. According to this ADMIN program value, LCD displayed data can be selected. If this value is set to NAME, the caller's name and telephone number will display on the LCD. If this value is set to TELEPHONE NUMBER, the caller's telephone number will displayed on the LCD.

### T1 CO Line Attributes (PGM 152)

**T1 CO Line Attributes(PGM152)**

← Refresh    Close

CO Range:  -

CO	Pause Duration(sec)	Release Guard Time(100ms)	DT Delay Timer(100ms)	Interdigit Timer(20ms)	Wink Timer(20ms)	Outpulsing Rate	Seize Time(20ms)
1	2	20	10	15	10	10pps 60/40	3
2	2	20	10	15	10	10pps 60/40	3
3	2	20	10	15	10	10pps 60/40	3
4	2	20	10	15	10	10pps 60/40	3
5	2	20	10	15	10	10pps 60/40	3
6	2	20	10	15	10	10pps 60/40	3
7	2	20	10	15	10	10pps 60/40	3

**Update Tool**

CO Num:  1

Pause Duration(sec):  2

Release Guard Time(100ms):  20

DT Delay Timer(100ms):  10

Interdigit Timer(20ms):  15

Wink Timer(20ms):  10

Outpulsing Rate:  10pps 60/40

Seize Time(20ms):  3

Release Time(20ms):  7

IASG Mode:  DTMF

Ring Detection Time(10):  2

Ring Stop Time(100ms):  60

Collect Digit:  3

Store Time(sec):  15

Update    Close

T1 CO Line Attribute (PGM152)			
ITEM	RANGE	DEFAULT	REMARK
Pause Duration	1-9	2	
Release Guard Time (100ms)	1-60	20	
DT Delay Timer (100ms)	2-50	10	
Interdigit Timer (20ms)	15-30	15	
Wink Timer (20ms)	7-15	10	
Outpulsing Rate	10 pps 60/40, 10 pps 66/33, 20 pps 60/40, 20 pps 66/33	10 pps 60/40	
Seize Time (20ms)	0-127	3	
Release Time (20ms)	0-127	7	
IASG Mode	DTMF, Pulse	DTMF	
Ring Detection Time (10)	2-9	2	
Ring Stop Time (100ms)	10-60	60	
Collect Digit	1-6	3	
Store Time (sec)	1-15	15	

## System Base Program

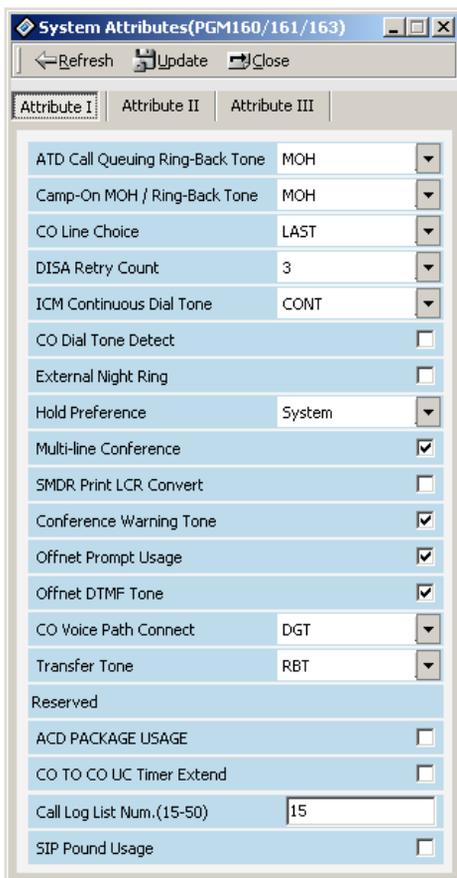
Use the System Base Program to change any system features.

### System Attributes (PGM 160/161/163)

This area of programming changes system attributes.

#### Operation

1. Select System Attributes in main menu. The System Attribute I window will be display and you can select System Attribute II or III by pressing each button.
2. After editing, press the [Update] button to save the changes.



System Attributes I (PGM160)			
ITEM	RANGE	DEFAULT	REMARK
Attendant Call Queuing Ringback Tone	RBT/MOH	MOH	MOH: The station will present ring back tone when calling busy attendant station. RBT: The station will present MOH, hold tone, or DVU-MOH by system database (PGM 171-BTN 2)
Camp-on RBT/MOH	RBT/MOH	MOH	MOH is heard in camp-on or Ringback tone is heard in camp-on.
CO Line Choice	LAST/ ROUND	LAST	The method of a CO line seizing on CO Line Groups access
DISA Retry Counter	0-9	3	When the DISA user fails to call Station or access a feature, then the DISA user can retry another call or feature within the limit of the retry counter. If the DISA user cannot access appropriately within this counter, the system disconnects the DISA Line automatically.
ICM Continuous Dial Tone	CONT/ DISCONT	CONT	This field sets whether ICM dial tone is continuous or not.
CO Dial Tone Detect	ON/OFF	OFF	When the speed dial is activated, system detects dial tone using CPT instead of pause timer.
External Night Ring	ON/OFF	OFF	When CO lines are marked to UNA, ringing will be sent to LBC1 when an incoming call occurs on those lines during night service.
Hold Preference	SYS/EXEC	SYS	System hold or exclusive hold
Multi-line Conference	ON/OFF	ON	The system allows a conference with multi-CO lines.
Print LCR Conv Dgt	ON/OFF	OFF	Print dialed digits or LCR conversed digits in LCD

System Attributes I (PGM160)			
ITEM	RANGE	DEFAULT	REMARK
Conference Warning Tone	ON/OFF	ON	When entering a conference, members will receive a warning tone
Off-net Prompt Usage	ON/OFF	ON	In case of Off-net call forward, Off-net prompt will be heard (It only applies to CO-to-CO Transfer).
Off-net DTMF Tone	ON/OFF	ON	In case of Offnet call forward, DTMF Tone will be heard (It only applies to CO-to-CO Transfer).
CO Voice Path Connect	IMM/DGT	DGT	Option to connect voice path after seizing CO line. Immediately. (CIS and Korea only)
Transfer Tone	RBT/MOH	RBT	Option to provide ring-back tone or MOH during transferring CO line.
CO to CO Xfer CPT Detect	ON/OFF	OFF	--
ACD Package Usage	ON/OFF	OFF	If this value is set to ON, ACD Information is printable.
CO to CO UC Timer Extend	ON/OFF	OFF	If this value is set to ON, the conference call user can extend the Unsupervised Conference Timer by dialing the UC TIMER EXTEND Code.
Call Log List Number	15-50	15	Number of call log entries
SIP Pound Usage	ON/OFF	OFF	--

System Attributes II (PGM161)			
ITEM	RANGE	DEFAULT	REMARK
Network Time/Date Setting <i>PX Time / Day / Month</i>	ON/OFF	OFF	If this field is ON, the system time/date are set by the network time/date.
Off-Hook Ring Type	MUTE/BURST	MUTE	The system off-hook ring type can be programmed to mute or one burst ring.
Override 1st CO Group	ON/OFF	ON	If this field is set to ON and if there is no available CO line in the 1st CO group, the system accesses the next accessible CO group.
Page Warning Tone	ON/OFF	ON	If desired, the page warning tone can be suppressed.
Auto Privacy	ON/OFF	ON	The system can be programmed to override a CO line call to gain access to the conversation. If privacy is disabled, a station privileged to override in PGM113-Btn 4 joins an existing call in progress.
Privacy Warning Tone	ON/OFF	ON	If desired, the privacy warning tone can be suppressed.
Single Ring for CO Call	YES/NO	NO	Changes a cadence of ICM or incoming CO ring. In case of NO, ICM: 1sec on/ 4sec off CO: 0.4s on/ 0.2s off/ 0.4s on/ 4sec off In case of YES, the cadence is the reverse.
Reserved	--	--	--
ACD Print Enable	ON (10s unit)/OFF	OFF	Enable or disable ACD Print features
ACD Print Timer	001-255	001	Determines the amount of time between repeated ACD database prints. Zero means no print out (10 sec base).

System Attributes II (PGM161)			
ITEM	RANGE	DEFAULT	REMARK
Clear ACD Database after Print	ON/OFF	OFF	Determines if ACD database initializes after print-out.
VMIB Prompt Gain	00-31	08	To control prompt gain level
VM with CLI Info	ON/OFF	OFF	If the setting is ON, CLI is added when Voice Mail information is printed through RS232 port by SMDI.
ACD Print Timer Unit	1: HOUR 0: SEC	SEC	Determines the unit of ACD Print timer of Flex Btn 10 (1 hour or 10 seconds)
Set VM SMDI Type	TYPE II/ TYPE I	TYPE I	Set VM SMDI type.
Incoming Toll Check	ON/OFF	OFF	Enable or disable the toll check for incoming calls
No DSS Indication	ENABLE/ DISABLE	DISABLE	Enable or disable the LED of the CO button while ringing for incoming, transfer and recalling. It is not applied for direct ringing such as DID/DISA.
UK Billing Mode	ON/OFF	OFF	If this value is set to ON, UK Billing Mode is applied (UK only).
COS 7 When Auth Fail	ON/OFF	OFF	If authorization is failed with PGM227, COS will be COS 7 or not with this setting.
Auto Fax Transfer CO	None, 1-36	None	If Auto FAX CO line is programmed, the system answers and detects the FAX calling tone (1100Hz, 0.5sec ON/3sec OFF repeat tone) from an incoming analog CO line. The system will route this call to the last SLT port on BKSU) when tone is detected within programmed time.
5 Dgt Auth Code Usage	ON/OFF	OFF	

System Attributes II (PGM161)			
ITEM	RANGE	DEFAULT	REMARK
LCR Dial Tone Detect	ON/OFF	OFF	If this value is set to ON, the SBX IP system first checks if the CO provides dial tone in case an analog CO line is seized for LCR dialing. If there is no dial tone, the call is rerouted to the Alternate DMT index. If the LCR type is set to M13, the LCR dial tone detect option is not applied.
Transit Out Check for Security	ON/OFF	OFF	--

System Attributes III (PGM163)			
ITEM	RANGE	DEFAULT	REMARK
Alarm Enable	ON/OFF	OFF	--
Alarm Contact Type	CLOSE/OPEN	CLOSE	--
Alarm Mode	ALARM/ BELL	ALARM	--
Alarm Signal Mode	RPT/ONCE	RPT	--

## Admin Password (PGM 162)

Password is not assigned by default.

### Operation

1. Click [ADMIN Password].
2. Enter 4 digits for Admin Password.



The screenshot shows a web browser window titled "ADMIN Password(PGM162)". The window has a navigation bar with "Refresh", "Update", and "Close" buttons. Below the navigation bar, the page content is titled "Administrator Password". There are two input fields: "Password" and "Confirm Password". Below these fields, there is a label "Valid Digit(0 ~ 9,\*,#)" and a "Remove Password" button.

## Attendant Assignment and VMIB Announcement Number (PGM 164/165)

A maximum of 5 Attendants can be assigned, including the Main Attendants and System Attendant. The System Attendant is different than Main Attendants in aspect of call handling and system management priority. The System Attendant has more priority than a Main Attendant. One System Attendant and four Main Attendants can be assigned. By default, the System Attendant is assigned Station 100, and others are not assigned.

### Operation

1. Click [Attendant Assignment].

The screenshot shows a window titled "Attendant Assignment(PGM164/165)". At the top, there are three buttons: "Refresh", "Update", and "Close". The window is divided into three sections:

- System Attendant:** A label "Station Number" is followed by a text input field containing the value "100".
- Attendant:** A large empty rectangular box is on the left. To its right are two buttons: "Add" and "Remove".
- Auto Attendant:** A label "Auto ATD Usage" is followed by an unchecked checkbox. Below this, a label "VMIB ANNC" is followed by a text input field containing "0" and a range indicator "( 00 - 70 )".

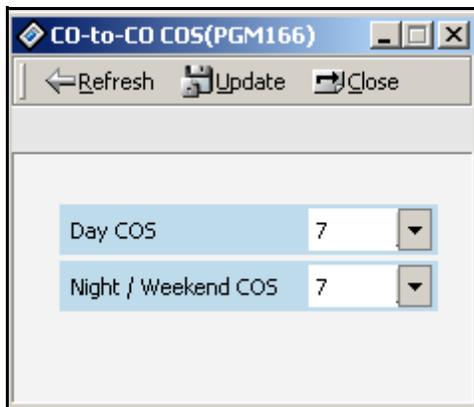
2. Assign a System Attendant (Net Number is not available)
3. Assign a Main Attendant (Network connected extension available).
  - Delete edit box to delete an assigned main attendant.
  - If you enter an invalid net number, the MPB will check validation of entered net number when you press the [Update] button.

## CO-to-CO COS (PGM 166)

When a user of a DID/DISA/TIE line accesses another CO line, CO-to-CO COS is applied. The attributes of CO-to-CO COS are the same as the station COS.

### Operation

1. Click [CO-to-CO COS].



The screenshot shows a web-based configuration window titled "CO-to-CO COS(PGM166)". The window has a standard toolbar with "Refresh", "Update", and "Close" buttons. Below the toolbar, there are two input fields. The first field is labeled "Day COS" and has a value of "7" with a dropdown arrow. The second field is labeled "Night / Weekend COS" and also has a value of "7" with a dropdown arrow.

2. Enter the COS numbers.

## DID/DISA Destination (PGM 167)

A station can be programmed to forward a DID call to the Attendant if the station is busy. Vacant or invalid calls are sent to the Main Attendant, or a busy tone is presented as set by admin programming.

### Operation

Click [DID/DISA Destination].

- Error Destination (When a wrong number is pressed)
  - TONE: A tone will be heard.
  - ATD: Call will be forwarded to the attendant.
  - Station Group: Call will be forwarded to a station group.

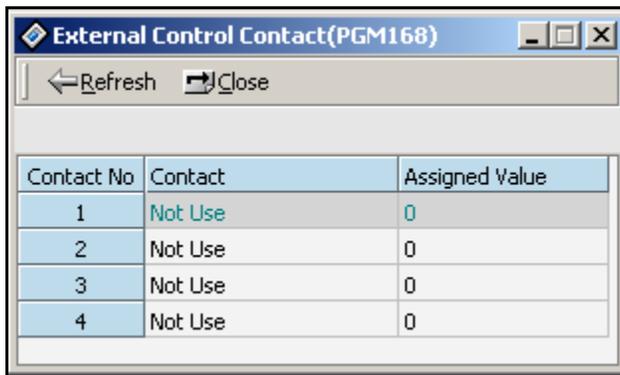
- Busy Destination (When a station is busy)
  - TONE: A tone will be heard.
  - ATD: Call will be forwarded to the attendant.
  - Station Group: Call will be forwarded to a station group.
- No Answer Destination (When there is no answer), input a station group to be forwarded.
  - TONE: A tone will be heard.
  - ATD: Call will be forwarded to the attendant.
  - Station Group: Call will be forwarded to a station group.

### External Control Contact (PGM 168)

Loud Bell Control, Door Open, and External Device Control can be set to use an external control contact. The contact feature is ranged from 1 to 4. A default value is not assigned.

#### Operation

1. Right-click and select [Update]. Then you will see the following window.
2. After editing, press the[Update] button on the update panel to save changes.
3. Select one of the control contacts.
4. In case of Loud Bell Control, you should indicate a station to be assigned.



## LCD Date/Time/Language Display Mode (PGM 169)

You can set a different time/date/language display on the LCD screen.

### Operation

1. Click [LCD Data/Time/Language Display Mode].
2. LCD Time Mode: 12 Hour Mode or 24 Hour Mode.
3. LCD Date Mode: MM-DD-YY or DD-MM-YY.
4. LCD Language: Select which language.

## Modem (PGM 170)

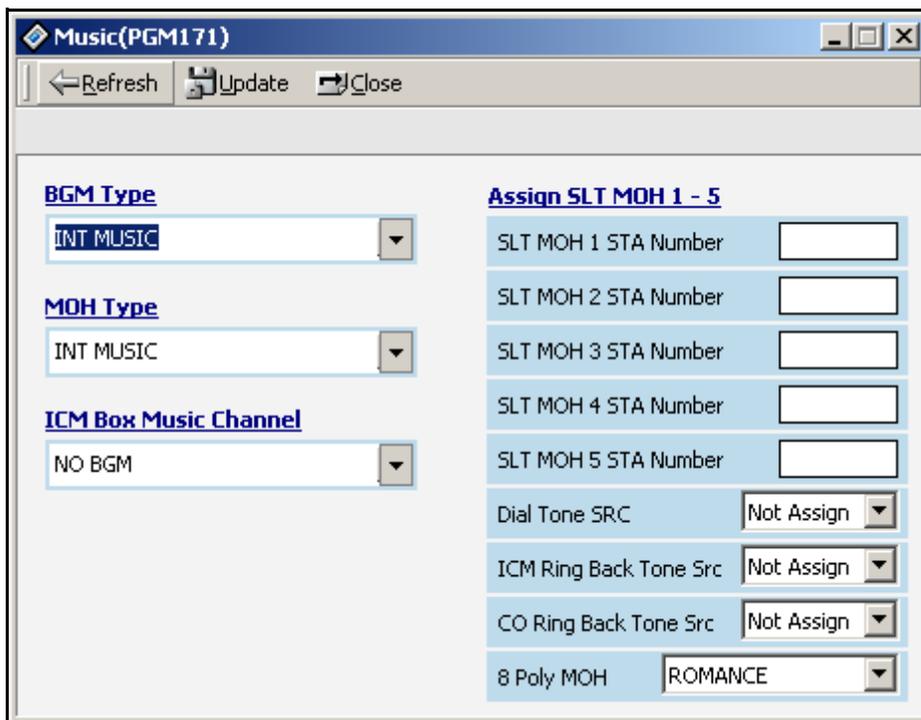
It must be specified which station or CO line is connected to the modem. The last station is assigned by default and the CO line isn't assigned any default value.

### Operation

1. Click [Modem].
2. The range for station is 100-131. Default value is last station number.

## Music (PGM 171)

You can assign BGM (Background Music), MOH (Music On Hold), and ICM Box Music Channel. MOH is the music a caller can hear while waiting for his call to be picked up again.



Music(PGM171)	
← Refresh    Update    Close	
<b>BGM Type</b>	<b>Assign SLT MOH 1 - 5</b>
INT MUSIC	SLT MOH 1 STA Number
	SLT MOH 2 STA Number
<b>MOH Type</b>	SLT MOH 3 STA Number
INT MUSIC	SLT MOH 4 STA Number
	SLT MOH 5 STA Number
<b>ICM Box Music Channel</b>	Dial Tone SRC
NO BGM	Not Assign
	ICM Ring Back Tone Src
	Not Assign
	CO Ring Back Tone Src
	Not Assign
	8 Poly MOH
	ROMANCE

**Operation**

1. Click [Music].
2. Refer to the table below and set the values.

ITEM	RANGE	DEFAULT	REMARK
BGM Type	0-8	01	00: No BGM    01: Internal Music 02: External Music    03: Reserved 04: SLT 1    05: SLT 2 06: SLT 3    07: SLT 4    08: SLT 5
MOH Type	0-9	01	00: Not Assigned    01: Internal Music 02: External Music    03: Reserved 04: SLT 1    05: SLT 2 06: SLT 3    07: SLT 4 08: SLT 5    09: Hold Tone
ICM Box Music Channel	0-8	01	00: No BGM    01: Internal Music 02: External Music    03: Reserved 04: SLT 1    05: SLT 2 06: SLT 3    07: SLT 4    08: SLT 5
Assign SLT MOH	--	Flex 1-5 (+ SLT STA No.)	SLT MOH 1-5
Dial Tone Source	0-5	0 (N/A)	To assign external dial tone, set the SLT station number of the SLT port.
ICM Ring Back Tone	0-5	0 (N/A)	To assign external ICM tone, set the SLT station number of the SLT port.

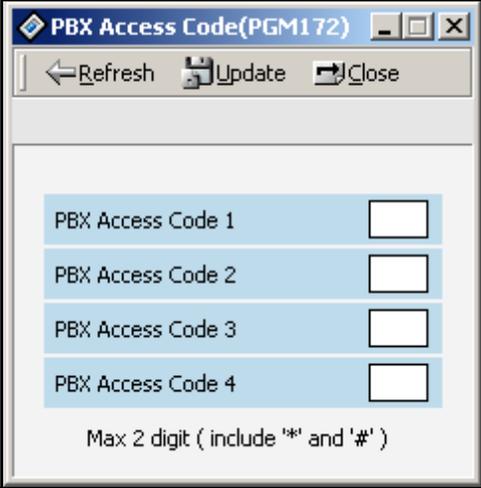
ITEM	RANGE	DEFAULT	REMARK
DID CO Ring Back Tone	0-5	0 (N/A)	To assign external DID ring back tone, set the SLT station number of the SLT port.
Internal MOH Type	00-12	00 = Romance	00: Romance 01: Turkish March 02: Greensleeves 03: Fur Elise 04: Carmen 05: Waltz 06: Pavane 07: Siciliano 08: Sonata 09: Spring 10: Campanella 11: Badinerie 12: Blue Danube

## PBX Access Code (PGM 172)

You can make an outside call through the station. A maximum of 4 PABX Access Codes are assignable. A PABX Access Code is a 1- or 2-digit number. By default, PABX Access Codes are not assigned.

### Operation

1. Enter a 1- or 2-digit code in the window. If you want to delete a code, leave blank.
2. Click on the [Update] button to save the changes.



The screenshot shows a web browser window titled "PBX Access Code(PGM172)". The window has a toolbar with three buttons: "Refresh", "Update", and "Close". Below the toolbar, there are four rows, each with a label and an input field:

PBX Access Code 1	<input type="text"/>
PBX Access Code 2	<input type="text"/>
PBX Access Code 3	<input type="text"/>
PBX Access Code 4	<input type="text"/>

Below the input fields, there is a note: "Max 2 digit ( include '\*' and '#' )".

## Preferred Line Answer (PLA) Priority (PGM 173)

You may set up the priority for the order in which calls are received.

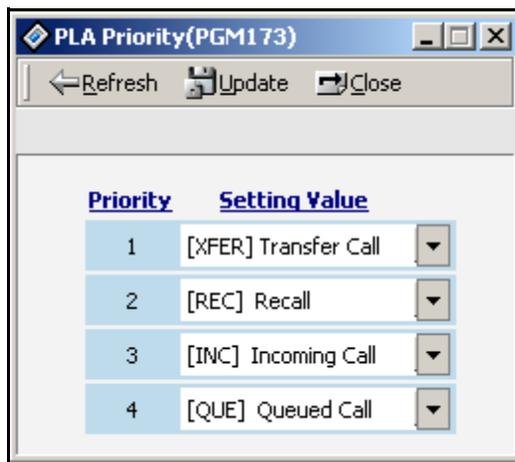
### Operation

1. Click [PLA Priority]. Each item has the following meaning. Use the dropdown box in order to assign each call type by the desired priority.

- XFR: Transfer Call
- REC: Recall
- INC: Incoming Call
- QUE: Queued Call

You cannot assign a duplicated number. If you try to assign a duplicated number and click [Update], the program automatically reassigns the priority.

2. Press the [Update] button to save the changes.



The screenshot shows a window titled "PLA Priority(PGM173)" with a toolbar containing "Refresh", "Update", and "Close" buttons. Below the toolbar is a table with two columns: "Priority" and "Setting Value". The table contains four rows, each with a priority number and a corresponding call type in a dropdown menu.

Priority	Setting Value
1	[XFER] Transfer Call
2	[REC] Recall
3	[INC] Incoming Call
4	[QUE] Queued Call

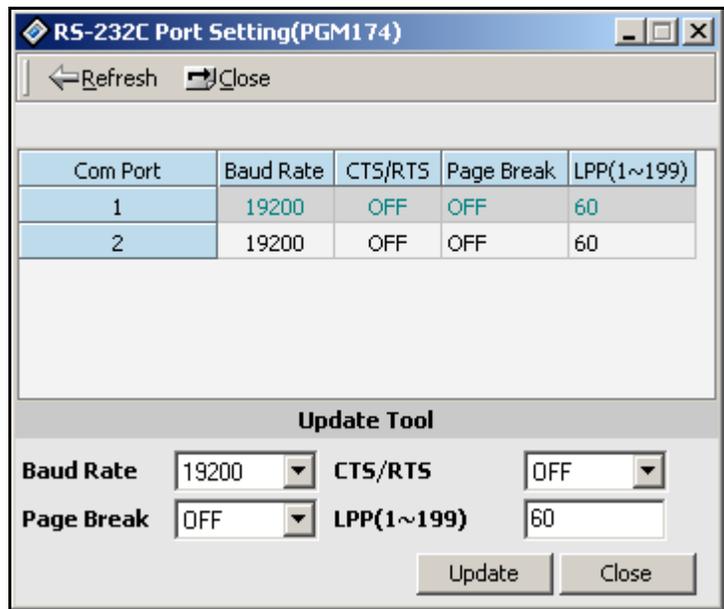
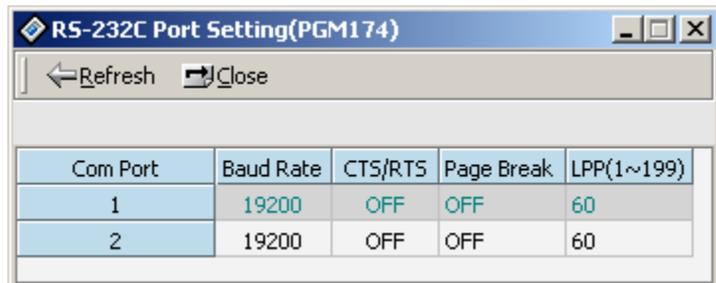
## RS-232C Port Setting (PGM 174)

You can set up the RS-232C port configuration.

- Note:**
- If you use COM2 as MODU (MODEM interface), the maximum speed is limited to 9600 bps.
  - If you use COM1 for PC Admin, the maximum speed is limited to 19200 bps.

### Operation

1. Click [RS-232C Port Setting]. Default values are shown for each port.
2. Right-click in the active area, click on the [Update Tool] button, then change the values.
3. Click on the Update button.



ITEM	RANGE	DEFAULT	REMARK	
Baud Rate	0-7	19200	0: N/A 2: 1200 Baud 4: 4800 Baud 6: 19200 Baud	1: N/A 3: 2400 Baud 5: 9600 Baud 7: 38400 Baud
CTS/RTS	ON/OFF	OFF	--	
P-Break	ON/OFF	OFF	--	
LPP	001-199	060	--	

## Print Serial Port Selection (PGM 175)

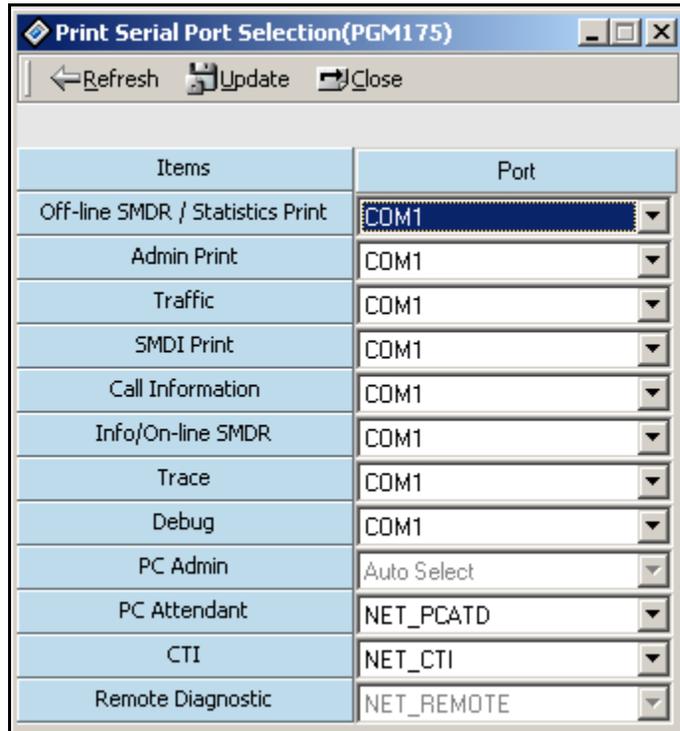
You can change the usage of the print serial port. You can change the various input port for application.

**Note:** The PC Admin port is only displayed and you can't change the value.

If the PC Admin port is COM1-COM2 for PC application (PC Admin, PC Attendant, CTI), you can't use those ports (COM1-COM2) as normal terminal ports during use of PC Admin. Except for PC Admin, you have to change the ports related with the PC application to DEFAULT VALUE (Network) before you use those ports for normal usage (Trace, SMDR Printing...). If you do not change those values, the system may experience problems.

**Operation**

1. Click [Print Serial Port Selection].



2. Refer to the following table and change the values.

ITEM	RANGE	DEFAULT	REMARK
Off-line SMDR / Statistics Print	01-11	COM 1 (01)	01: COM1 02: COM2 - MODU 03: TELNET 1 04: TELNET 2 05: TELNET 3 06: Reserved 07: NET_PCADM 08: NET_PCATD 09: NET_CTI 10: NET_REMOTE 11: Not Supported
Admin Print	01-11	COM 1 (01)	
Traffic	01-11	COM 1 (01)	
SMDI Print	01-11	COM 1 (01)	
Call Information	01-11	COM 1 (01)	
Info/On-line SMDR	01-11	COM 1 (01)	
Trace	01-11	COM 1 (01)	
Debug	01-11	COM 1 (01)	
PC Admin	01-11	Auto Select. Display Only	
PC Attendant	01-11	NET_PCATD (08)	
CTI	01-11	NET_CTI (09)	
Remote Diagnostic	N/A	Not Supported	

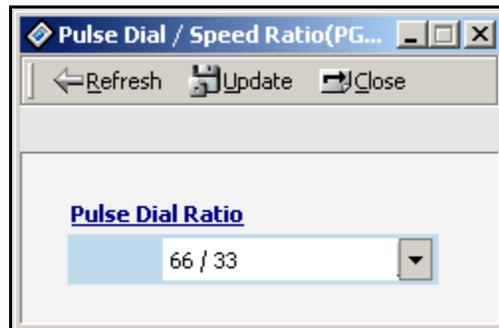
**Note:** If you select the MODU for PC Admin connection, port speed is limited to 9600 bps. If you select a value greater than 9600 bps, you might experience connection problems.

### Pulse Dial / Speed Ratio (PGM 176)

If the type of CO line is PULSE instead of DTMF, it decides pulse dial ratio.

#### Operation

1. Click [Pulse Dial / Speed Ratio].
2. Change the ratio.



## SMDR Attributes (PGM 177)

The Station Message Detail Recording (SMDR) will provide details on both incoming and outgoing calls. As an assignable database option, if Long Distance/All Call is selected, incoming and outgoing, local and long distance calls are all provided. If only Long Distance is selected, then only outgoing calls that meet the toll check status requirements listed below are provided.

### Operation

1. Click [SMDR Attributes].
2. Refer to the following table, and change values as desired.

Save Enable	<input type="checkbox"/>
Print Enable	<input type="checkbox"/>
SMDR Record Call Type	Long Distance ▾
Records In Detail	<input checked="" type="checkbox"/>
Print Incoming Call	<input type="checkbox"/>
Print Lost Call	<input type="checkbox"/>
SMDR Dial Digit Hidden	0 (0 - 9)
SMDR Currency Unit	( Max 3 characters )
SMDR Cost Per Metering Pulse	000000 ( Must 6 digit )
SMDR Fraction	0 (0 - 5)
SMDR Start Timer	0 * 1 sec (000 - 250)
SMDR Hidden Digit	RIGHT ▾
Long Distance Call Digit Counter	7 (7 - 15)
Long Distance Code (Max 2 Digits)	
1:	0 2: 3: 4: 5:
MSN Print On SMDR	<input type="checkbox"/>
Print Caller Number	<input type="checkbox"/>
ICM SMDR Save	<input type="checkbox"/>
ICM SMDR Print	<input type="checkbox"/>
SMDR Interface Service	<input type="checkbox"/>
I-SMDR Connection Type	SIO ▾
I-SMDR Author Index	<input type="checkbox"/>

**SMDR Attributes (PGM 177)**

ITEM	RANGE	DEFAULT	REMARK
SMDR Save Enable	ON/OFF	OFF	The system can be set to record either all outgoing calls (ALL) or only limit set by timer in Btn12 (SMDR Start Timer).
SMDR Print Enable	ON/OFF	OFF	The system can be set to real time print either all outgoing calls (ALL) or only limit set by timer in Btn12 (SMDR Start Timer)
SMDR Record Call Type	LD/All Call	LD	The system can be set to record either all outgoing calls or only long distance calls, exceeding the time limit set by SMDR Start Tmr. The long distance calls are identified by SMDR long distance code programming (Btn 15).
Records in Detail	ON/OFF	ON	Due to limited system memory size, in places where many calls take place, the SMDR record buffer can easily become saturated. So, if the customer doesn't need the detailed call information but total call, total metering count and total cost for individual station, then it is possible to save only the total accumulation, rather than the detailed records in their entirety.
Print Incoming Call	ON/OFF	OFF	If this option (PIC) is set to ENABLE, all incoming calls are printed with either all outgoing calls or long distance calls.
Print Lost Call	ON/OFF	OFF	If this option (PLC) is set to ENABLE, all lost calls are printed whether unanswered or not.
SMDR Dial Digit Hidden	0-9	0	According to this value, the '*' symbol will be hidden in the SMDR digits.
SMDR Currency Unit	3 Char	--	For easy identification of call cost, the currency unit can be input with 3 alphabetic characters to be printed in front of the call charge amount.
SMDR Cost Per Unit Pulse	6 digits	--	This is the call cost unit per cost metering pulse, which is sent from the Central Office.
SMDR Fraction	0-5	0	This value represents the decimal position point of the CO per unit pulse.
SMDR Start Timer	000-250	000	1 sec base
SMDR Hidden Digit	Right/ Left	Right	Hide digits from right or left

**SMDR Attributes (PGM 177)**

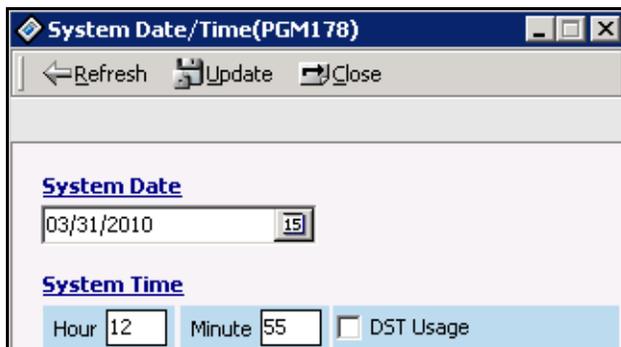
ITEM	RANGE	DEFAULT	REMARK
SMDR Long Distance Call Digit Counter	7-15	7	If the SMDR digits are more than this value, the system considers it as a long distance call.
SMDR Long Distance Codes	Flex Btn 1-5	0	A maximum of 5 SMDR Long Distance codes are available. The SMDR Long Distance code is 1 or 2 digits number. By default, the SMDR Long Distance Code is 0.
MSN Print On SMDR	ON/OFF	OFF	Enable or Disable printing MSN on SMDR
Print Caller Number	ON/OFF	OFF	Enable or Disable printing of the Caller Number
ICM SMDR Save	ON/OFF	OFF	If this value is set to ON, ICM call data is stored in Off-line SMDR
ICM SMDR Print	ON/OFF	OFF	If this value is set to ON, ICM call data is printed in On-line SMDR
SMDR Interface Service	ON/OFF	OFF	--
I-SMDR Connection Type	SIO/LAN	SIO	--
I-SMDR Author Index	ON/OFF	OFF	--

**System Date / Time (PGM 178) - Not Used**

You can set the system date/time.

**Operation**

1. Click [System Date/Time].



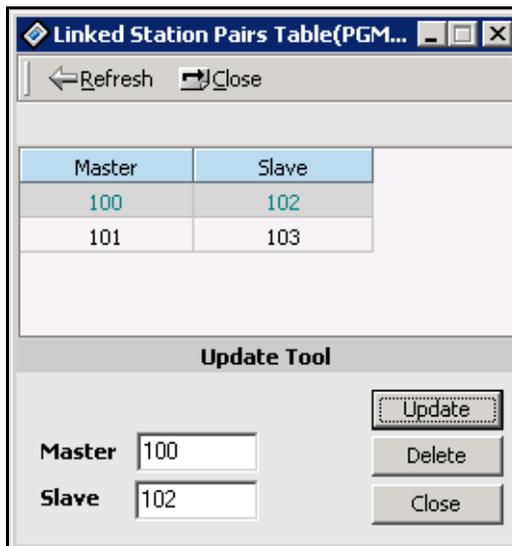
2. Set the values and click the [Update] Button. The changed values will display on the LCD screen of your keyset instantly.

## Linked Station Pairs Table (PGM 179)

You can link two stations as a pair and it is possible to make up to 24 pairs in the system.

### Operation

1. Select the [Update Tool] to add or delete a station pair. Enter a station number to be linked with or deleted.
2. To delete a pair, erase the slave area or press the [Delete] button. After changing data, press the [Update] button to save changes.



## System Timers I - III (PGM 180, 181,182)

You can set the system timers. You can change the interval of time that each event occurs.

### Operation

1. Click [System Timers].
2. Select an item to be altered, and click the [Update Tool] to change a value.

System Timers(PGM180-182)			
← Refresh    ↗ Close			
ID	Timer	Range	Value
1	Attendant Recall Timer	0-60(1min)	1
2	Call Park Recall Timer	0-600(1sec)	120
3	Camp-on Recall Timer	0-200(1sec)	30
4	Exclusive Hold Recall Timer	0-300(1sec)	60
5	I-Hold Recall Timer	0-300(1sec)	30
6	System Hold Recall Timer	0-300(1sec)	30
7	Transfer Recall Timer	0-300(1sec)	30
8	ACNR Delay Timer	0-300(1sec)	30
9	ACNR No Answer Timer	10-50(1sec)	30
10	ACNR Pause Timer	5-300(1sec)	30
11	ACNR Retry Counter	1-30	3
12	ACNR No Tone Retry Counter	1-9	1
13	ACNR Tone Detect Timer	1-300(1sec)	30
14	Automatic CO Release Timer	20-300(1sec)	30
15	CCR Inter Digit Timer	0-255(100msec)	30
16	CO Call Drop Warning Timer	0-99(1sec)	10
17	Reserved		
18	CO Dial Delay Timer	0-99(100msec)	1
19	CO Release Guard Timer	1-150(100msec)	20
20	CO Ring Off Timer	10-150(100msec)	60
21	CO Ring ON Timer	1-9(100msec)	2
22	Warning Tone Timer	60-900(1sec)	180
23	Call Forward No Answer Timer	0-255(1sec)	15
24	DID/DISA No Answer Timer	0-99(1sec)	25
25	VMIB User Record Timer	10-255(1sec)	20
26	VMIB Valid User Message Timer	0-9(1sec)	4

**System Timers - I (PGM 180)**

ITEM	RANGE	DEFAULT	REMARK
Attendant Recall Timer	00-60 (2 digits)	01 (min)	Establishes the amount of time before the system disconnects the call.
Call Park Recall Timer	000-600 (3 digits)	120 (sec)	Establishes the amount of time before a call placed in a call park location will recall the station placing the park.
Camp-on Recall Timer	000-200 (3 digits)	030 (sec)	If a station transfers to a busy station and hangs up, this recall timer is invoked.
Exclusive Hold Recall Timer	000-300 (3 digits)	060 (sec)	Establishes the amount of time before a call placed on exclusive hold will recall the station placing the hold.
I-Hold Recall Timer	000-300 (3 digits)	030 (sec)	Establishes the amount of time before a call recalls the attendant.
System Hold Recall Timer	000-300 (3 digits)	030 (sec)	Establishes the amount of time before a call placed on system hold will recall the station placing the hold.
Transfer Recall Timer	000-300 (3 digits)	030 (sec)	Establishes the amount of time a transferred call will ring at the station receiving the transfer and how long it will recall the station transferring the call.
ACNR Delay Timer	000-300 (3 digits)	030 (sec)	When the ACNR Pause Timer expires and there is no available CO Line in the group, this timer is invoked. When the ACNR Delay Timer expires, invoke the ACNR Pause Timer if there is still no available CO line, ACNR is activated.
ACNR No Answer Timer	10-50 (2 digits)	030 (sec)	This Timer is invoked after system detects CO ring back tone or voice from a CO party. After this timer, the system retries ACNR.
ACNR Pause Timer	005-300 (3 digits)	030 (sec)	When this timer expires, ACNR is activated. (For CIS: 5-300)
ACNR Retry Counter	01-30	03	This counter decreases every time the station retries ACNR. ACNR is canceled if set to 0. (For CIS: 1-9)
ACNR Retry No Tone	1-9 (1 digit)	1 (5 sec)	1 represents 5 seconds, the system will wait this value to decide NO TONE. 3 represents 15 seconds. (Only for CIS)

**System Timers - I (PGM 180)**

ITEM	RANGE	DEFAULT	REMARK
ACNR Tone Detect Timer	001-300 (3 digits)	030 (sec)	This timer is invoked upon completion of dialing and the system considers the CO party as busy in the case that the CPTU cannot detect a valid tone type until this timer expires.
Automatic CO Release Timer	020-300 (3 digits)	030 (sec)	An uncompleted CO call will be automatically released after this timer expires.
CCR Inter-digit Timer	000-255 (3 digits)	030 (100ms)	This field is used for the CCR inter-digit timer in the DISA/DID CO line. In DID type 2, it is used for the DID inter-digit timer.
CO Call Drop Warning Timer	00-99 (2digits)	10 (sec)	If prepaid money is going to expire during a CO conversation, give warning tone and after this time the call will be disconnected. This timer is also used for Call Restriction, Unsupervised Conference.
Reserved	--	--	--
CO Dial Delay Timer	00-99 (2 digits)	01 (100ms)	Voice connection to the outside party will be made after this timer. This can be used to prevent illegal dialing in case of slow response from the Central Office Line or PBX.
CO Release Guard Timer	001-150 (3 digits)	020 (100ms)	The CO Release Guard Timer controls the time necessary to guarantee idle loop state when the line is released.
CO Ring Off Timer	001-150 (3 digits)	060 (100ms)	This timer is to secure time interval between incoming ringing signals so that the active ringing can be continued in the system until this timer expires.
CO Ring On Timer	1-9 (1 digit)	2 (100ms)	The CO Ring On Timer controls the time necessary to detect an outside line as ringing into the system.
CO Warning Tone Timer	060-900 (3 digits)	180 (sec)	Establishes the amount of time before receiving warning tone to remind of the call elapsed time in case of outgoing CO conversations.
VM Outbound Retry Counter	0-9 (1 digit)	2	

**System Timers - II (PGM 181)**

ITEM	RANGE	DEFAULT	REMARK
Call Forward No Answer Timer	000-255 (3 digits)	015 (sec)	The Call forward busy/no answer feature will take place using this timer. If this timer has a non-zero value and an extension is set to busy, no answer forward by the station user, then the extension will ring for this timer and will then forward to the next destination.
DID/DISA No Answer Timer	00-99 (2 digits)	25 (sec)	A DID call will be forwarded to the Attendant if the station is busy or does not answer within this time.
VMIB User Record Timer	010-255 (3 digits)	020 (sec)	The time duration of the VMIB user greeting.
VMIB Valid User Message Timer	0-9 (1 digit)	4 (sec)	The time duration of a valid VMIB user message.
Door Open Timer	05-99 (2 digits)	20 (100ms)	This timer establishes the length of time that is needed to activate a door open relay.
ICM Box Timer (Doorbox)	00-60 (2 digits)	30 (sec)	Establishes the amount of time programmed stations will ring when the ICM box user presses the [CALL] button.
ICM Dial Tone Timer	01-20 (2 digits)	10 (sec)	If action is not taken within ICM dial tone timer, the user will receive an error-tone.
Inter Digit Timer	01-20 (2 digits)	05 (sec)	If the time between dialed digits exceeds the Inter-digit timer, the user will receive an error-tone.
MSG Wait Reminder Tone Timer	00-60 (2 digits)	00 (min)	Establishes the amount of time between repeated reminder tones to a key telephone with a message waiting.
Paging Timeout Timer	000-255 (3 digits)	015 (sec)	Establishes the maximum time allowed for a page. The system will automatically disconnect the page at the end of this time unless the caller has hung up earlier.
Pause Timer	1-9 (1 digit)	3 (sec)	Establishes the length of the pause for use with automatically sent digits or other speed dialing.
Preset Call Forward Timer	00-99 (2 digits)	10 (sec)	Establishes the amount of time an outside line call will ring before being forwarded to a predetermined station. This entry works with Preset Forward Assignments in station attributes. More than one station can be forwarded to the same destination.

**System Timers - II (PGM 181)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
SLT DTMF Release Timer	00-20 (2 digits)	00 (sec)	--
3 Soft Auto Release Timer	01-30 (2 digits)	05 (sec)	--
VM Pause Timer	01-90 (2 digits)	30 (100ms)	--
Transit Connect Timer	01-30 (2 digits)	04 (sec)	--
VMIB MSG Rewind Timer	01-99 (2 digits)	05 (sec)	--
LCO Connect Timer	00-20 (2 digits)	00 (sec)	--
LCO CPT Detect Timer	00-20 (2 digits)	05 (sec)	--
Forward to VMIB Timer	20-60 (2 digits)	20 (sec)	If the Auto FWD to VMIB feature (PGM 113 - FLEX 14) is set to a station, the call is automatically forwarded to VMIB after this timer expires, so the caller can leave a voice message.

**System Timers - III (PGM 182)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
SLT Hook Switch Bounce Timer	01-25 (2 digits)	01 (100ms)	This timer establishes the length of time that is needed to regard as a valid on-hook or off-hook.(for SLT).
SLT Maximum Hook Flash Timer	001-250 (2 digits)	050 (10ms)	This timer establishes how long the user could depress the hook switch in order for it to be considered a FLASH (Timed-Break Recall). (for SLT)
SLT Minimum Hook Flash Timer	000-250 (3 digits)	020 (10ms)	The minimum bound time that system considers as a hook flash for an SLT.
SLT Ring Phase Timer	2-5 (1 digit)	5 (sec)	Determines the ring phase of SLTs. (5 SEC: 1 SEC ON / 4 SEC OFF)
Station Auto Release Timer	020-300 (3 digits)	060 (sec)	If a station hears ring back tone and no action is taken, this timer is initiated. When this timer expires the station is released.
Unsupervised Conference Timer	00-99 (2 digits)	10 (min)	Establishes the amount of the time an unsupervised conference can continue after the initiator of the conference has exited the conference
Wake-up Fail Ring Timer	00-99 (2 digits)	20 (sec)	After a Wake-up fail ring invokes on the System Attendant, the alarm ring continues during the length of this timer. If this timer expires, the Alarm ring will terminate.
Warm Line Timer	01-20 (2 digits)	05 (sec)	User takes no action after lifting handset or pressing the [SPEAKER] button and the warm line timer expires, then the idle line selection for warm line is activated.
Wink Timer	010-200 (3 digits)	010 (10ms)	The Time Duration of Seize Acknowledge Signal to DID line.
Enblock Int Digit Timer	01-20 (2digits)	15 (sec)	After timer expires, Setup is sent.
CCR Time Out Timer	000-300 (3 digits)	010 (sec)	When this timer expires, CCR is activated
DID Inter Digit Timer	01-20 (2 digits)	05 (sec)	This timer is used for the DID type 2 feature. In DID type 2, the SBX IP system will wait for new DID digits to be received until this timer expires or the call routing of DID type 2 is executed.

**System Timers - III (PGM 182)**

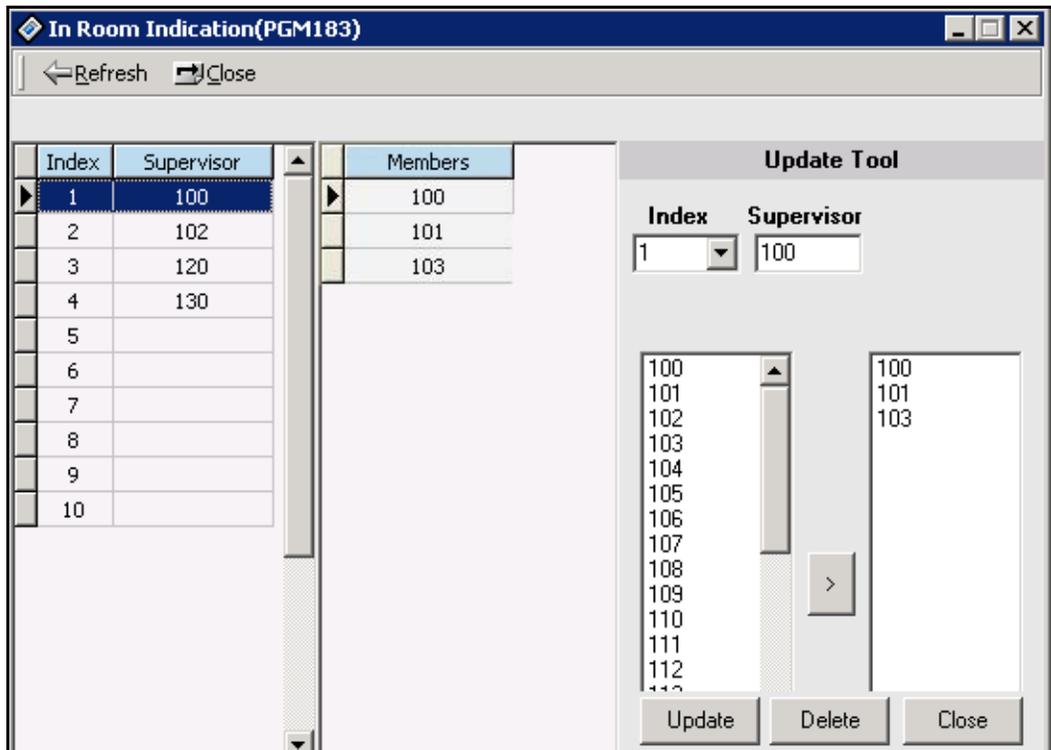
ITEM	RANGE	DEFAULT	REMARK
FAX Tone Detect Timer	01-10 (2 digits)	05 (sec)	Establishes the time allowed for a FAX tone to be detected before disconnection.
FAX CO Call Timer	1-5 (1 digit)	1 (min)	Establishes the time allowed for a FAX call before disconnection.

**In Room Indication (PGM 183)**

This window assigns Room Indication data. This window consists of a supervisor and various members.

A Supervisor cannot be assigned as a normal member. If a supervisor and a member are duplicated, the PC Admin will display warning window.

When a user leaves the supervisor field, it means that the user wants to delete the data. So, PC Admin will delete data with the selected bin number.



## Chime Bell Attribute (PGM 184)

This window assigns Chime Bell attributes. Master and slave are the extension number and relay should be assigned with each bin number. Bell timer and Tone frequency are adapted in common. So, you use the separate [Update] button in the upper area of the window to save these values. The [Update] button at the bottom of the window is used only for table data.

**Chime Bell Attribute(PGM184)**

← Refresh    ↵ Close

**Bell Timer**

Tone 1: 480 Hz

Tone 2: 620 Hz

Bell Timer: 1

Update

Bin No.	Master	Slave	Relay
1	100	102	0
2			0
3			0
4	160	170	0
5			0
6			0
7			0
8			0

**Update Tool**

Bin No.: 2    Master: 101    Slave: 103    Relay: 3

Update    Delete    Close

## DCOB System Attributes (PGM 186)

In this menu, you can program the attributes of R2 (DCOB). These menus consist of combo boxes.

Attribute Name	Value	Range/Unit
Line Status	6	
Calling Category	1	
CLI Digit Num	4	
Metering Type	<input type="checkbox"/>	
ANI Request	<input type="checkbox"/>	
R2 Out Digit Timer	5	01 - 50 (sec)
R2 ERROR PROMPT USAGE	<input type="checkbox"/>	
R2 BUSY PROMPT USAGE	<input type="checkbox"/>	
R2 ANNC PROMPT USAGE	<input type="checkbox"/>	
DCO Gain	32	1 - 63
R2 OUT Manage Timer	14	01 - 50 (sec)
R2 IN Manage Timer	14	01 - 50 (sec)
R2 Disappear Timer	14	01 - 50 (sec)
R2 Pulse Timer	7	01 - 30 (msec)
R2 Ready Timer	7	000 - 500 (20msec)
Dial Tone Delay Timer	20	01 - 30 (sec)

### Operation

1. Select [DCOB System Attributes]. Current programmed data will display.
2. You can change values in this window. After changing, press the [Update] button to save the changes.

**Note:** This feature only applies to a few countries.

**DCOB System Attributes (PGM 186)**

ITEM	RANGE	DEFAULT	REMARK
DCOB CO Type (This is actually programmed in PGM187, BTN4)	0-2	2	0: Sweden/Cyprus 1: Italy 2: Korea/Australia
Metering Type	0-1	0	0: Not used 1: When a Metering signal is received
R2 OUT Manage Timer	01-50	14 (sec)	In R2 signaling, maximum time for waiting for forward signal from PX
R2 IN Manage Timer	01-50	14 (sec)	In R2 signaling, maximum time for waiting for forward signal from PX
R2 Disappear Timer	01-50	14 (sec)	--
R2 Pulse Timer	01-30	07 (20ms)	In R2 signaling, time duration to send pulse typed R2 signal
R2 Ready Timer	000-500	007 (20ms)	--
Dial Tone Delay Timer	01-30	20	--
Line Status	1-9	6	Free Line
Calling Category	1-9	1	User no priority
ANI Request	ON/OFF	OFF	ON: Caller ID Service
CLI Digits Number	01-10	04	--
R2 Out Digits Timer	01-50	05	--
R2 Error Prompt	ON/OFF	OFF	--
R2 Busy Prompt	ON/OFF	OFF	--
R2 Annc Prompt Usage	ON/OFF	OFF	--
DCO Gain	01-63	32	--

## DCOB CO Line Attributes (PGM187)

This feature is for R2(DCOB) programming.

DCOB CO Line Attributes (PGM 187)

ITEM	RANGE	DEFAULT	REMARK
IN Digit Type	0-2	2	Default: R2MFC (2) To set type: [0 : PULSE, 1 : DTMF, 2 : R2MFC]
OUT Digit Type	0-2	2	Default: R2MFC (2) To set type: [0 : PULSE, 1 : DTMF, 2 : R2MFC]
Number of CLI Digits	01-15	10	--
DCOB Type	0-2	2	0: Cyprus, 1: Italy, 2: Korea
Send S-Block Cmd	ON/OFF	OFF	--

## Station Group

You can group stations, and allow an idle station in a group to respond to a call.

### Station Group Assign (PGM 190/191)

Stations in the system can be grouped so that incoming calls will search (hunt) for an idle station in the group. Three hunting processes can be assigned: Circular, Terminal, or UCD (Uniform Call Distribution). Each of the system's groups is assigned as a function: Call Pick-Up Group and/or Hunt Group, Voice Mail Group, and Ring Group. The available groups per system and stations per group is as follows:

- Number of Groups per system = 10
- Stations per group = 26

A station can belong to any number of Pickup groups, but can only belong to one Station Hunt group, Voice mail group, or Ring group.

When assigning a station group to any type of hunt group or voice mail group, ring, pick up group, the system initializes hunt attributes by default value for it's own function. It can be programmed to meet each customer's individual need.

### Operation

1. Click [Station Group].
2. Select a group.
3. Press the [Update] button (will be displayed by right-clicking with the mouse) to add or modify members.

There are two parts in the window. One part is the assigned group number list and the second is for member configuration.

If you select one station group in the left field, the station that is a member of the group will be displayed automatically.

If you want to add or edit the station group, select the [Update Tool] button in popup menu.

Then a second window will display for editing or adding station group data.

Also, you can assign the attributes of each group with [Attribute Assign] menu of popup menu. This window is displayed on the next page.

Grp	Type	Pick-up	Station
620	Circular	ON	
621	Not Assigned	OFF	
622	Not Assigned	OFF	
623	Not Assigned	OFF	
624	Not Assigned	OFF	
625	Not Assigned	OFF	
626	Not Assigned	OFF	
627	Not Assigned	OFF	
628	Not Assigned	OFF	
629	Not Assigned	OFF	

Assigned Station List	Station List	Group	Member
620	100	620	101
101	101		102
102	102		103
103	103		
	104		
	105		
	106		
	107		
	108		
	109		
	110		
	111		
	112		
	113		
	114		
	115		
	116		
	117		
	118		
	119		
	120		
	121		
	122		

**Group Type:** Circular  
**Pick up Attribute:** ON  
 Update

You can change the location of a group member using Up/Down key. Then PC Admin will send the changed order of stations to the MPB and the MPB will save with the new order of stations.

You use the [Attribute Assign] button to change the data that is already programmed.

**Station Group Type (PGM 190)**

ITEM	RANGE	DEFAULT	REMARK
Group Type	0-7	0	0: Not assigned 1: Circular 2: Terminal 3: UCD 4: Ring 5: VM 6: Pick up 7. Net VM
Pick-up Attribute	ON/OFF	OFF	OFF
Member Assignment	Not Assigned	--	Group Type must be assigned first.

**Circular/Terminal Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
VMIB Announce 1 Timer	000-999	015 (sec)	If this timer expires after a call comes into the group, the system announces the greeting, if one exists.
VMIB Announce 2 Timer	000-999	000 (sec)	If this timer expires after a call comes into the group, the system announces the VMIB, if assigned.
VMIB Announce Location 1	00-70	00 (not assigned)	This location is used to announce a greeting when the VMIB Announce 1 timer expires.
VMIB Announce Location 2	00-70	00 (not assigned)	This location is used to announce greeting when the VMIB Announce 2 timer expires.
VMIB Announce 2 Repeat	000-999	000 (sec)	The VMIB announce 2 is repeated when this timer expires (000 = not assigned).
VMIB Announce 2 Repeat Enable/Disable	ON/OFF	OFF	This is used to enable or disable the VMIB Announce 2 Repeat.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
No Answer Timer	00-99	15 (sec)	In circular hunt, calls to a station in the group will go to the station, if unavailable or unanswered in this no answer time, the call is directed to the next station in the group.
Pilot Hunt	ON/OFF	ON	A circular hunt group can be assigned with a pilot number (the station group) so that only calls to the pilot number will hunt.
Alt if no Member	ON/OFF	OFF	If there is no member on duty, an ICM call will be dropped or an incoming CO call will be routed to the Attendant.

**Circular/Terminal Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Music Source	0-9	0 (not assigned)	If music source is assigned, calling user will be heard music instead of ring back tone. 0: Not Assigned    1: Internal Music 2: External Music 1    3: Reserved 4: SLT 1    5: SLT 2 6: SLT 3    7: SLT 4 8: SLT 5    9: Hold Tone
Alternate Destination	Sta No/ Hunt No	--	When a call comes into the group and there is no available station in the group, then the call will be routed to this destination, if assigned.
Max Queue Call Count	00-99	99	This value is the maximum call count that can be queued. If the total queued call count is this value, the next queuing tried call will be disconnected
Member Forward	ON/OFF	ON	If this value is set to ON, members will be forwarded.
Queue Count Display	ON/OFF	ON	If this value is set to ON, a Hunt member can check the Queue Count.

**UCD Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
VMIB Announce 1 Timer	000-999	015 (sec)	If all stations in the group are busy when a call is received for the group, the call may continue to wait (queue) for an available station in the group. If queued, the call may be sent to a UCD announcement when the queue period exceeds the 1st announcement Timer. If the timer is set to 000 the call will receive the full first announcement prior to the hunting process (guaranteed announcement).
VMIB Announce 2 Timer	000-999	000 (sec)	The second announcement can be provided if the call continues to wait beyond the 2nd announcement timer.
VMIB Announce Location 1	00-70	00 (not assigned)	Each Station Hunt Group can be assigned an announcement, which is played when the call is first received. The announcement may be assigned as VMIB.

**UCD Group Attributes (PGM 191)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
VMIB Announce Location 2	00-70	00 (not assigned)	This location is used to announce greeting when the VMIB Announce 2 timer expires.
VMIB Announce 2 Repeat Timer	000-999	000 (sec)	The VMIB announce 2 is repeated when this timer expires (000 = not assigned).
VMIB Announce 2 Repeat Enable/Disable	ON/OFF	OFF	This is used to enable or disable the VMIB Announce 2 Repeat.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
Alt if no Member	ON/OFF	OFF	If there is no member on duty, an ICM call will be dropped or an incoming CO call will be routed to the Attendant.
Music Source	0-9	0 (not assigned)	If music source is assigned, calling user will be heard music instead of ring back tone. 0: Not Assigned      1: Internal Music 2: External Music 1    3: Reserved 4: SLT 1                5: SLT 2 6: SLT 3                7: SLT 4 8: SLT 5                9: Hold Tone
UCD Warning Tone	ON/OFF	ON	Establishes whether the ACD supervisor monitors an agent with a warning tone or without a warning tone
Alternate Destination	Sta No/ Hunt No	--	When a call comes into the group and there is no available station in the group, then the call will be routed to this destination, if assigned.
Supervisor Timer	000-999	030 (sec)	When the queued time is longer than this timer, the number of queued lines will be displayed on the supervisor's LCD.

**UCD Group Attributes (PGM 191)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
Supervisor Call Count	00-99	00	If the number of queued calls is more than this call count, the supervisor timer will be started.
UCD Queued Call (Reserved)	ON/OFF	ON	(Reserved)
Max Queue Call Count	00-99	00	This value is the maximum call count that can be queued. If the total queued call count is this value, the next queuing tried call will be disconnected
Supervisor	Sta #	--	Supervisor station number
UCD Hunt Stations' Priority	0-9	0	UCD group member's priority
Member Forward	ON/OFF	ON	If this value is set to ON, members will be forwarded.
UCD DND Ring Timer	000-999	000 (sec)	If this timer set to 000 sec, this timer is not operated. If this timer is set to 010, after 10 seconds ringing the UCD member is automatically in a UCD DND state.
UCD Queued Tone	ON/OFF	OFF	--

**Ring Group Attributes (PGM 191)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
VMIB Announce 1 Timer	000-999	015 (sec)	If this timer expires after a call comes into the group, the system announces the greeting, if one exists.
VMIB Announce 2 Timer	000-999	000 (sec)	If this timer expires after call come in the group, the system announces the VMIB if assigned.
VMIB Announce Location 1	00-70	00 (not assigned)	This is used to announce greeting when the VMIB announce 1 timer expires.
VMIB Announce Location 2	00-70	00 (not assigned)	This is used to announce VMIB when the VMIB announce 2 timer expires.
VMIB Announce 2 Repeat Timer	000-999	000 (sec)	The VMIB announce 2 is repeated when this timer expires (000 = not assigned).

**Ring Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
VMIB Announce 2 Repeat Enable/Disable	ON/OFF	OFF	This is used to enable or disable the VMIB Announce 2 Repeat.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
Music Source	0-9	0 (not assigned)	If music source is assigned, calling user will be heard music instead of ring back tone. 0: Not Assigned      1: Internal Music 2: External Music 1    3: Reserved 4: SLT 1                5: SLT 2 6: SLT 3                7: SLT 4 8: SLT 5                9: Hold Tone
Max Queue Call Count	00-99	99	This value is the maximum call count that can be queued. If the total queued call count is this value, the next queuing tried call will be disconnected
Supervisor	Sta #	--	Supervisor station number
Member Forward	ON/OFF	ON	If this value is set to ON, members will be forwarded.
Queue Count Display	ON/OFF	ON	If this value is set to ON, a Hunt member can check the Queue Count.

**Voice Mail Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
Put Mail Index	1-4	1	This index is one of the voice mail dialing tables.
Get Mail Index	1-4	2	This index is one of the voice mail dialing tables.
Hunt Type	CIRC/ TERM	TERM	1: Circular Hunt Group 0: Terminal Hunt Group
SMDI Port	--	--	<b>Not to be programmed</b>
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.

**Pick Up Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Auto Pickup	ON/OFF	OFF	If a hunt member is ringing, another hunt member can pickup automatically by pressing the [SPEAKER] button or by going off-hook.
All Ring	ON/OFF	OFF	When a hunt member that is in TONE mode is ringing, all the other stations are ringing also. The Auto Pickup feature must be set before All Ring is set.

## ISDN System Base Program

To change the ISDN related features you use PGM200-PGM202.

### ISDN Attributes (PGM 200)

You can change the ISDN attributes using this menu.

#### Operation

1. Click [ISDN Attributes].

2. Refer to the following table, enter the data, then click on [Update] to save your input.

**ISDN Attributes (PGM 200)**

ITEM	RANGE	DEFAULT	REMARK
CO ATD	Max of 2 digits	--	According to PGM 114 - Btn 5, CO ATD code or Extension number can be attached to the CLI, COLP message
My Area Code	Max of 6 digits	--	Local Area Code
My Area Prefix Code	Max of 4 digits	--	Prefix Code of Local Area Code

## COLP Table (PGM 201)

After you make an outgoing call through the ISDN line, you can see the number you are connected with.

### Operation

Click [COLP Table], select a table index, and click the [Update Tool].

Index	COLP Digits
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

**Update Tool**

Update/Delete and next

Index:  COLP Digits:

## Tables

### LCR Assignment (PGM 220)

LCR is a function you can program to select the least-costly CO line automatically for day/night, and any specified time zone. The LCR table has four parts. In PGM 220, you can program the general database, LCR access mode, day zone, and time zone.

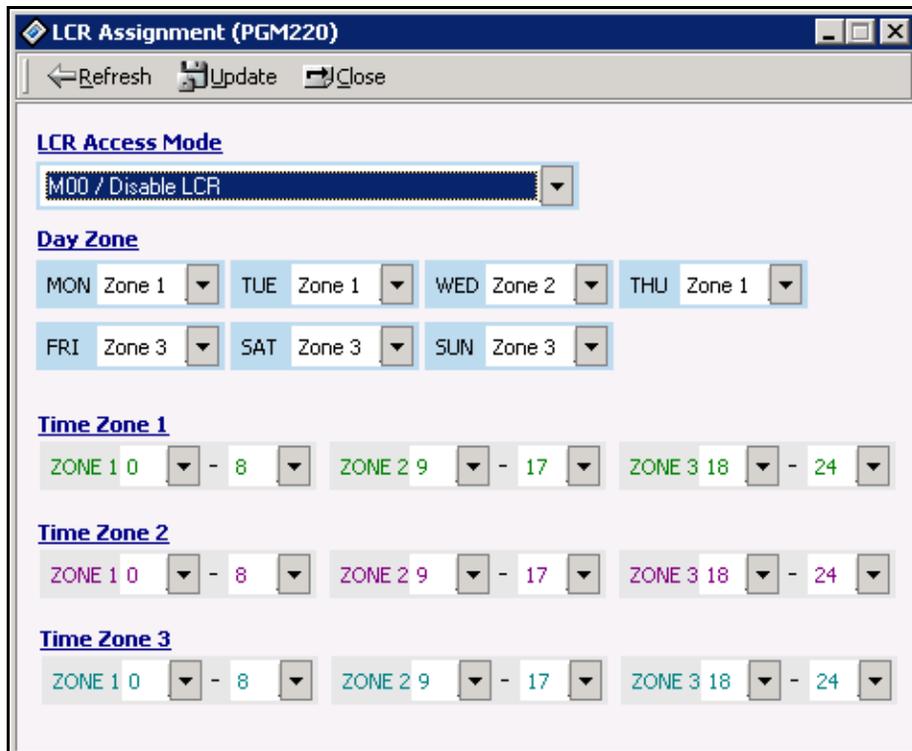
#### Operation

1. Click [LCR Assignment].
2. Select an LCR Access Mode.
  - M00: LCR is not used
  - M01: Only Loop LCR
  - M02: Internal and Loop LCR
  - M11: Loop and Direct CO LCR
  - M12: Internal, Loop and Direct CO LCR

A duplicated day cannot be assigned for different day zones. If you want to select Saturday for Day Zone 2, select "Zone 2" in the SAT combo box.

For each day zone, you set time-of-day. The time also cannot be duplicated for each day zone.

3. After programming, press the [Update] button to save the changes.



LCR Table (PGM 220)

ITEM	RANGE	DEFAULT	REMARK
LCR Access	M00	Disable	LCR Access Mode 00 (M00): Disable LCR
	M01	M00)	LCR Access Mode01 (M01): only Loop LCR.
	M02		LCR Access Mode02 (M02): Internal and Loop LCR.
	M11		LCR Access Mode11 (M11): Loop and Direct CO LCR
	M12		LCR Access Mode12 (M12): Internal, Loop, and Direct CO LCR.
	M13		LCR Access Mode13 (M13): Internal, Loop, Direct CO, and Direct Loop LCR.
	Day Zone	Zone: 3 Day: 1-7	Belongs to Zone 1
Time Zone	Time: 00-24	Belongs to Zone 1	The system accepts the same value for 00 and 24 and changes to "00", if 24 is input as the starting value and vice versa. *Note: The time not belonging to any zone will be considered as zone 1. *Note: 10-13 represents 10:00:00 - 12:59:59

## LCR - LDT (Leading Digit Table) Table (PGM 221)

PGM 221 is the Leading Digit Table.

### Operation

1. Click the [LCR-LDT Table]. Select an LDT number (0-249).
2. Click the [Update tool] of the menu that is opened by right-clicking with the mouse.

LCR - LDT Table (PGM221)
\_ □ ×

← Refresh   ↻ Close

Index	LCR Type	Compared Digits Max 12 Digits Include '*', '#'	Day Zone 1			Day Zone 2			Day Zone 3			Check Password
			T1	T2	T3	T1	T2	T3	T1	T2	T3	
0	BOTH	12	0	2	4	6	13	24	19	25	43	OFF
1	BOTH											OFF
2	BOTH											OFF
3	BOTH											OFF
4	BOTH											OFF
5	BOTH											OFF

Update Tool

Index
Compared Digits
Day Zone 1
Time Zone 1
Time Zone 2
Time Zone

3. Select an LCR type (INT, COL, BOTH).
4. Enter Leading Digits (12-digits to compare with a number a user dialed previously).
5. Set up DMT Index with the combo box. You should setup the DMT1 field. Others fields may be left blank.

**Leading Digit Table (PGM 221)**

ITEM	RANGE	DEFAULT	REMARK
LCR Type	(1)INT (2)COL (3)BOTH	BOTH	INT: look up this entry only for internal dialing. COL: look up this entry only after dialing CO Access Code. BOTH: look up this entry for both INT and COL.
CD	12 digits	None	To be compared with the dialed digits by a user.
DMT Index	Each value 00-99	None	Day Zone 1, 2, 3 has 3 time zone DMT indexes (6 digits)

## LCR - DMT Table (PGM 222)

PGM 222 is the Digit Modification Table.

### Operation

1. Click [LCR-DMT Table], and select DMT (0- 99)
2. Click the [Update Tool]. The following dialog box appears

Index	Add Digits(Max 25 Digits) Include(*, #, D, P, F) D(Tone Detect), P(Pause) F(Billing Station)	Removal Position 1 ~ 12	Num Of Digits to be removed 0 ~ 12	Add Position 1 ~ 13	CO Group 1 ~ 24	Alternative DMT Index 0 ~ 99
0	123	4	5	6	7	99
1		1	0	1	1	N/A
2		1	0	1	1	N/A
3		1	0	1	1	N/A
4		1	0	1	1	N/A
5		1	0	1	1	N/A
6		1	0	1	1	N/A
7		1	0	1	1	N/A
8		1	0	1	1	N/A
9		1	0	1	1	N/A
10		1	0	1	1	N/A

**Update Tool**

Index	Added Digits	Removal Position	Num Of Digits to be removed	Add Position	CO Group	Alternative DMT Index
0	123	4	5	6	7	99

3. Added Digit Stream: 25 Digits in maximum.
4. Removal Position: Select a position to remove (1-12).
5. Number of digits to be removed: Select the number to be deleted (1-12).
6. Add Position: Select a position to be added (1-13).

7. CO Group: Select a CO Group.
8. Alternative DMT index: If there is no CO group to select, select alternative DMT index to be used (0-99).

**Digit Modification Table (PGM 222)**

ITEM	RANGE	DEFAULT	REMARK
Bin Number	00-99	--	--
Added Digit Stream	25 digits	None	Normal digits (0-9, *, #) Special characters: [CALLBK]: Pause [DND/FOR]: Dial-tone-detection instead of pause [FLASH]: Billing code (Extension Number)
Removal Position	01-12	01	Index to CD stream in Lead table to be removed
Number of Digits to be Removed	00-12	00	Remove digits in CD stream up to this amount
Add Position	01-13	01	Establishes the position of the CD stream after removal, where the stream will be inserted.
CO Group	01-24	01	Establishes which CO group is used for LCR dialing
Alternative DMT Index	00-99	None	Establishes an alternative DMT index when there is no idle CO line in CO group.

## LCR Table Initialization (PGM 223)

This feature initializes Day Zone 1, 2, 3 in the LDT and all CO groups in the DMT.

### Operation

1. Click [LCR Table Initialization]. Click [Day Zone] (1-3). Select DMT index (0-99), and press [Initialize] button to initialize.
2. Select a CO group (1-36), and click the [Initialize] button that is located below the Initialize CO Group area.
3. Select alternative DMT index (1-99), and click the [Initialize] button of Initialize Alternative DMT Index area.
4. Click [Initialize All LCR Table] to initialize all LCR table.

**LCR Table Initialization (PGM223)**

Close

**Initialize all DMT Index of Day Zone in LDT**

Day Zone: Day Zone 1    Select DMT Index: 2    3    5

Initialize

**Initialize CO Group**

CO Group: 5

Initialize

**Initialize Alternative DMT Index**

Alternative DMT Index: 1

Initialize

Initialize All LCR Table

## Toll Exception (PGM 224)

Toll tables are used to have access to certain toll free calls as well as being denied certain calls for the stations assigned STATION COS. Exception table A & B allow the station that is programmed in STA COS 2, 3, & 4 to have access to certain toll free calls as well as being denied certain calls.

The Allow/Deny Tables are organized into 2 sets of tables to support 2 different toll plans at one installed site. Each allow/deny table may contain up to 30 number strings. All bins of allow and deny tables have no entries by default. Each number string can contain up to 14 entries including any number 0-9, \*, #, "Don't care".

Use the following rules when setting up the Allow/Deny Tables:

- If the tables have no entries, no restriction is applied.
- If entries are made in the allow table and only there, then only those numbers are allowed.
- If entries are made in the deny table and only there, then only those numbers are denied.
- If there are entries in both tables, the allow table is searched first and if number is found, it is allowed. If not found, the deny table is searched and if number is found, it is denied. If it is not found in either table, it is allowed.

Allow/Deny Rules (PGM 224)			
ENTRY		CONDITIONS & RESULT	
ALLOW	DENY	ALLOW TABLE	DENY TABLE
Not Exist	Not Exist	No Restriction	No Restriction
Exist	Not Exist	Found - allowed Not found - denied	--
Not Exist	Exist	--	Found - denied Not found - allowed
Exist	Exist	Found - allowed Not found - check deny table	Found - denied Not found - allowed

## Operation

Click [Toll Exception Table]. Select table (allow or deny).

**Toll Exception Table (PGM224)**

Close

Allow A Allow B Allow C Allow D

Deny A Deny B Deny C Deny D

Index	Value(Max 14Digits,*,#,D is don't care)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

**Update Tool**

**Index** Value(Max 14Digits,\*,#,D is don't care)

13

Update Delete Close

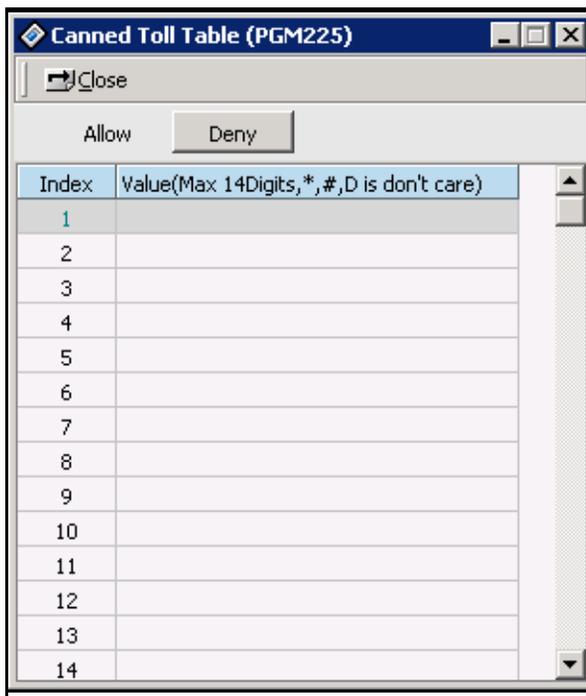
### Canned Toll Table (PGM 225)

The Allow/Deny Tables are organized to support 2 different toll plans at one installed site. You can set the Allow/Deny table that is applied to station COS 5, 6. The number of entries in a table is 20 and the entries can be up to 14 digits including any number 0-9, \*, #.

#### Operation

Click [Canned Toll Table]. Select [ALLOW] or [DENY].

Canned Toll Table (PGM 225)			
ITEM	ENTRY	DEFAULT	REMARK
ALLOW	01-20	--	Max digits: 14
DENY	01-20	--	Max digits: 14



## Emergency Code Table (PGM 226)

Regardless of STA COS, an emergency call can be made through a service code. You can make 10 service codes for emergencies.

### Operation

Click [Emergency Code Table].

Index	Value(Max 14Digits,*,#,D is don't care)
1	
2	
3	
4	
5	
6	
7	
8	

**Update Tool**

Index:  Value(Max 14Digits,\*,#,D is don't care):

## Authorization Code Table (PGM 227)

Trunk groups can be marked to deny access until a matched Authorization code is entered. In this case, a DND warning tone is provided when the trunk group access code is dialed. If the dialed Authorization code is verified, you will receive CO dial tone. Otherwise, you will receive an error tone and you cannot access the group. Stations or admin programming can enter the authorization codes. An Authorization code is fixed at 5 digits. The Administrator can see and change a station's password. There can be no duplicate entries. By default, Authorization Codes are not assigned.

### Operation

1. Click [Authorization Code Table]. If an authorization code is already registered it will be shown.
2. After editing, press the [Update] button to save changes.

You can save and reload these codes as a file. If you want to save or reload database file, click the update menu and select a menu.

- [Auth Code Data Save]: Save the data as a file.
- [Auth Code Data Load]: Load the data as a file.
- [Auth Code Data Save]: Write loaded data to the MPB from start to end automatically. At this time, you do not need to do anything. PC Admin will operate the process automatically until an empty bin is found.

The file that is used by this feature cannot be opened or edited by other software. This file is specific to PC Admin.

Auth code range was from 3 digits to 11 digits and COS will be displayed. From index 1 to maximum station number, Day / Night COS will be displayed and you cannot change them. But the other range of index, you can change the COS.

If you want to change the COS for a station number, you should program PGM 116.

◆ **Authorization Code Table(PGM227)**
\_ □

← Refresh ↻ Close

Index	Value(3~11 Digits)	Day COS	Night CO:
1	12312341235	1	1
2	4152351	1	1
3		1	1
4		1	1
5		1	1
6		1	1
7		1	1
8		1	1
9		1	1
10		1	1
11		1	1
12		1	1
13		1	1
14		1	1

Update Tool

**Update/Delete and Next**

<b>Index</b>	<b>Value(3~11 Digits)</b>	<b>Day COS</b>	<b>Night COS</b>
11	<input style="width: 100%;" type="text"/>	1 ▾	1 ▾

Update
Delete
Close

## Customer Call Routing (PGM 228)

According to voice guidance, an outside caller may be connected to a certain destination, and to hear another voice message by pressing a button on their keyset.

### Operation

1. Click [Customer Call Routing].
2. Select a CCR table number (01-70), and press the [Refresh] button. You will see 10 entry indexes in the [CCR Table].

Customer Call Routing(PGM228)		
← Refresh    ↻ Update    ✕ Close		
<b>Index</b>	6	
1 Destination	Not Assigned	<input type="text"/>
2 Destination	VMIB	<input type="text" value="10"/>
3 Destination	Not Assigned	<input type="text"/>
4 Destination	Station	<input type="text"/>
5 Destination	VMIB	<input type="text" value="100"/>
6 Destination	Not Assigned	<input type="text" value="70"/>
7 Destination	Not Assigned	<input type="text"/>
8 Destination	Not Assigned	<input type="text"/>
9 Destination	Not Assigned	<input type="text"/>
10 Destination	Not Assigned	<input type="text"/>
Busy Destination	Attendant	<input type="text"/>
Error/Timeout Destination	Attendant	<input type="text"/>
No Answer Destination	Attendant	<input type="text"/>

**Customer Call Routing Table (PGM 228)**

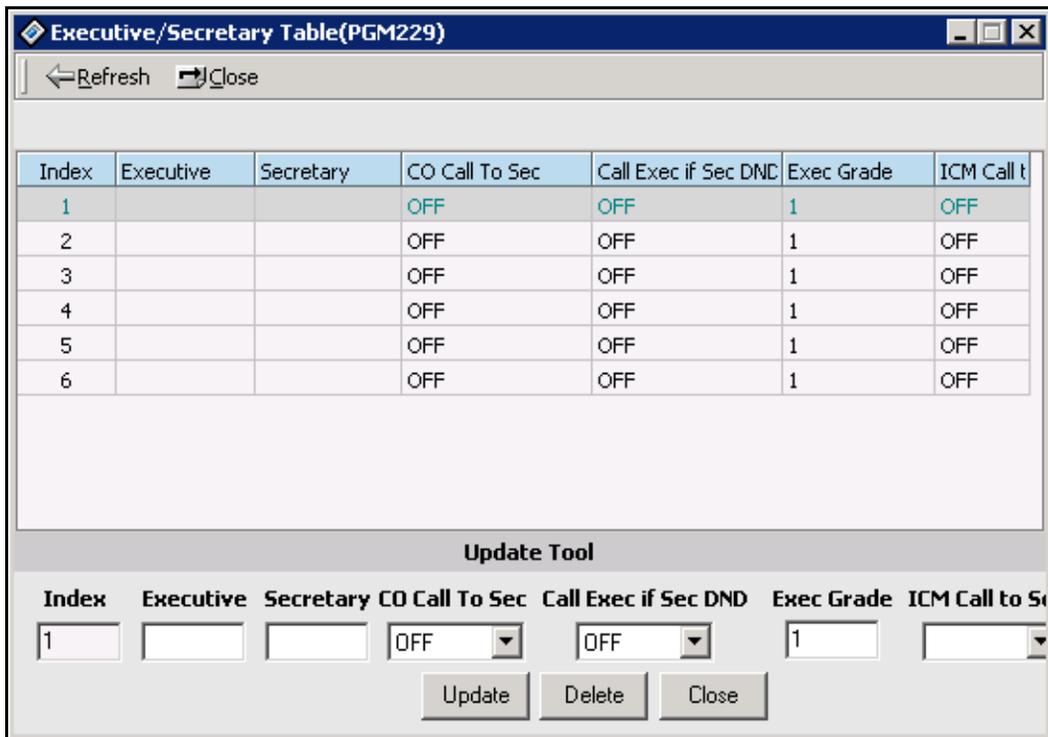
<b>TYPE (DIGIT)</b>	<b>TYPE</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
1	Station	Station #	--	--
2	Hunt Group	Hunt #	--	--
3	VMIB	Announce #	--	--
4	VMIB DROP	Announce #	--	--
5	System Speed	2000-2499	--	--
6	Internal Page	1-5	--	--
7	External Page	1	--	--
8	All Call Page	1	--	--
9	Net Number	Valid Net #	--	A valid net number must be entered. Networking programming must be done to use this field.
10	Conference Room	1-9	--	--

## Executive/Secretary Table (PGM 229)

There are a number of Executive/Secretary pairs available for assignment so that when the executive-designated station is in a DND state, intercom calls and transfers will be automatically routed to the designated secretary station. By default, Executive / Secretary Pairs are not assigned.

### Operation

Choose an index, and click [Update Tool] of pop menu.



### Conditions

- CO Call To Sec: This directs CO calls to the secretary.
- Call Exec if Sec DND: If this field is enabled and the secretary is in a DND state, the call will be delivered to the executive.
- Sec Grade: This field can be used to assign the level of the secretary.

## Flexible DID Table (PGM 231)

This table is for flexible DID table service.

### Operation

1. Click [Flexible DID Table].
2. You can select the range that you want to read. You might have a problem because of a long read operation with a slow connection. At that time, if you uses a Modem and serial connection, it takes a lot of time to read all of the data because of a more stable data exchange. There is an editable field and limit number is 50. So, you can select a special range and can save waiting time.

Flexible DID Table(PGM231)

← Refresh
Close

Enter Table Range

Refresh All Range
Refresh

Index	Name	Day Type	Day Dest.	Night Type	Night Dest.	Weekend Type	Weekend Dest.	Reroute Type
1		Not Assigned		Not Assigned		Not Assigned		Not Assigned
2		Not Assigned		Not Assigned		Not Assigned		Not Assigned
3		Not Assigned		Not Assigned		Not Assigned		Not Assigned
4		Not Assigned		Not Assigned		Not Assigned		Not Assigned
5		Not Assigned		Not Assigned		Not Assigned		Not Assigned
6		Not Assigned		Not Assigned		Not Assigned		Not Assigned
7		Not Assigned		Not Assigned		Not Assigned		Not Assigned
8		Not Assigned		Not Assigned		Not Assigned		Not Assigned
9		Not Assigned		Not Assigned		Not Assigned		Not Assigned

Update Tool

Index 
Name

Update
Delete
All Initial
All Delete
Close

Edit with Range

**Day Type**

**Day Dest.**

**Night Type**

**Night Dest.**

**Weekend Type**

**Weekend Dest.**

**Reroute Type**

**Reroute Dest.**

**Lunch Mode Type**

**Lunch Mode Dest.**

## Flexible DID Table (PGM 231)

ITEM	RANGE	DEFAULT	REMARK
DID Name	1-11 Chars	None	Max of 11 characters
Day Destination	STA # / Hunt # / VMIB # VMIB # drop SPD Int Page Ext Page All Page Net Number Conf. Room STA VM	Sta # Or NULL        Sta #	  00-70 (00: NOT_ASG) 00-70 (00: NOT_ASG) 2000-2499 1 - 5 1 1 Programmed valid Net number 1-9
Night Destination	STA # / Hunt # / VMIB # VMIB # drop SPD Int Page Ext Page All Page Net Number Conf. Room STA VM	Sta # Or NULL        Sta #	  00-70 (00: NOT_ASG) 00-70 (00: NOT_ASG) 2000-2499 1 - 5 1 1 Programmed valid Net number 1-9

## Flexible DID Table (PGM 231)

ITEM	RANGE	DEFAULT	REMARK
Weekend Destination	STA # / Hunt # / VMIB # VMIB # drop SPD Int Page Ext Page All Page Net Number Conf. Room STA VM	Sta # Or NULL       Sta #	00-70 (00: NOT_ASG) 00-70 (00: NOT_ASG) 2000-2499 1 - 5 1 1 Programmed valid Net number 1-9
Reroute Destination	STA # / Hunt # / VMIB # VMIB # drop SPD Int Page Ext Page All Page Net Number Conf. Room STA VM	Sta # Or NULL       Sta #	00-70 (00: NOT_ASG) 00-70 (00: NOT_ASG) 2000-2499 1 - 5 1 1 Programmed valid Net number 1-9

**Note:** When you use this feature, you will see the two results windows. The first one is the result of Day, Night and Weekend destinations. The second result window displays the result of Reroute Destination and DID Name programming. You will check the reason of an error with the result message box.

## System Speed Zone (PGM 232)

You can divide system speed dials into 10 zones maximum, and use zones for station COS checking and a status of each station.

### Operation

1. Click [System Speed Zone].

The screenshot displays the 'System Speed Zone (PGM232)' web interface. It features a table of speed zones, a list of accessible stations, and an 'Update Tool' for configuring a specific zone.

Index	Speed Bin From	Speed Bin To	Toll Check	Auth Check
1	2200	2499	ON	OFF
2	0	0	ON	ON
3	0	0	ON	ON
4	0	0	ON	ON
5	0	0	ON	ON
6	0	0	ON	ON
7	0	0	ON	ON
8	0	0	ON	ON
9	0	0	ON	ON
10	0	0	ON	ON

The 'Update Tool' section shows the configuration for Index 1, with a speed range of 2200 to 2499. The 'Toll check' checkbox is checked, and the 'Auth Check' checkbox is unchecked. Two lists of station indices (100-119) are shown, with a right-pointing arrow between them, indicating a mapping or selection process.

2. Enter speed bin range in zone field (2200-2499).
3. Select Toll Checking.(On/Off). When you use station range to access zone, check station COS and determine to restrict according to the Access/Deny table.
4. Click the [Update] button.

**Update Tool**

**Index**    **Accessible Speed Range**

6    0 ~ 0

**Toll check**     **Auth Check**

100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119

"System Speed Zone Editing Window"

**Flexible DID Table (PGM 232)**

ITEM	RANGE	DEFAULT	REMARK
Speed Bin Range in Zone	2200-2499	--	Each zone is exclusive (2000 - 2199: Toll Free Zone)
Station Range to Access Zone	Station #	100-131	--
Toll Checking	YES/NO	YES(ON)	--
Auth Check	YES/NO	YES(ON)	--

## Weekly Time Table (PGM 233)

You can set day/night/weekend start time for each day. A maximum of six entries are possible. Weekend is after 6 o'clock on Friday.

### Operation

1. Click [Weekly Time Table], select a number (1-15).
2. Select the table index in combo box. If you select an index, data will be read.
3. After editing, press the [Update] button to save changes.

Weekly Time Table (PGM 233)		
ITEM	DEFAULT	REMARK
Day		Day ring mode start time (HH:MM)
Night		Night ring mode start time (HH:MM)
Weekend		Weekend ring mode start time (HH:MM)

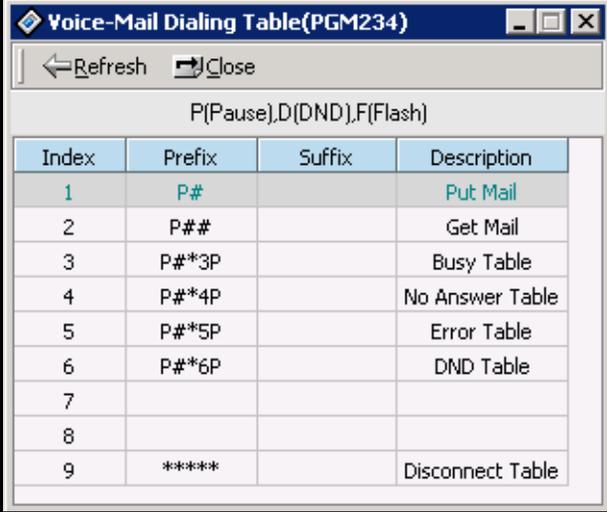
## Voice-Mail Dialing Table (PGM 234)

Apply this feature to use voice mail, and signal assignment between two systems.

It is recommended that you leave the default values.

### Operation

1. Click [Voice-Mail Dialing Table].
2. Select the [Update tool] in the popup menu by right-clicking the mouse.
3. After editing, press [Update] button to save the change.



Index	Prefix	Suffix	Description
1	P#		Put Mail
2	P##		Get Mail
3	P#*3P		Busy Table
4	P#*4P		No Answer Table
5	P#*5P		Error Table
6	P#*6P		DND Table
7			
8			
9	*****		Disconnect Table

Voice Mail Table (PGM 234)

DIGIT	ITEM	DEFAULT	REMARK
1	VM Table 1	Prefix: P# Suffix: -	Put Mail
2	VM Table 2	Prefix: P## Suffix: -	Get Mail
3	VM Table 3	Prefix: - Suffix: -	
4	VM Table 4	Prefix: P#*0P Suffix: -	
5	VM Table 5	Prefix: P#*4P Suffix: -	No Answer Table
6	VM Table 6	Prefix: P#*5P Suffix: -	Error Table
7	VM Table 7		Busy Table
8	VM Table 8		DND Table
9	VM Table 9	*****	Disconnect Table

### Mobile Extension Table (PGM 236)

Index	Enable	CO Grp	Tel Number	CLI	Station	Mobile Hunt Call	Voice MSG Wait	Usage
1	DISABLE	1			100	OFF	OFF	OFF
2	DISABLE	1			101	OFF	OFF	OFF
3	DISABLE	1			102	OFF	OFF	OFF
4	DISABLE	1			103	OFF	OFF	OFF
5	DISABLE	1			104	OFF	OFF	OFF
6	DISABLE	1			105	OFF	OFF	OFF
7	DISABLE	1			106	OFF	OFF	OFF

**Update Tool**

Index:   Enable  CO Grp  Tel Number  CLI  Station

Mobile Hunt Call  Voice MSG Wait Notice to Mobile  Usage

Mobile Extension Table (PGM 236)

BTN	ITEM	RANGE	DEFAULT	REMARK
	Mobile Ext. Table Bin No.	001-048	--	
1	Mobile Ext. Enable	ON/OFF	OFF	
2	Mobile Ext. CO Grp	1-12	N/A	
3	Mobile Ext. Tel No.	Max 24	N/A	
4	CLI	Max 16 digits	N/A	
5	Mobile Hunt Call	ON/OFF	OFF	
6	Voice MSG Wait Notice to Mobile	ON/OFF	OFF	
7	Usage	ON/OFF	OFF	

## Local Code Table (PGM 204)

You can assign the local codes in this table. The local code entered in this table will be deleted in SMDR print. The telephone number with this code will not be recognized as a long distant call.

The available code value is numbers and digits (0-9, \*, #) and is limited to a maximum length of 5.

Bin	Local Code(Max 5 Digits)
1	13414
2	14132
3	*#*#*
4	46245
5	
6	
7	
8	

**Update Tool**

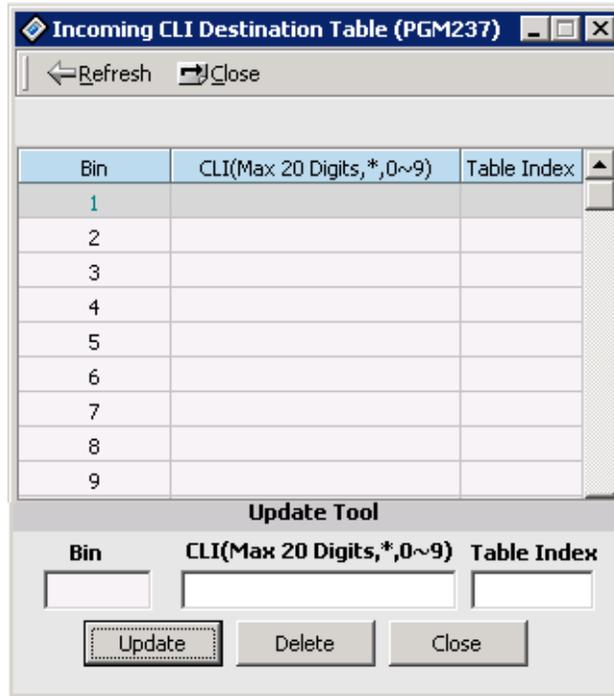
<b>Bin</b>	<b>Local Code(Max 5 Digits)</b>
4	46245

Update Delete Close

## Incoming CLI Destination Table (PGM 237)

An incoming DID destination can be associated with the incoming CLI. If a CLI number is registered and assigned a destination within the Incoming CLI Destination Table, all DID calls with this CLI will be routed to the corresponding destination.

- Note:**
- This feature is supported only when the CO type is set as DID.
  - This feature is executed first, when system receives a DID call with CLI.



(PGM 237)				
BTN	ITEM	RANGE	DEFAULT	REMARK
1	CLI Number	001-100	--	
2	Conversion Index Table	--	--	

## Voice Mailbox COS (PGM238)

The system provides administrative options to create COS for voice mailboxes. These COS can then be programmed to stations/mailboxes on an individual basis. Up to 5 COS may be programmed. NOTES: The default Class of Service for all mailboxes is 1. The parameters in COS 1 contain all default settings.

COS	Greeting length(0-99)	Record time(1-600)	Number of message(1-250)	Message	Email noti	Future de	Confirm n	Private m
1	15	300	50	15	DISABLE	DISABLE	DISABLE	ENABLE
2	15	300	50	15	ENABLE	DISABLE	DISABLE	ENABLE
3	15	300	50	15	DISABLE	DISABLE	DISABLE	DISABLE
4	15	300	50	15	DISABLE	DISABLE	DISABLE	ENABLE
5	15	300	50	15	DISABLE	DISABLE	DISABLE	ENABLE

**Update Tool**

**COS** 1

Greeting length(0-99 sec)  Message record time(1-600 sec)

Number of message(1-250)  Message retention time(1-99 days)

Email notification  Future delivery

Confirm message receipt  Private message mark

(PGM 238)				
BTN	ITEM	RANGE	DEFAULT	REMARK
1	Greeting Length	00-99	15	
2	Message Record Time	001-600 secs	300	
3	Number of Messages	01-250	50	
4	Message Retention Time	01-99 days	15	
5	E-mail Notification	Enable/Disable	Disable	
6	Future Delivery	Enable/Disable	Disable	
7	Confirm Message Receipt	Enable/Disable	Disable	
8	Private Message Mark	Enable/Disable	Enable	

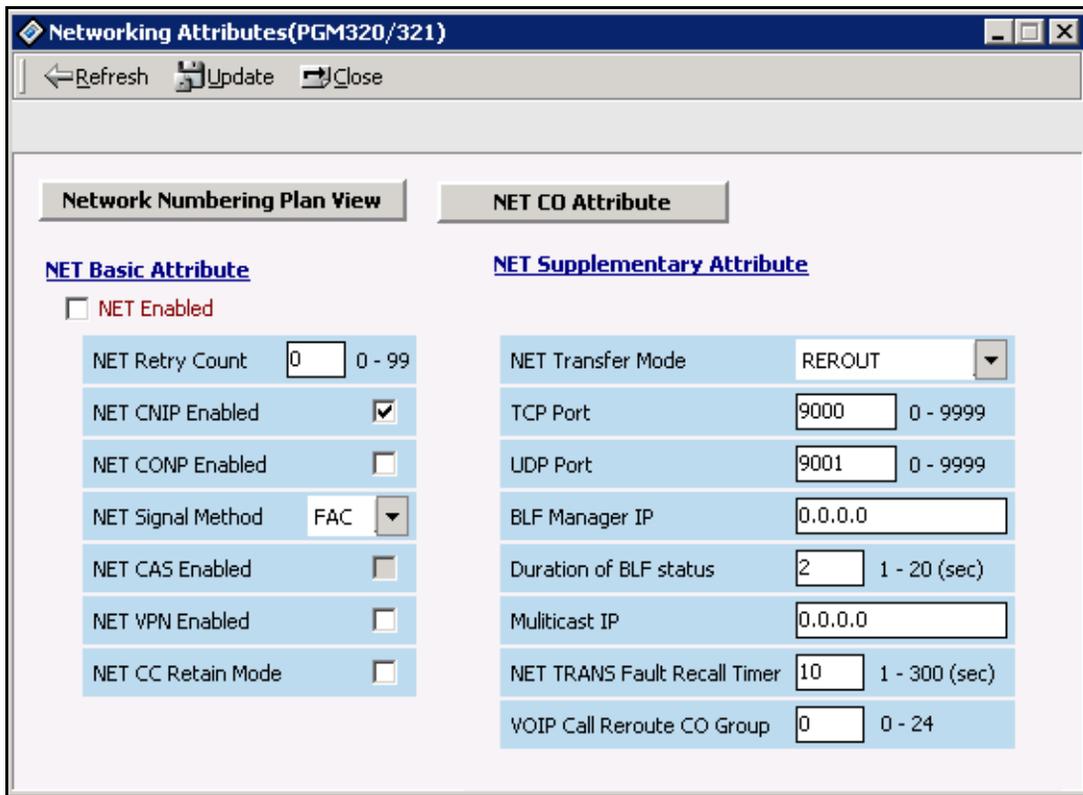
# Networking Programming

You can program for networking system of the system. The programming number range is from PGM 320 to PGM324.

## Networking Attributes (PGM 320/PGM321)

### Operation

1. Click [Networking Attributes]
2. Enter the values of field. Most of items are in a combo box and you can only select the item with a mouse or an arrow key.
3. Validation of the Edit box field will be checked automatically.



**Networking Basic Attribute (PGM 320)**

<b>BTN</b>	<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
1	Network Enable	ON/OFF	OFF	Enable Networking function
2	Network Retry Count	00-99	00	No need at direct connection between SBX IP systems. This field is available at connection through the public network.
3	Network CNIP Enable	ON/OFF	ON	The name of the calling station is sent to the called system between SBX IP systems. CNIP is displayed at called party stations display based on the programming.
4	Network CONP Enable	ON/OFF	OFF	Reserved
5	Network Signal Method	FAC/UUS	FAC	Select the information element type for QSIG supplementary service message.
6	Net CAS Enable	ON/OFF	OFF	Enable Centralized attendant In master system, CAS should be disabled.
7	Net VPN Enable	ON/OFF	OFF	Enable the VPN function
8	Net CC Retain Mode	ON/OFF	OFF	--

**Networking Supplementary Attribute (PGM 321)**

<b>BTN</b>	<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
1	Networking Transfer Mode	RERT/JOIN	REROUT	Only Transfer by Rerouting is possible
2	TCP Port	0000-9999	9000	TCP port for BLF message
3	UDP Port	0000-9999	9001	UDP port for BLF message
4	BLF Manager IP Address	12 digits	0.0.0.0	IP Address of BLF manager for BLF service
5	Duration of BLF Status	01-20 sec	02	Duration of BLF status message
6	Multicast IP Address	12 digits	0.0.0.0	IP address of Multicast for BLF service
7	Net Trans Fault Recall Timer	001-300	010	Network transfer fault recall timer
8	VOIP Call Reroute CO Group	00-24	00	Used to set the CO group of gatekeeper.

## Networking CO Line Attribute (PGM 322)

### Operation

1. Click [Networking CO Line Attribute]. Then default setting will be displayed.
2. Click the [Update Tool] to change attributes in popup menu. After changing each field, press the [Update] button to save changes.

**Networking CO Line Attribute(PGM322)**

← Refresh    ↵ Close

CO Num  -     **CO ISDN Attr**

CO Num	Networking CO Group	Networking CO Line Type	Gatekeeper Usage	VOIP Mode	DTMF Mode
1	0	PSTN	OFF	H.323	Inband DTMF
2	0	PSTN	OFF	H.323	Inband DTMF
3	0	PSTN	OFF	H.323	Inband DTMF
4	0	PSTN	OFF	H.323	Inband DTMF
5	0	PSTN	OFF	H.323	Inband DTMF
6	0	PSTN	OFF	H.323	Inband DTMF
7	0	PSTN	OFF	H.323	Inband DTMF
8	0	PSTN	OFF	H.323	Inband DTMF

**Update Tool**

CO Num  17 -

Select All

Networking CO Group  0     VOIP Mode  H.323

Networking CO Line Type  PSTN     DTMF Mode  Inband DTMF

Gatekeeper Usage  OFF

**Networking CO Line Attribute (PGM 322)**

<b>BTN</b>	<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
1	Net CO Group	00-24	00	Networking CO group programming for Networking call
2	VOIB Mode	H.323/SIP	--	This admin program establishes which protocol is used among H.323 or SIP at each VOIP CO line
3	Gatekeeper Usage	ON/OFF	OFF	
4	Net CO Line Type	QSIG/PSTN	PSTN	
5	DTMF Mode	2 = INBAND DTMF 3 = RFC2833 DTMF 4 = Outband DTMF		This Admin program determines DTMF Mode at each VOIP CO line



**Network Numbering Plan Table (PGM 324)**

<b>BTN</b>	<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
1	System Usage	NET/PSTN	NET	--
2	Net Numbering Code	16 digits	--	"*" means any digits can be inserted between 0-9. The digits followed by "#" is an internal station number.
3	Net Number CO Group	00-24	--	"00" means an internal net station number.
4	CPN or IP Information	16 digits	--	CPN for ISDN, IP address for VoIP. A max of 4 VOIB IP addresses can be programmed.
5	Alternate Dial Bin	2000-2499	--	Alternate Dial Number (System Speed Bin) that the system uses when the networking path has a fatal problem.
6	Destination MPB IP	IP Address	--	IP Address of destination system to support DECT mobility service.
7	Digit Repeat	Yes/No	No	If this PSTN number is not connected with a PSTN line directly, but connected by another networking system, set Digit Repeat to YES.
8	CO Atd Code CLI	On/Off	Off	Use CO Attendant Code for CLI or use NET CLI.

## VoIB Programming

### VoIB Programming (PGM 340)

You can program the VoIB configuration with PC Admin. If you use another application, you may have problems. We recommend that you check the version of the MPB and the PC Admin.

#### Operation

1. Select the VoIB board number. If the selected board number is not the VOIB, PC Admin will display an error message. This program is valid only for VOIB.
2. After selecting the board number, press the [Refresh] button. Then PC Admin will receive the information about the selected VOIB.
3. Upon initial entry, all data are default values. The same as Network Setting (PGM108), enter the IP address, gateway address, and subnet mask. Ask your network administrator for correct values.
4. Ask your network administrator for the DNS address. Trace password is 10 digits and it is used for tracing data. Numeric values and characters are all available up to 10 digits. You cannot see the password data for security.
5. To save the data, press the [Update] button.
6. To erase the data, press the [Update] button with the field blank.

## Gate Keeper Programming (PGM 341)

You can program the Gate Keeper with this window. Because the GateKeeper is related with the VOIB, this program is included in PGM340 VOIB programming. So, if you select the VOIB slot number, the VOIB and GateKeeper data will be displayed.

VOIB/GateKeeper Setting(PGM340/341)		SIP Attr 1		SIP Attr 2	
IP Address	<input type="text" value="0.0.0.0"/>	GK Usage	<input type="checkbox"/>	GK Address	<input type="text" value="0.0.0.0"/>
GATEWAY Address	<input type="text" value="0.0.0.0"/>	GK Call Mode	Direct	GK Find Address	<input type="text" value="224.0.1.41"/>
SUBNET Mask	<input type="text" value="255.255.255.0"/>	GK Open H245	<input type="checkbox"/>	GK Find Port	<input type="text" value="1718"/> 0 - 9999
DNS Address	<input type="text" value="0.0.0.0"/>	GK H245 Tunneling	<input type="checkbox"/>	GK RAS Signal Port	<input type="text" value="1719"/> 0 - 9999
Default Codec	G.723.1	GK Pregranted Arq	<input type="checkbox"/>	GK Signal Port	<input type="text" value="1720"/> 0 - 9999
Default Gain	<input type="text" value="31"/> 1 - 62	GK Out of Band Flash	<input type="checkbox"/>	VOIB GK ID(~23chs)	<input type="text"/>
No Delay ( TOS )	<input type="checkbox"/>	GK Time to live(sec)	<input type="text" value="30"/> 0 - 250	VOIB H323 ID(~23chs)	<input type="text"/>
Throughput ( TOS )	NORMAL			VOIB E164 Addr.(~23dgt)	<input type="text"/>
Reliabilty ( TOS )	NORMAL			VOIB Terminal Alias	
Trace Password	<input type="text"/>			1.	<input type="text"/>
Firewall IP Address	<input type="text" value="0.0.0.0"/>			2.	<input type="text"/>
VOIB Mode	H.323			3.	<input type="text"/>
DSP Use Silence Detection	<input type="checkbox"/>			4.	<input type="text"/>
DSP Use Echo Canceler	<input checked="" type="checkbox"/>	H.323 Mode	FAST	Fax Mode <input type="checkbox"/>	
DTMF Mode	Inband DTMF	Early H.245	<input type="checkbox"/>		
Jitter Buffer	<input type="text" value="150"/> 50 - 300(msec)	H245Tunneling	<input type="checkbox"/>		
Voice Monitor	<input type="checkbox"/>	TOS Precedence	<input type="text" value="0"/> 0 - 7		

**Operation**

1. Select the VOIB board number. If the selected board number is not the VOIB, PC Admin will display an error message. This program is valid only for VOIB.
2. After the selecting board number, press the [Refresh] button. Then PC Admin will receive the information about the selected VOIB.
3. Upon initial entry, all data are default values. Ask your network administrator for correct values.
4. To save the data, press the [Update] button.

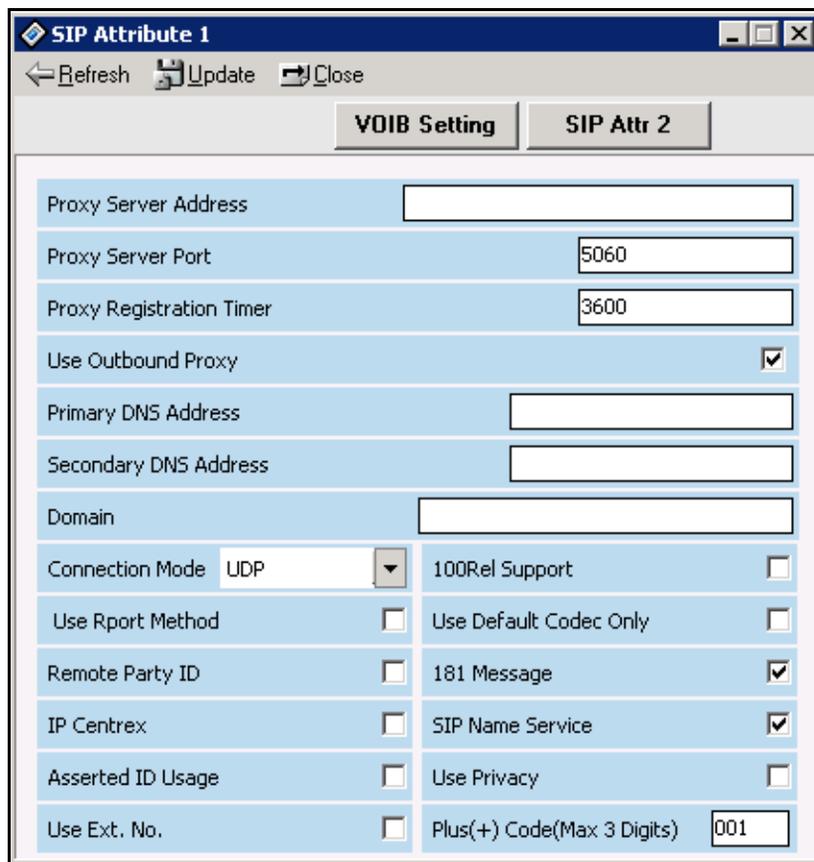
**Note:** SIP Attributes 1 & 2 are also opened from this window. There is no PGM code for SIP Attributes. So, you cannot program SIP Attributes with a keyset.

**SIP Attributes 1 & 2**

You can program SIP Attributes. These features are not included as a keyset Admin item. So, if you want to change SIP Attributes, you should use the latest version of PC Admin software.

**Operation**

1. Enter the PGM 340/341 area of programming.
2. Click on the [SIP Attr 1] button.
3. Either enter appropriate entries in the following fields or leave them empty:
  - Proxy Server Address can be assigned text data or an IP address. Maximum length of this field is 32 characters. You should enter the proxy server address if you are using a proxy server in your SIP application.
  - Proxy port can be assigned from 0-9999.
  - Registration timer is available from 0-65535.
  - A primary and secondary DNS address can be entered the same as the proxy server address. You can enter IP address or text up to 32 characters.



VOIB Setting		SIP Attr 2	
Proxy Server Address			
Proxy Server Port	5060		
Proxy Registration Timer	3600		
Use Outbound Proxy	<input checked="" type="checkbox"/>		
Primary DNS Address			
Secondary DNS Address			
Domain			
Connection Mode	UDP	100Rel Support	<input type="checkbox"/>
Use Rport Method	<input type="checkbox"/>	Use Default Codec Only	<input type="checkbox"/>
Remote Party ID	<input type="checkbox"/>	181 Message	<input checked="" type="checkbox"/>
IP Centrex	<input type="checkbox"/>	SIP Name Service	<input checked="" type="checkbox"/>
Asserted ID Usage	<input type="checkbox"/>	Use Privacy	<input type="checkbox"/>
Use Ext. No.	<input type="checkbox"/>	Plus(+) Code(Max 3 Digits)	001

4. Click on the [Update] button to save your data.
5. Click on the [SIP Attr 2] button.

**SIP Attribute 2**

← Refresh Close

					VOIB Setting	SIP Attr 1	
Index	User ID	Authentication User Name	Authentication User Password	Contact Number	User ID Registration	User ID Usage	Asc Stn.
2					Provision	OFF	
3					Provision	OFF	
4					Provision	OFF	
5					Provision	OFF	
6					Provision	OFF	
7					Provision	OFF	
8					Provision	OFF	
9					Provision	OFF	
10					Provision	OFF	
11					Provision	OFF	
12					Provision	OFF	
13					Provision	OFF	
14					Provision	OFF	

**Update Tool**

**Index** 
**Contact Number** 
**User ID Registration** 
 **User ID Usage**
**Asc Stn.**

**User ID**

**Authentication User Name**

**Authentication User Password**

**Authentication User Password Repeat**

6. Enter the following as appropriate:
  - User ID, Authentication User Name, and Authentication User Password can be entered as text data and as a number. The maximum length of these fields is 64 characters.
  - The type of Contact Number must be a number; otherwise, PC Admin will display an error message.
  - Authentication User Password Repeat is used for confirming the user password. If there is no user password, this field should be empty. But if a password exists, you should enter the same value in this Repeat field.
7. Click on the [Update] button to save your data.

## RSG/IP Phone Programming

### VOIB Slot Assignment for RSG/IP Phone (PGM 380)

### RSG/IP Phone Port Number Assignment (PGM 381)

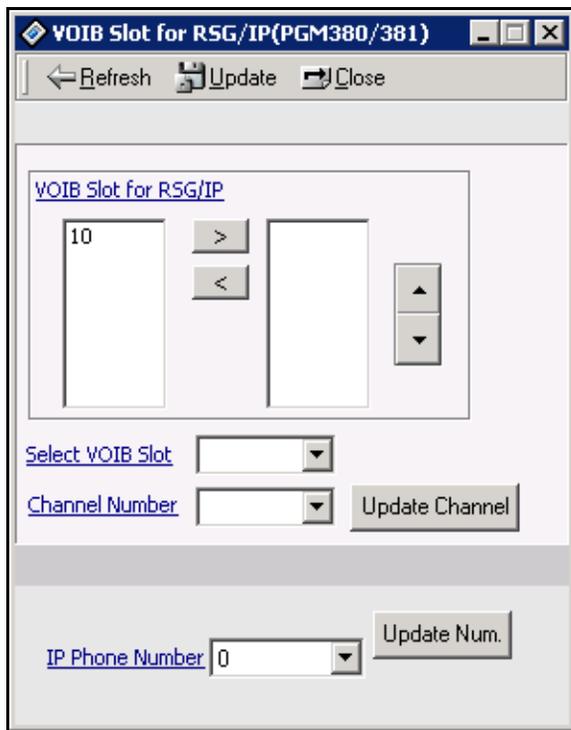
The RSG/IP Phone receives call service through VOIB.

Then the VOIB for RSG/IP can be assigned.

If several boards are assigned, assign the first VOIB slot on STA/COL Board in PGM 103.

#### Operation

1. Click [VOIB Slot Assignment for RSG/IP Phone]. Then default information will be displayed about RSG/IP Phone.
2. First, select the VOIB slot and update using the first part. If you select the non-VOIB slot, PC Admin will show an error message. After setting the VOIB slot, press the [Update] button in the upper menu to save the change.
3. Second, set the port number of each VOIB slot. After changing, press the [Update Port] button to save this configuration.
4. Next, configure RSG number and IP Phone number to be used. After setting ports, press the [Update Num] button to save the changes.



**VOIB Slot Assignment for RSG/IP Phone (PGM 380)**

BTN	ITEM	RANGE	DEFAULT	REMARK
1	VOIB Slot for RSG/IP Phone	--	--	VOIB slot assignment for RSG/IP Phone
2	RSG/IP Channel Assign	--	N/A	--

**Port Number for RSG/IP Phone (PGM 381)**

BTN	ITEM	RANGE	DEFAULT	REMARK
1	RSG No	0-8	0	--
2	IP Phone Number	00-16	00	The IP Phone number to be serviced from the system.

## RSG / IP Phone Attribute (PGM 382)

The following is how to set the attributes of an RSG/IP Phone.

### Operation

1. Click [RSG/IP Phone Attribute]
2. Select or check each field. After setting, press the [Update] button to save changes.

The screenshot shows a software window titled "RSG/IP Attributes I(PGM382)". At the top, there are three buttons: "Refresh", "Update", and "Close". Below these are seven configuration fields, each with a label and a value:

- Transfer Mode: IP
- Casting Mode: Unicast
- Tone Generation: Remote
- Codec Type: G.711\_ALAW
- Peer To Peer:
- First Access RSG CO:
- Ring w/o CO Ring Assign:

**RSG/IP Phone Attributes (PGM 382)**

BTN	ITEM	RANGE	DEFAULT	REMARK
1	Transfer Mode	IP or MAC	IP	--
2	Casting Mode	Unicast or Multicast	Unicast	--
3	Tone Generation	Remote (RSG/IP Phone)	Remote	--
4	Peer to Peer	ON/OFF	ON	--
5	Codec Type	G.711_ALAW(0)/ G.711_ULAW(1)/ G.723.1(2) / G.729(3) / G.729A(4)	G.711_ALAW(0)	--
6	First Access RSG CO	ON/OFF	ON	If the field is set, the station on RSG can access a CO line on his RSG by dialing the CO Line access code in the 1st available CO group (ex> 9).
7	Ring w/o CO Ring Assign	ON/OFF	ON	If the field is set, stations on RSG will receive the incoming CO ring even though the CO ring is not assigned.

## IP Phone Attributes (PGM 386)

The following is the attributes of RSG.

### Operation

1. Click [IP Phone Attribute]. Then all data will be read.
2. Select an index that you want to edit and press [Update Tool] in the popup menu. Then the update tool will be activated.

You can edit only two fields (MAC Address and CTI IP Address). Others are not able to be changed manually.

3. After editing, press the [Update] button to save changes.

◆ **IP Phone Attributes(PGM386)**

← Refresh
↪ Close

Bin No.	MAC Address	IP Address	Port View	Port Num	NAT IP Address	NAT Port No.	STUN Enable
1	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None
2	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None
3	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None
4	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None
5	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None
6	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None
7	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None
8	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None

◀

**Update Tool**

Bin No.	MAC Address	IP Address	Port View	Port Num	NAT IP Address	NAT Port No.	STUN Enable
10	00:00:00:00:00:00	0.0.0.0		0	0.0.0.0	0	None

**ID**

**Password**

Update

Delete

Close

## IP Phone Attributes (PGM 386)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	Set MAC Address	--	00.00.00.00.00. 00	[*]: A / [#]: B [CB]: C / [MUTE]: D [DND]: E / [FLASH]: F
2	IP Address Display	--	0.0.0.0	Display Only
3	Port View	--	N/A	Display Only
4	Port Number	--	N/A	Display Only
5	NAT IP Address Display	--	0.0.0.0	Display Only
6	NAT Port Number	--	0	Display Only
7	Stun Enabled	--	None	Display Only
8	CTI IP Address (Skip: #)	--	0.0.0.0	--
9	IPSEC Usage	ON/OFF	OFF	--
10	Outside NAT Firewall	ON/OFF	OFF	--
11	User ID	Max of 12 characters		Can be used by Nomad SP user
12	User Password	Max of 12 characters		Can be used by Nomad SP user

## RSG RX Gain Control (PGM 396)

The RX gain on the RSG can be adjusted.

	IP_PHONE(PGM396)
DKT	26
SLT	33
CTR_SLT	22
WKT	26
ACO	33
CTR_ACO	22
DCO	33
VMIB	29
DTMF	8
TONE	32
MUSIC 1	29
MUSIC 2	29
RSG_DKT	26
RSG_SLT	22
RSG_LCO	22
RSG_IP_Phone	26

## RSG TX Gain Control (PGM 397)

The TX gain on the RSG can be adjusted.

	IP Phone(PGM397)
DKT	26
SLT	33
CTR_SLT	22
WKT	26
ACO	33
CTR_ACO	22
DCO	33
VMIB	29

## Nation Specific

You can control transfer sensitivity of another station or CO line for each kind of phone (PGM 400 to PGM 423). These values depend on Nation specification.

**DTIB Rx Gain Control (PGM 400)**

**SLIB Rx Gain Control (PGM 401)**

**ACOB Rx Gain Control (PGM 404)**

**DCOB Rx Gain Control (PGM 406)**

**VMIB Rx Gain Control (PGM 407)**

**DTRU Rx Gain Control (PGM 408)**

**EXT Page Rx Gain Control (PGM 409)**

**CPTU Rx Gain Control (PGM 410)**

## MODU Rx Gain Control (PGM 411)

### Operation

Click [All Rx Gain Control] and enter the values of gain control.

"N/A" means "not used" with the system, and such fields will not be changed automatically.

The screenshot shows a software window titled "All Rx Gain Control(PGM400-411)". At the top of the window are three buttons: "Refresh", "Update", and "Close". Below the buttons is a table with 12 columns and 11 rows. The columns are labeled: DTIB, SLIB, ACOB, DCOB, VMIB, DTMF, TONE, Music 1, Music 2, Modem, and DTI\_SPK. The rows represent different gain control targets: To DTIB, To SLIB, DTI\_SPK, To ACOB, To DCOB, To VMIB, To DTRU, To EXT PAGE, To CPTU, and To MODU. Each cell in the table contains a numerical value or "N/A".

	DTIB	SLIB	ACOB	DCOB	VMIB	DTMF	TONE	Music 1	Music 2	Modem	DTI_SPK
To DTIB	26	22	10	33	29	8	32	29	29	N/A	26
To SLIB	32	32	32	44	40	28	28	40	40	N/A	32
DTI_SPK	26	22	26	33	29	8	32	29	29	N/A	26
To ACOB	35	32	26	38	37	36	37	37	37	37	37
To DCOB	26	26	15	32	32	32	32	32	32	37	26
To VMIB	21	21	23	32	N/A	N/A	N/A	32	32	N/A	21
To DTRU	N/A	32	32	32	N/A	N/A	N/A	N/A	N/A	N/A	32
To EXT PAGE	26	26	28	37	37	N/A	N/A	37	37	N/A	26
To CPTU	N/A	N/A	32	32	N/A	N/A	N/A	N/A	N/A	N/A	N/A
To MODU	N/A	N/A	20	24	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Other Gain Table

### Operation

1. Click [Other Gain Table].
2. Edit each field in the dialog box. In this window, there are 8 PGM features (PGM 412-418 and 424). So, you can edit these fields at one time.

The screenshot shows a window titled "Other Gain Table(PGM412/413/414/415/416/417/418/424)". The window contains several sections, each with a title and a set of input fields:

- Short SLIB Gain(PGM 412)**: SSLIB / S ACO (32), SSLIB / L ACO (32)
- Long SLIB Gain(PGM 413)**: LSLIB / S ACO (32), LSLIB / L ACO (32)
- Far SLIB Gain(PGM 414)**: F SLIB / S ACO (32), FSLIB / L ACO (32)
- Short ACO Gain(PGM 415)**: SACO / S SLIB (32), SACO / L SLIB (32), SACO / F SLIB (32), SACO / DKT (26)
- Long ACO Gain(PGM 416)**: LACO / S SLIB (32), LACO / L SLIB (32), LACO / F SLIB (32), LACO / DKT (32)
- DTIB Gain Table (PGM 424)**: DKT / S ACO (37), DKT / L ACO (42)
- MBU DSP Rx Gain(PGM417)**: ACO SMS (24), SMS / DCO (38), SLT SMS (17), ACO DTMF CID (38), ACO FSK CID (38)
- MBU FSK Tx Gain(PGM418)**: SMS / ACO (32), SMS / DCO (38), SLT SMS (32), SLT FSK CID (32)

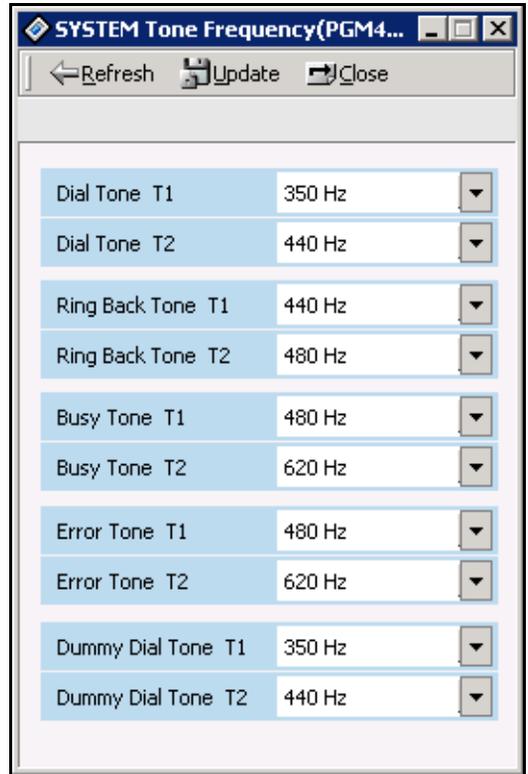
At the top of the window, there are buttons for Refresh, Update, and Close.

## System Tone Frequency (PGM 420)

A user entered frequency, (dial tone, ring back tone, error tone, busy tone, dummy dial tone), may be changed to the closest system frequency available.

### Operation

Click [SYSTEM Tone Frequency], and select the numbers as desired.



System Tone Frequency (PGM 420)

ITEM	RANGE	DEFAULT	REMARK
Dial Tone	0000-9999	T1: -- T2: --	Nation Specific
Ring Back Tone	0000-9999	T1: -- T2: --	Nation Specific
Busy Tone	0000-9999	T1: -- T2: --	Nation Specific
Error Tone	0000-9999	T1: -- T2: --	Nation Specific
Dummy Dial Tone	0000-9999	T1: -- T2: --	Nation Specific

## Differential Ring Frequency (PGM 421)

A user entered frequency may be changed to the closest system frequency available.

### Operation

Click [Differential Ring Frequency], and select the numbers as desired.

**Differential Ring Frequency (PGM 421)**

ITEM	RANGE	DEFAULT	REMARK
Ring 1	0000-9999	T1: -- T2: --	Nation Specific
Ring 2	0000-9999	T1: -- T2: --	Nation Specific
Ring 3	0000-9999	T1: -- T2: --	Nation Specific
Ring 4	0000-9999	T1: -- T2: --	Nation Specific

## Distinct CO Ring Frequency (PGM 422)

A user entered frequency may be changed to the closest system frequency available.

### Operation

Click [Distinct CO Ring Frequency], and select the numbers as desired.

Distinct Ring Frequency (PGM 422)

ITEM	RANGE	DEFAULT	REMARK
Ring 1	0000-9999	T1: -- T2: --	Nation Specific
Ring 2	0000-9999	T1: -- T2: --	Nation Specific
Ring 3	0000-9999	T1: -- T2: --	Nation Specific
Ring 4	0000-9999	T1: -- T2: --	Nation Specific

## ACNR Tone Cadence (PGM 423)

A user entered frequency may be changed to the closest system frequency available.

### Operation

1. Click [ACNR Tone Cadence].
2. Enter a tone cadence and press [Update] button to save the changes.

Item	Value	Range
Ring Back Tone T1 / ON	100	0 - 255(20ms)
Ring Back Tone T2 / OFF	200	0 - 255(20ms)
Busy Tone T1 / ON	25	0 - 255(20ms)
Busy Tone T2 / OFF	25	0 - 255(20ms)
Error Tone T1 / ON	12	0 - 255(20ms)
Error Tone T2 / OFF	12	0 - 255(20ms)
S-Dial Tone T1 / ON	150	0 - 255(20ms)
S-Dial Tone T2 / OFF	0	0 - 255(20ms)

### ACNR Tone Cadence (PGM 423)

ITEM	RANGE	DEFAULT	REMARK
Ring-Back Tone	000-255	ON: 100 / OFF: 200	20ms base
Busy Tone	000-255	ON: 025 / OFF: 025	20ms base
Error Tone	000-255	ON: 012 / OFF: 012	20ms base
S-Dial Tone	000-255	ON: 150 / OFF: 000	20ms base

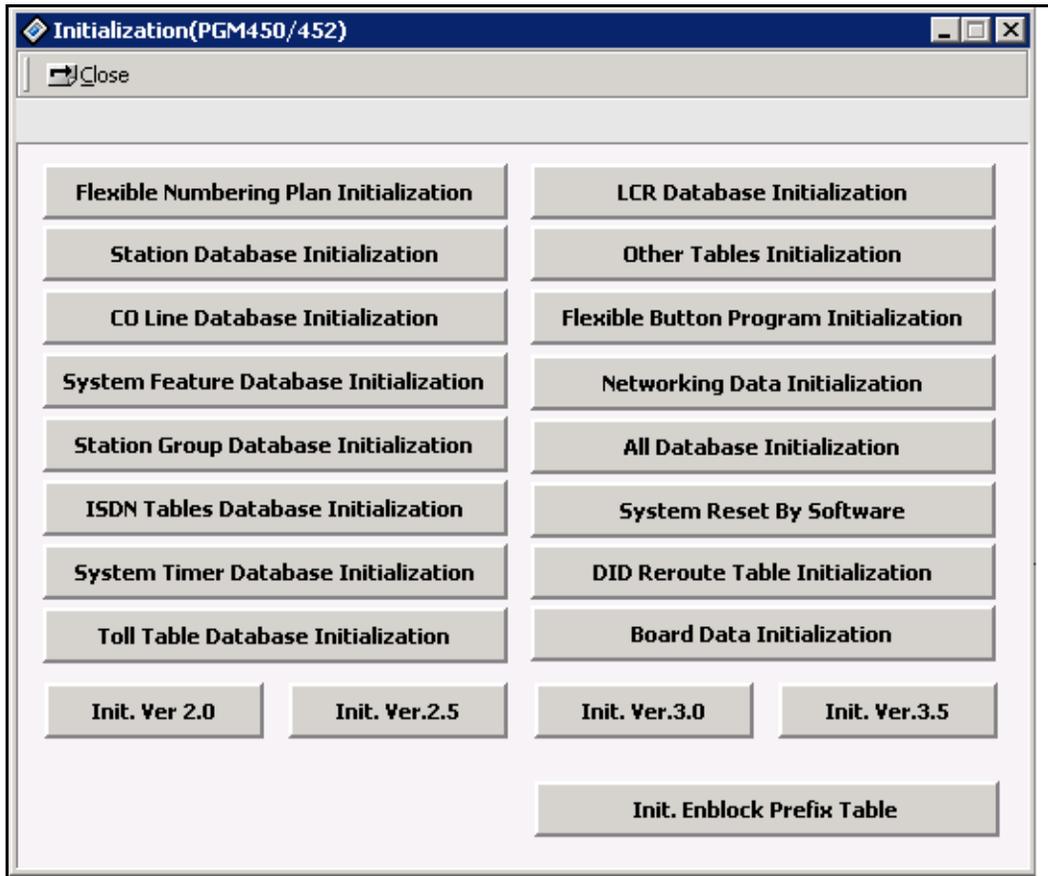
## Initialization (DB Init)

The system has been pre-programmed with default data. These features are loaded into memory when the system is initialized. The system should be always initialized when installed or at any time the database has been corrupted. To initialize the system to the default values, proceed as follows.

### Operation

1. Click [Initialization].
2. Press one of the buttons shown below to initialize.

**Note:** It is recommended that you do not use a USB-Serial converter. It may produce a communication error between the SBX IP and the PC.



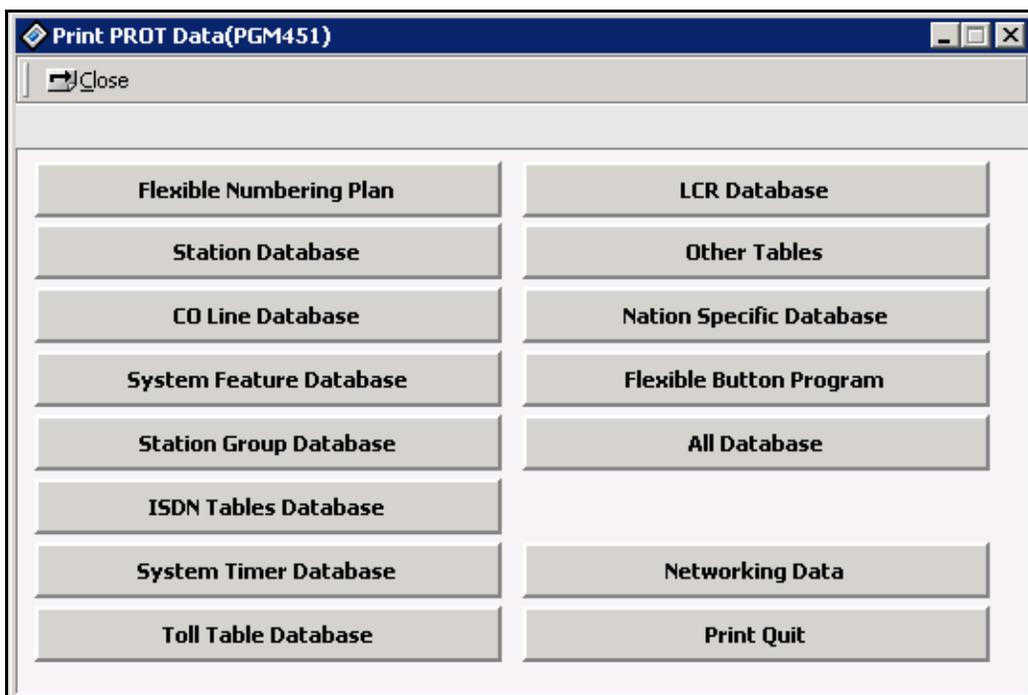
## Print Database

To obtain a hard copy printout of the database, a printer must be connected to the RS-232C connector.

### Print Prot Data (PGM 451)

#### Operation

Click one of the buttons below to get a hard copy.



## Print Prot Data (PGM 451)

ITEM	RANGE	DEFAULT	REMARK
Flexible Numbering Plan Print		--	--
Station Database Print	STA_R	--	--
CO Line Database Print	CO_R	--	--
System Feature Database Print		--	--
Station Group Database Print		--	--
Reserved		--	--
System Timer Database Print		--	--
Toll Table Database Print		--	--
LCR Database Print		--	--
Other Tables Print		--	--
Nation Specific Database Print		--	--
Flexible Button Program Print	STA_R	--	--
All Database Print		--	--
Networking Data		--	--
Print Quit		--	--

# SBX IP Offline PCAdminPro

## General Description

### Introduction to Offline PCAdminPro

SBX IP Offline PCAdminPro is a software Administration Program for the SBX IP system which controls the functions and values of the SBX IP system using "\*.usr" file downloaded by the DB Up/Download Program indirectly. This DB Up/Download Program is included in the Online PC Admin program package.

### Hardware/Software Requirements

Requirements of the SBX IP Offline PCAdminPro system and PC are:

- SBX IP system
- PC
  - Pentium III CPU (550 Mhz minimum)
  - RAM (128 MB minimum)
  - Minimum 3-button Mouse/ VGA Monitor
  - MS Windows 98 minimum
  - HDD (20 MB minimum)

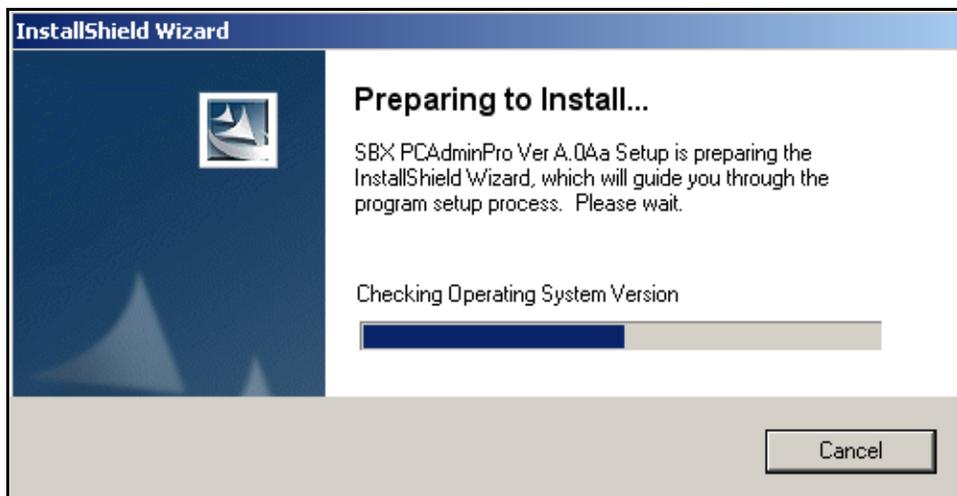
## Version Compatibility

- The Offline PCAdminPro version is not compatible with every MP version. Use the Offline PCAdminPro version compatible with your MP Version.
  - When you open the user file(\*.usr) and the user file is an old version, you will receive a warning message. Also, you cannot update the user file and some admin field values may be incorrect.
- Regardless of having an old Offline PCAdminPro version installed, you can install a new Offline PCAdminPro version.
  - When a new Offline PCAdminPro version is released, the directory of the installation path will be adjusted according to the new version (For example, the path can be "Offline PCAdminPro 2.2V" for a 2.2 version. You can change the path).
  - If you do not want to use the old Offline PCAdminPro version, delete the old version before installing the new Offline PCAdminPro version.

## Installation of the Offline PCAdminPro Software

1. Insert CD-ROM to be installed into the CD-ROM Drive of the PC.
2. Double-click "setup.exe".

The "Preparing to install" progress window will display



If you want to cancel, click the Cancel button.

The "Welcome to the Install Shield Wizard for SBX PCAdminPro" window will appear.



3. Click the "Next" button.

The "Customer Information" window will appear.



**Customer Information**

Please enter your information.

User Name:  
IT Dept.

Organization:  
Vertical Communications

Install this application for:

Anyone who uses this computer (all users)

Only for me (IT Dept.)

InstallShield

< Back    Next >    Cancel

4. Input your name and your organization.
5. Click the "Next" button.

The "Destination Folder" window will appear.



**Destination Folder**

Click Next to install to this folder, or click Change to install to a different folder.

Install SBX PCAdminPro Ver A.0Aa to:  
C:\Program Files\LG Nortel\SBX PCAdminPro\_A.0Aa\

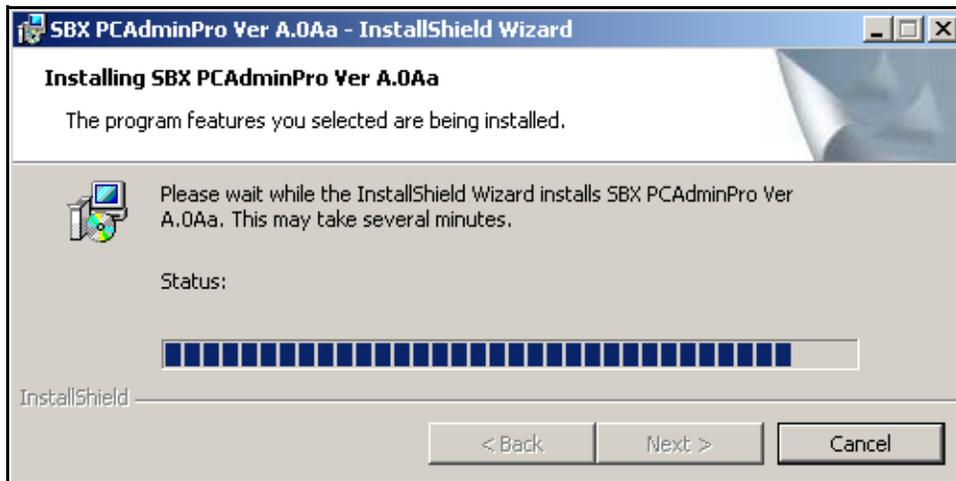
Change...

InstallShield

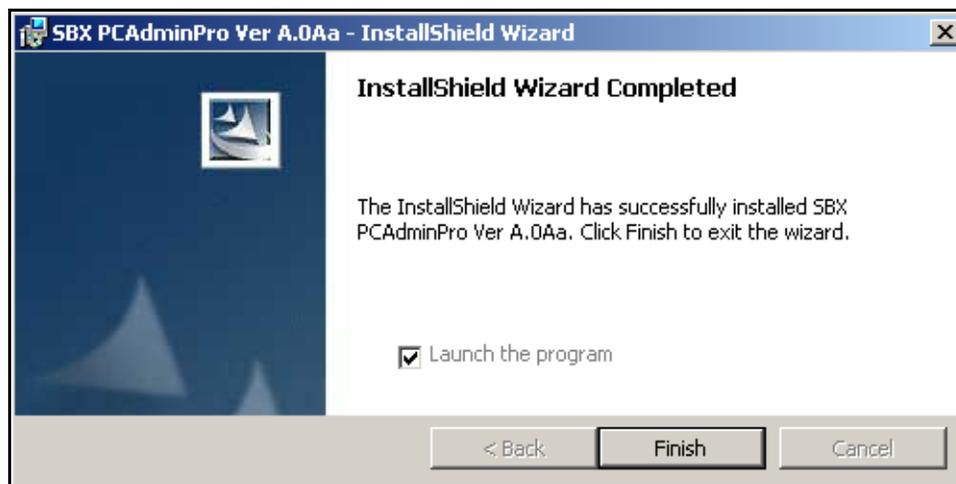
< Back    Next >    Cancel

6. Confirm the Current Path Setting or change the path
7. Click the "Next" Button.

The "Installing SBX PCAdminPro" window appears.



The "InstallShield Wizard Completed" window appears.



8. To end the Installation process click the "Finish" button.

## Remove Software

To remove program:

1. Click Start, point to Settings, click Control Panel, and then click on "Add or Remove Programs".

The item can be seen in the "Change or Remove Programs" tab.

2. Click the "Remove" button to remove the program.

## Run Program

To start the program, click Start, point to Programs, click the "SBX PCAdminPro" Folder, and then click the "SBX PCAdminPro" icon.

## Procedure for using Offline PCAdminPro

1. Install the "SBX PCAdminPro Package" for DB Updown/upload.
2. Download the DB File (\*.usr) from the MP System with "DB Upload-Download" software in the "Online PC Admin Package".
3. Run the "Offline PCAdminPro" software.
4. Load the downloaded DB File.
5. You can view the value of the admin field and change the value if desired.
6. If you wish to save the changed value as the DB file, select the "Save File" Menu.
7. Upload the saved DB File (\*.usr) to the MP System with "DB Upload-Download" software.

## Detail Program Information

### Launcher Window

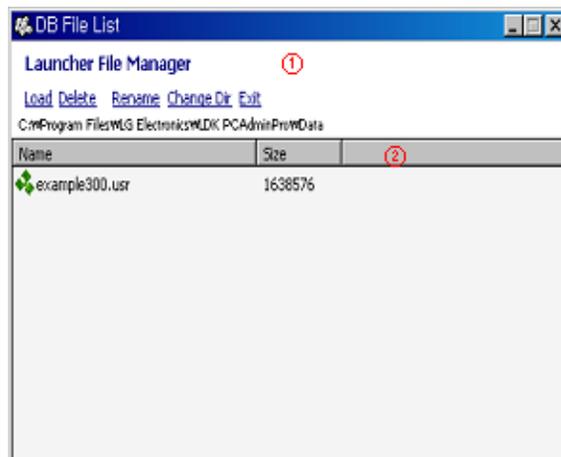


#### \* Available system contents

Select the system that you want to use

#### File Manager

This shows information about the DB file that exists in the [data] directory as in the window below (DB File List)

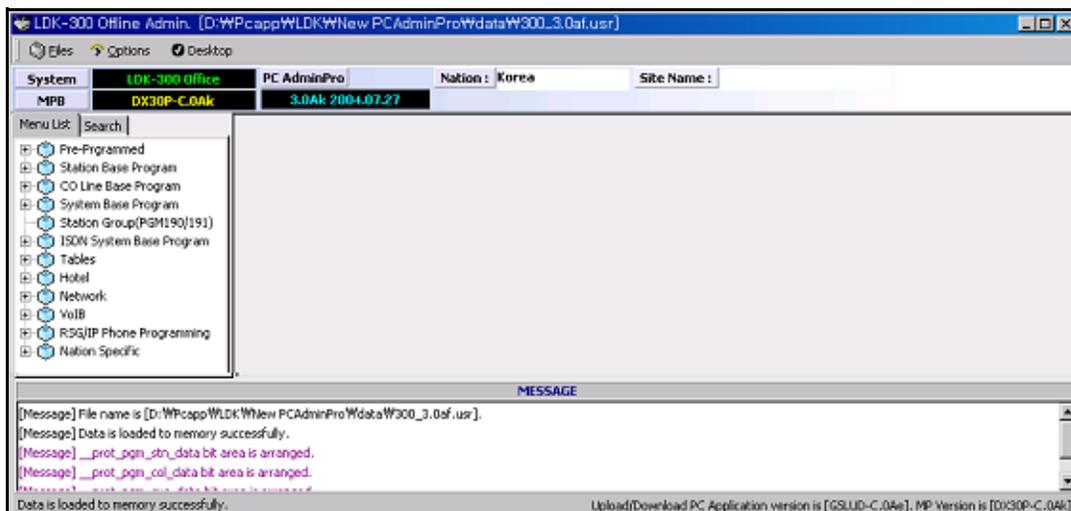


#### ① Menu

- ◆ **Load: DB File open**
- ◆ Delete/Rename
- ◆ Change Dir: Change the Directory for DB file management
- ◆ Exit

② DB File List View: You can **load the file by double-clicking the DB file.**

## Sub-Window



- Work Space
 

When you select the admin menu, the information window of the admin field will be displayed in this area.
- Menu
  - Load File : You can load file.
  - Save File : You can save file.
  - Options : You can change program environment.
  - Desktop : To memory window position and size, and bring back anytime.
  - Exit
- Menu List
 

The Admin Menu is displayed.
- Search
 

PGM No.: You can run admin window by inputting PGM Number directly.  
 Search : You can run admin window by inputting the string of admin menu.
- Information Display Area
 

Operation result message is displayed here.
- Status Bar
 

The Status Panel shows the final displayed result message.

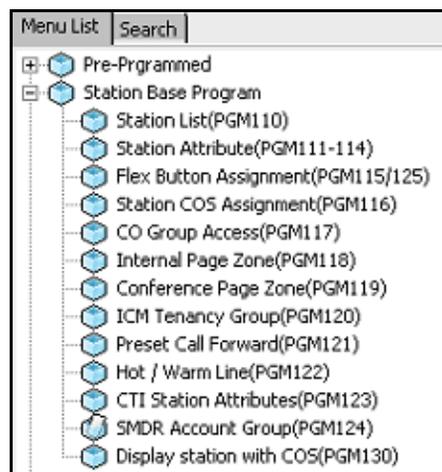
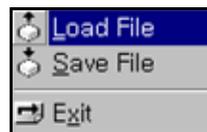
## Basic Operation

1. Open File - Open the database file from the "Load File" window.

An "Open Complete" message is displayed in the information area.

=> [Message] Data is loaded to memory successfully.

2. Open Window - Click the menu bar button you want to view, then select an item.

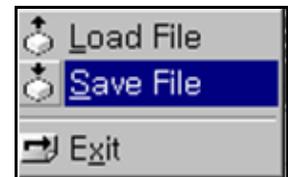


3. View DB - To view information, Click the "Refresh" button. The information is displayed.
4. Update DB - To update the DB, change an attribute value and click the "Update" button. The DB is saved.

**Note:** After clicking the "Refresh" or "Update" button, the resulting message is displayed in the information area.

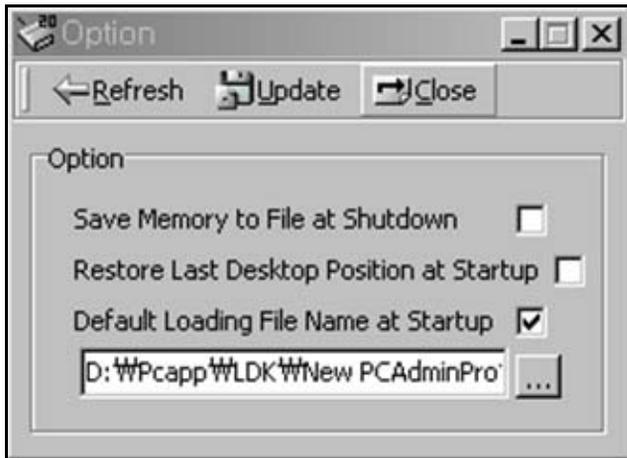
Station Attributes (PGM111/112/113/1)		
Attributes I (PGM111/112)	Attributes II (PGM1113)	Attribute IS
Auto Speaker <input checked="" type="checkbox"/>	ICM Group <input type="text" value="1"/>	
Call Forward <input type="checkbox"/>	Error Tone for TAD <input type="checkbox"/>	
DND <input type="checkbox"/>	SLT Flash Drop <input type="checkbox"/>	
Data Security <input type="checkbox"/>	Loop LCR ACNT <input type="checkbox"/>	
Howling Tone to SLT <input checked="" type="checkbox"/>	CO Warning Tone <input type="checkbox"/>	
ICM Box Signaling <input type="checkbox"/>	Automatic Hold <input type="checkbox"/>	
No Touch Answer <input type="checkbox"/>	CO Call Time Restriction <input type="checkbox"/>	
Page Access <input type="checkbox"/>	Individual CO Line Access <input checked="" type="checkbox"/>	

5. Save File - To save information to file, click "Save File".
6. Exit - Click the "Exit" button.



## Options Window

You can change the program environment.



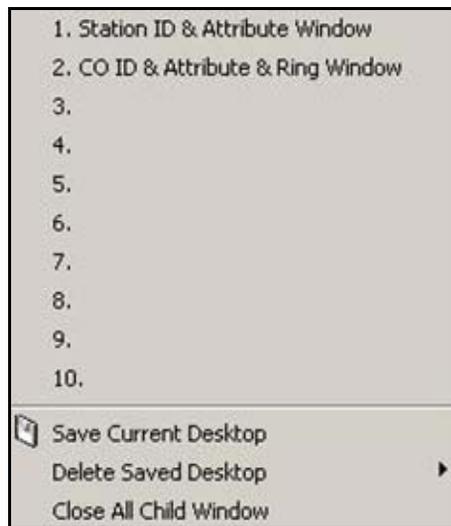
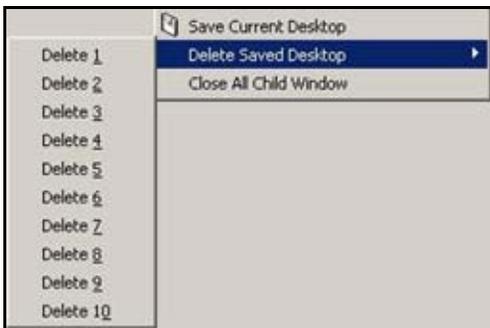
- Save Memory to File at Shutdown  
If this box is checked, the File is automatically saved when the program is closed.
- Restore Last Desktop Position at Startup  
If this box is checked, when the program is started-up, the window is automatically activated to the same figure as before last closed.
- Default Loading File Name at Startup
  - If this box is checked, the Database file is automatically loaded to memory.
  - You must set the default file name in the text box below this option.

## Desktop

This feature allows you to save a window's position and size, and be able to switch between up to 10 saved desktop windows.



This icon is at the top menu of the program. Click this icon to popup the desktop function.



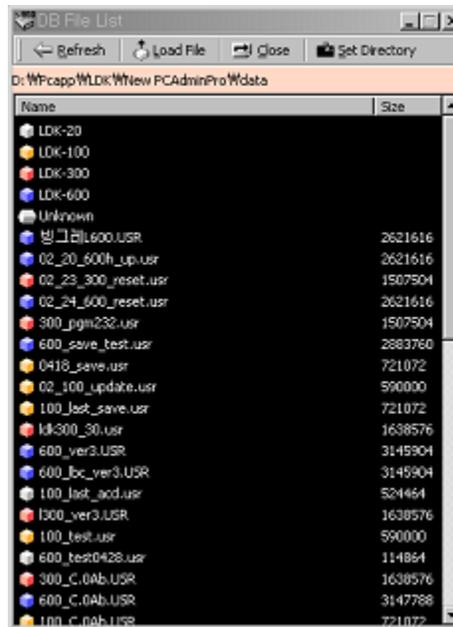
- Restore window
  - Click from No. 1 to No. 10 to restore
  - From 1 to 10, you can save 10 window positions.
- Save Procedure
  - Click the "Save Current Desktop" button
  - Name and then click the OK button
- Delete Procedure
  - Click the "Delete Saved Desktop" button
  - Select the "Delete XX" button to delete
- Close All Child Window
  - To close all sub windows, click this button.

## DB File List (Not Used)

This window shows information about the DB file that is located in the [data] directory. The [data] directory is located in the main folder.

- Usage

Select the DB File and click the "Load File" button or double-click the File icon.



### Information Display Area

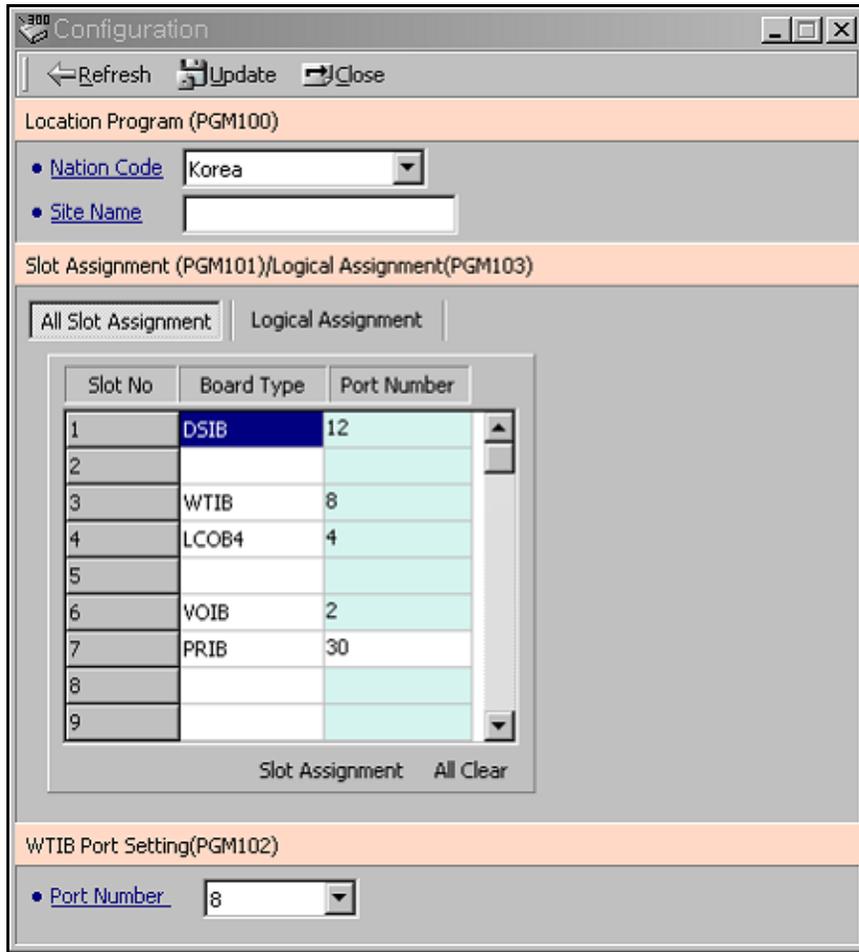
- Operation result message is displayed here.
- This area is at bottom of the program.

## Pre-Programmed

You can change admin values such as Location Information, Slot Assignment, Numbering Plan, etc. Pre-Programmed items are from PGM 100 to PGM 109. Click on "Pre-Programmed" in the Menu List to expand it and then click on a sub-menu item to program the specified function.



### Configuration (PGM 100-103)



### Location Information (PGM 100)

PGM 100 allows you to set up the Nation Code and Customer Site Name. The Name code is the same as the long distance telephone code. The site name is the name of your site. This information will be displayed on the menu title bar.



**Operation**

- After changing the nation, you must save the database file and upload it to the SBX IP system. Also, you have to reset the system without DB protection. At that time Dip S/W 4 must be set to the ON state.
- For another admin modification, you download the changed database file.

**Slot Assignment (PGM 101)**

The SBX IP system supports 10 slots. This program assigns each slot to one type of the boards. After changing the Slot Assignment, you must save the database file and upload it to the SBX IP system and then reset the system.

For another admin modification (Station, CO, etc), you download the changed database file.

**Logical Slot Assignment (PGM103)**

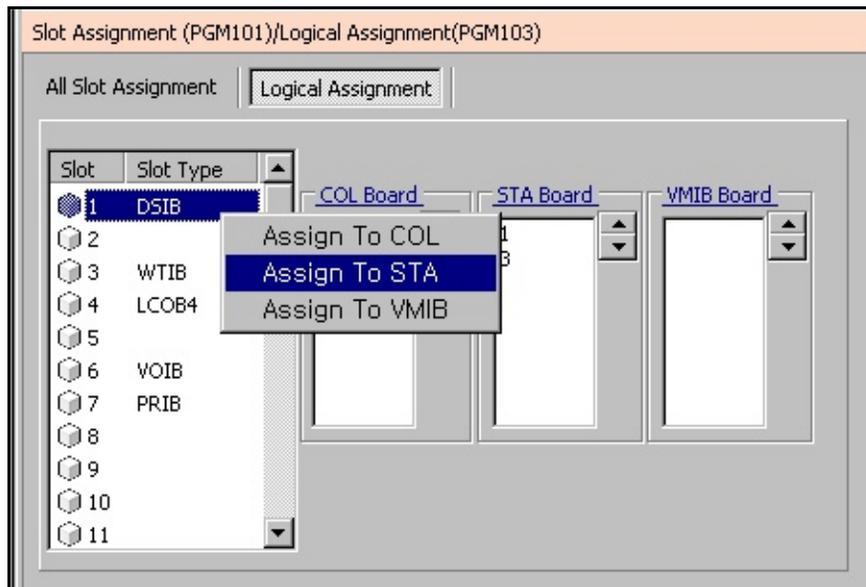
This area of programming sets up COL board, STA board, and VMIB.

**Operation**

If any board is preset automatically by the system, it shows the boards on the dialog box.

1. Add the slot to a location on the right side of the dialog box. If you select the Station board, assign the slot to the station window.
2. To change the order of slots, use [Up] and [Down] button to change the order of the boards.
3. After editing, press the [Update] button to save change values.

- To remove a board, select a slot number below the COL board, STA board, or VMIB board and click the delete button.



## Numbering Plan Type (PGM 104/105/106/107/109)

The default range of station numbers is from 100-147, but 100-131 is the maximum usable at this time. You can change the range according to the nation or your style.

### Operation

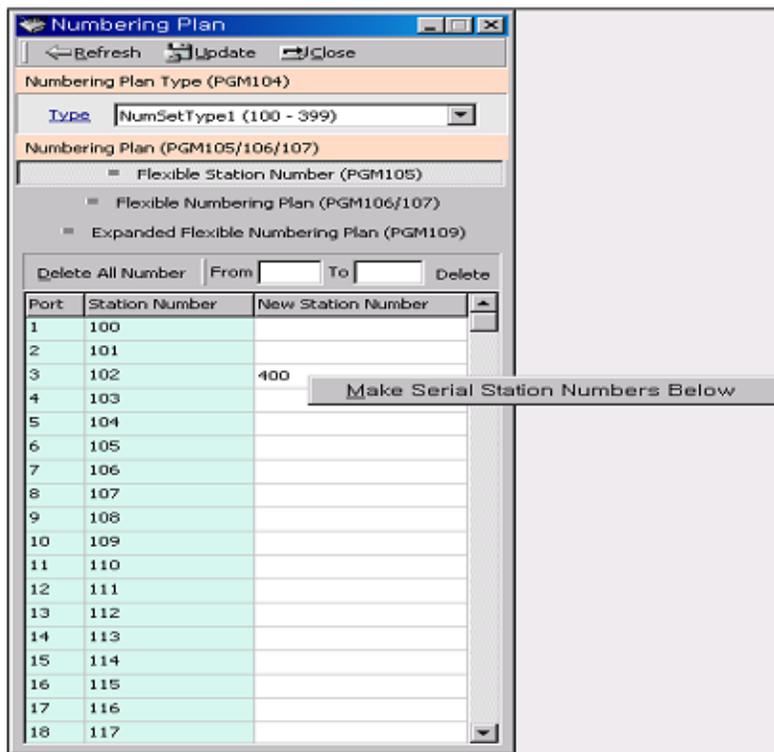
Setting station number sequentially (in PGM 105)

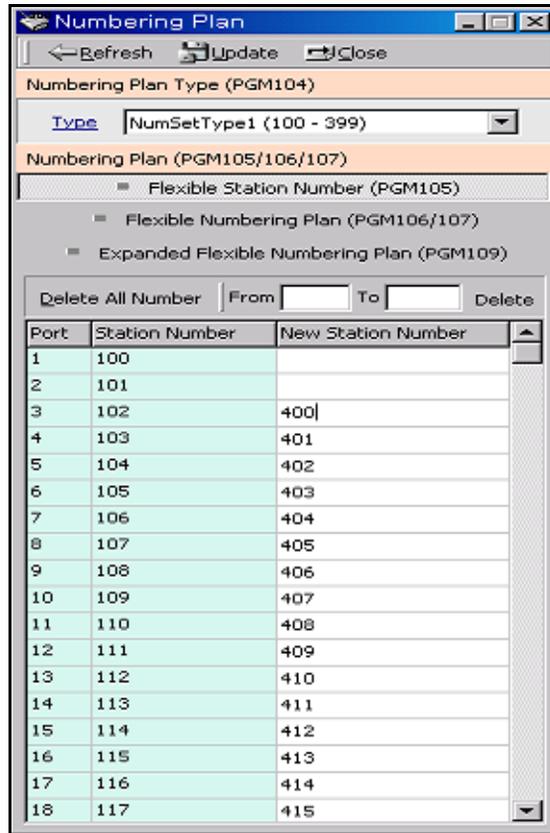
1. You enter the new station number in the New Station Number field.

The screenshot shows a window titled 'Numbering Plan' with a toolbar containing 'Refresh', 'Update', and 'Close' buttons. Below the toolbar, there are sections for 'Numbering Plan Type (PGM104)' with a dropdown menu set to 'NumSetType1 (100 - 399)', and 'Numbering Plan (PGM105/106/107)' with three radio button options: 'Flexible Station Number (PGM105)', 'Flexible Numbering Plan (PGM106/107)', and 'Expanded Flexible Numbering Plan (PGM109)'. Below these options is a 'Delete All Number' button and a range selection area with 'From' and 'To' input fields and a 'Delete' button. The main area is a table with three columns: 'Port', 'Station Number', and 'New Station Number'. The table contains 18 rows, with 'Station Number' values ranging from 100 to 117. The 'New Station Number' column is currently empty for all rows.

Port	Station Number	New Station Number
1	100	
2	101	
3	102	
4	103	
5	104	
6	105	
7	106	
8	107	
9	108	
10	109	
11	110	
12	111	
13	112	
14	113	
15	114	
16	115	
17	116	
18	117	

2. Right-click with the mouse. Then, the menu item "Make Serial Station Numbers Below" appears.
3. You can set the station number automatically by selecting this menu item.





ITEM	INTERCOM RANGE	DEFAULT	REMARK
Number Set Type 1	100-147	Yes	As the basic type, the 1st digit of the station number should be 1-4
Number Set Type 2	100-147	No	The station number can be changed within 799
Number Set Type 3	100-147	No	Australia default
Number Set Type 4	700-747	No	New Zealand default
Number Set Type 5	200-247	No	Italy default
Number Set Type 6	21-68	No	Stations above max ports will display as "****"
Number Set Type 7	100-147	No	Stations above max ports will display as "****"
Number Set Type 8	100-147	No	The station number can be changed within 999

## IP Setting (PGM 108)

You must enter a valid IP Setting to transport data remotely through the network.

### Operation

IP Name has no meaning at all. It can contain up to 15 characters. You can put the hostname if you want. In that case, it is not a real hostname (optional).

The Server IP Address is the IP address of the SBX IP system. The IP address is assigned by the network administrator. If you don't want to use the network connection, you can skip this feature. If you want to use the network connection, you must configure this feature.

Client CLI IP Address (optional)

The Gateway Address is the IP Address of the gateway that the system uses. If you don't enter the gateway's IP Address, you can't access the SBX IP system from another LAN segment that is separated by a router or a 3-layer switch.

Subnet Mask is set to 255.255.255.0 by default.



IP Setting (PGM108)	
IP Name	123456789012345
Server IP Address	192.168.57.220
CLI IP Address	0.0.0.0
GateWay IP Address	192.168.57.254
SUBNET Mask	255.255.255.0
PPP Usage	<input type="checkbox"/>

## Board Attributes (PGM 155)

You can program the board attributes of equipped boards.

## Station Base Program

Use Station Base Program to change any station related function. Station Base Program items are from PGM 110 to PGM 130 & 250. When you use station base program items, you must enter the station range.

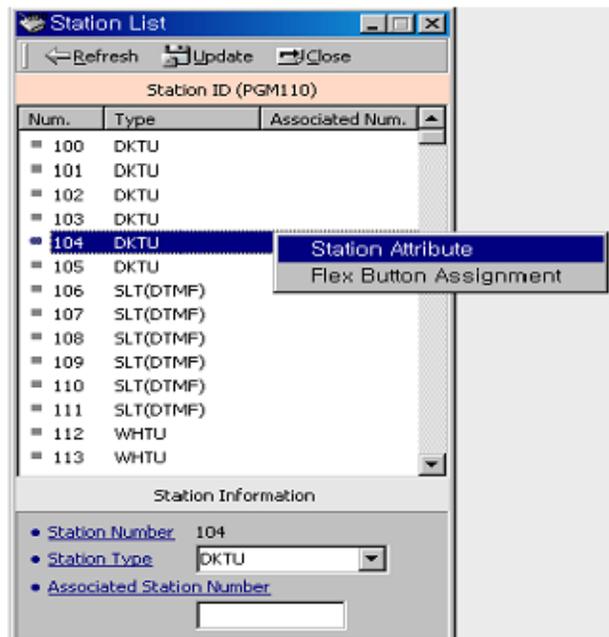
### Station ID Assignment (PGM 110/111/112/113/114)

This menu is related with assigning the phone type for each station. You can start the station main window for many programming. First, select the station list. With this window, you can select other sub-menus such as station attribute or Flexible button assignment.

#### Operation1

1. Click [Station List].
2. Right-click for other programming.
3. Select the menu that you want to change. Then you will see each different window for menu that you selected.

For example, the following window displays station attributes.



Station Attribute
\_ □ ×

← Refresh 📄 Update 🗑 Close

Current Station Number

**Station Attributes (PGM111/112/113/114)**

Attributes I (PGM111)		Attributes II (PGM112)		Attributes III (PGM113)		Attribute ISDN (PGM114)	
Auto Speaker	<input checked="" type="checkbox"/>	ICM Group	<input style="width: 30px;" type="text" value="1"/>	SIP U-ID TBL	<input style="width: 30px;" type="text" value="0"/>	0 - 32	
Call Forward	<input checked="" type="checkbox"/>	Error Tone for TAD	<input type="checkbox"/>				
DND	<input checked="" type="checkbox"/>	SLT Flash Drop	<input type="checkbox"/>				
Data Security	<input type="checkbox"/>	Loop LCR ACNT	<input type="checkbox"/>				
Howling Tone to SLT	<input checked="" type="checkbox"/>	VMIB Slot	<input style="width: 30px;" type="text" value="0"/>				
ICM Box Signaling	<input type="checkbox"/>	VMIB MSG Type	<input style="width: 30px;" type="text" value="LIFO"/>				
No Touch Answer	<input checked="" type="checkbox"/>	OFFNET Forward	<input checked="" type="checkbox"/>				
Page Access	<input type="checkbox"/>	Forced HF	<input type="checkbox"/>				
Ring Type	<input style="width: 30px;" type="text" value="0"/>	CIDSLT CAS GAIN	<input style="width: 30px;" type="text" value="5"/>	0 - 20			
Speaker Ring	<input style="width: 30px;" type="text" value="Speaker"/>	CIDSLT FSK GAIN	<input style="width: 30px;" type="text" value="5"/>	0 - 20			
Speakerphone	<input checked="" type="checkbox"/>	Caller V-OVER	<input type="checkbox"/>				

**Station Attributes Assignment**

📄 Update All 🗑 Clear

➡ 104 ➡ 105 ➡ 106 ➡ 107

## Operation2 - Several Station Attributes update

1. Change the admin field you want in [Figure 4-2]
2. Drag and drop several stations in the Station List (PGM110) to Station Attributes Assignment area
3. Press the "Update All" button for updating. If you again want another station, press the "Clear" button.

The image displays two windows from the PCAdminPro software. The left window, titled "Station List", shows a table of stations with columns for "Num.", "Type", and "Associated Num.". Stations 106 through 109 are selected. Below the table is a "Station Information" section with fields for "Station Number" (106), "Station Type" (SLT(DTMF)), and "Associated Station Number". The right window, titled "Station Attribute", shows the configuration for "Current Station Number" 103. It is divided into sections for "Station Attributes (PGM111/112/113/114)", "Attributes I (PGM111)", "Attributes II (PGM112)", "Attributes III (PGM113)", and "Attribute ISDN (PGM114)". The "Attributes I" section includes options like "Auto Speaker", "Call Forward", "DND", "Data Security", "Howling Tone to SLT", "ICM Box Signaling", "No Touch Answer", "Page Access", "Ring Type", "Speaker Ring", and "Speakerphone". The "Attributes II" section includes "ICM Group", "Error Tone for TAD", "SLT Flash Drop", "Loop LCR ACNT", "VMIB Slot", and "VMIB MSG Type". The "Attributes III" section includes "OFFNET Forward" and "Forced HF". The "Attribute ISDN" section includes "SIP U-ID TBL". At the bottom, the "Station Attributes Assignment" section shows a list of stations 104, 105, 106, and 107. A blue arrow points from the selected station 109 in the Station List to the "Update All" button in the Station Attribute window.

## Station Attributes I (PGM111)

ITEM	RANGE	DEFAULT	REMARK
Auto Speaker Selection	ON/OFF	ON	Allows accessing a CO line or placing a DSS call by pressing an appropriate {CO} or {DSS} button without lifting the handset or pressing the [SPEAKER] button
Call Forward	ON/OFF	ON	Enables Call Forward to be activated by the station
DND	ON/OFF	ON	Enables DND to be activated by the station
Data Line Security	ON/OFF	OFF	ON protects from override and camp-on, when in a busy state
Howling Tone to SLT	ON/OFF	ON	The allowance to give howling tone to an SLT
ICM Box Signaling	ON/OFF	OFF	Allows receiving ICM box / Doorbox signal
No Touch Answer	ON/OFF	ON	The allowance to connect the transferred CO line automatically when station mode is set to H/P
Page Access	ON/OFF	OFF	Allows access to paging by the station
Ring Type	0-4	0	The station can give its own ring type signal to another station in the system through this field calling party centric
Speaker Ring	1-3	1	Station rings through (1) Speaker, (2) Headset, or (3) Both speaker & headset
Speakerphone	ON/OFF	ON	ON allows operation with Speakerphone
VMIB Slot	0-2	0	Assign VMIB logical slot the station uses
ICM Group	1-5	1	Assign the ICM Tenancy Group to which the stations belong
Error Tone for Tad	ON/OFF	OFF	In Answering machine instead of SLT, send Busy Tone
SLT Flash Drop	ON/OFF	OFF	In SLT, pressing [FLASH] key or hook flashing will drop the CO Call
Loop LCR Account Code	ON/OFF	OFF	Check Account Code at Loop LCR <b>(Except AUS_TELSTRA)</b>
VMIB Message Type	FIFO/ LIFO	LIFO	Priority to play VMIB message
Off-net Call Forward	EN/DIS	EN	The possibility to enable/disable Off-net call forward
Force HF	ON/OFF	OFF	Forced Handsfree configuration (from V3)

## Station Attributes I (PGM111)

ITEM	RANGE	DEFAULT	REMARK
Reserved	--	--	--
Reserved	--	--	--
Caller Voice Over	ON/OFF	OFF	Caller Voice Over option (ON/OFF)
SIP User Bin	00-32	00	UID table index for SIP outgoing call VOIB make "From" header if this value is: 00: Use COLP 01-32: Use SIP UID (PGM351-1)
Redial DTMF	ON/OFF	ON	

## Station Attributes II (PGM112)

ITEM	RANGE	DEFAULT	REMARK
CO Warning Tone	ON/OFF	ON	The allowance to receive warning tone to remind of the call elapse time in case of outgoing CO conversation
Automatic Hold	ON/OFF	ON	While on a CO line, the station user seizes another CO line by depressing the {CO} button. The first CO line goes on Hold automatically (STA2:ON).
CO Call Time Restriction	ON/OFF	OFF	If this flag is set to YES, a station's outgoing CO call may be disconnected when the CO call restriction timer (PGM180-Btn 17) expires
CO Line Access	ENABLE/ DISABLE	ENABLE	The allowance to access individual CO line by dialing
CO Line Queuing	ENABLE/ DISABLE	ENABLE	The allowance of queuing for a busy CO/group of lines
CO PGM	ENABLE/ DISABLE	DISABLE	Determines if a station user can program CO button
PLA	ENABLE/ DISABLE	ENABLE	The allowance to answer calls by simply lifting handset or pressing the [SPEAKER] button with the answering priority
Prepaid Call	ON/OFF	OFF	The allowance to use the Prepaid CO Call feature (refer to PGM180-Btn16)

## Station Attributes II (PGM112)

ITEM	RANGE	DEFAULT	REMARK
Speed Dial Access	ENABLE/ DISABLE	ENABLE	Allows access to system speed dial by the station
Two Way Record	ON/OFF	OFF	During incoming or outgoing call, user can record the conversation of both parties.
Fax Mode	ON/OFF	OFF	In Fax mode, Single ring and No Attendant Recall
Off-net Call Mode	EXT/ALL	ALL	ALL: Internal Off-net Call Fwd and External Off-net Call Fwd are allowed. EXT: only External Off-net Call Fwd is allowed
UCD Grp Service	ON/OFF	OFF	When DID/DISA call destination is STA: ON: ring to UCD Grp to which the station belongs OFF: ring to the station
Ring Grp Service	ON/OFF	OFF	When DID/DISA call destination is STA, ON: ring to Ring Grp to which the station belongs OFF: ring to the station
Stop Camp On Tone	ENABLE/ DISABLE	DISABLE	ENABLE prevents the Camp on Tone from sounding
Line Length	SHORT/ LONG/ FAR	SHORT	Line Length
MSG SCRL SPD	0-7	3	Scroll speed when a broadcasting message is displayed
Block Back Call	ON/OFF	OFF	To prevent unattended recalling, the 1st CO line will be disconnected if an SLT seizes a 2nd CO line with FLASH
I-Time RST	ON/OFF	OFF	Internal RST
Stn Auth Chk	ON/OFF	OFF	Station authentication check
Reserved	ON/OFF	OFF	--
Door Open	EN/DIS	EN	Door open enable
Dummy Stn	ON/OFF	OFF	Dummy Station Usage
Emergency Supervisor	ON/OFF	OFF	

## Station Attributes III (PGM113)

ITEM	RANGE	DEFAULT	REMARK
ADMIN	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to program the Admin Database. This feature is available at only DKTUs (STA 100 is Enabled by default).
VMIB Access	ENABLE/ DISABLE	ENABLE	ENABLE allows access to the Digital Voice Unit
Group Listening	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to use group listening (While you are talking on handset, by pressing the [SPEAKER] button, other persons around you may hear the conversation through the speaker of the key telephone).
Override Privilege	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to override a CO line to gain access to the conversation
SMDR Hidden Dialed Digits	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to hide CO dialing numbers from SMDR printing
Voice Over	ENABLE/ DISABLE	DISABLE	ENABLE allows the station to use Voice Over feature
Warm Line	HOT/ WARM	WARM	This field is determined that Warm Line (OFF) or Hot Line (ON) in PGM 122.
VMIB MSG Password	ON/OFF	OFF	ON allows the station to use VMIB MSG Password attributes
VMIB MSG Date/Time	ON/OFF	ON	The allowance to use VMIB MSG
ALARM Attribute	ON/OFF	OFF	Basic Alarm
Mute Ring Service	ON/OFF	ON	Mute Ring Service configuration
Call Cut Off Timer	00-99	00	If the timer expires, the call is released and the user receives a disconnect tone
Barge In Mode	0-2	0	0: OFF 1: Monitor Mode: The intruding extension can listen to the existing conversation but cannot participate. 2: Speech Mode: The intruding extension can listen to and join to the existing conversation.

## Station Attributes III (PGM113)

ITEM	RANGE	DEFAULT	REMARK
Auto Forward to VMIB	ON/OFF	ON	
Station Port Block	ON/OFF	OFF	If this value is set to ON, the station is blocked and it is impossible to use that station

## ISDN Station Attributes (PGM114)

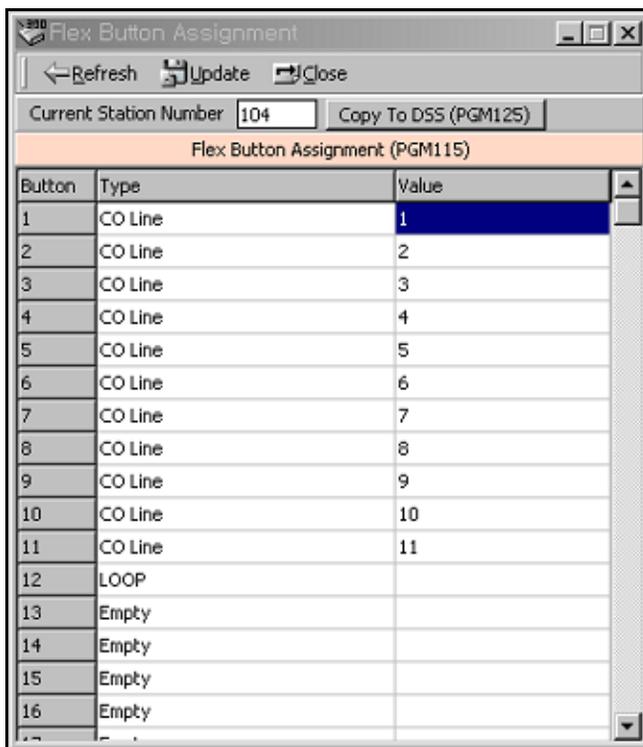
ITEM	RANGE	DEFAULT	REMARK
CLIP LCD Display	ON/OFF	ON	This field is determined whether a station displays CLIP
COLP LCD Display	ON/OFF	OFF	This field is determined whether a station displays COLP
CLI / Redirect Display	0-1	0	To Select Original CLI or Redirected CLI. 0: Original CLI, 1: Redirected CLI
CLI MSG Wait	ON/OFF	OFF	An ON setting allows a station to receive CO message wait indications
Ext or CO ATD	ATD/EXT	EXT	To Select EXT (extension number) or CO ATD to make outgoing CLI or COLP information
Keypad Facility	KEYPAD/DTMF	DTMF	This field determines whether an ISDN station sends digit in DTMF or keypad facility after connected
LONG/SHORT	LONG/SHORT	SHORT	This field determines whether an ISDN station acts in Short passive mode or in the Long mode.
CPN Type	0-2	0	This field indicates how the CPN IE is filled in SETUP message. 0: Do not sent CPN (Called Party Number) to S0. In this case, all S0 STA of the S port will be ringing. 1: Send station number as CPN 2: Bypass the CPN from the network. (In options 1 & 2, only one specific STA will be ringing)

## ISDN Station Attributes (PGM114)

ITEM	RANGE	DEFAULT	REMARK
Sub Address	0-2	0	This field indicates how the sub-address is used in the SETUP message. 0: Station sub-address not used. 1: Sub-address is filled in the CPN field of SETUP message. 2: Sub-address is filled in the CPSN (Called Party Sub-address Number) field of SETUP.
DISA Restriction	ON/OFF	OFF	If this value is set to ON, the station is restricted to receive the DISA incoming call.
CLI Name Display	ON/OFF	OFF	If this field is ON, the system checks whether the received CLI matches speed dial data. If they match, the speed dial name displays.
ISDN CLI STA	Max 4 digits	Logical STA No.	If outgoing CLI is active and CLI type is EXT, this field used when make outgoing CLI.
Progress Indication	ON/OFF	OFF	If this field is set to ON and an SLT seizes an ISDN line, the progress indication IE that indicates the originator is non-ISDN device is made in the SETUP message.
ISDN CLIR	ON/OFF	OFF	If this field is set to ON, does not send CLI Information and restrict PX send it
ISDN COLR	ON/OFF	OFF	If this field is set to ON, does not send CLI Information and restrict PX send it
DID Restriction	ON/OFF	OFF	Restrict the DID Call
DID Call Wait	ON/OFF	OFF	New DID Call waiting indicator
CLI Type	0-1	0	1: Long: Use station CLI with PGM114-BTN19. (max 12) 0: Short: Use station CLI with PGM114-BTN12 (max 4)
Long Station CLI	Max 12 Digits	Logical STA No.	If outgoing CLI is active and CLI type is EXT, this field used when making outgoing CLI
MSN Wait	ON/OFF	OFF	New virtual MSN call waiting enable
Long CLI 1	Max 16 Digits	Long CLI 1	
Long CLI 2	Max 16 Digits	Long CLI 2	
CC Blocking	ON/OFF	ON	

## Flex Buttons Assignment (PGM 115)

This feature is to enable programming flexible buttons and the copy feature (PGM 125).



### Information for Flex Button Assignment

NO.	TYPE	RANGE	REMARK
1	User Button	--	User can program by button programming procedure.
2	{CO xx} Button	01-12	CO Line
3	{CO Grp xx}	01-24	CO Group
4	{LOOP}	Loop Button	--
5	{STA xxxx}	100-131	Station Number
6	STA PGM Button	11-99	--
7	{STA SPD xx}	00-99	Station Speed Bin

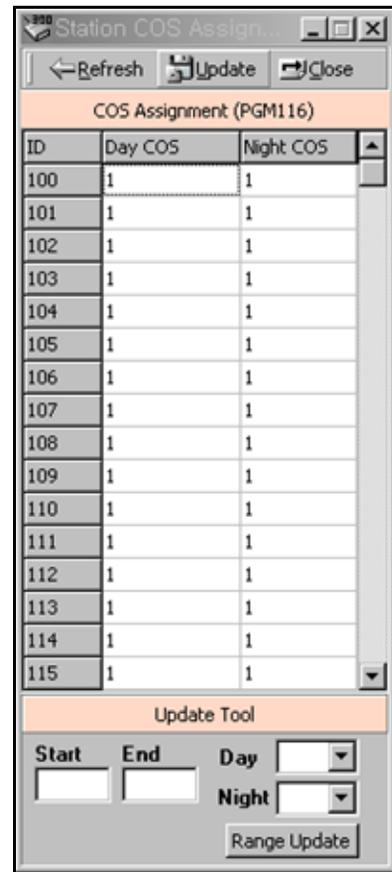
**Information for Flex Button Assignment**

NO.	TYPE	RANGE	REMARK
8	{SYS SPD xxxx}	2000-2499	System Speed Bin
9	Num Plan Button	Num Plan Code	--
10	Net DSS Button	Net DSS number checked by MPB	When using the Networking feature
11	Reserved	--	--

**Station COS (PGM 116)**

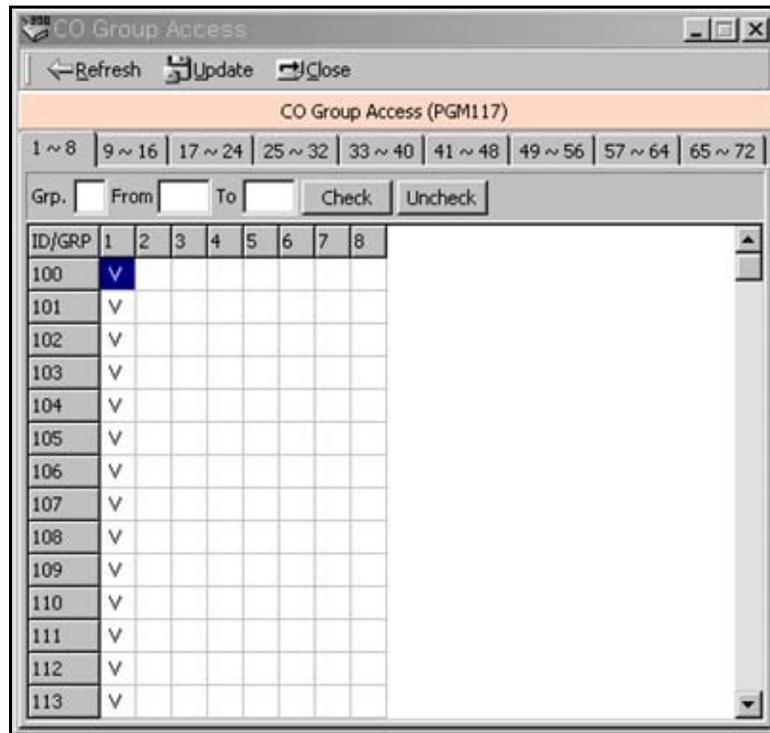
You can change COS (Class of Service) for each station. There are seven Classes of Service. All station COS for day and night operation is COS1 by default.

For a particular call, the CO COS is combined with station COS to determine the appropriate restriction. Each station must be assigned a class of service which governs the station's toll restriction for the day and night operation. The weekend COS is same as the night COS.



## CO Group Access Station (PGM 117)

You can divide the CO lines by group, and give a station an access to a specified CO line group. All stations can access any CO line as default.



## Internal Page Zone Access (PGM 118)

Each station can be assigned to an internal paging zone. You can assign a station to a number of zones or to no zone at all. If a station is not in any internal zone, it will not receive any page announcements. The SBX IP supports 5 internal page zones.

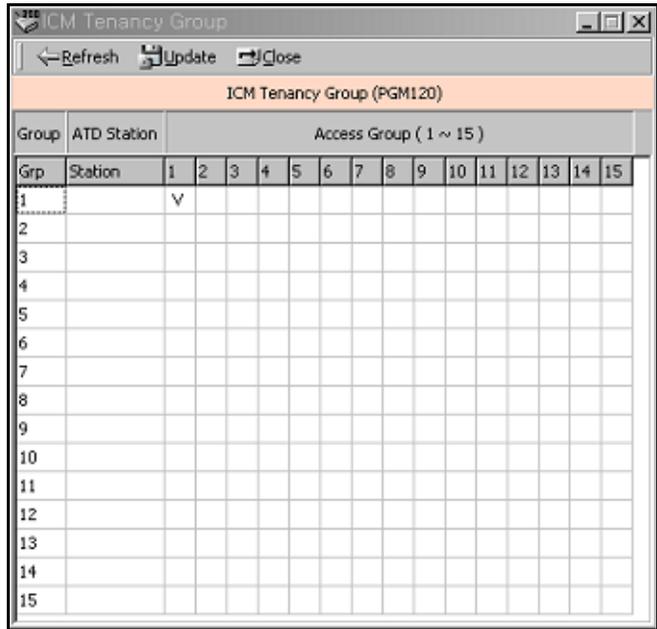
## Conference Page Zone (PGM 119)

Each station can be assigned to a conference paging zone. You can assign a station in a number of zones or no zone at all. The SBX IP system supports 5 conference paging zones.

## ICM Tenancy Group (PGM 120)

You may assign a station to an ICM Tenancy Group, and restrict ICM Tenancy Groups from calling each other. Each ICM Tenancy Group can be assigned to a different attendant. The SBX IP system supports 5 ICM Tenancy Groups.

1. Enter an attendant station number for the ICM Tenancy Group you have just selected.
2. Click each ICM group check box that you want to access.
3. After all changes press the [Update] button to save changes.

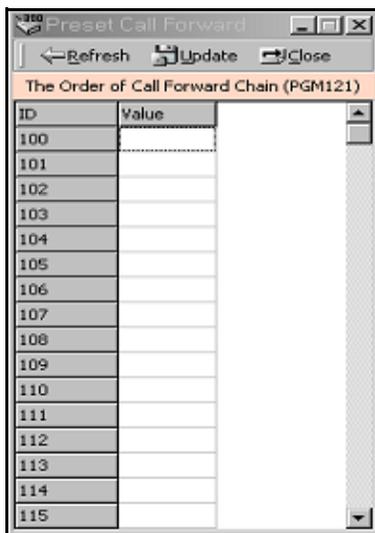


## Preset Call Forward (PGM 121)

If a station does not respond to an outside call for a certain period of time, the call may be forwarded to another station.

### Operation

- Programmed preset call forward pair will be displayed.
- If there is no pair data, the window will not display anything.



## Hot/Warm Line Selection (PGM 122)

This feature lets a station perform a pre-assigned feature as soon as lifting handset or pressing the [ON/OFF] button as if a station selects the feature (Hot Line). On the other hand, Idle Line Selection for a station which is assigned to a warm line, is activated when no action takes place for the length of time established for the Warm Line Timer after lifting handset or pressing the [ON/OFF] button (Warm Line). Warm line is programmable at PGM 113.

All stations are not assigned any Idle Line Selection by default.

### Operation

- You will see the list of Hot/Warm line programming. If there is no data, the table will display nothing.

ID	Destination	Value
100	No Selection	
101	No Selection	
102	No Selection	
103	No Selection	
104	No Selection	
105	No Selection	
106	No Selection	
107	No Selection	
108	No Selection	
109	No Selection	
110	No Selection	
111	No Selection	

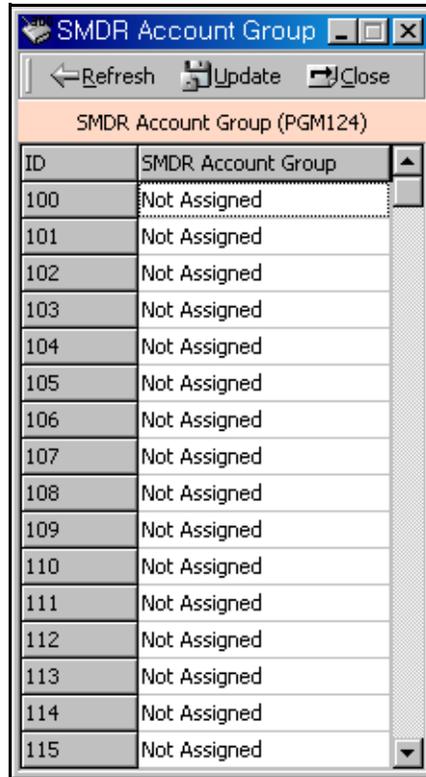
Information for Hot/Warm Line Selection

ITEM	RANGE	REMARK
Flex Btn	01-48	To activate a feature on a flex button as if pressed
CO Line	01-12	To seize a CO Line
CO Group	01-24	To seize a CO Line Group
Station	100-131	To call another station

## SMDR Account Group (PGM 124)

Stations can be assigned as a member of a call account group on SMDR. A station belongs to only one call account group. The system supports 99 SMDR Account Groups.

All stations are not assigned as a member of any Call Account Group by default



The screenshot shows a window titled "SMDR Account Group" with a toolbar containing "Refresh", "Update", and "Close" buttons. Below the toolbar is a header "SMDR Account Group (PGM124)" and a table with two columns: "ID" and "SMDR Account Group". The table contains 16 rows, with IDs 100 through 115, all of which are listed as "Not Assigned".

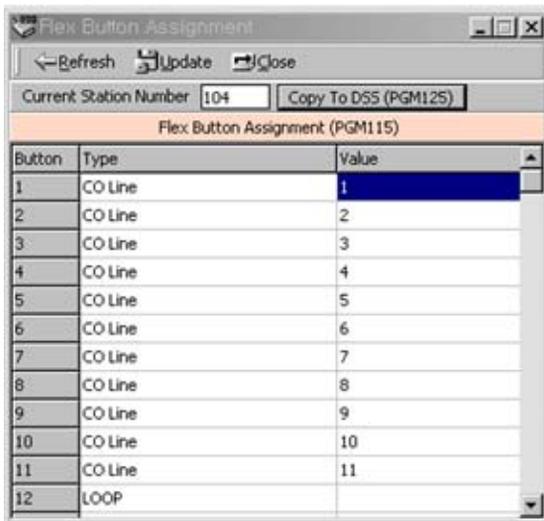
ID	SMDR Account Group
100	Not Assigned
101	Not Assigned
102	Not Assigned
103	Not Assigned
104	Not Assigned
105	Not Assigned
106	Not Assigned
107	Not Assigned
108	Not Assigned
109	Not Assigned
110	Not Assigned
111	Not Assigned
112	Not Assigned
113	Not Assigned
114	Not Assigned
115	Not Assigned

## Copy DSS Button (PGM 125)

The assigned DSS button of a DKTU can be copied to another station or ICM group. This does not apply to DSS BOX / Doorbox

### Operation

1. Click the [Copy DSS Button].
2. Enter the station number and select the type of destination. You can select two types of destinations. One is station and the other is ICM Group.
3. Press the [Update] button to save the data.



The screenshot shows the 'Flex Button Assignment' window with a table of button assignments. The table has three columns: Button, Type, and Value. The 'From Station' is set to 104 and the 'Copy To DSS (PGM125)' button is visible.

Button	Type	Value
1	CO Line	1
2	CO Line	2
3	CO Line	3
4	CO Line	4
5	CO Line	5
6	CO Line	6
7	CO Line	7
8	CO Line	8
9	CO Line	9
10	CO Line	10
11	CO Line	11
12	LOOP	



The screenshot shows the 'Copy DSS Button' dialog box. It has a 'From Station' field with the value 104, a 'Destination Number' field, and two radio buttons: 'To Station' (selected) and 'To ICM Group'.

## Station IP List for CTI (PGM126)

The SBX IP does not support CTIU for a CTI link. Instead of CTIU, you can make a CTI connection with a LAN connection. To use this feature, you must enter the IP address of the PC's that you want to use with CTI. For example, if you use station 100 and your IP address is 10.0.0.5, then you should enter this table with station 100 and IP address of 10.0.0.5.

You can enter this mapped table up to the max station numbers of the SBX IP. The limitation is dependent on the lock key that is installed on SBX IP system.

## Station Mailbox Attributes (PGM 127)

You can provide a mailbox with administrative options to perform common tasks associated with the VM. This mailbox may also be used to record a broadcast message that is delivered to all mailboxes in the system.

- There are no limits on the number of mailboxes that can be marked as administrators.
- Only 1 mailbox can be active in the administration area at a time.

### Operation

Once the System Administrator assigns Admin Rights, the user can perform additional mailbox functions (1-6) for all active mailboxes in the system:

Add/delete a mailbox, reset a password, record a greeting/broadcast message/MB name.

Station Mailbox Attributes (PGM127)		
ITEM	RANGE	DEFAULT
Admin	Disable/Enable	Disable
COS 1-5	1-5	1
Announce Only	Disable/Enable	Disable
Announce Action	Hang-up/Previous	Previous
Outbound Notification	Disable/Enable	Disable
Outbound Notification CO Group	1-24	1
Outbound Notification Tel. Number	24 digits	none
Outbound Notification Retry	1-9	2
Outbound Notification Interval	1-60 minutes	3
Cascade Destination	Station/Virtual MB	none
Cascade Type	NO cascading/Immediately/ When noti fails/Urgent	NO cascading
E-mail Notification	Off/On	Off
Voicemail Password	max 11 digits	none
SMTP Server IP	Ex: xxx.xxx.xxx.xxx.	none
E-mail Address	max 50 characters	none
SMTP User ID	max 24 characters	none
SMTP Password	max 24 characters	none

## Virtual Mailbox Attributes (PGM 129)

You can set up virtual mailboxes which are simply voice mailboxes that do not have a digital, IP, or SLT extension associated with it.

By default, extensions 200-249 are the default virtual mailboxes.

Virtual Mailbox Attributes (PGM129)		
ITEM	RANGE	DEFAULT
Admin	Disable/Enable	Disable
VMIB Access	Disable/Enable	Disable
COS 1-5	1-5	1
Announce only	Disable/Enable	Disable
Announce action	Hang-up/Previous	Previous
VMIB MSG password	Off/On	Off
VMIB MSG time	Off/On	Off
VMIB MSG type	LIFO/FIFO	LIFO
Outbound Notification	Disable/Enable	Disable
Outbound Notification CO Group	1-24	1
Outbound Notification Tel. number	24 digits	none
Outbound Notification retry	1-9	2
Outbound Notification interval	1-60 minutes	3
Cascade destination	Station/Virtual MB	none
Cascade type	NO cascading/Immediately/ When noti fails/Urgent	NO cascading
E-mail Notification	Off/On	Off
Voicemail password	max 11 digits	none
SMTP Server IP	Ex: xxx.xxx.xxx.xxx.	none
E-mail address	max 50 characters	none
SMTP user ID	max 24 characters	none
SMTP password	max 24 characters	none
First Name	max 12 characters	none
Last Name	max 12 characters	none

### Display Station with COS (PGM 130)

This feature is linked to Station COS PGM 116.

### CO Group Access Station (PGM 131)

This feature is linked Station COS PGM117. Refer to PGM 117 (CO Group Access Display).

### Hot Desk Attribute (PGM 250)

PGM 250 is used to configure the Hot desk feature.

## CO Line Base Program

Use this CO Line Base Program to change CO Line features. The program number is from PGM140 to PGM144.

### CO Related Admin (PGM 140/141/142/143/146/147)

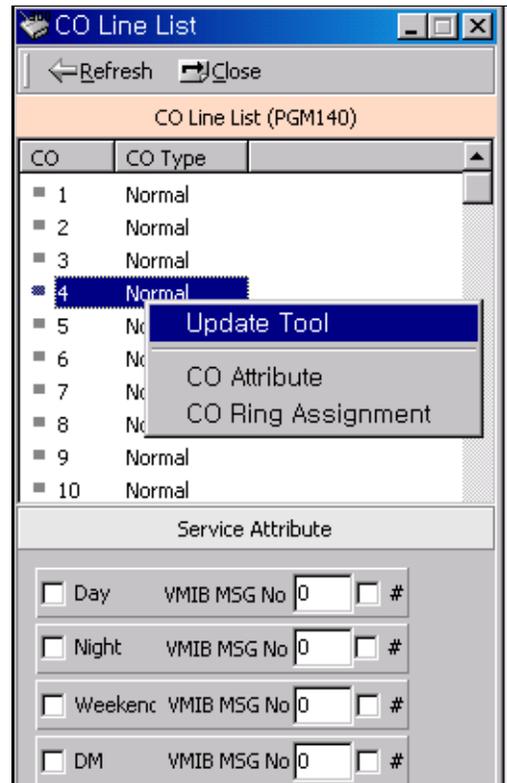
This PC Admin links various features that are related to each other. So, you can move to another programming with a popup menu.

#### Operation1

You will see the adjacent window that displays CO line basic information (PGM140).

With this window, you can select a linked menu by selecting popup menu

The following case is the window when you select the CO Attribute menu item in the popup menu.



CO Attributes

← Refresh    ↻ Update    ✕ Close

Current CO Number :     CO Attribute (PGM141/142/143/146)

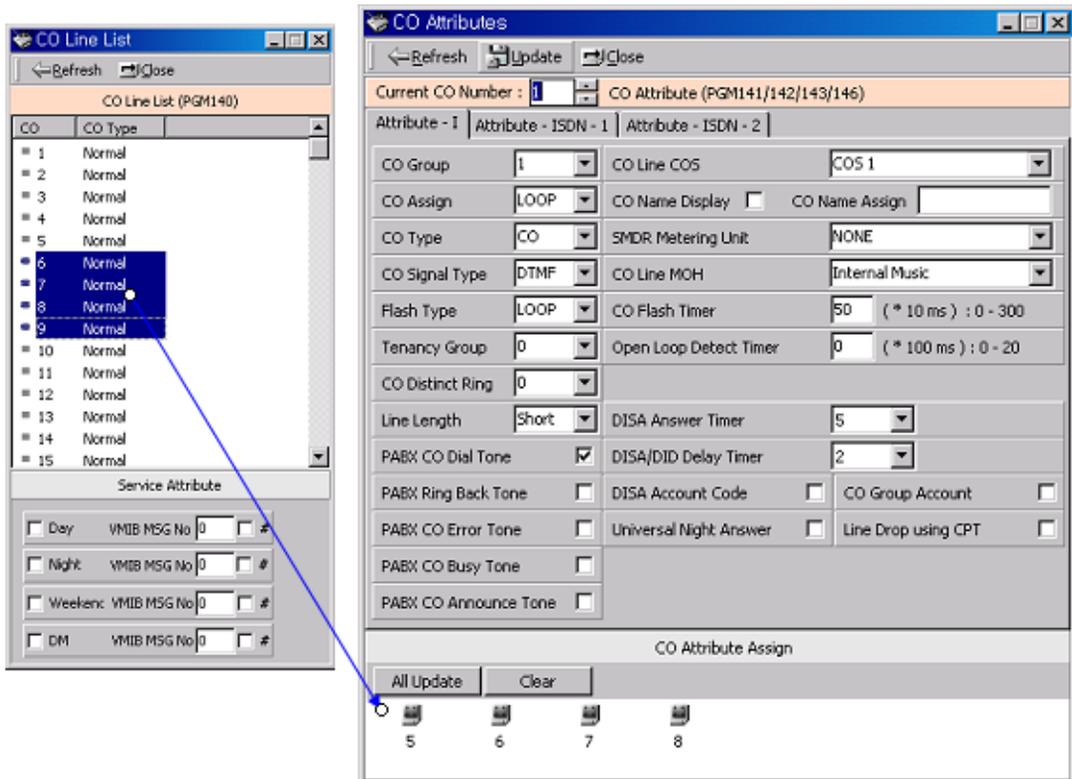
Attribute - 1    Attribute - ISDN - 1    Attribute - ISDN - 2

CO Group	<input type="text" value="1"/>	CO Line COS	<input type="text" value="COS 1"/>
CO Assign	<input type="text" value="LOOP"/>	CO Name Display	<input type="checkbox"/>
CO Type	<input type="text" value="CO"/>	SMDR Metering Unit	<input type="text" value="NONE"/>
CO Signal Type	<input type="text" value="DTMF"/>	CO Line MOH	<input type="text" value="Internal Music"/>
Flash Type	<input type="text" value="LOOP"/>	CO Flash Timer	<input type="text" value="50"/> (* 10 ms) : 0 - 300
Tenancy Group	<input type="text" value="0"/>	Open Loop Detect Timer	<input type="text" value="0"/> (* 100 ms) : 0 - 20
CO Distinct Ring	<input type="text" value="0"/>		
Line Length	<input type="text" value="Short"/>	DISA Answer Timer	<input type="text" value="5"/>
PABX CO Dial Tone	<input checked="" type="checkbox"/>	DISA/DID Delay Timer	<input type="text" value="2"/>
PABX Ring Back Tone	<input type="checkbox"/>	DISA Account Code	<input type="checkbox"/>
PABX CO Error Tone	<input type="checkbox"/>	Universal Night Answer	<input type="checkbox"/>
PABX CO Busy Tone	<input type="checkbox"/>	CO Group Account	<input type="checkbox"/>
PABX CO Announce Tone	<input type="checkbox"/>	Line Drop using CPT	<input type="checkbox"/>

CO Attribute Assign

### Operation2 - Several CO Attributes update

1. Change the admin field(s) you want in the CO Attributes window.
2. Drag and Drop several CO in CO List (PGM140) to the CO Attributes Assignment area.
3. Press the "Update All" button to update. If you want another CO line, press the "Clear" button.



## CO Service Type (PGM140)

ITEM	REMARK
Normal CO	All lines are assigned as normal CO lines by default. Each CO line in the system can be programmed as a DISA (Direct Inward System Access) line and the DISA types are as follows: - Flex BTN 1 (Day) / 2 (Night) / 3 (Weekend) / 4 (On Demand) - Each DISA type (BTN 1-3) has sub-attributes F1: DISA Service On/Off. F2: VMIB Message No.(Voice announcement(VMIB Message) can be assigned (00-70) and it is not assigned (00) as default
Reserved	--
ISDN DID/MSN	
Reserved	--
DCO DID	DCO DID Line (This type will be valid in a few countries. For example, Korea)

## CO Line Attributes I (PGM141)

ITEM	RANGE	DEFAULT	REMARK
CO Line Group	00-25	01	Groups should be assigned according to CO type and Class-Of-Service.
CO COS	1-5	1	-CO COS 1: no restriction -CO COS 2: Exception Table A governs -CO COS 3: Exception Table B governs -CO COS 4: restricts Long Distance Code -CO COS 5: overrides STA. COS 2,3,4 and 5, 6.
DISA Account Code	ON/OFF	ON	When accessing another CO line in the system by DISA line, you should enter authorization code if this flag is set.
CO Line Assign	POL/LOOP	LOOP	Polarity Reverse, Loop Start

## CO Line Attributes I (PGM141)

ITEM	RANGE	DEFAULT	REMARK
CO Line Type	PBX/CO	CO	When marked PBX, a 1 or 2 digit dial code may be entered, after which toll restriction is applied.
CO Line Signal Type	DTMF/PULSE	DTMF	--
Flash Type	GROUND/ LOOP	LOOP	--
UNA	ON/OFF	OFF	The allowance of Universal Night Answer service
CO Line Group Account	ON/OFF	OFF	--
CO Tenancy Group	0-5	5	Tenancy Group of CO line.

## CO Line Attributes II (PGM142)

ITEM	RANGE	DEFAULT	REMARK
CO Line Name Display	ON/OFF	OFF	If CO Line name is assigned at BTN2, and this field is ON, CO name is displayed for CO incoming calls
CO Line Name Assign	Max 12 characters	--	--
Metering Unit	00-06	00	There are 7 metering signal types: - 0: None - 1: 50 Hz - 2: 12 KHz - 3: 16 KHz - 4: Singular Polarity Reverse (SPR) - 5: Plural Polarity Reverse (PPR) - 6: No Polarity Reverse (NPR)

## CO Line Attributes II (PGM142)

ITEM	RANGE	DEFAULT	REMARK
Line Drop Using CPT	ON/OFF	OFF	If this field set to ON, CPT checks the incoming CO line when answered and if CPT detects dial tone, then the system drops the line for toll restriction.
CO Distinct Ring	0-4	0	The CO can have a specific ring signal to stations in the system through this field's setting. This ring type can be programmed at PGM422.
CO Line MOH	0-9	1	0: Not assigned by this field. 1: Internal Music 2: External Music 3: Reserved 4-8: SLT MOH 9: HOLD Tone
PABX CO Dial Tone	YES/NO	YES	YES: PX or PABX provides dial tone. NO: PX or PABX does not provide dial tone. System provides dial tone
PABX CO Ring Back Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that Ring back is provided by PX.). YES: PX, NO: System
PABX CO Error Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that error tone is provided by PX.). YES: PX, NO: System
PABX CO Busy Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that busy tone is provided by PX.). YES: PX, NO: System

## CO Line Attributes II (PGM142)

ITEM	RANGE	DEFAULT	REMARK
PABX CO Announce Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that announcement is provided by PX, but the system provides only error tone.). YES: PX, NO: System
CO Flash Timer	000-300	005	10 msec base
Open Loop Detect Timer	00-20	00	100 msec base
Line Length	SHORT/ LONG	SHORT	Line Length of CO (TELKOM only)
DISA Answer Timer	1-9	2	--
DISA/DID Delay Timer	1-9	1	--
Reserved	--	--	--
Busy/Error CPT	ON/OFF	OFF	

## ISDN CO Line Attributes (PGM143)

ITEM	RANGE	DEFAULT	REMARK
COLP Table Index	00-50	Not Assigned	To make called party number with assigned COLP Table entry. (PGM 201) 00-49: PGM 201 Bin No. / 50: PGM 11-BTN 5
CLIP Table Index	00-50	Not Assigned	To make calling party number with assigned CLIP Table entry. (PGM 201) 00-49: PGM 201 Bin No. / 50: PGM 11-BTN 5

## ISDN CO Line Attributes (PGM143)

ITEM	RANGE	DEFAULT	REMARK
Call Type	0-4	2	0: Unknown 1: International 2: National 3: Not used 4: Subscriber
DID Conv Type	0-2	0	0: convert digits by DID Dgt Conversion (PGM230) 1: call to the valid extension. 2: convert digits by Flex DID Table (PGM231)
DID Remove No.	00-99	00 = Not Assigned	Remove received digits from the left of the assigned #
ISDN Enblock Send	ON/OFF	OFF	ON: Enblock Sending Mode OFF: Overlap Sending Mode
CLI Transit	ORI/CFW	CFW	1: ORI : Send CLI as the originating caller's CLI. 2: CFW : Send CLI as the call forwarded station's CLI.
Numbering Plan ID	0-7	0	F1 : Calling NPI / F2 : Called NPI
ISDN Call Deflection	ENABLE/ DISABLE	DISABLE	ISDN call deflection service usage. Norway only.
ISDN DGT RM	ON/OFF	OFF	
ISDN CP Inband	ON/OFF	OFF	
CLI Type	0-2	0	0: Normal 1: Long CLI 1 (PGM 114-F21) 2: Long CLI 2 (PGM 114-F22)
Reserved	--	--	--
Screening	0-3	0	0: User Provided, No S 1: User Provided, Pass 2: User Provided, Fail 3: Network Provided

## CO Line Attributes III (PGM146)

ITEM	RANGE	DEFAULT	REMARK
Incoming Prefix Code Insertion	ON/OFF	OFF	If this value is set to ON, a prefix code will be attached in front of incoming CLI.
Outgoing Prefix Code Insertion	ON/OFF	ON	If this value is set to ON, a prefix code will be attached in front of outgoing CLI.
ISDN Line Type	u-Law/A-Law	A-Law	This value is used to set the ISDN CODEC Type.
Calling Sub-Address	ON/OFF	OFF	If this value is set to ON, the calling party sub-address of the ISDN station is attached when an ISDN station makes an outgoing CO Call through this CO Line.
DID DGT Receive Number	2-4	3	This value is used as count of the received DID Digit number to route DID incoming Call.
DID Digit Mask	4 digits	#***	When the DID Conversion Type (PGM 143 - FLEX 4) is set to 0, the received DID digits are converted by this value. The digits 0-9, #, * can be entered. # means to ignore received digit, and * means to bypass the digit. The length of DID Digit Mask is 4. e.g.) "1234" is received when DID Digit Mask is set as "#8***", the digit is converted as "834".
R2 Collect Call	0: Disable 1: Double Answer 2: With Indicator	Disable	If this feature is set to ON (1,2), R2 collect call is served
Collect Call Answer Timer	001-250	010	This feature is used when R2 call is answered (Brazil only)
Collect Call Idle Timer	001-250	010	This feature is used when R2 call is answered (Brazil only)

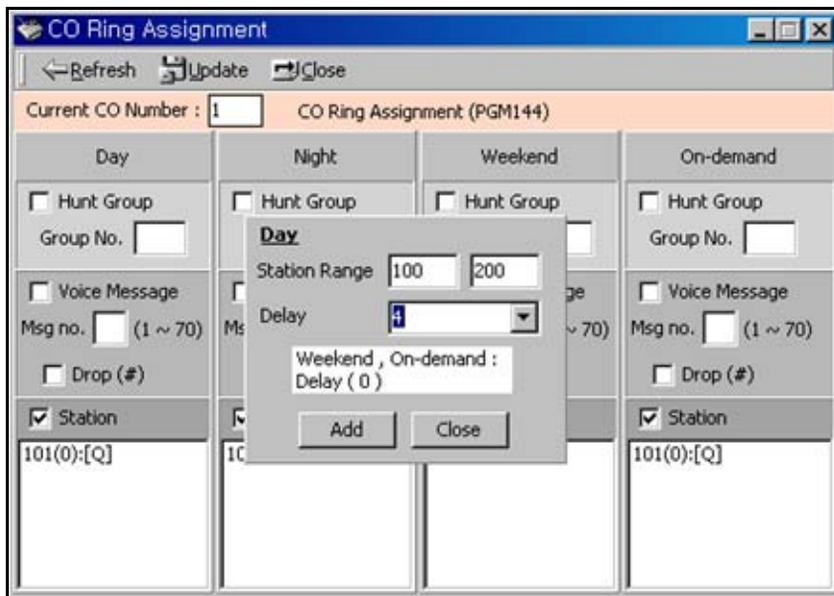
## CO Ring Assignment (PGM 144)

Each station can be assigned to receive a CO ring for only a certain period of time such as day, night, weekend and On-demand.

Day	Night	Weekend	On-demand
<input type="checkbox"/> Hunt Group Group No. <input type="text"/>	<input type="checkbox"/> Hunt Group Group No. <input type="text"/>	<input type="checkbox"/> Hunt Group Group No. <input type="text"/>	<input type="checkbox"/> Hunt Group Group No. <input type="text"/>
<input type="checkbox"/> Voice Message Msg no. <input type="text"/> (1 ~ 70)	<input type="checkbox"/> Voice Message Msg no. <input type="text"/> (1 ~ 70)	<input type="checkbox"/> Voice Message Msg no. <input type="text"/> (1 ~ 70)	<input type="checkbox"/> Voice Message Msg no. <input type="text"/> (1 ~ 70)
<input type="checkbox"/> Drop (#)	<input type="checkbox"/> Drop (#)	<input type="checkbox"/> Drop (#)	<input type="checkbox"/> Drop (#)
<input checked="" type="checkbox"/> Station 100(0):[Q] 101(0):[Q] 102(0):[Q] 103(0):[Q] 104(0):[Q] 105(0):[Q]	<input checked="" type="checkbox"/> Station	<input checked="" type="checkbox"/> Station	<input checked="" type="checkbox"/> Station

## Operation

1. Select the popup menu you want among the modes of Day, Night, Weekend, and On-demand.
2. Update CO Ring assignment by using "Station Assign" in the popup menu.



3. You can see the setting window and assign the station range and delay.

## CO CID Attributes (PGM 147)

User can assign some attributes related with CID setting.

### Operation

1. Click [CO CIDU Attribute].
2. Enter the CO range for which you want to program CID attributes. Then current values will be displayed.
3. Select or enter each field and press the [Update] button to save data.

This menu was linked in other CO programming field.

CO CIDU Attribute (PGM147)

ITEM	RANGE	DEFAULT	REMARK
CID Mode Select	OFF, FSK, DTMF	FSK	--
CID Name Display	NAME/TEL	TEL	Analog CO line CLI carries the caller's telephone number and name. According to this ADMIN program value, LCD displayed data can be selected. If this value is set to NAME, the caller's name and telephone number will display on the LCD. If this value is set to TELEPHONE NUMBER, the caller's telephone number will displayed on the LCD.

## T1 CO Line Attributes (PGM 152)

Use this feature to set North American T1 standards that require the T1 terminating device, in this case the SBX IP system, include various "adjustable" timers and counters. Upon entry into PGM 152, use the dialpad to enter the desired CO line range.

T1 CO Line Attribute (PGM152)

ITEM	RANGE	DEFAULT	REMARK
Pause Duration	1-9	2	A timed pause may be included in a Speed Dial number, in which case, the pause time is defined by this entry.
Release Guard Time (100ms)	1-60	20	The Rls Grd (Guard) timer defines the length of time the system will maintain a Line as busy after the call has been terminated to assure the PSTN has sufficient time to "clear down" the circuit. Not currently implemented.
DT Delay Timer (100ms)	2-50	10	The DT (Dial-tone) Delay timer defines the duration that dial-tone must be received for DT recognition.
Interdigit Timer (20ms)	15-30	15	The Inter Digit timer defines the duration between digit transmissions.
Wink Timer (20ms)	7-15	10	For TIE or DID Lines the Wink timer defines the length of time the "wink" (T1 TIE line circuit reversal) will last.
Outpulsing Rate	10 pps 60/40, 10 pps 66/33, 20 pps 60/40, 20 pps 66/33	10 pps 60/40	For Pulse signaling, defines the duration and make/break ratio of each pulse.
Seize Time (20ms)	0-127	3	This timer defines the length of a valid "line seizure" signal.
Release Time (20ms)	0-127	7	For Ground Start Lines, defines the minimum length of time ground will not be applied to the TIP side from the PSTN.
IASG Mode	DTMF, Pulse	DTMF	Incoming Address Signaling Type defines the type of signaling (DTMF or Pulse) expected.

T1 CO Line Attribute (PGM152)

ITEM	RANGE	DEFAULT	REMARK
Ring Detection Time (10)	2-9	2	The Ring DTC (detect) timer defines the minimum acceptable length of the Ring-on time during a ring cycle.
Ring Stop Time (100ms)	10-60	60	The Ring Stop timer defines the maximum Ring-off time during a ring cycle.
Collect Digit	1-6	3	Collect DGT (digits) defines the number of digits expected on a DID line.
Store Time (sec)	1-15	15	For DID lines, this timer defines the maximum delay between incoming DID digits.

## System Base Program

Use the System Base Program to change any system features.

### System Attributes (PGM 160/161/163)

This area of programming changes system attributes.

#### Operation

1. The System Attribute 1 window will display and you can select the Attribute II or Attribute Alarm by clicking the appropriate tab. Then you can view the current setting and update each field.
2. Refer to the following tables and change the values as desired.
3. After editing, press the [Update] button to save the changes.

## System Attributes I (PGM160)

ITEM	RANGE	DEFAULT	REMARK
Attendant Call Queuing Ringback Tone	RBT/MOH	MOH	MOH: The station will present ring back tone when calling busy attendant station. RBT: The station will present MOH, hold tone, or DVU-MOH by system database (PGM 171 - BTN 2)
Camp-on RBT/MOH	RBT/MOH	MOH	MOH is heard in camp-on or Ringback tone is heard in camp-on.
CO Line Choice	LAST\ ROUND	LAST	The method of a CO line seizing on CO Line Groups access
DISA Retry Counter	0-9	3	When the DISA user fails to call Station or access a feature, then the DISA user can retry another call or feature within the limit of the retry counter. If the DISA user cannot access appropriately within this counter, the system disconnects the DISA Line automatically.
ICM Continuous Dial Tone	CONT/ DISCONT	CONT	This field sets whether ICM dial tone is continuous or not.
CO Dial Tone Detect	ON/OFF	OFF	When the speed dial is activated, system detects dial tone using CPT instead of pause timer.
External Night Ring	ON/OFF	OFF	When CO lines are marked to UNA, ringing will be sent to LBC1 when an incoming call occurs on those lines during night service.
Hold Preference	SYS/EXEC	SYS	System hold or exclusive hold
Multi-line Conference	ON/OFF	ON	The system allows a conference with multi-CO lines.
Print LCR Conv Dgt	ON/OFF	ON	Print dialed digits or LCR conversed digits in LCD

## System Attributes I (PGM160)

ITEM	RANGE	DEFAULT	REMARK
Conference Warning Tone	ON/OFF	ON	When entering a conference, members will receive a warning tone
Off-net Prompt Usage	ON/OFF	ON	In case of Off-net call forward, Off-net prompt will be heard (It only applies to CO-to-CO Transfer).
Off-net DTMF Tone	ON/OFF	ON	In case of Offnet call forward, DTMF Tone will be heard (It only applies to CO-to-CO Transfer).
CO Voice Path Connect	IMM/DGT	DGT	Option to connect voice path after seizing CO line. Immediately. (CIS and Korea only)
Transfer Tone	RBT/MOH	RBT	Option to provide ring-back tone or MOH during transferring CO line.
CO to CO Xfer CPT Detect	ON/OFF	OFF	--
ACD Package Usage	ON/OFF	OFF	If this value is set to ON, ACD Information is printable.
CO to CO UC Timer Extend	ON/OFF	OFF	If this value is set to ON, the conference call user can extend the Unsupervised Conference Timer by dialing the UC TIMER EXTEND Code.
Call Log List Number	15-50	15	Number of call log entries
Reserved	--	--	--

## System Attributes II (PGM161)

ITEM	RANGE	DEFAULT	REMARK
Network Time/Date Setting <i>PX Time / Day / Month</i>	ON/OFF	OFF	If this field is ON, the system time/date are set by the network time/date.
Off-Hook Ring Type	MUTE/BURST	MUTE	The system off-hook ring type can be programmed to mute or one burst ring.
Override 1st CO Group	ON/OFF	ON	If this field is set to ON and if there is no available CO line in the 1st CO group, the system accesses the next accessible CO group.
Page Warning Tone	ON/OFF	ON	If desired, the page warning tone can be suppressed.
Auto Privacy	ON/OFF	ON	The system can be programmed to override a CO line call to gain access to the conversation. If privacy is disabled, a station privileged to override in PGM 113 - Btn 4 joins an existing call in progress.
Privacy Warning Tone	ON/OFF	ON	If desired, the privacy warning tone can be suppressed.
Single Ring for CO Call	YES/NO	NO	Changes a cadence of ICM or incoming CO ring. In case of NO, ICM: 1sec on/ 4sec off CO: 0.4s on/ 0.2s off/ 0.4s on/ 4sec off In case of YES, the cadence is the reverse.
Reserved	--	--	--
ACD Print Enable	ON (10s unit)/OFF	OFF	Enable or disable ACD Print features
ACD Print Timer	001-255	001	Determines the amount of time between repeated ACD database prints. Zero means no print out (10 sec base).

## System Attributes II (PGM161)

ITEM	RANGE	DEFAULT	REMARK
Clear ACD Database after Print	ON/OFF	OFF	Determines if ACD database initializes after print-out.
VMIB Prompt Gain	00-31	08	To control prompt gain level
VM with CLI Info	ON/OFF	OFF	If the setting is ON, CLI is added when Voice Mail information is printed through RS232 port by SMDI.
ACD Print Timer Unit	1: HOUR 0: SEC	SEC	Determines the unit of ACD Print timer of Flex Btn 10 (1 hour or 10 seconds)
Set VM SMDI Type	TYPE II/ TYPE I	TYPE I	Set VM SMDI type.
Incoming Toll Check	ON/OFF	OFF	Enable or disable the toll check for incoming calls
No DSS Indication	ENABLE/ DISABLE	DISABLE	Enable or disable the LED of the CO button while ringing for incoming, transfer and recalling. It is not applied for direct ringing such as DID/DISA.
UK Billing Mode	ON/OFF	OFF	If this value is set to ON, UK Billing Mode is applied (UK only).
COS 7 When Auth Fail	ON/OFF	ON	If authorization is failed with PGM 227, COS will be COS 7 or not with this setting.
Auto Fax Transfer CO	01-36		If Auto FAX CO line is programmed, the system answers and detects the FAX calling tone (1100Hz, 0.5sec ON/3sec OFF repeat tone) from an incoming analog CO line. The system will route this call to the last SLT port on BKSU) when tone is detected within programmed time.

## System Attributes II (PGM161)

ITEM	RANGE	DEFAULT	REMARK
5 Dgt Auth Code Usage	ON/OFF	OFF	
LCR Dial Tone Detect	ON/OFF	OFF	If this value is set to ON, the SBX IP system first checks if the CO provides dial tone in case an analog CO line is seized for LCR dialing. If there is no dial tone, the call is rerouted to the Alternate DMT index. If the LCR type is set to M13, the LCR dial tone detect option is not applied.

## System Attributes III (PGM163)

ITEM	RANGE	DEFAULT	REMARK
Alarm Enable	ON/OFF	OFF	--
Alarm Contact Type	CLOSE/OPEN	CLOSE	--
Alarm Mode	ALARM/ BELL	ALARM	--
Alarm Signal Mode	RPT/ONCE	RPT	--

## Admin Password (PGM 162)

An Admin password is not assigned by default.

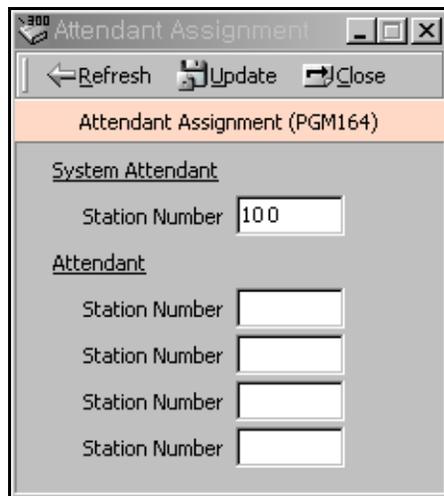
### Operation

Enter 4 digits for the Admin Password.

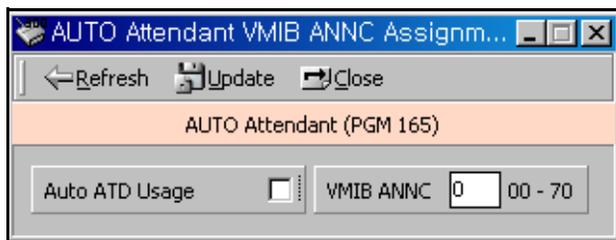


## Attendant Assignment (PGM 164)

A maximum of 5 Attendants can be assigned. This includes the Main Attendants and System Attendant. The System Attendant is different than a Main Attendant in respect to call handling and system management priority. The System Attendant has more priority than a Main Attendant. By default, the System Attendant is assigned Station 100, and Main Attendants are not assigned.

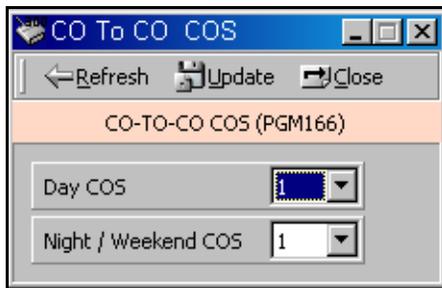


## Auto Attendant VMIB Annc Assignment (PGM165)



## CO-to-CO COS (PGM 166)

When a user of a DID/DISA/TIE line accesses another CO line, CO-to-CO COS is applied. The attributes of CO-to-CO COS are the same as the station COS.

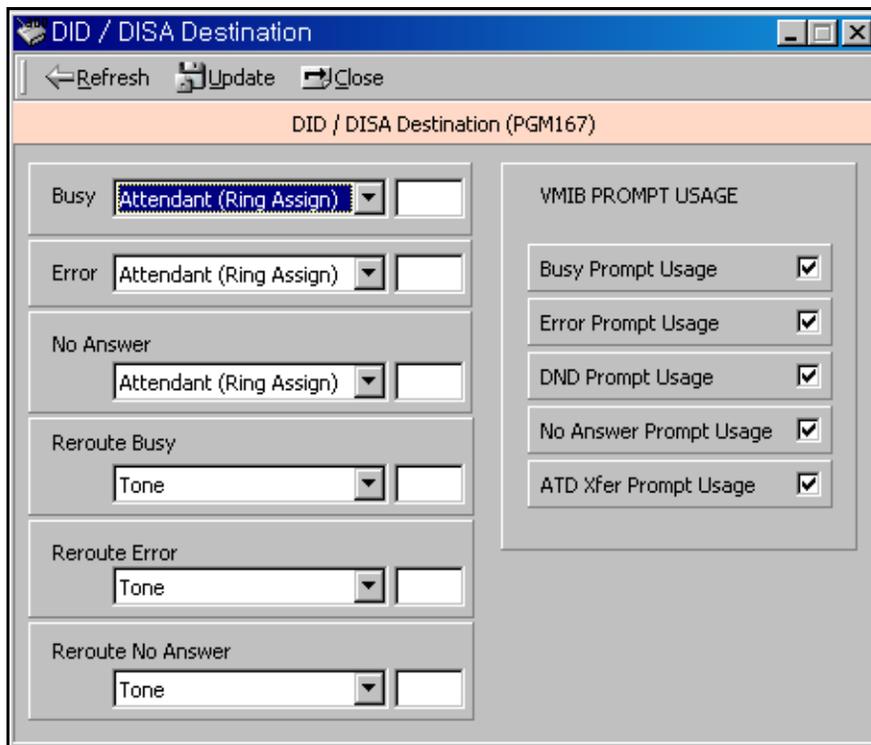


## DID/DISA Destination (PGM 167)

A station can be programmed to forward a DID call to the Attendant if the station is busy. Vacant or invalid calls are sent to the Main Attendant, or a busy tone is presented depending on admin programming.

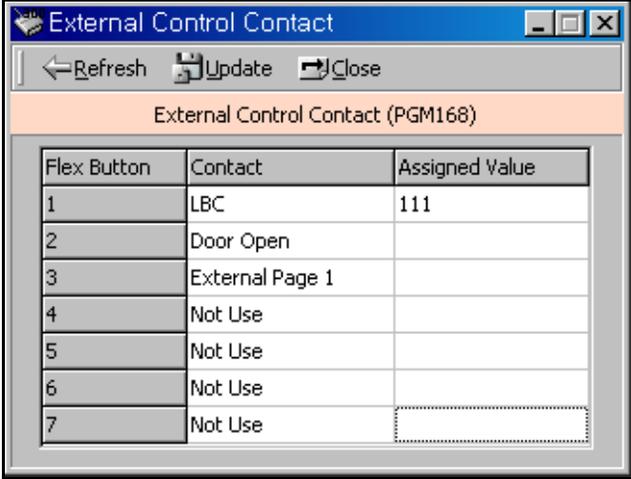
### Operation

- Error Destination (When a wrong number is pressed)
  - TONE : A tone will be heard.
  - ATD : Call will be forwarded to the attendant.
  - Station Group : Call will be forwarded to a station group.
- Busy Destination (When a station is busy)
  - TONE : A tone will be heard.
  - ATD : Call will be forwarded to the attendant.
  - Station Group : Call will be forwarded to a station group.
- No Answer Destination (When there is no answer), input a station group to be forwarded.
  - TONE : A tone will be heard.
  - ATD : Call will be forwarded to the attendant.
  - Station Group : Call will be forwarded to a station group.
- Reroute Busy/Error/NO Answer, input a station group to be forwarded.
  - TONE : A tone will be heard.
  - ATD : Call will be forwarded to the attendant.
  - Station Group : Call will be forwarded to a station group.



## External Control Contact (PGM 168)

Loud Bell Control, Door Open, External Device Control can be set to use an external control contact. The contact feature ranges from 1 to 4 contacts. A default value is not assigned.



The screenshot shows a window titled "External Control Contact" with a toolbar containing "Refresh", "Update", and "Close" buttons. Below the toolbar is a header "External Control Contact (PGM168)" and a table with the following data:

Flex Button	Contact	Assigned Value
1	LBC	111
2	Door Open	
3	External Page 1	
4	Not Use	
5	Not Use	
6	Not Use	
7	Not Use	

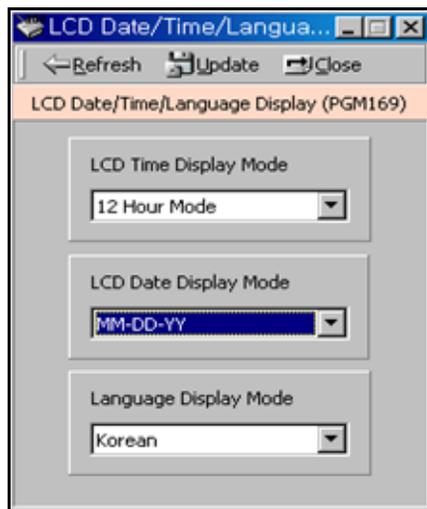
1. Select one of the control contacts.
2. For Loud Bell Control, indicate a station to be assigned.

## LCD Date/Time/Language Display Mode (PGM 169)

You can set a different time/date/language for the LCD screen.

### Operation

1. LCD Time Mode : 12 Hour Mode or 24 Hour Mode.
2. LCD Date Mode : MM-DD-YY or DD-MM-YY.
3. LCD Language : Select a language.

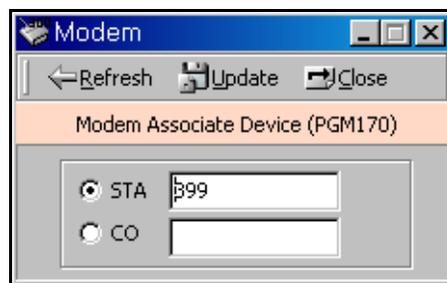


## Modem (PGM 170)

PGM 170 allows you to specify which station or CO line is connected to the modem. The last station 131 is assigned as default. The CO line isn't assigned any default value.

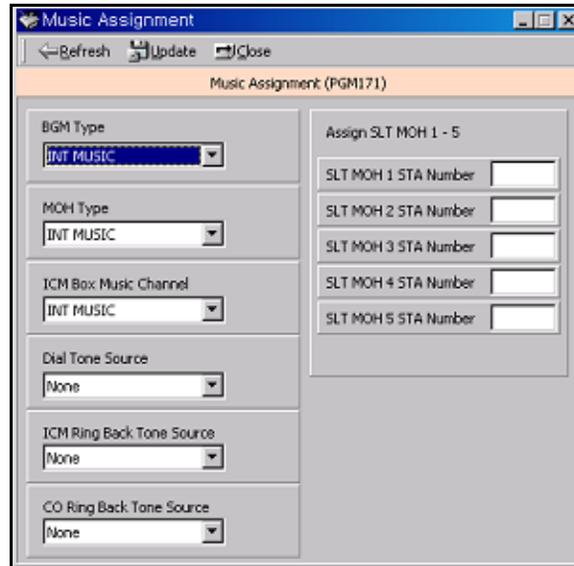
### Operation

The range for stations is 100-131 and CO Line range is 1-12.



## Music (PGM 171)

You may assign BGM(Background Music), MOH(Music On Hold), and ICM Box / Doorbox Music Channel. MOH is the music a caller can hear while waiting for his call to be picked up again.



The screenshot shows a window titled "Music Assignment" with a toolbar containing "Refresh", "Update", and "Close" buttons. The main area is titled "Music Assignment (PGM171)" and contains several configuration sections:

- BGM Type:** A dropdown menu currently set to "INT MUSIC".
- MOH Type:** A dropdown menu currently set to "INT MUSIC".
- ICM Box Music Channel:** A dropdown menu currently set to "INT MUSIC".
- Dial Tone Source:** A dropdown menu currently set to "None".
- ICM Ring Back Tone Source:** A dropdown menu currently set to "None".
- CO Ring Back Tone Source:** A dropdown menu currently set to "None".
- Assign SLT MOH 1 - 5:** A section containing five input fields labeled "SLT MOH 1 STA Number" through "SLT MOH 5 STA Number", all of which are currently empty.

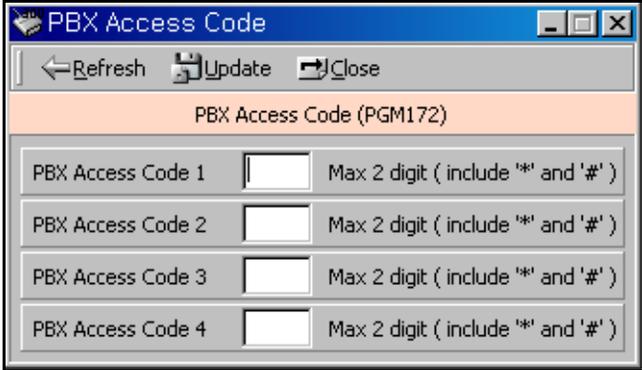
**Operation**

1. Click [Music].
2. Refer to the table below and set the values.

ITEM	RANGE	DEFAULT	REMARK		
BGM Type	0-8	01	00: No BGN	01: Internal Music	
			02: External Music	03: Reserved	
			04: SLT 1	05: SLT 2	
			06: SLT 3	07: SLT 4	08: SLT 5
MOH Type	0-9	01	00: Not Assigned	01: Internal Music	
			02: External Music	03: Reserved	
			04: SLT 1	05: SLT 2	
			06: SLT 3	07: SLT 4	
			08: SLT 5	09: Hold Tone	
ICM Box Music Channel	0-8	01	00: No BGN	01: Internal Music	
			02: External Music	03: Reserved	
			04: SLT 1	05: SLT 2	
			06: SLT 3	07: SLT 4	08: SLT 5
Assign SLT MOH	--	Flex 1-5 (+ SLT STA No.)	SLT MOH 1-5		
Dial Tone Source	0-5	0 (N/A)	To assign external dial tone, set the SLT station number of the SLT port.		
ICM Ring Back Tone	0-5	0 (N/A)	To assign external ICM tone, set the SLT station number of the SLT port.		
DID CO Ring Back Tone	0-5	0 (N/A)	To assign external DID ring back tone, set the SLT station number of the SLT port.		
Internal MOH Type	00-12	00 = Romance	00: Romance	01: Turkish March	
			02: Greensleeves	03: Fur Elise	
			04: Carmen	05: Waltz	
			06: Pavane	07: Siciliano	
			08: Sonata	09: Spring	
			10: Campanella	11: Badinerie	
			12: Blue Danube		

## PBX Access Code (PGM 172)

You can make an outside call through the station. A maximum of 4 PABX Access Codes are assignable. PABX Access Code is a 1- or 3-digit number. By default, PABX Access Codes are not assigned.



The screenshot shows a window titled "PBX Access Code" with a blue header bar. Below the header is a toolbar with three buttons: "Refresh" (left arrow), "Update" (refresh icon), and "Close" (X icon). The main content area has a light orange header with the text "PBX Access Code (PGM172)". Below this are four rows, each representing a PBX Access Code. Each row contains a text input field, a label, and a description. The labels are "PBX Access Code 1", "PBX Access Code 2", "PBX Access Code 3", and "PBX Access Code 4". The descriptions are "Max 2 digit ( include '\*' and '#' )".

Label	Input Field	Description
PBX Access Code 1	<input type="text"/>	Max 2 digit ( include '*' and '#' )
PBX Access Code 2	<input type="text"/>	Max 2 digit ( include '*' and '#' )
PBX Access Code 3	<input type="text"/>	Max 2 digit ( include '*' and '#' )
PBX Access Code 4	<input type="text"/>	Max 2 digit ( include '*' and '#' )

## PLA (Preferred Line Answer) Priority (PGM 173)

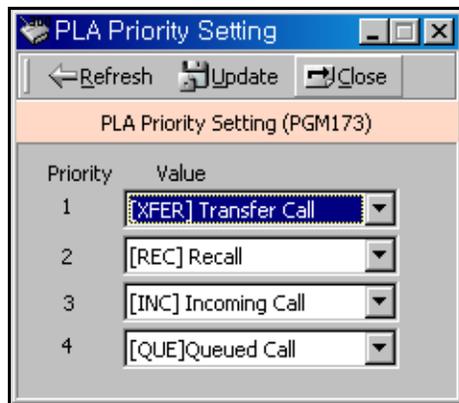
You can set up which order of priority calls are to be received.

### Operation

Each item has the following meaning. Place them in priority order to receive each call by their priority.

- XFR : Transfer Call
- REC : Recall
- INC : Incoming Call
- QUE : Queued Call

You may not assign a duplicated number.



## RS-232C Port Setting (PGM 174)

You can set up RS-232C port configuration.

**Note:** If you use COM2 as MODU (MODEM interface), the maximum speed is limited to 9600bps.

If you use COM1 for PC Admin, the maximum speed is limited to 19200bps.

### Operation

Default values are shown below for each port.

ITEM	RANGE	DEFAULT	REMARK	
Baud Rate	0-7	19200	0: N/A	1: N/A
			2: 1200 Baud	3: 2400 Baud
			4: 4800 Baud	5: 9600 Baud
			6: 19200 Baud	7: 38400 Baud
CTS/RTS	ON/OFF	OFF	--	
P-Break	ON/OFF	OFF	--	
LPP	001-199	060	--	

## Print Serial Port Selection (PGM 175)

You can change the usage of the print serial port. You can change the various input ports for applications.

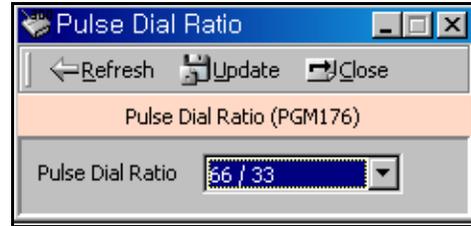
### Operation

Refer to the following table and change the values.

ITEM	RANGE	DEFAULT	REMARK
Off-line SMDR / Statistics Print	01-11	COM 1 (01)	01: COM1
Admin Print	01-11	COM 1 (01)	02: COM2 - MODU
Traffic	01-11	COM 1 (01)	03: TELNET 1
SMDI Print	01-11	COM 1 (01)	04: TELNET 2
Call Information	01-11	COM 1 (01)	05: TELNET 3
Info/On-line SMDR	01-11	COM 1 (01)	06: Reserved
Trace	01-11	COM 1 (01)	07: NET_PCADM
Debug	01-11	COM 1 (01)	08: NET_PCATD
PC Admin	01-11	Auto Select. Display Only	09: NET_CTI
PC Attendant	01-11	NET_PCATD (08)	10: NET_REMOTE
CTI	01-11	NET_CTI (09)	11: Not Supported
Remote Diagnostic	N/A	Not Supported	

### Pulse Dial / Speed Ratio (PGM 176).

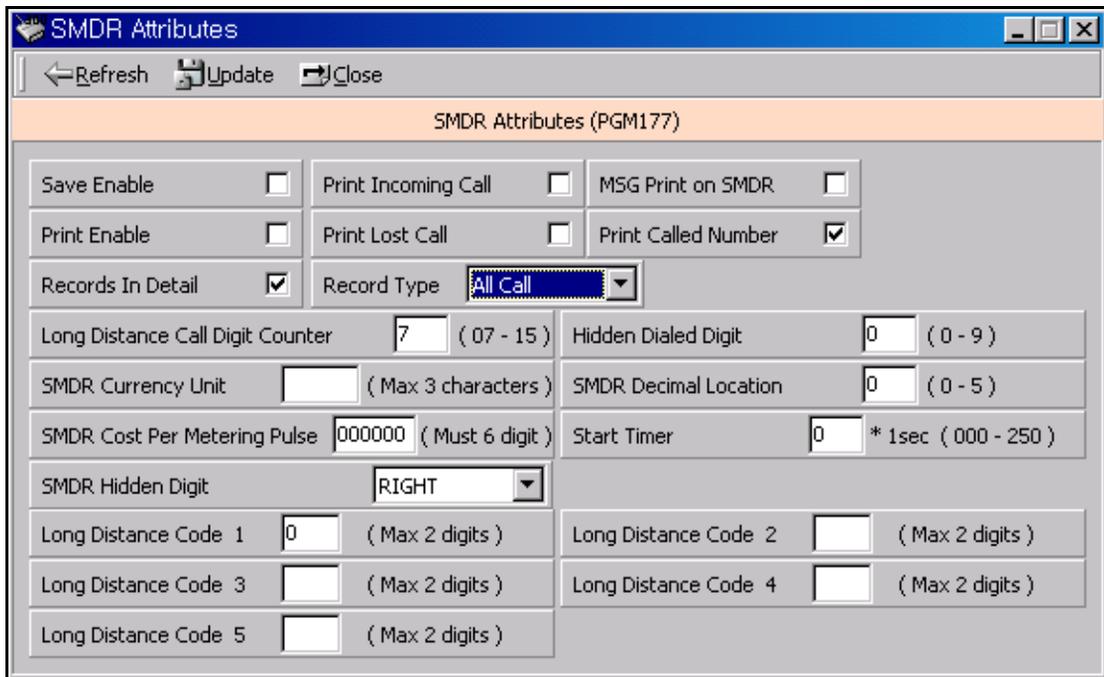
If the type of CO line is PULSE instead of DTMF, it decides pulse dial ratio



### SMDR Attributes (PGM 177)

Station Message Detail Recording (SMDR) provides details on both incoming and outgoing calls. As an assignable database option, if Long Distance/All Call is selected, incoming and outgoing local and long distance calls are all provided. If only Long Distance is selected, then only outgoing calls that meet the toll check status requirements listed below are provided.

### Operation



Refer to the following table and enter the desired values.

**SMDR Attributes (PGM 177)**

ITEM	RANGE	DEFAULT	REMARK
SMDR Save Enable	ON/OFF	OFF	The system can be set to record either all outgoing calls (ALL) or only limit set by timer in Btn12 (SMDR Start Timer).
SMDR Print Enable	ON/OFF	OFF	The system can be set to real time print either all outgoing calls (ALL) or only limit set by timer in Btn12 (SMDR Start Timer)
Long Distance / All Call Recorded	LD/All Call	LD	The system can be set to record either all outgoing calls or only long distance calls, exceeding the time limit set by SMDR Start Tmr. The long distance calls are identified by SMDR long distance code programming (Btn 15).
SMDR Long Distance Call Digit Counter	07-15	07	If the SMDR digits are more than this value, the system considers it as a long distance call.
Print Incoming Call	ON/OFF	OFF	If this option (PIC) is set to ENABLE, all incoming calls are printed with either all outgoing calls or long distance calls.
Print Lost Call	ON/OFF	OFF	If this option (PLC) is set to ENABLE, all lost calls are printed whether unanswered or not.
Records in Detail	ON/OFF	ON	Due to limited system memory size, in places where many calls take place, the SMDR record buffer can easily become saturated. So, if the customer doesn't need the detailed call information but total call, total metering count and total cost for individual station, then it is possible to save only the total accumulation, rather than the detailed records in their entirety.
SMDR Dial Digit Hidden	0-9	0	According to this value, the "*" symbol will be hidden in the SMDR digits.
SMDR Currency Unit	3 Char	--	For easy identification of call cost, the currency unit can be input with 3 alphabetic characters to be printed in front of the call charge amount.
SMDR Cost Per Unit Pulse	6 digits	--	This is the call cost unit per cost metering pulse, which is sent from the Central Office.
SMDR Fraction	0-5	0	This value represents the decimal position point of the CO per unit pulse.

**SMDR Attributes (PGM 177)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
SMDR Start Timer	000-250	000	1 sec base
SMDR Hidden Digit	Right/ Left	Right	Hide digits from right or left
SMDR Long Distance Codes	Flex Btn 1-5	0	A maximum of 5 SMDR Long Distance codes are available. The SMDR Long Distance code is 1 or 2 digits number. By default, the SMDR Long Distance Code is 0.
MSN Print On SMDR	ON/OFF	OFF	Enable or Disable printing MSN on SMDR
Print Caller Number	ON/OFF	OFF	Enable or Disable printing of the Caller Number
ICM SMDR Save	ON/OFF	OFF	If this value is set to ON, ICM call data is stored in Off-line SMDR
ICM SMDR Print	ON/OFF	OFF	If this value is set to ON, ICM call data is printed in On-line SMDR
SMDR Interface Service	ON/OFF	OFF	--
I-SMDR Connection Type	SIO/LAN	SIO	--

**System Date / Time (PGM 178) - Not Used**

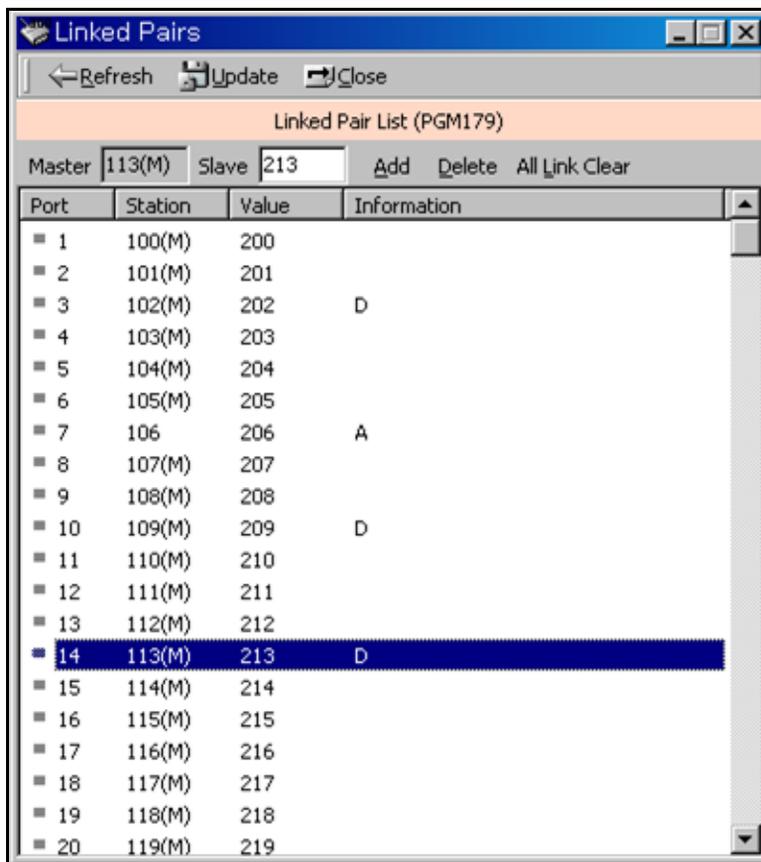
## Linked Station Pairs Table (PGM 179)

You can link two stations in a pair. The "(M)" character indicate that this station is Master station.

Port	Station	Value	Information
1	100(M)	200	
2	101(M)	201	
3	102(M)	202	
4	103(M)	203	
5	104(M)	204	
6	105(M)	205	
7	106(M)	206	
8	107(M)	207	
9	108(M)	208	
10	109(M)	209	
11	110(M)	210	
12	111(M)	211	
13	112(M)	212	
14	113(M)	213	
15	114(M)	214	
16	115(M)	215	
17	116(M)	216	
18	117(M)	217	
19	118(M)	218	
20	119(M)	219	

**Operation**

1. Select a station number and enter a station number to be linked with.
2. Link the pair by clicking "Add". To delete a pair, click [Delete] button. Then information will display "A" character for addition and "D" character for deletion.

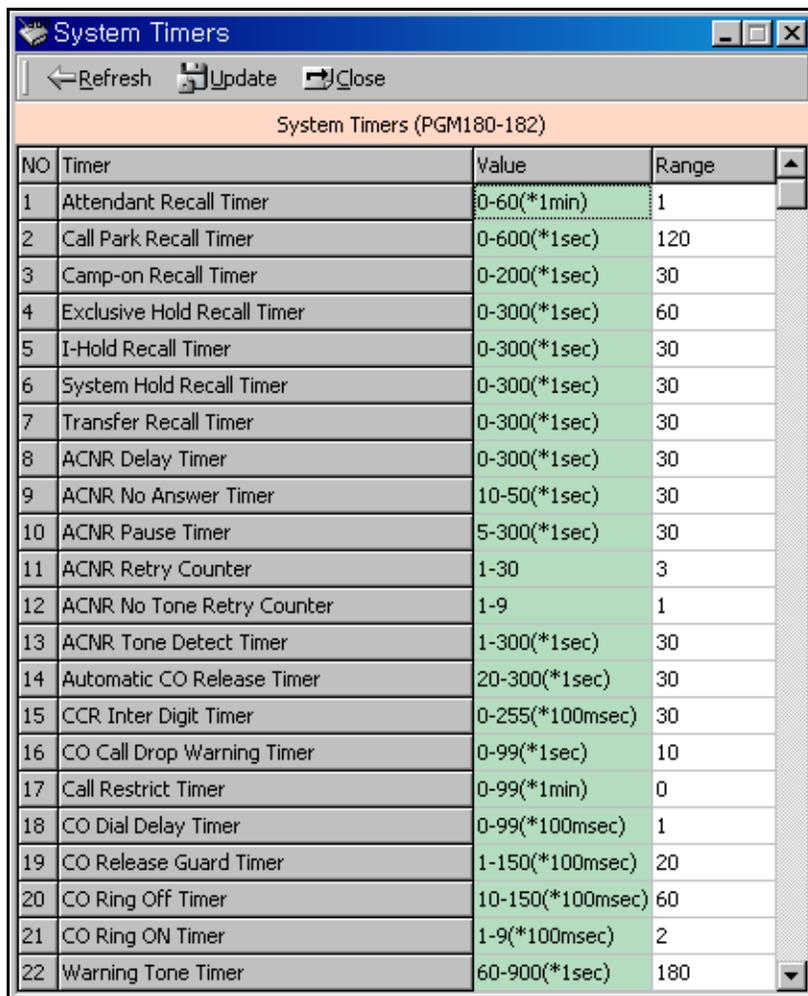


3. To adapt the changed pair(Add/Delete), click [Update].
4. If you want to clear all linked pair, click [All Link Clear].

## System Timers I - III (PGM 180, 181,182)

You can set the system timers to control the interval of time that each event occurs.

### Operation



NO	Timer	Value	Range
1	Attendant Recall Timer	0-60(*1min)	1
2	Call Park Recall Timer	0-600(*1sec)	120
3	Camp-on Recall Timer	0-200(*1sec)	30
4	Exclusive Hold Recall Timer	0-300(*1sec)	60
5	I-Hold Recall Timer	0-300(*1sec)	30
6	System Hold Recall Timer	0-300(*1sec)	30
7	Transfer Recall Timer	0-300(*1sec)	30
8	ACNR Delay Timer	0-300(*1sec)	30
9	ACNR No Answer Timer	10-50(*1sec)	30
10	ACNR Pause Timer	5-300(*1sec)	30
11	ACNR Retry Counter	1-30	3
12	ACNR No Tone Retry Counter	1-9	1
13	ACNR Tone Detect Timer	1-300(*1sec)	30
14	Automatic CO Release Timer	20-300(*1sec)	30
15	CCR Inter Digit Timer	0-255(*100msec)	30
16	CO Call Drop Warning Timer	0-99(*1sec)	10
17	Call Restrict Timer	0-99(*1min)	0
18	CO Dial Delay Timer	0-99(*100msec)	1
19	CO Release Guard Timer	1-150(*100msec)	20
20	CO Ring Off Timer	10-150(*100msec)	60
21	CO Ring ON Timer	1-9(*100msec)	2
22	Warning Tone Timer	60-900(*1sec)	180

Enter a value within the range specified in the range box. Refer to the following table for each timer.

**System Timers - I (PGM 180)**

ITEM	RANGE	DEFAULT	REMARK
Attendant Recall Timer	00-60 (2 digits)	01 (min)	Establishes the amount of time before the system disconnects the call.
Call Park Recall Timer	000-600 (3 digits)	120 (sec)	Establishes the amount of time before a call placed in a call park location will recall the station placing the park.
Camp-on Recall Timer	000-200 (3 digits)	030 (sec)	If a station transfers to a busy station and hangs up, this recall timer is invoked.
Exclusive Hold Recall Timer	000-300 (3 digits)	060 (sec)	Establishes the amount of time before a call placed on exclusive hold will recall the station placing the hold.
I-Hold Recall Timer	000-300 (3 digits)	030 (sec)	Establishes the amount of time before a call recalls the attendant.
System Hold Recall Timer	000-300 (3 digits)	030 (sec)	Establishes the amount of time before a call placed on system hold will recall the station placing the hold.
Transfer Recall Timer	000-300 (3 digits)	030 (sec)	Establishes the amount of time a transferred call will ring at the station receiving the transfer and how long it will recall the station transferring the call.
ACNR Delay Timer	000-300 (3 digits)	030 (sec)	When the ACNR Pause Timer expires and there is no available CO Line in the group, this timer is invoked. When the ACNR Delay Timer expires, invoke the ACNR Pause Timer if there is still no available CO line, ACNR is activated.
ACNR No Answer Timer	10-50 (2 digits)	030 (sec)	This Timer is invoked after system detects CO ring back tone or voice from a CO party. After this timer, the system retries ACNR.
ACNR Pause Timer	005-300 (3 digits)	030 (sec)	When this timer expires, ACNR is activated. (For CIS: 5-300)
ACNR Retry Counter	01-30	03	This counter decreases every time the station retries ACNR. ACNR is canceled if set to 0. (For CIS: 1-9)
ACNR Retry No Tone	1-9 (1 digit)	1 (5 sec)	1 represents 5 seconds, the system will wait this value to decide NO TONE. 3 represents 15 seconds. (Only for CIS)

**System Timers - I (PGM 180)**

ITEM	RANGE	DEFAULT	REMARK
ACNR Tone Detect Timer	001-300 (3 digits)	030 (sec)	This timer is invoked upon completion of dialing and the system considers the CO party as busy in the case that the CPTU cannot detect a valid tone type until this timer expires.
Automatic CO Release Timer	020-300 (3 digits)	030 (sec)	An uncompleted CO call will be automatically released after this timer expires.
CCR Inter-digit Timer	000-255 (3 digits)	030 (100ms)	This field is used for the CCR inter-digit timer in the DISA/DID CO line. In DID type 2, it is used for the DID inter-digit timer.
CO Call Drop Warning Timer	00-99 (2 digits)	10 (sec)	If prepaid money is going to expire during a CO conversation, give warning tone and after this time the call will be disconnected. This timer is also used for Call Restriction, Unsupervised Conference.
Reserved	--	--	--
CO Dial Delay Timer	00-99 (2 digits)	01 (100ms)	Voice connection to the outside party will be made after this timer. This can be used to prevent illegal dialing in case of slow response from the Central Office Line or PBX.
CO Release Guard Timer	001-150 (3 digits)	020 (100ms)	The CO Release Guard Timer controls the time necessary to guarantee idle loop state when the line is released.
CO Ring Off Timer	001-150 (3 digits)	060 (100ms)	This timer is to secure time interval between incoming ringing signals so that the active ringing can be continued in the system until this timer expires.
CO Ring On Timer	1-9 (1 digit)	2 (100ms)	The CO Ring On Timer controls the time necessary to detect an outside line as ringing into the system.
CO Warning Tone Timer	060-900 (3 digits)	180 (sec)	Establishes the amount of time before receiving warning tone to remind of the call elapsed time in case of outgoing CO conversations.
VM Outbound Retry Counter	0-9 (1 digit)	2	

**System Timers - II (PGM 181)**

ITEM	RANGE	DEFAULT	REMARK
Call Forward No Answer Timer	000-255 (3 digits)	015 (sec)	The Call forward busy/no answer feature will take place using this timer. If this timer has a non-zero value and an extension is set to busy, no answer forward by the station user, then the extension will ring for this timer and will then forward to the next destination.
DID/DISA No Answer Timer	00-99 (2 digits)	25 (sec)	A DID call will be forwarded to the Attendant if the station is busy or does not answer within this time.
VMIB User Record Timer	010-255 (3 digits)	020 (sec)	The time duration of the VMIB user greeting.
VMIB Valid User Message Timer	0-9 (1 digit)	4 (sec)	The time duration of a valid VMIB user message.
Door Open Timer	05-99 (2 digits)	20 (100ms)	This timer establishes the length of time that is needed to activate a door open relay.
ICM Box Timer (Doorbox)	00-60 (2 digits)	30 (sec)	Establishes the amount of time programmed stations will ring when the ICM box user presses the [CALL] button.
ICM Dial Tone Timer	01-20 (2 digits)	10 (sec)	If action is not taken within ICM dial tone timer, the user will receive an error-tone.
Inter Digit Timer	01-20 (2 digits)	05 (sec)	If the time between dialed digits exceeds the Inter-digit timer, the user will receive an error-tone.
MSG Wait Reminder Tone Timer	00-60 (2 digits)	00 (min)	Establishes the amount of time between repeated reminder tones to a key telephone with a message waiting.
Paging Timeout Timer	000-255 (3 digits)	015 (sec)	Establishes the maximum time allowed for a page. The system will automatically disconnect the page at the end of this time unless the caller has hung up earlier.
Pause Timer	1-9 (1 digit)	3 (sec)	Establishes the length of the pause for use with automatically sent digits or other speed dialing.
Preset Call Forward Timer	00-99 (2 digits)	10 (sec)	Establishes the amount of time an outside line call will ring before being forwarded to a predetermined station. This entry works with Preset Forward Assignments in station attributes. More than one station can be forwarded to the same destination.

**System Timers - II (PGM 181)**

ITEM	RANGE	DEFAULT	REMARK
SLT DTMF Release Timer	00-20 (2 digits)	00 (sec)	--
3 Soft Auto Release Timer	01-30 (2 digits)	05 (sec)	--
VM Pause Timer	01-90 (2 digits)	30 (100ms)	--
Transit Connect Timer	01-30 (2 digits)	04 (sec)	--
VMIB MSG Rewind Timer	01-99 (2 digits)	05 (sec)	--
LCO Connect Timer	00-20 (2 digits)	00 (sec)	--
LCO CPT Detect Timer	00-20 (2 digits)	05 (sec)	--
Forward to VMIB Timer	20-60 (2 digits)	20 (sec)	If the Auto FWD to VMIB feature (PGM 113 - FLEX 14) is set to a station, the call is automatically forwarded to VMIB after this timer expires, so the caller can leave a voice message.

**System Timers - III (PGM 182)**

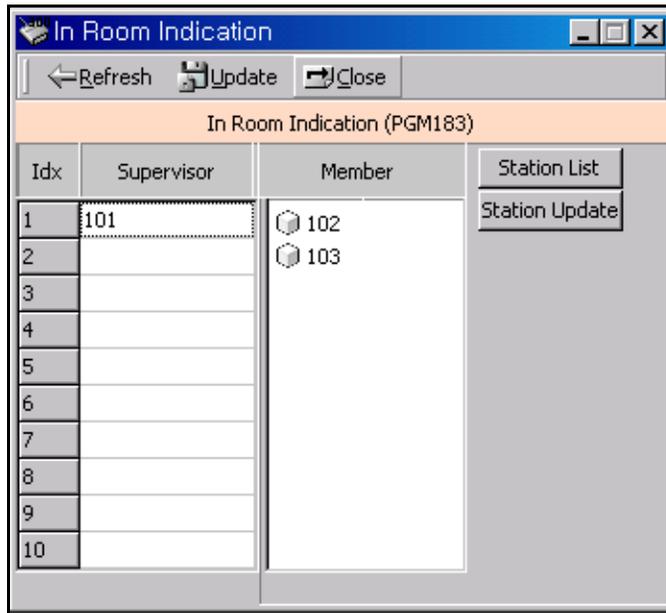
ITEM	RANGE	DEFAULT	REMARK
SLT Hook Switch Bounce Timer	01-25 (2 digits)	01 (100ms)	This timer establishes the length of time that is needed to regard as a valid on-hook or off-hook.(for SLT).
SLT Maximum Hook Flash Timer	001-250 (2 digits)	050 (10ms)	This timer establishes how long the user could depress the hook switch in order for it to be considered a FLASH (Timed-Break Recall). (for SLT)
SLT Minimum Hook Flash Timer	000-250 (3 digits)	020 (10ms)	The minimum bound time that system considers as a hook flash for an SLT.
SLT Ring Phase Timer	2-5 (1 digit)	5 (sec)	Determines the ring phase of SLTs. (5 SEC: 1 SEC ON / 4 SEC OFF)

**System Timers - III (PGM 182)**

ITEM	RANGE	DEFAULT	REMARK
Station Auto Release Timer	020-300 (3 digits)	060 (sec)	If a station hears ring back tone and no action is taken, this timer is initiated. When this timer expires the station is released.
Unsupervised Conference Timer	00-99 (2 digits)	10 (min)	Establishes the amount of the time an unsupervised conference can continue after the initiator of the conference has exited the conference
Wake-up Fail Ring Timer	00-99 (2 digits)	20 (sec)	After a Wake-up fail ring invokes on the System Attendant, the alarm ring continues during the length of this timer. If this timer expires, the Alarm ring will terminate.
Warm Line Timer	01-20 (2 digits)	05 (sec)	User takes no action after lifting handset or pressing the [SPEAKER] button and the warm line timer expires, then the idle line selection for warm line is activated.
Wink Timer	010-200 (3 digits)	010 (10ms)	The Time Duration of Seize Acknowledge Signal to DID line.
Enblock Int Digit Timer	01-20 (2 digits)	15 (sec)	After timer expires, Setup is sent.
CCR Time Out Timer	000-300 (3 digits)	010 (sec)	When this timer expires, CCR is activated
DID Inter Digit Timer	01-20 (2 digits)	05 (sec)	This timer is used for the DID type 2 feature. In DID type 2, the SBX IP system will wait for new DID digits to be received until this timer expires or the call routing of DID type 2 is executed.
FAX Tone Detect Timer	01-10 (2 digits)	05 (sec)	Establishes the time allowed for a FAX tone to be detected before disconnection.
FAX CO Call Timer	1-5 (1 digit)	1 (min)	Establishes the time allowed for a FAX call before disconnection.

## In Room Indication (PGM 183)

### Operation



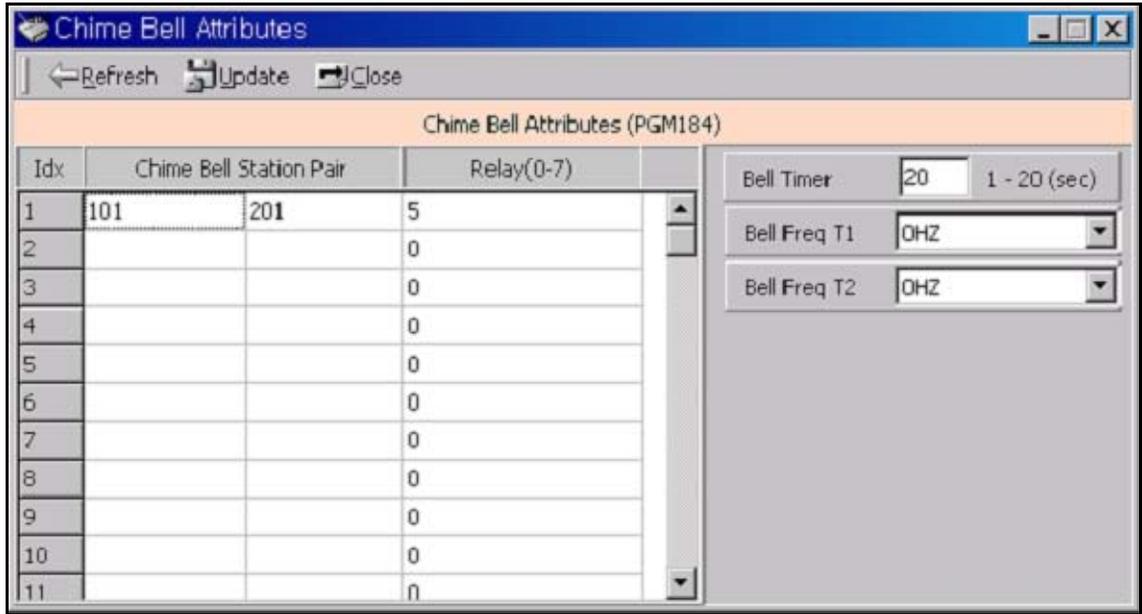
1. Enter a supervisor station.
2. Click the Station List button, then drag and drop member station in the station list.
3. Click the Update button to change all values or Station Update for member station.

### In Room Indication (PGM 183)

ITEM	RANGE	DEFAULT	REMARK
Supervisor	Station		
Member	Station	Max 20 Stations	

## Chime Bell Attributes (PGM 184)

### Operation



Chime Bell Attributes (PGM 184)

ITEM	RANGE	DEFAULT	REMARK
Station Pair	Station		
Relay	1-14	0	
Bell Timer	1-20		
Bell Frequency			

## DCOB System Attributes (PGM 186)

In this menu, you can program the attributes of R2(DCOB). These menus consist of combo boxes.

### Operation

After selecting the item and changed value, press the [Update] button to save the value. This feature may not apply to some countries - it currently is not supported in the USA.

DCOB System Attribute (PGM186)		
Line Status	6	R2 OUT Manage Timer(sec) 14 01-50
Calling Category	1	R2 IN Manage Timer(sec) 14 01-50
CLI Digit Num	4	R2 Disappear Timer(sec) 14 01-50
Metering Type	<input type="checkbox"/>	R2 Pulse Timer(20msec) 7 01-30
DNIS Service	<input type="checkbox"/>	R2 Ready Timer(20msec) 7 000-500
R2 Error Prompt Usage	<input type="checkbox"/>	Dial Tone Delay Timer 20 01-30
R2 Busy Prompt Usage	<input type="checkbox"/>	R2 Out Digit Timer(sec) 5 01-50
R2 Annc Prompt Usage	<input type="checkbox"/>	

### DCOB System Attributes (PGM 186)

ITEM	RANGE	DEFAULT	REMARK
DCOB CO Type (This is actually programmed in PGM 187, FLEX 4)	0-2	2	0: Sweden/Cyprus 1: Italy 2: Korea/Australia
Metering Type	0-1	0	0: Not used 1: When a Metering signal is received
R2 OUT Manage Timer	01-50	14 (sec)	In R2 signaling, maximum time for waiting for forward signal from PX
R2 IN Manage Timer	01-50	14 (sec)	In R2 signaling, maximum time for waiting for forward signal from PX

**DCOB System Attributes (PGM 186)**

ITEM	RANGE	DEFAULT	REMARK
R2 Disappear Timer	01-50	14 (sec)	--
R2 Pulse Timer	01-30	07 (20ms)	In R2 signaling, time duration to send pulse typed R2 signal
R2 Ready Timer	000-500	007 (20ms)	--
Dial Tone Delay Timer	01-30	20	--
Line Status	1-9	6	Free Line
Calling Category	1-9	1	User no priority
ANI Request	ON/OFF	OFF	ON: Caller ID Service
CLI Digits Number	01-10	04	--
R2 Out Digits Timer	01-50	05	--
R2 Error Prompt	ON/OFF	OFF	--
R2 Busy Prompt	ON/OFF	OFF	--
R2 Annc Prompt Usage	ON/OFF	OFF	--
DCO Gain	01-63	32	--

## DCOB CO Line Attributes (PGM187)

This feature is for R2(DCOB) programming.

CO	IN Digit Type
1	R2MFC
2	R2MFC
3	R2MFC
4	R2MFC
5	R2MFC
6	R2MFC
7	R2MFC
8	R2MFC
9	R2MFC
10	R2MFC
11	R2MFC
12	R2MFC

DCOB CO line Attribute (PGM187)

IN Digit Type:

OUT Digit Type:

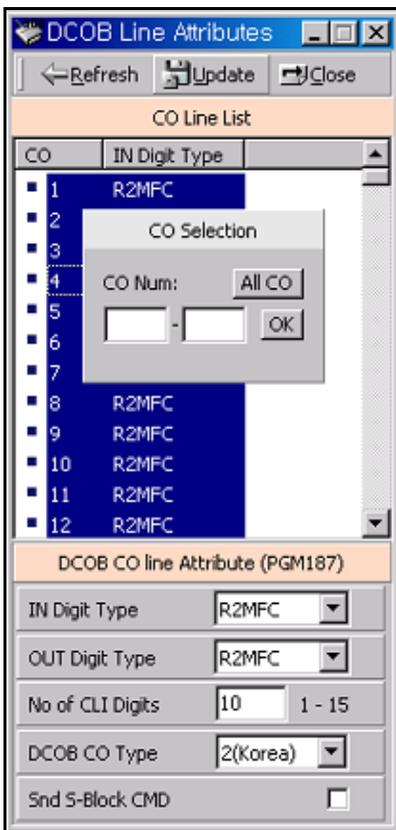
No of CLI Digits:  1 - 15

DCOB CO Type:

Snd S-Block CMD:

### Operation

1. Set the value of admin field.
2. For several CO modification, click popup menu by right-clicking (as shown in the following graphic). Then you can assign the range of CO Line (or All CO).
3. Press the "Update" button.



**DCOB CO Line Attributes (PGM 187)**

ITEM	RANGE	DEFAULT	REMARK
IN Digit Type	0-2	2	Default: R2MFC (2) To set type: [0 : PULSE, 1 : DTMF, 2 : R2MFC]
OUT Digit Type	0-2	2	Default: R2MFC (2) To set type: [0 : PULSE, 1 : DTMF, 2 : R2MFC]
Number of CLI Digits	01-15	10	--
DCOB Type	0-2	2	0: Cyprus, 1: Italy, 2: Korea
Send S-Block Cmd	ON/OFF	OFF	--

## Station Group

You can group stations together, and make an idle station in a group to response to a call.

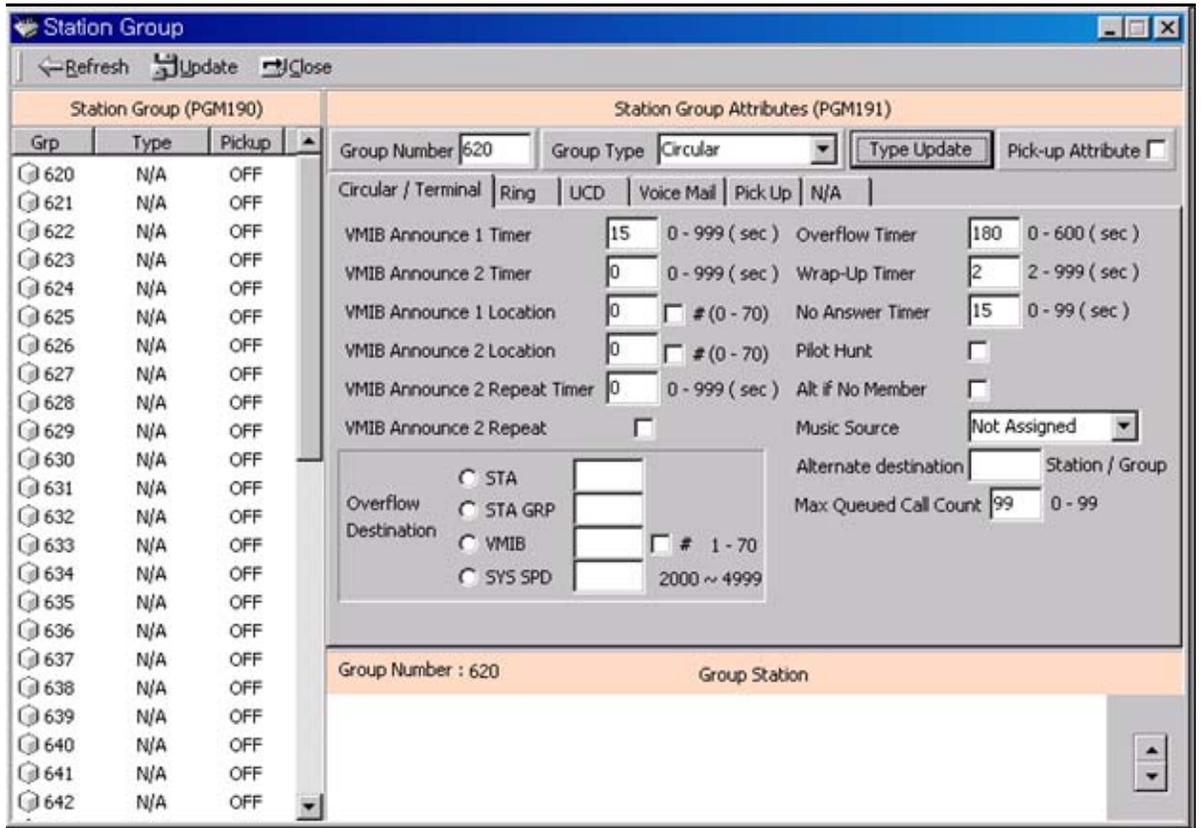
### Station Group Assign (PGM 190/191)

Stations in the system can be grouped so that incoming calls will search (hunt) for an idle station in the group. Three hunting processes can be assigned; Circular, Terminal, or UCD (Uniform Call Distribution). Each of the system's groups is assigned as a function; Call Pick-Up Group and/or Hunt Group, Voice Mail Group, and Ring Group. The available group number and station number in a group is as follows:

Number of Groups / System	10
Stations / Group	26

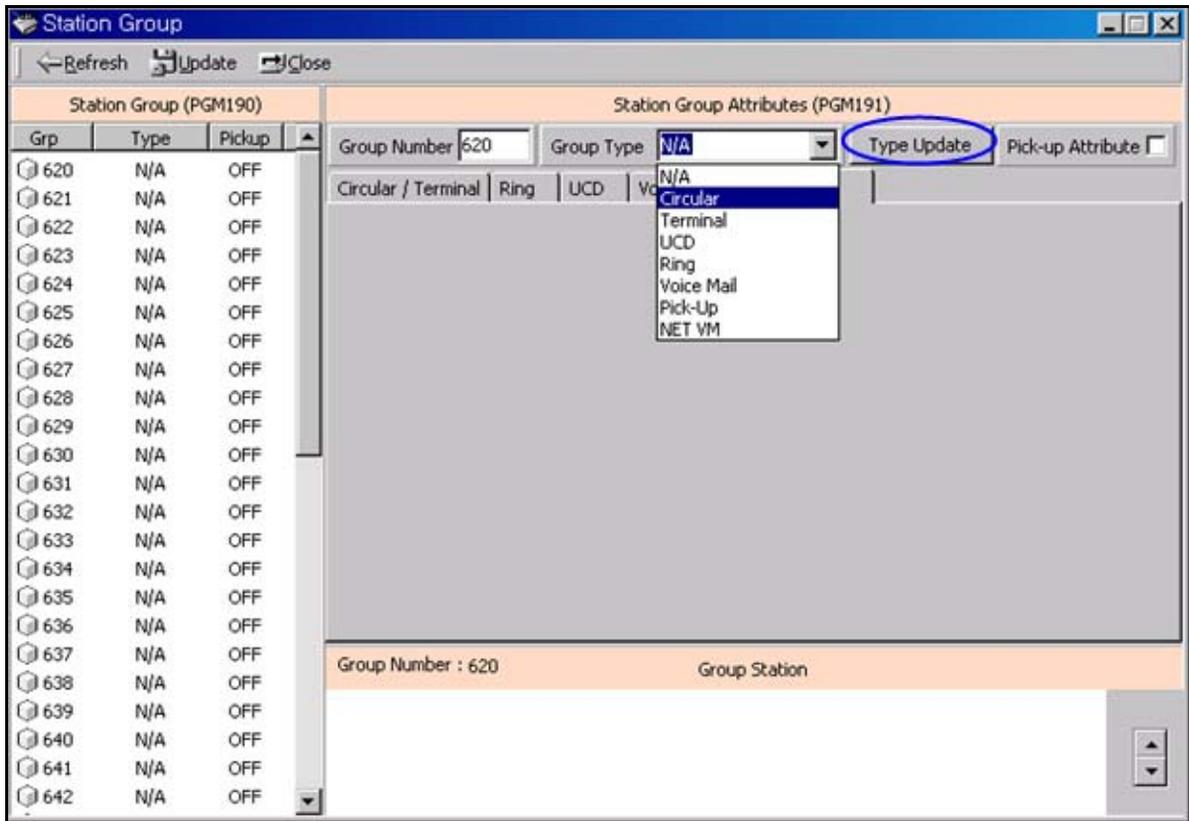
A station can belong to any number of Pickup groups, but can only belong to one Station Hunt group, Voice mail group, or Ring group.

When assigning a station group to any type of hunt group or voice mail group, ring, pick up group, the system initializes hunt attributes by default value for its own function. It can be programmed to meet each customer's individual need.

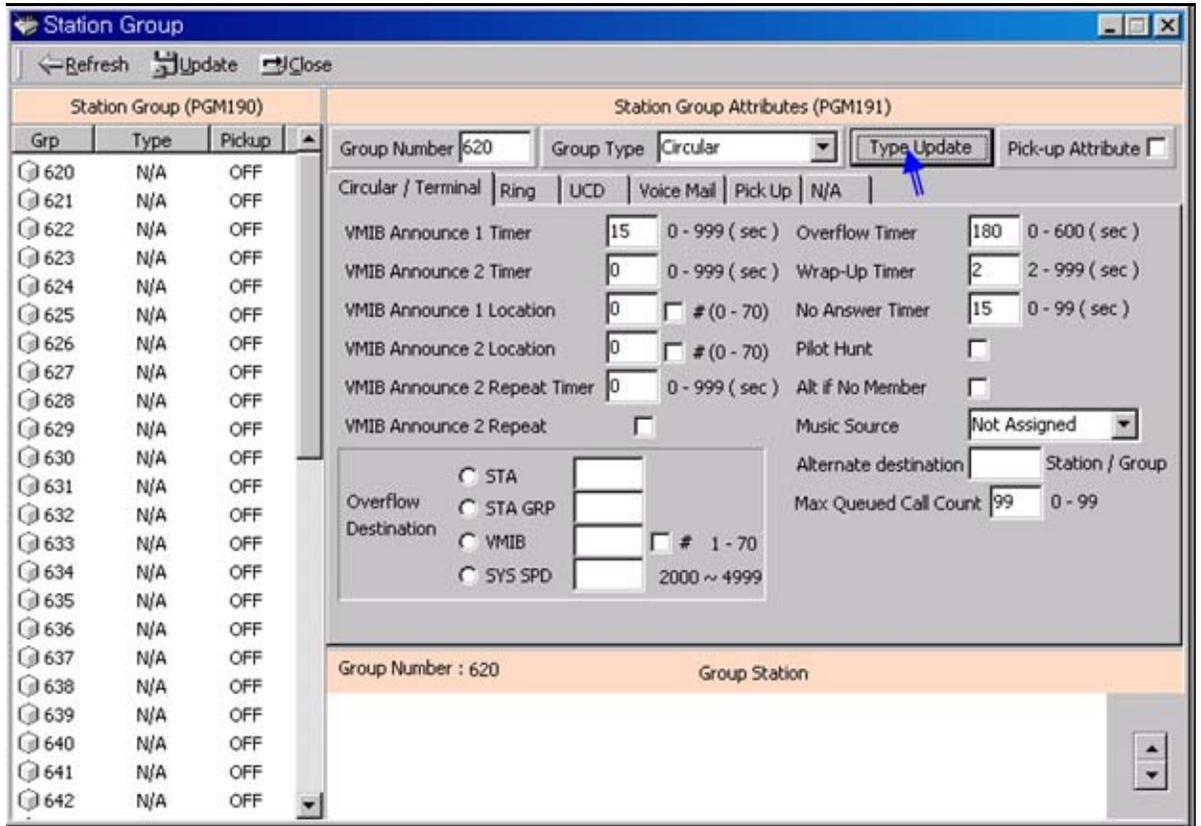


**Operation**

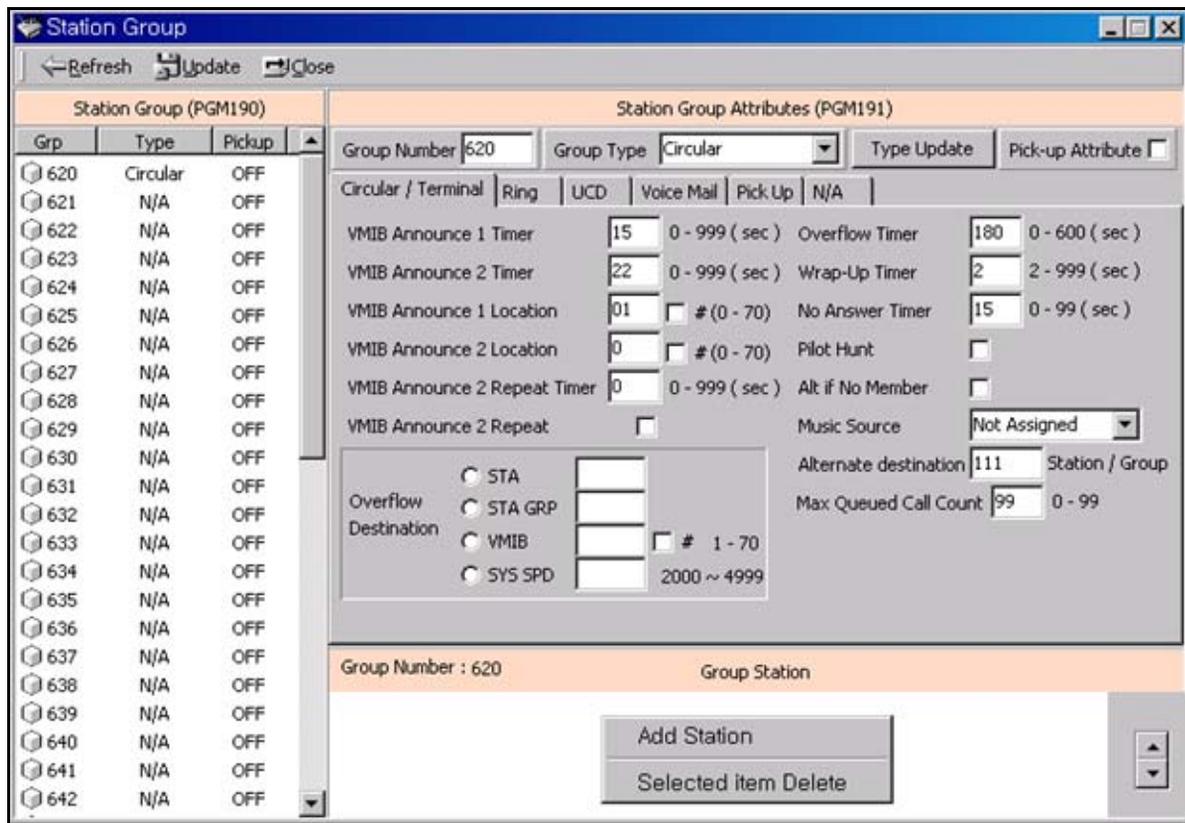
1. There are two part in window. One part is the station group number list and second is the member list and Group Attributes
2. If you select one station group in left field, the stations that are a member of the group and Group Attributes will be displayed automatically.
3. If you want add or edit the station group, change the Group type and press the "Type Update" button before pressing the "Update" button.



4. When the station group type is changed, it will display the default value of the attributes. Then, you can assign the attributes of the group.



- To modify the member, right-click the mouse in the Group Station Area (The Group Station Area is the white field in below side of the windows). Then, you will see two menus (Add/Delete)



6. To add the member, enter the station range or station number in popup menu by selecting the "Add Station".

(If you want to change the order of members, use the up/down button on the right side)

**Station Group (PGM190)**

Grp	Type	Pickup
620	Circular	OFF
621	N/A	OFF
622	N/A	OFF
623	N/A	OFF
624	N/A	OFF
625	N/A	OFF
626	N/A	OFF
627	N/A	OFF
628	N/A	OFF
629	N/A	OFF
630	N/A	OFF
631	N/A	OFF
632	N/A	OFF
633	N/A	OFF
634	N/A	OFF
635	N/A	OFF
636	N/A	OFF
637	N/A	OFF
638	N/A	OFF
639	N/A	OFF
640	N/A	OFF
641	N/A	OFF
642	N/A	OFF

**Station Group Attributes (PGM191)**

Group Number: 620 | Group Type: Circular | Type Update: [ ] | Pick-up Attribute: [ ]

Circular / Terminal | Ring | UCD | Voice Mail | Pick Up | N/A

VMIB Announce 1 Timer: 15 (0 - 999 sec) | Overflow Timer: 180 (0 - 600 sec)

VMIB Announce 2 Timer: 22 (0 - 999 sec) | Wrap-Up Timer: 2 (2 - 999 sec)

VMIB Announce 1 Location: 01 (# 0 - 70) | No Answer Timer: 15 (0 - 99 sec)

VMIB Announce 2 Location: 0 (# 0 - 70) | Pilot Hunt: [ ]

VMIB Announce 2 Repeat Timer: 0 (0 - 999 sec) | Alt if No Member: [ ]

VMIB Announce 2 Repeat: [ ]

Overflow Destination:   
 STA   
 STA GRP   
 VMIB (# 1 - 70)   
 SYS SPD (2000 ~ 4999)

**Station Add Tool**

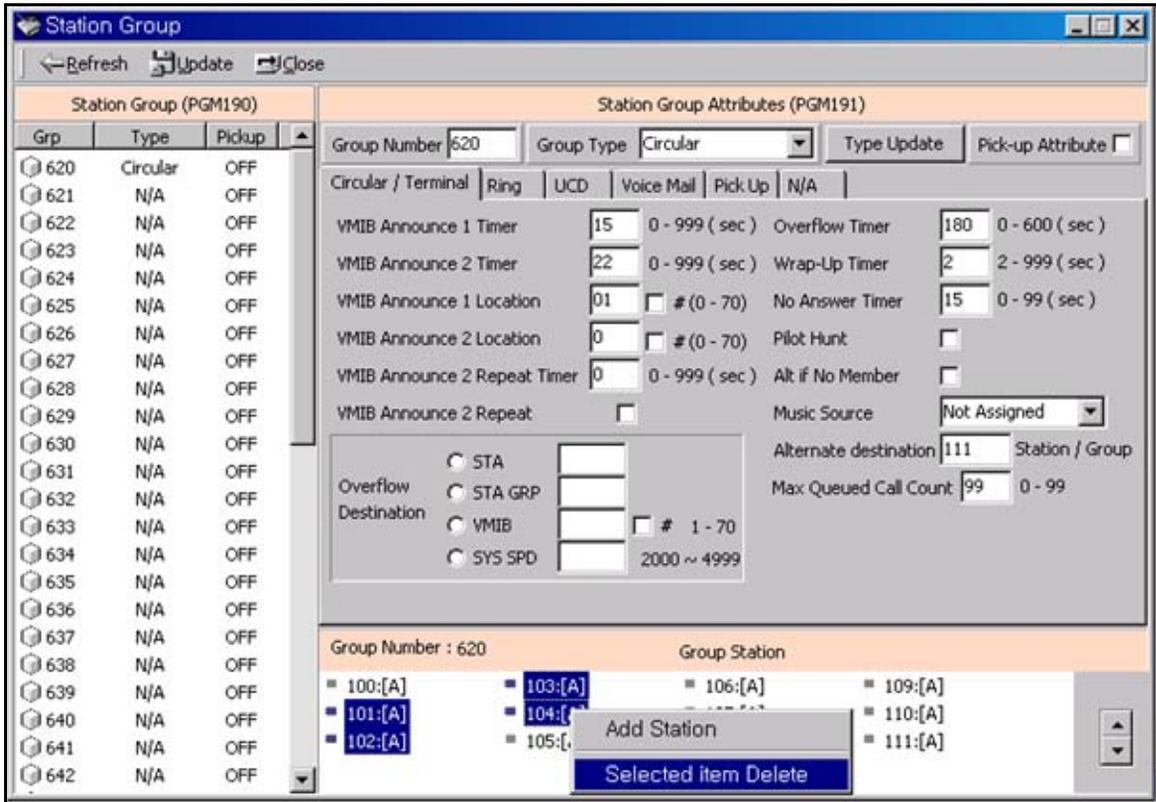
Station   
 Range: 100 - 111   
 Priority: 0 (0 ~ 9)

[Add] [Close]

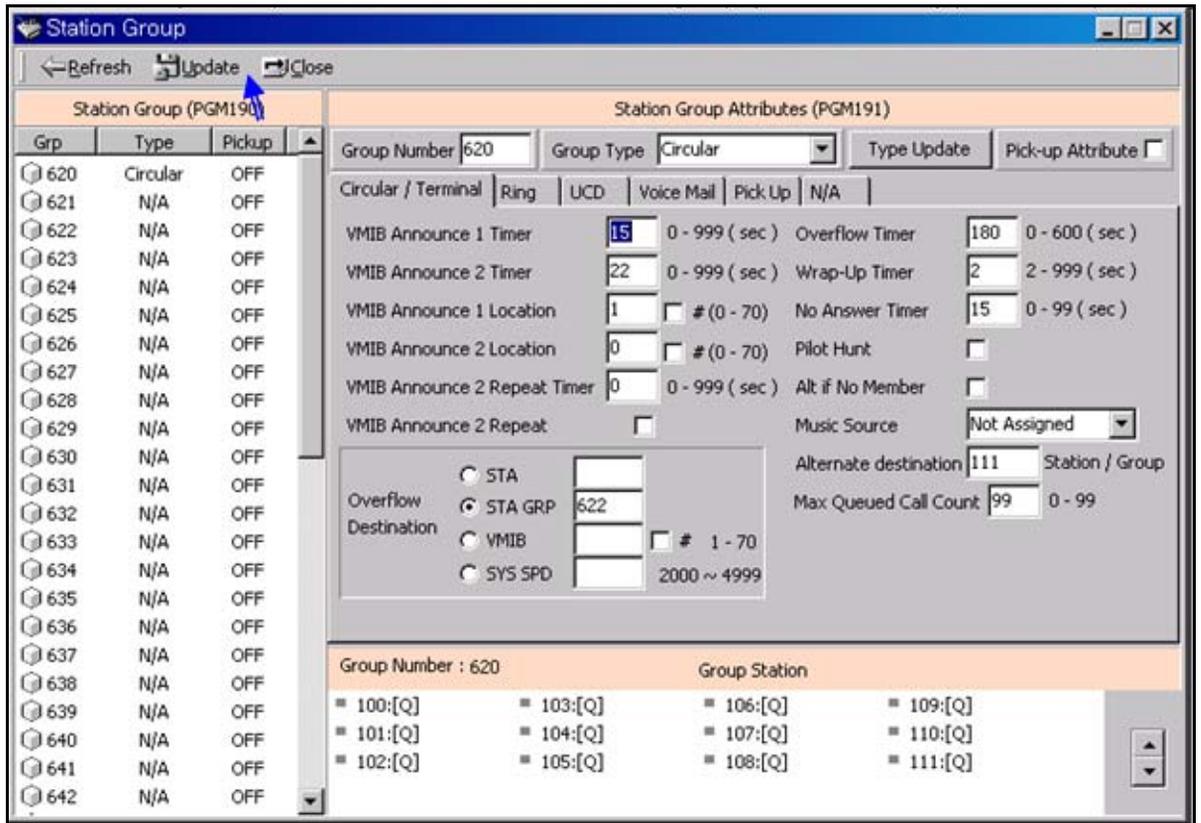
Group Number : 620 | Group Station:

100:[A]	103:[A]	106:[A]	109:[A]
101:[A]	104:[A]	107:[A]	110:[A]
102:[A]	105:[A]	108:[A]	111:[A]

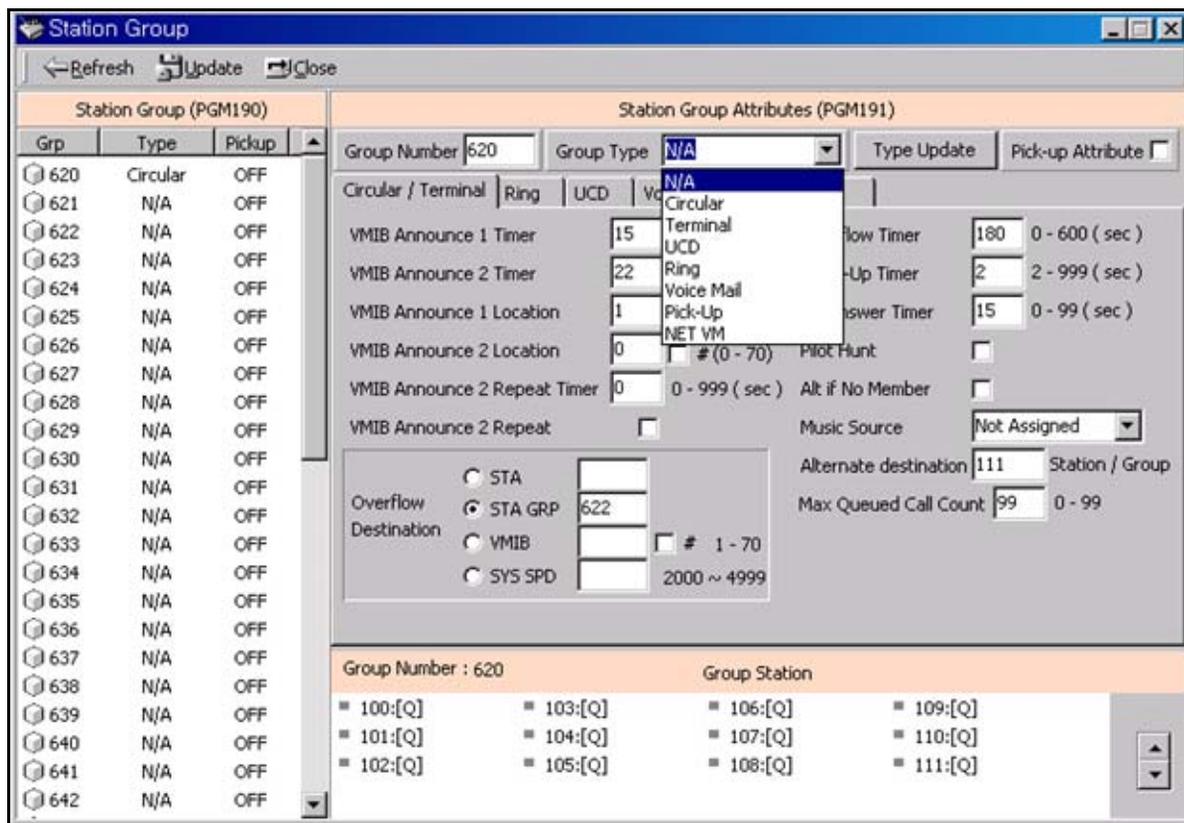
7. To delete the member, select the "Selected item delete" menu.



- When you complete the modification about the station group, press the "Update" button.



- To delete the assigned station group, select the Group Type as "N/A" and press the "Type Update" button. Then press the "Update" button.



**Station Group Type (PGM 190)**

ITEM	RANGE	DEFAULT	REMARK
Group Type	0-7	0	0: Not assigned 1: Circular 2: Terminal 3: UCD 4: Ring 5: VM 6: Pick up 7: Net VM
Pick-up Attribute	ON/OFF	OFF	OFF
Member Assignment	Not Assigned	--	Group Type must be assigned first.

**Circular/Terminal Group Attributes (PGM 191)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
VMIB Announce 1 Timer	000-999	015 (sec)	If this timer expires after a call comes into the group, the system announces the greeting, if one exists.
VMIB Announce 2 Timer	000-999	000 (sec)	If this timer expires after a call comes into the group, the system announces the VMIB, if assigned.
VMIB Announce Location 1	00-70	00 (not assigned)	This location is used to announce a greeting when the VMIB Announce 1 timer expires.
VMIB Announce Location 2	00-70	00 (not assigned)	This location is used to announce greeting when the VMIB Announce 2 timer expires.
VMIB Announce 2 Repeat	000-999	000 (sec)	The VMIB announce 2 is repeated when this timer expires (000 = not assigned).
VMIB Announce 2 Repeat Enable/Disable	ON/OFF	OFF	This is used to enable or disable the VMIB Announce 2 Repeat.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
No Answer Timer	00-99	15 (sec)	In circular hunt, calls to a station in the group will go to the station, if unavailable or unanswered in this no answer time, the call is directed to the next station in the group.
Pilot Hunt	ON/OFF	ON	A circular hunt group can be assigned with a pilot number (the station group) so that only calls to the pilot number will hunt.
Alt if no Member	ON/OFF	OFF	If there is no member on duty, an ICM call will be dropped or an incoming CO call will be routed to the Attendant.

**Circular/Terminal Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Music Source	0-9	0 (not assigned)	If music source is assigned, calling user will be heard music instead of ring back tone. 0: Not Assigned      1: Internal Music 2: External Music 1    3: Reserved 4: SLT 1                5: SLT 2 6: SLT 3                7: SLT 4 8: SLT 5                9: Hold Tone
Alternate Destination	Sta No/ Hunt No	--	When a call comes into the group and there is no available station in the group, then the call will be routed to this destination, if assigned.
Max Queue Call Count	00-99	99	This value is the maximum call count that can be queued. If the total queued call count is this value, the next queuing tried call will be disconnected
Member Forward	ON/OFF	ON	If this value is set to ON, members will be forwarded.
Queue Count Display	ON/OFF	ON	If this value is set to ON, a Hunt member can check the Queue Count.

**UCD Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
VMIB Announce 1 Timer	000-999	015 (sec)	If all stations in the group are busy when a call is received for the group, the call may continue to wait (queue) for an available station in the group. If queued, the call may be sent to a UCD announcement when the queue period exceeds the 1st announcement Timer. If the timer is set to 000 the call will receive the full first announcement prior to the hunting process (guaranteed announcement).
VMIB Announce 2 Timer	000-999	000 (sec)	The second announcement can be provided if the call continues to wait beyond the 2nd announcement timer.
VMIB Announce Location 1	00-70	00 (not assigned)	Each Station Hunt Group can be assigned an announcement, which is played when the call is first received. The announcement may be assigned as VMIB.

**UCD Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
VMIB Announce Location 2	00-70	00 (not assigned)	This location is used to announce greeting when the VMIB Announce 2 timer expires.
VMIB Announce 2 Repeat Timer	000-999	000 (sec)	The VMIB announce 2 is repeated when this timer expires (000 = not assigned).
VMIB Announce 2 Repeat Enable/Disable	ON/OFF	OFF	This is used to enable or disable the VMIB Announce 2 Repeat.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
Alt if no Member	ON/OFF	OFF	If there is no member on duty, an ICM call will be dropped or an incoming CO call will be routed to the Attendant.
Music Source	0-9	0 (not assigned)	If music source is assigned, calling user will be heard music instead of ring back tone. 0: Not Assigned      1: Internal Music 2: External Music 1    3: Reserved 4: SLT 1                5: SLT 2 6: SLT 3                7: SLT 4 8: SLT 5                9: Hold Tone
UCD Warning Tone	ON/OFF	ON	Establishes whether the ACD supervisor monitors an agent with a warning tone or without a warning tone
Alternate Destination	Sta No/ Hunt No	--	When a call comes into the group and there is no available station in the group, then the call will be routed to this destination, if assigned.
Supervisor Timer	000-999	030 (sec)	When the queued time is longer than this timer, the number of queued lines will be displayed on the supervisor's LCD.

**UCD Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Supervisor Call Count	00-99	00	If the number of queued calls is more than this call count, the supervisor timer will be started.
UCD Queued Call (Reserved)	ON/OFF	ON	(Reserved)
Max Queue Call Count	00-99	00	This value is the maximum call count that can be queued. If the total queued call count is this value, the next queuing tried call will be disconnected
Supervisor	Sta #	--	Supervisor station number
UCD Hunt Stations' Priority	0-9	0	UCD group member's priority
Member Forward	ON/OFF	ON	If this value is set to ON, members will be forwarded.
UCD DND Ring Timer	000-999	000 (sec)	If this timer set to 000 sec, this timer is not operated. If this timer is set to 010, after 10 seconds ringing the UCD member is automatically in a UCD DND state.
UCD Queued Tone	ON/OFF	OFF	--

**Ring Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
VMIB Announce 1 Timer	000-999	015 (sec)	If this timer expires after a call comes into the group, the system announces the greeting, if one exists.
VMIB Announce 2 Timer	000-999	000 (sec)	If this timer expires after call come in the group, the system announces the VMIB if assigned.
VMIB Announce Location 1	00-70	00 (not assigned)	This is used to announce greeting when the VMIB announce 1 timer expires.
VMIB Announce Location 2	00-70	00 (not assigned)	This is used to announce VMIB when the VMIB announce 2 timer expires.
VMIB Announce 2 Repeat Timer	000-999	000 (sec)	The VMIB announce 2 is repeated when this timer expires (000 = not assigned).
VMIB Announce 2 Repeat Enable/Disable	ON/OFF	OFF	This is used to enable or disable the VMIB Announce 2 Repeat.

**Ring Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Overflow Destination	Sta #/ HUNT #/ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
Music Source	0-9	0 (not assigned)	If music source is assigned, calling user will be heard music instead of ring back tone. 0: Not Assigned    1: Internal Music 2: External Music 1    3: Reserved 4: SLT 1    5: SLT 2 6: SLT 3    7: SLT 4 8: SLT 5    9: Hold Tone
Max Queue Call Count	00-99	99	This value is the maximum call count that can be queued. If the total queued call count is this value, the next queuing tried call will be disconnected
Supervisor	Sta #	--	Supervisor station number
Member Forward	ON/OFF	ON	If this value is set to ON, members will be forwarded.
Queue Count Display	ON/OFF	ON	If this value is set to ON, a Hunt member can check the Queue Count.

**Voice Mail Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Wrap-up Timer	002-999	002 (sec)	A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call and for hunt group calls for the assigned wrap-up time.
Put Mail Index	1-4	1	This index is one of the voice mail dialing tables.
Get Mail Index	1-4	2	This index is one of the voice mail dialing tables.
Hunt Type	CIRC/ TERM	TERM	1: Circular Hunt Group 0: Terminal Hunt Group
SMDI Port	--	--	<b>Not to be programmed</b>
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes into the group, the call is routed to the overflow destination.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #	--	The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.

**Pick Up Group Attributes (PGM 191)**

ITEM	RANGE	DEFAULT	REMARK
Auto Pickup	ON/OFF	OFF	If a hunt member is ringing, another hunt member can pickup automatically by pressing the [SPEAKER] button or by going off-hook.
All Ring	ON/OFF	OFF	When a hunt member that is in TONE mode is ringing, all the other stations are ringing also. The Auto Pickup feature must be set before All Ring is set.

## ISDN System Base Program

To change the ISDN related features, use PGM 200 - PGM 201.

### ISDN Attributes (PGM 200)

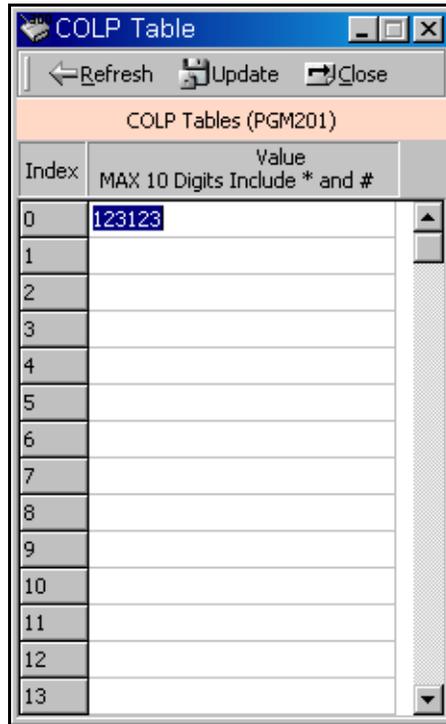
You can change the general ISDN attributes using this menu.

#### ISDN Attributes (PGM 200)

ITEM	RANGE	DEFAULT	REMARK
CO ATD	Max of 2 digits	--	According to PGM 114 - FLEX 5, CO ATD code or Extension number can be attached to the CLI, COLP message
My Area Code	Max of 6 digits	--	Local Area Code
My Area Prefix Code	Max of 4 digits	--	Prefix Code of Local Area Code

## COLP Table (PGM 201)

After you make an outgoing call through an ISDN line, you can see the number you are connected with.



Index	Value
0	123123
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	

## Tables

### LCR Assignment (PGM 220)

LCR is a function you can program to select a least-cost CO line automatically for day/night, and any specified time zone. The LCR table has four parts. In PGM 220, you can program a general database, the LCR access mode, day zone, and time zone.

#### Operation

1. Select an LCR Access Mode.
2. Duplicated day can't be assigned for different day zones.
3. For each day zone, you set up time-of-day. The time also can't be duplicated for each day zone.

The screenshot shows a software window titled "Least Cost Routing Control Attributes" with a toolbar containing "Refresh", "Update", and "Close" buttons. Below the toolbar, the window title is "Least Cost Routing Control Attribute (PGM220)".

The main configuration area includes:

- LCR Access Mode:** A dropdown menu currently set to "M00 / Disable LCR".
- Day Zone:** A grid of dropdown menus for each day of the week (Monday through Sunday), all currently set to "Zone 1".
- Time Zone 1:** A section with three rows labeled "Time of Day Zone 1", "Time of Day Zone 2", and "Time of Day Zone 3". Each row contains three input fields: a start time (e.g., 0), an end time (e.g., 24), and a range (e.g., 0-23 / 0-24).
- Time Zone 2:** A section with three rows labeled "Time of Day Zone 1", "Time of Day Zone 2", and "Time of Day Zone 3", each with the same three input fields as Time Zone 1.
- Time Zone 3:** A section with three rows labeled "Time of Day Zone 1", "Time of Day Zone 2", and "Time of Day Zone 3", each with the same three input fields as Time Zone 1.

**LCR Table (PGM 220)**

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
LCR Access	M00 M01 M02 M11 M12 M13	Disable M00)	LCR Access Mode 00 (M00): Disable LCR LCR Access Mode01 (M01): only Loop LCR. LCR Access Mode02 (M02): Internal and Loop LCR. LCR Access Mode11 (M11): Loop and Direct CO LCR LCR Access Mode12 (M12): Internal, Loop, and Direct CO LCR. LCR Access Mode13 (M13): Internal, Loop, Direct CO, and Direct Loop LCR.
Day Zone	Zone: 3 Day: 1-7	Belongs to Zone 1	First, select day and choose zone.
Time Zone	Time: 00-24	Belongs to Zone 1	The system accepts the same value for 00 and 24 and changes to "00", if 24 is input as the starting value and vice versa. *Note: The time not belonging to any zone will be considered as zone 1. *Note: 10-13 represents 10:00:00 - 12:59:59

## LCR - LDT (Leading Digit Table) Table (PGM 221)

PGM 221 is for Leading Digit Table.

### Operation

Index	LCR Type	Compared Digits Max 12 Digits Include '*', '#'	DMT 1			DMT 2			DMT 3			Check Password
			D1	D2	D3	D1	D2	D3	D1	D2	D3	
0	BOTH	1111				2	22	2				OFF
1	BOTH	3333	22	11	22							ON
2	BOTH	4444	1	1	1							OFF
3	BOTH	5555	1	25	2							ON
4	BOTH											OFF
5	BOTH											OFF
6	BOTH											OFF

Index : 0 Update

LCR Type: BOTH

Compared Digits: 1111

Check Password: OFF

DMT1 D1: [ ] D2: [ ] D3: [ ]

DMT2 D1: 2 D2: 22 D3: 2

DMT3 D1: [ ] D2: [ ] D3: [ ]

1. Select a LCR type (INT, COL, BOTH)
2. Enter Leading Digits (it's a 12-digit no.to compare with a no. a user dialed previously).
3. Set up [Day Zone] in DMT index.

### Leading Digit Table (PGM 221)

ITEM	RANGE	DEFAULT	REMARK
LCR Type	(1)INT (2)COL (3)BOTH	BOTH	INT: look up this entry only for internal dialing. COL: look up this entry only after dialing CO Access Code. BOTH: look up this entry for both INT and COL.

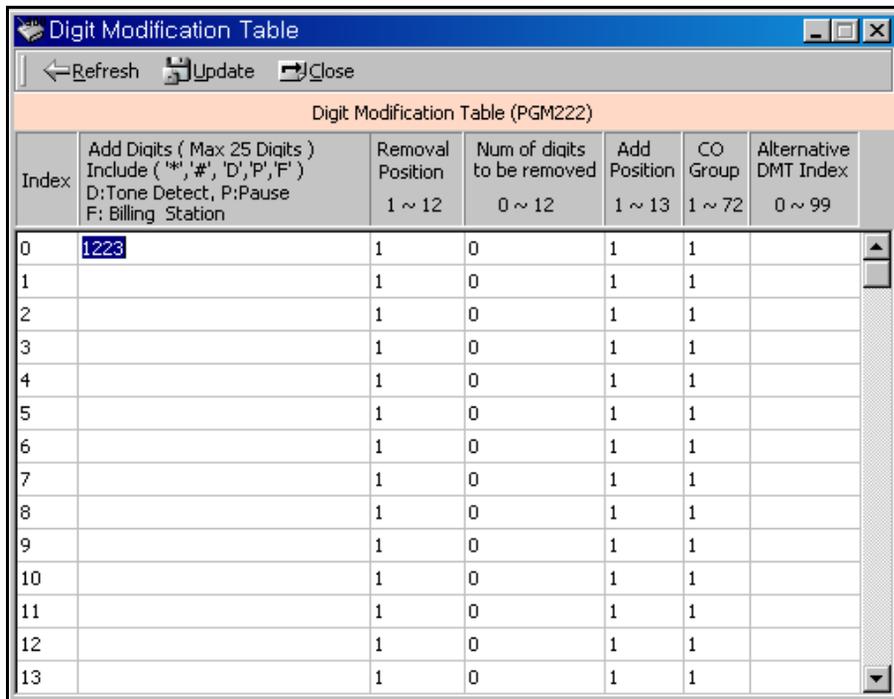
**Leading Digit Table (PGM 221)**

ITEM	RANGE	DEFAULT	REMARK
CD	12 digits	None	To be compared with the dialed digits by a user.
DMT Index	Each value 00-99	None	Day Zone 1, 2, 3 has 3 time zone DMT indexes (6 digits)

**LCR - DMT Table (PGM 222)**

PGM 222 is the Digit Modification Table.

**Operation**



1. Added Digit Stream : 25 Digits maximum.
2. Removal Position : Select a position to remove (1-12).
3. Number of digits to be removed : Select the number to be deleted (1-12).
4. Add Position : Select a position to be added (1-13).
5. CO Group : Select a CO Group (1-24).

- Alternative DMT index : If there is no CO group to select, select alternative DMT index to be used.(0-99).

#### Digit Modification Table (PGM 222)

ITEM	RANGE	DEFAULT	REMARK
Bin Number	00-99	--	--
Added Digit Stream	25 digits	None	Normal digits (0-9, *, #) Special characters: [CALLBK]: Pause [DND/FOR]: Dial-tone-detection instead of pause [FLASH]: Billing code (Extension Number)
Removal Position	01-12	01	Index to CD stream in Lead table to be removed
Number of Digits to be Removed	00-12	00	Remove digits in CD stream up to this amount
Add Position	01-13	01	Establishes the position of the CD stream after removal, where the stream will be inserted.
CO Group	01-24	01	Establishes which CO group is used for LCR dialing
Alternative DMT Index	00-99	None	Establishes an alternative DMT index when there is no idle CO line in CO group.

### LCR Table Initialization (PGM 223)

It initializes Day Zone 1,2,3 in LDT, and all CO groups in DMT.

#### Operation

- Click [LCR Table Initialization]. Click [Day Zone](1-3). Select a DMT index (0-99), then press the [Initialize] button to initialize.
- Select a CO group (1-24), and Click the [Initialize] button that is located below Initialize CO Group area.
- Select an alternative DMT index (1-99), and click the [Initialize] button of the Initialize Alternative DMT Index area.
- Click [Initialize All LCR Table] to initialize all LCR tables.

## Toll Exception (PGM 224)

Toll tables are used to have access to certain toll-free calls as well as being denied certain calls for the stations assigned STATION COS. Exception table A & B allow the station that is programmed in STA COS 2, 3, & 4 to have access to certain toll free calls as well as being denied certain calls.

The Allow/Deny Tables are organized into 2 sets of tables to support 2 different toll plans at one installed site. Each allow/deny table may contain up to 30 number strings. All bins of allow and deny tables have no entries by default. Each number string can contain up to 14 entries including any number 0-9, \*, #, "Don't care".

The following rules should be remembered when setting up the Allow/Deny Tables:

- If the tables have no entries, no restriction is applied.
- If entries are made in the allow table and only there, then only those numbers are allowed.
- If entries are made in the deny table and only there, then only those numbers are denied.
- If there are entries in both tables, the allow table is searched at first and if number is found, it is allowed. If not found, the deny table is searched and if number is found, it is denied. If it is not found in either table, it is allowed.

### Allow/Deny Rules (PGM 224)

ENTRY		CONDITIONS & RESULT	
ALLOW	DENY	ALLOW TABLE	DENY TABLE
Not Exist	Not Exist	No Restriction	No Restriction
Exist	Not Exist	Found - allowed Not found - denied	--
Not Exist	Exist	--	Found - denied Not found - allowed
Exist	Exist	Found - allowed Not found - check deny table	Found - denied Not found - allowed

**Operation**

Click [Toll Exception]. Select table(allow or deny).

Index	Value
1	123123
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

## Canned Toll Table (PGM 225)

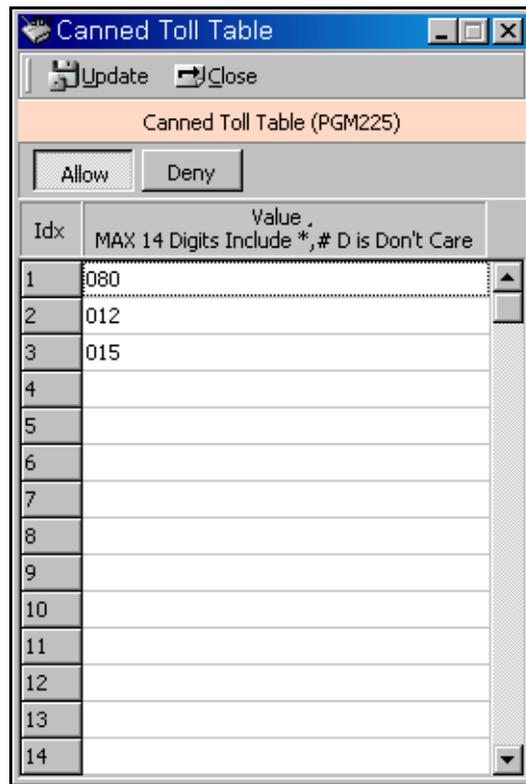
The Allow/Deny Tables are organized to support 2 different toll plans at one installed site. You can set the Allow/Deny Table which is applied to station COS 5, 6. The number of entries in a table is 20, and 14 digits maximum including any number 0-9, \*, #.

### Operation

Click [Canned Toll Table], then select [ALLOW] or [DENY].

**Canned Toll Table (PGM 225)**

ITEM	ENTRY	DEFAULT	REMARK
ALLOW	01-20	--	Max digits: 14
DENY	01-20	--	Max digits: 14

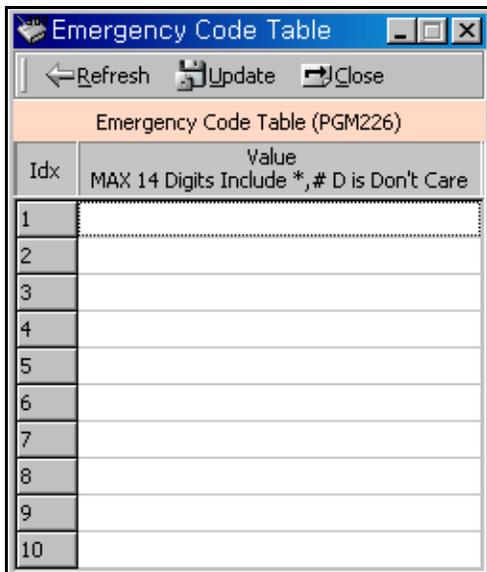


## Emergency Code Table (PGM 226)

Regardless of STA COS, an emergency call can be made through a service code. You can make 10 service codes for emergency use.

### Operation

Click [Emergency Code Table].



## Authorization Code Table (PGM 227)

Authorization code table entries consist of each station password and extra account codes. The table entry from 001 to the maximum capacity of station numbers are saved as the password of each station. The remaining are extra entries.

CO Line Groups can be marked to deny access until a matched Authorization code is entered. In this case, DND warning tone is provided when the CO Line Group access code is dialed. If the dialed Authorization code is verified, you will hear CO dial tone. Otherwise, you will hear an error tone and you cannot access the group. Stations or Admin programming can enter the authorization codes. An authorization code is a flexible length from 3 digits to 11 digits. The Administrator can see and change a station's password. There can be no duplicate entries. By default, Authorization Codes are not assigned.

### Operation

Click [Authorization Code Table].

If a password is registered in the system, it will be shown.

Idx	Code ( 3 -11 Digits )	Day COS	Night COS
1		1	1
2	123123	1	1
3		1	1
4		1	1
5		1	1
6		1	1
7		1	1
8		1	1
9		1	1
10		1	1
11		1	1
12		1	1
13		1	1
14		1	1
15		1	1

## Customer Call Routing (PGM 228)

According to voice guidance, an outside caller may be connected to a certain destination, and hear another voice message by pressing a keyset button.

### Operation

Select a CCR table number (01-70), and press the [Refresh] button. You will see 10 entry indexes in the [CCR Table].

Customer Call Routing Table (PGM228)

Routing Table Index: 1 (dropdown) 1 - 70

Destination	Type	Value
1 Destination	Station	111
2 Destination	Hunt Group	620
3 Destination	System Speed	2222
4 Destination	All Call Page	1
5 Destination	N/A	
6 Destination	N/A	
7 Destination	N/A	
8 Destination	N/A	
9 Destination	N/A	
10 Destination	N/A	

Range w.r.t Type

- Station ( Station Number )
- Hunt Group ( Hunt Group Number )
- WMIB ( 1 - 70 )
- WMIB Drop ( 1 - 70 )
- System Speed ( 2000 - 4999 )
- Internal Page ( 1 - 30 )
- External Page ( 1 - 3 )
- All Call Page ( 1 - 3 )
- NET DSS
- CONF ROOM ( 1 - 9 )

**Customer Call Routing Table (PGM 228)**

TYPE (DIGIT)	TYPE	RANGE	DEFAULT	REMARK
1	Station	Station #	--	--
2	Hunt Group	Hunt #	--	--
3	VMIB	Announce #	--	--
4	VMIB DROP	Announce #	--	--
5	System Speed	2000-2499	--	--
6	Internal Page	1-5	--	--
7	External Page	1	--	--
8	All Call Page	1	--	--
9	Net Number	Valid Net #	--	A valid net number must be entered. Networking programming must be done to use this field.
10	Conference Room	1-9	--	--

## Executive/Secretary Table (PGM 229)

There are a number of Executive/Secretary pairs available for assignment so that when the executive designated station is in DND state, intercom calls and transfers will be automatically routed to the designated secretary station. By default, Executive/Secretary pairs are not assigned. The system supports 36 Executive/Secretary pairs.

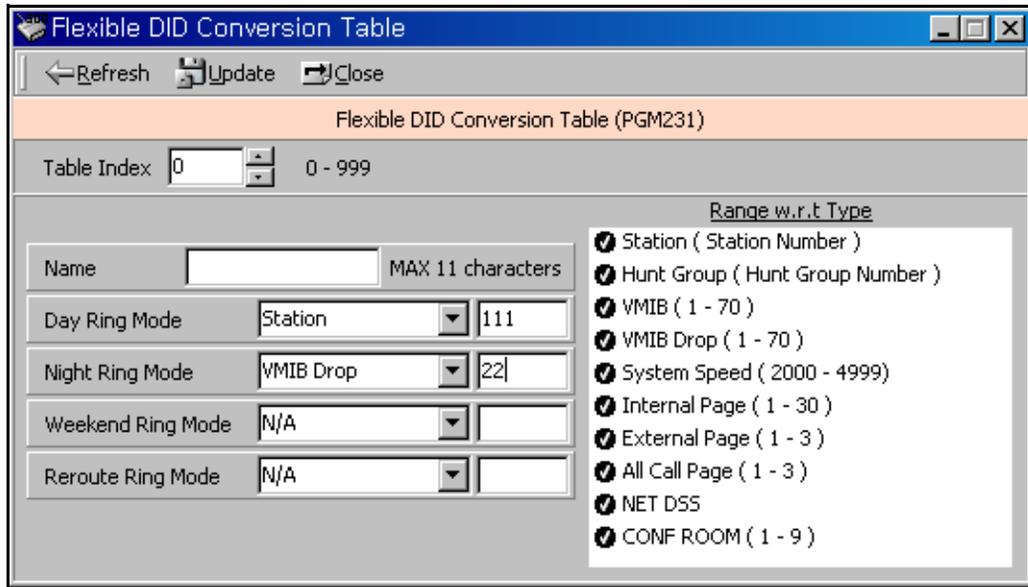
### Operation

Executive / Secretary Table (PGM229)					
Idx	Executive	Secretary	CO Call To Sec	Call Exec If Sec DND	Exec Grade(1-12)
1			OFF	OFF	0
2			OFF	OFF	1
3			OFF	OFF	2
4			OFF	OFF	3
5			OFF	OFF	4
6			OFF	OFF	5
7			OFF	OFF	6
8			OFF	OFF	7
9			OFF	OFF	8

## Flexible DID Table (PGM 231)

This table is for flexible DID table service.

### Operation



**Flexible DID Table (PGM 231)**

ITEM	RANGE	DEFAULT	REMARK
DID Name	1-11 Chars	None	Max of 11 characters
Day Destination	STA # / Hunt # / VMIB #	Sta # Or NULL	00-70 (00: NOT_ASG)
	VMIB # drop		00-70 (00: NOT_ASG)
	SPD		2000-2499
	Int Page		1 - 5
	Ext Page		1
	All Page		1
	Net Number		Programmed valid Net number
	Conf. Room		1-9
	STA VM	Sta #	

## Flexible DID Table (PGM 231)

ITEM	RANGE	DEFAULT	REMARK
Night Destination	STA # /	Sta #	
	Hunt # /	Or	
	VMIB #	NULL	00-70 (00: NOT_ASG)
	VMIB # drop		00-70 (00: NOT_ASG)
	SPD		2000-2499
	Int Page		1 - 5
	Ext Page		1
	All Page		1
	Net Number		Programmed valid Net number
	Conf. Room		1-9
	STA VM	Sta #	
Weekend Destination	STA # /	Sta #	
	Hunt # /	Or	
	VMIB #	NULL	00-70 (00: NOT_ASG)
	VMIB # drop		00-70 (00: NOT_ASG)
	SPD		2000-2499
	Int Page		1 - 5
	Ext Page		1
	All Page		1
	Net Number		Programmed valid Net number
	Conf. Room		1-9
	STA VM	Sta #	
Reroute Destination	STA # /	Sta #	
	Hunt # /	Or	
	VMIB #	NULL	00-70 (00: NOT_ASG)
	VMIB # drop		00-70 (00: NOT_ASG)
	SPD		2000-2499
	Int Page		1 - 5
	Ext Page		1
	All Page		1
	Net Number		Programmed valid Net number
	Conf. Room		1-9
	STA VM	Sta #	

## System Speed Zone (PGM 232)

You can sort system speed dials by up to 10 zones and use them for station COS checking and a status of each station.

### Operation

Idx	Speed Bin Range in Zone ( start )	Speed Bin Range in Zone ( end )	Toll Checking	Auth Checking	Station	Station List
1	2200	4999	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	100	Station Update
2			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	101	
3			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	102	
4			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	103	
5			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	104	
6			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	105	
7			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	106	
8			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	107	
9			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	108	
10			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	109	
					110	

1. Enter the speed bin range in zone fields (2000-2499).
2. Select Toll Checking (On/Off). When you use a station range to access a zone, check station COS and determine to restrict according to the Access/Deny table.
3. Click the [Update] button.

### Flexible DID Table (PGM 232)

ITEM	RANGE	DEFAULT	REMARK
Speed Bin Range in Zone	2200-2499	--	Each zone is exclusive (2000 - 2199: Toll Free Zone)
Station Range to Access Zone	Station #	100-131 --	
Toll Checking	YES/NO	YES(ON) --	
Auth Check	YES/NO	YES(ON) --	

## Weekly Time Table (PGM 233)

You can set day/night/weekend start time for each day. A total of 15 entries are possible. Weekend is after 6 o'clock on Friday.

### Operation

Click [Weekly Time Table], then select a number (1-15).

Day	Day Ring mode Start time	Night Ring mode Start time	Weekend Ring mode Start time
Monday	0900	1800	
Tuesday	0900	1800	
Wednesday	0900	1800	
Thursday	0900	1800	
Friday	0900		1800
Saturday			0000
Sunday			0000

**Comment**  
Must be 4 Digits (HHMM)  
0000 - 2359

### Weekly Time Table (PGM 233)

ITEM	DEFAULT	REMARK
Day		Day ring mode start time (HH:MM)

**Weekly Time Table (PGM 233)**

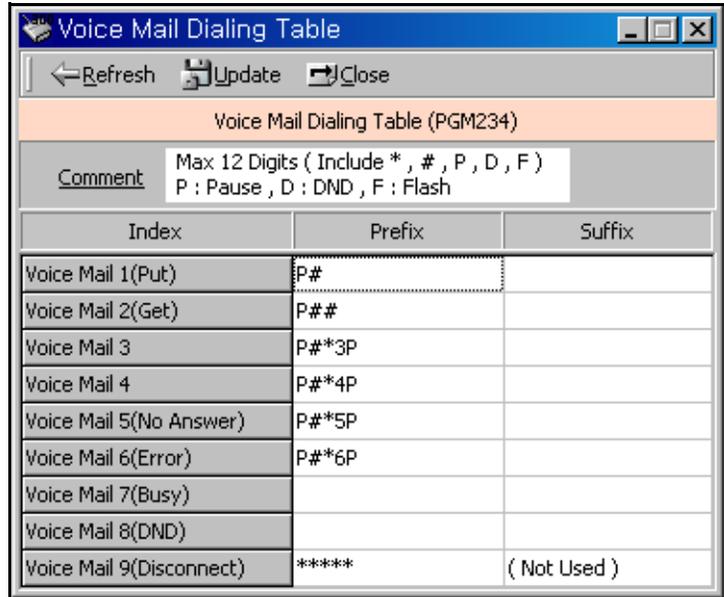
ITEM	DEFAULT	REMARK
Night		Night ring mode start time (HH:MM)
Weekend		Weekend ring mode start time (HH:MM)

**Voice-Mail Dialing Table (PGM 234)**

Apply this feature to use voice mail, and signal assignment between two systems.

It is recommended that you leave the settings at their default values.

**Operation**



**Voice Mail Table (PGM 234)**

DIGIT	ITEM	DEFAULT	REMARK
1	VM Table 1	Prefix: P# Suffix: -	Put Mail
2	VM Table 2	Prefix: P## Suffix: -	Get Mail
3	VM Table 3	Prefix: - Suffix: -	
4	VM Table 4	Prefix: P#*0P Suffix: -	

**Voice Mail Table (PGM 234)**

<b>DIGIT</b>	<b>ITEM</b>	<b>DEFAULT</b>	<b>REMARK</b>
5	VM Table 5	Prefix: P##4P Suffix: -	No Answer Table
6	VM Table 6	Prefix: P##5P Suffix: -	Error Table
7	VM Table 7		Busy Table
8	VM Table 8		DND Table
9	VM Table 9	*****	Disconnect Table

### Mobile Extension Table (PGM 236)

Idx	Enable	CO Grp No	Number (Max 24)	CLI (Max 16)
1	OFF	1		
2	OFF	1		
3	OFF	1		
4	OFF	1		
5	OFF	1		
6	OFF	1		
7	OFF	1		
8	OFF	1		
9	OFF	1		
10	OFF	1		
11	OFF	1		
12	OFF	1		
13	OFF	1		
14	OFF	1		
15	OFF	1		
16	OFF	1		
17	OFF	1		
18	OFF	1		

**Mobile Extension Table (PGM 236)**

BTN	ITEM	RANGE	DEFAULT	REMARK
	Mobile Ext. Table Bin No.	001-048	--	
1	Mobile Ext. Enable	ON/OFF	OFF	
2	Mobile Ext. CO Grp	1-12	N/A	
3	Mobile Ext. Tel No.	Max 24	N/A	
4	CLI	Max 16 digits	N/A	
5	Mobile Hunt Call	ON/OFF	OFF	
6	Voice MSG Wait Notice to Mobile	ON/OFF	OFF	
7	Usage	ON/OFF	OFF	

## Local Code Table (PGM 204)

You can assign the local codes in this table. The local code entered in this table will be deleted in SMDR print. The telephone no. with this code will not be recognized as a long distant call.

The available code value is numbers and digits (0-9, \*, #) and is limited to a maximum length of 5.

## Incoming CLI Destination Table (PGM 237)

An incoming DID destination can be associated with the incoming CLI. If a CLI number is registered and assigned a destination within the Incoming CLI Destination Table, all DID calls with this CLI will be routed to the corresponding destination.

- Note:**
- This feature is supported only when the CO type is set as DID.
  - This feature is executed first, when system receives a DID call with CLI.

(PGM 237)				
BTN	ITEM	RANGE	DEFAULT	REMARK
1	CLI Number	001-100	--	
2	Conversion Index Table	--	--	

## Voice Mailbox COS (PGM 238)

The system provides administrative options to create COS for voice mailboxes. These COS can then be programmed to stations/mailboxes on an individual basis. Up to 5 COS may be programmed. NOTES: The default Class of Service for all mailboxes is 1. The parameters in COS 1 contain all default settings.

(PGM 238)				
BTN	ITEM	RANGE	DEFAULT	REMARK
1	Greeting Length	00-99	15	
2	Message Record Time	001-600 secs	300	
3	Number of Messages	01-250	50	
4	Message Retention Time	01-99 days	15	
5	E-mail Notification	Enable/Disable	Disable	
6	Future Delivery	Enable/Disable	Disable	
7	Confirm Message Receipt	Enable/Disable	Disable	
8	Private Message Mark	Enable/Disable	Enable	

## VoIP Programming

### VoIP Programming (PGM 340)/Gate Keeper Attributes (PGM 341)

You can program the VoIP configuration/GK Attributes with PC Admin.

#### Operation

1. Select the VoIB board number. If selected board number is not VOIB, the program will display error message. This menu is valid only for VOIB.
2. After selecting the board number, press the [Refresh] button. The first time, the whole data are the default value.

It is the same as Network Setting (PGM108) to enter the IP address, gateway address, subnet mask. For the correct value, you should ask the network administrator about this information. You should ask the network administrator for the DNS address. Trace password is 10 digits password for tracing data. Numeric value and characters are all available up to 10 digits.

3. To save the data, press the [Update] button.

## SIP Attributes 1 & 2

The image shows a screenshot of a software dialog box titled "SIP Attributes 1". The dialog has a standard Windows-style title bar with minimize, maximize, and close buttons. Below the title bar is a toolbar with three icons: a left-pointing arrow labeled "Refresh", a floppy disk icon labeled "Update", and a close icon labeled "Close". The main area of the dialog is titled "SIP Attributes - I" and contains several configuration fields and checkboxes:

- Proxy Server Address: An empty text input field.
- Proxy Server Port No: A text input field containing the value "5060".
- Proxy Registration Timer: A text input field containing the value "1800".
- Use OutBound Proxy: A checkbox that is checked.
- Primary DNS Address: An empty text input field.
- Secondary DNS Address: An empty text input field.
- Domain: An empty text input field.
- Connection Mode: A dropdown menu currently set to "UDP".
- 100rel support: A checked checkbox.
- Use Report Method: An unchecked checkbox.
- Use Single Code Only: A checked checkbox.

## Operation

A Proxy Server Address can be assigned text data or an IP address. The maximum length of this field is 32 characters. You must enter the proxy server address if you are using a proxy server in your SIP application.

A primary and secondary DNS address can be entered the same as a proxy server address. You can enter an IP address or text of up to 32 characters.

You can also leave these fields empty.

The screenshot shows a window titled "SIP Attributes II" with a standard Windows interface. At the top, there are three buttons: "Refresh", "Update", and "Close". Below the buttons, the window title "SIP Attributes II" is repeated. The main area contains several input fields:

- Bin No:** A numeric input field containing the value "1".
- User ID:** A text input field, currently empty, with a "(Max 64 Char)" label to its right.
- Authentication User Name:** A text input field, currently empty, with a "(Max 64 Char)" label to its right.
- Authentication User Password:** A text input field filled with asterisks, with a "(Max 64 Char)" label to its right.
- Authentication Passwd Repeat:** A text input field, currently empty, with a "(Max 64 Char)" label to its right.
- Contact Number:** A text input field containing "001", with a "(DID/STN No)" label to its right.
- User ID Registration:** A dropdown menu currently set to "Register".
- User ID Usage:** A checkbox that is checked.
- Asc STN NO:** A text input field containing "0".

A User ID, Authentication User Name, and Authentication User password can be entered as text and numeric data. The maximum length of these fields is 64 characters.

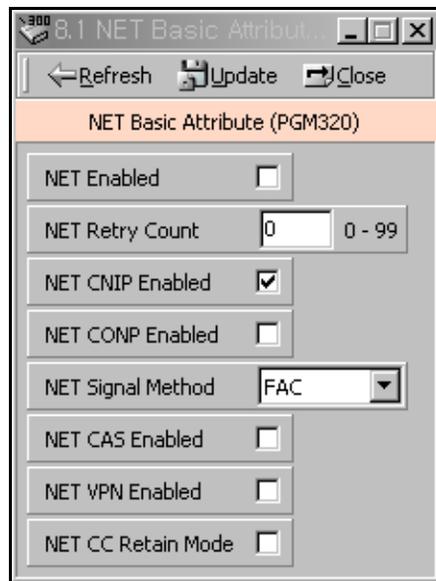
The type of Contact Number should be numeric. Otherwise, PCADM will display an error message.

An Authentication user Password Repeat is used to confirm the user password. If there is no user password, this field should be empty. If password exists, you should enter the same value in this repeat field.

## Networking Programming

You can program for networking SBX IP systems. The programming number range is from PGM 320 to PGM 324.

### Networking Attributes (PGM 320/PGM321)



**Networking Basic Attribute (PGM 320)**

BTN	ITEM	RANGE	DEFAULT	REMARK
1	Network Enable	ON/OFF	OFF	Enable Networking function
2	Network Retry Count	00-99	00	No need at direct connection between SBX IP systems. This field is available at connection through the public network.
3	Network CNIP Enable	ON/OFF	ON	The name of the calling station is sent to the called system between SBX IP systems. CNIP is displayed at called party stations display based on the programming.
4	Network CONP Enable	ON/OFF	OFF	Reserved
5	Network Signal Method	FAC/UUS	FAC	Select the information element type for QSIG supplementary service message.

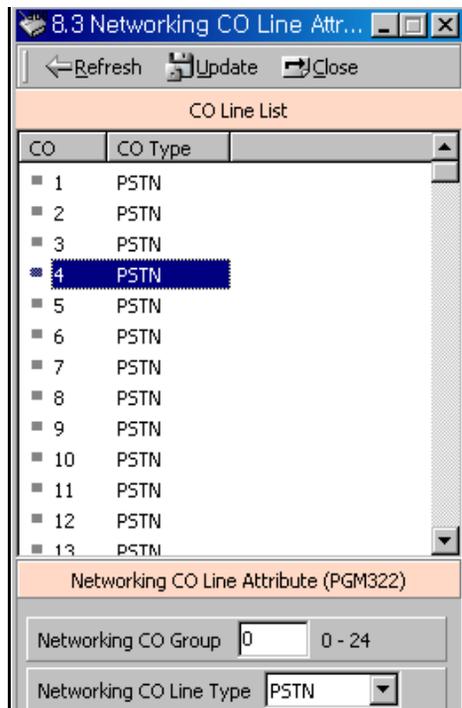
**Networking Basic Attribute (PGM 320)**

BTN	ITEM	RANGE	DEFAULT	REMARK
6	Net CAS Enable	ON/OFF	OFF	Enable Centralized attendant In master system, CAS should be disabled.
7	Net VPN Enable	ON/OFF	OFF	Enable the VPN function
8	Net CC Retain Mode	ON/OFF	OFF	--

**Networking Supplementary Attribute (PGM 321)**

BTN	ITEM	RANGE	DEFAULT	REMARK
1	Networking Transfer Mode	RERT/JOIN	REROUT	Only Transfer by Rerouting is possible
2	TCP Port	0000-9999	9000	TCP port for BLF message
3	UDP Port	0000-9999	9001	UDP port for BLF message
4	BLF Manager IP Address	12 digits	0.0.0.0	IP Address of BLF manager for BLF service
5	Duration of BLF Status	01-20 sec	02	Duration of BLF status message
6	Multicast IP Address	12 digits	0.0.0.0	IP address of Multicast for BLF service
7	Net Trans Fault Recall Timer	001-300	010	Network transfer fault recall timer
8	VOIP Call Reroute CO Group	00-24	00	Used to set the CO group of gatekeeper.

## Networking CO Line Attribute (PGM 322)



### Networking CO Line Attribute (PGM 322)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	Net CO Group	00-24	00	Networking CO group programming for Networking call
2	VOIB Mode	H.323/SIP	--	This admin program establishes which protocol is used among H.323 or SIP at each VOIP CO line
3	Gatekeeper Usage	ON/OFF	OFF	
4	Net CO Line Type	QSIG/PSTN	PSTN	
5	DTMF Mode	2 = INBAND DTMF 3 = RFC2833 DTMF 4 = Outband DTMF		This Admin program determines DTMF Mode at each VOIP CO line

## Network Numbering Plan Table (PGM 324)

**Network Numbering Plan Table (PGM 324)**

BTN	ITEM	RANGE	DEFAULT	REMARK
1	System Usage	NET/PSTN	NET	--
2	Net Numbering Code	16 digits	--	"*" means any digits can be inserted between 0-9. The digits followed by "#" is an internal station number.
3	Net Number CO Group	00-24	--	"00" means an internal net station number.
4	CPN or IP Information	16 digits	--	CPN for ISDN, IP address for VoIP A max of 4 VOIB IP addresses can be programmed.
5	Alternate Dial Bin	2000-2499	--	Alternate Dial Number (System Speed Bin) that the system uses when the networking path has a fatal problem.
6	Destination MPB IP	IP Address	--	IP Address of destination system to support DECT mobility service.
7	Digit Repeat	Yes/No	No	If this PSTN number is not connected with a PSTN line directly, but connected by another networking system, set Digit Repeat to YES.
8	CO Add Code CLI	On/Off	Off	Use CO Attendant Code for CLI or use NET CLI.

## RSG/IP Phone Programming

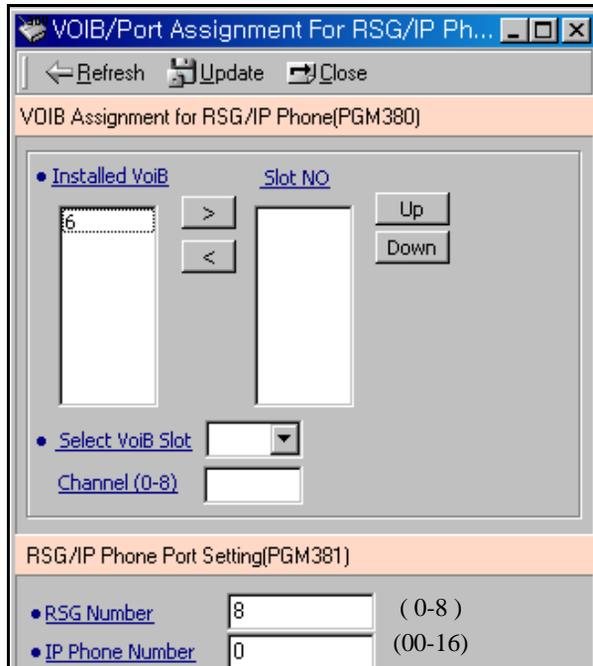
### VOIB Slot Assignment for RSG/IP Phone (PGM 380)

### RSG/IP Phone Port Number Assignment (PGM 381)

The RSG/IP Phone receives call service through VOIB..

Then the VOIB for RSG/IP can be assigned.

If several boards are assigned, please assign the first VOIB slot on STA/COL Board in PGM 103



#### VOIB Slot Assignment for RSG/IP Phone (PGM 380)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	VOIB Slot for RSG/IP Phone	--	--	VOIB slot assignment for RSG/IP Phone
2	RSG/IP Channel Assign	--	N/A	--

#### Port Number for RSG/IP Phone (PGM 381)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	RSG No	0-8	0	--
2	IP Phone Number	00-16	00	The IP Phone number to be serviced from the system.

## RSG / IP Phone Attribute (PGM 382)

The following allows you to set the attributes of the RSG/IP Phone.

**RSG/IP Phone Attributes (PGM 382)**

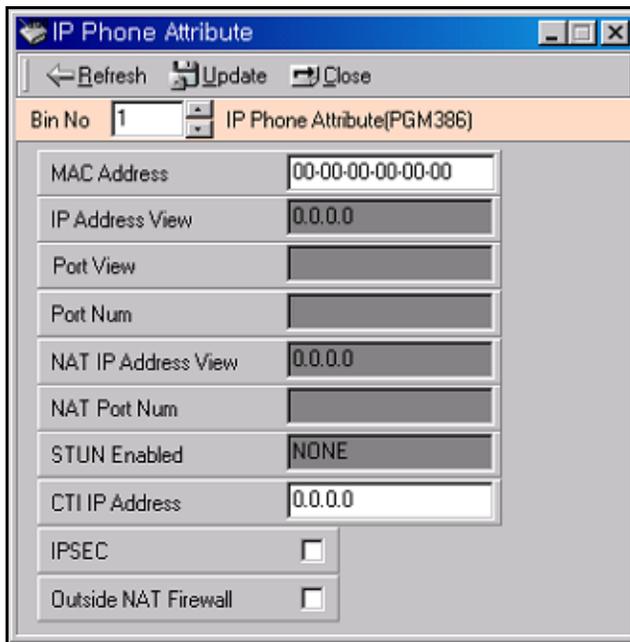
BTN	ITEM	RANGE	DEFAULT	REMARK
1	Transfer Mode	IP or MAC	IP	--
2	Casting Mode	Unicast or Multicast	Unicast	--
3	Tone Generation	Remote (RSG/IP Phone)	Remote	--
4	Peer to Peer	ON/OFF	ON	--
5	Codec Type	G.711_ALAW(0)/ G.711_ULAW(1)/ G.723.1(2) / G.729(3) / G.729A(4)	G.711_ALAW(0)	--

**RSG/IP Phone Attributes (PGM 382)**

BTN	ITEM	RANGE	DEFAULT	REMARK
6	First Access RSG CO	ON/OFF	ON	If the field is set, the station on RSG can access a CO line on his RSG by dialing the CO Line access code in the 1st available CO group (ex> 9).
7	Ring w/o CO Ring Assign	ON/OFF	ON	If the field is set, stations on RSG will receive the incoming CO ring even though the CO ring is not assigned.

**IP Phone Attribute (PGM 386)**

The following allows you to set the attributes of an IP Phone.



## IP Phone Attributes (PGM 386)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	Set MAC Address	--	00.00.00.00.00. 00	[*]: A / [#]: B [CB]: C / [MUTE]: D [DND]: E / [FLASH]: F
2	IP Address Display	--	0.0.0.0	Display Only
3	Port View	--	N/A	Display Only
4	Port Number	--	N/A	Display Only
5	NAT IP Address Display	--	0.0.0.0	Display Only
6	NAT Port Number	--	0	Display Only
7	Stun Enabled	--	None	Display Only
8	CTI IP Address (Skip: #)	--	0.0.0.0	--
9	IPSEC Usage	ON/OFF	OFF	--
10	Outside NAT Firewall	ON/OFF	OFF	--
11	User ID	Max of 12 characters		Can be used by Nomad SP user
12	User Password	Max of 12 characters		Can be used by Nomad SP user

## RSG RX Gain Control (PGM 390/392/394/396)

The RX gain on the RSG can be adjusted.

RSG Rx Gain Control (PGM39X)

Comment: Value Range : 0 - 63

From	DKT	SLT	CTRSL	WKT	ACD	CTRCD	DCD	DVU	DTMF	TONE	MUSIC1	MUSIC2	RSG_DKT	RSG_SLT	RSG_LCD	IP_PHN
DKT	26	33	22	26	33	22	33	29	8	32	29	29	26	22	22	26
SLT	32	43	32	32	41	32	44	40	28	38	40	40	32	32	32	32
LCD	28	43	32	31	41	32	38	37	26	37	37	37	28	32	32	32
IP Phone	26	33	22	26	33	22	33	29	8	32	29	29	26	22	22	26

## RSG TX Gain Control (PGM 391/393/395/397)

The TX gain on the RSG can be adjusted.

RSG Tx Gain Control (PGM39X)

Comment: Value Range : 0 - 63

To	DKT	SLT	CTRSL	WKT	ACD	CTRCD	DCD	DVU
DKT	26	33	22	26	33	22	33	29
SLT	26	33	22	26	33	22	33	29
LCD	26	33	22	26	33	22	33	29
IP Phone	26	33	22	26	33	22	33	29

## Nation Specific

You can control transfer sensitivity of another station or CO line for each kind of phone (PGM 400 to PGM 423). These values depend on Nation Specification.

**DTIB Rx Gain Control (PGM 400)**

**SLIB Rx Gain Control (PGM 401)**

**SLIB12 Rx Gain Control (PGM 402)**

**WTIB Rx Gain Control (PGM 403)**

**ACOB Rx Gain Control (PGM 404)**

**ACOB8 Rx Gain Control (PGM 405)**

**DCOB Rx Gain Control (PGM 406)**

**VMIB Rx Gain Control (PGM 407)**

**DTRU Rx Gain Control (PGM 408)**

**EXT Page Rx Gain Control (PGM 409)**

**CPTU Rx Gain Control (PGM 410)**

**MODU Rx Gain Control (PGM 411)**

ALL Rx Gain Control

← Refresh   Update   Close

ALL Rx Gain Control (PGM400-411)

Comment   Value Range : 0 - 63

From	DKT	SLT	CTRSL	WKT	ACO	CTRCO	DCO	DVU	DTMF	TONE	MUSIC1	MUSIC2	MUSIC3	MODEM
DTIB	26	33	22	26	33	22	33	29	8	32	29	29	29	/
SLIB	12	23	12	12	21	12	24	20	8	18	20	20	20	/
SLIB12	32	43	32	32	41	32	44	40	28	38	40	40	40	/
WTIB	26	33	22	26	38	29	33	29	8	37	29	29	29	/
ACOB	26	37	27	26	36	27	33	32	32	32	32	32	32	37
ACOB8	28	43	32	31	41	32	38	37	37	37	37	37	37	44
DCOB	26	37	26	26	24	15	32	32	32	32	32	32	32	37
VMIB	21	32	21	26	32	23	32	/	/	/	32	32	/	/
DTMF	/	28	17	/	24	15	24	/	/	/	/	/	/	/
EXT_PAGE	26	37	26	26	37	28	37	37	/	/	37	37	37	/
CPT	/	/	/	/	24	15	24	/	/	/	/	/	/	/
MODEM	/	/	/	/	24	20	24	/	/	/	/	/	/	/

## Other Gain Table (PGM 412-418, PGM 424)

Other Gain Table

← Refresh ↻ Update ⌵ Close

Other Gain Table (PGM412-417)

Comment

**SAF SLIB RX Gain**

From	Short ACO	Long ACO
Short_SLIB	11	12
Long_SLIB	13	14
Far_SLIB	15	16

**SAF ACOB RX Gain**

From	Short_SLIB	Long_SLIB	Far_SLIB	DKT
Short ACO	22	23	24	7
Long ACO	26	27	10	32

**DCO/R2 Gain**

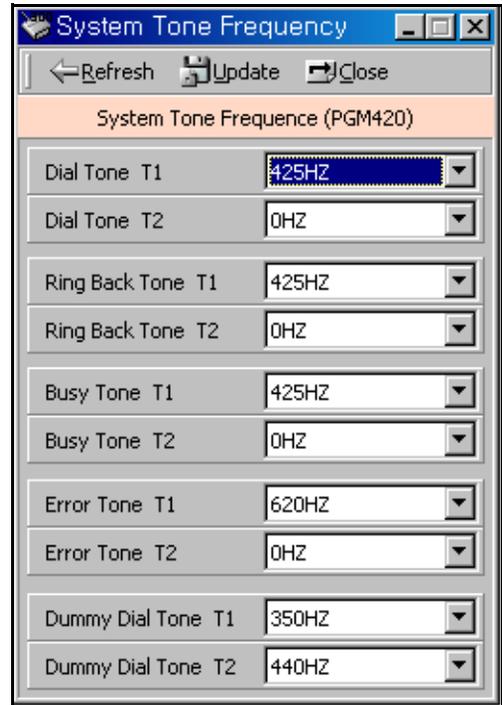
DCO/R2  R2/DCO

**DTIB ACO RX GAIN**

DTIB/S\_ACO  DTIB/L\_ACO

### System Tone Frequency (PGM 420)

User entered frequency (dial tone, ring back tone, error tone, busy tone, dummy dial tone) may be changed to the closest system frequency provided.

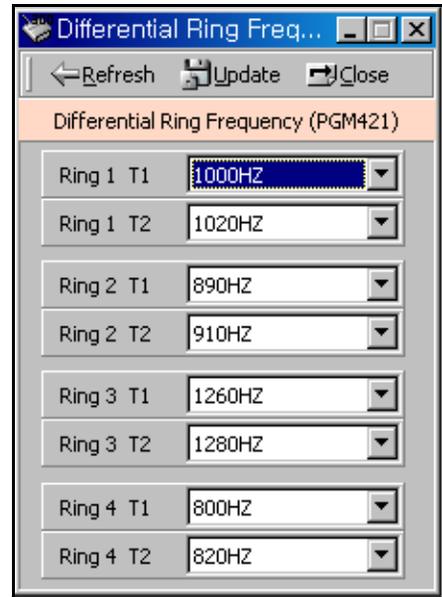


**System Tone Frequency (PGM 420)**

ITEM	RANGE	DEFAULT	REMARK
Dial Tone	0000-9999	T1: -- T2: --	Nation Specific
Ring Back Tone	0000-9999	T1: -- T2: --	Nation Specific
Busy Tone	0000-9999	T1: -- T2: --	Nation Specific
Error Tone	0000-9999	T1: -- T2: --	Nation Specific
Dummy Dial Tone	0000-9999	T1: -- T2: --	Nation Specific

### Differential Ring Frequency (PGM 421)

User entered frequency may be changed to the closest system frequency provided.

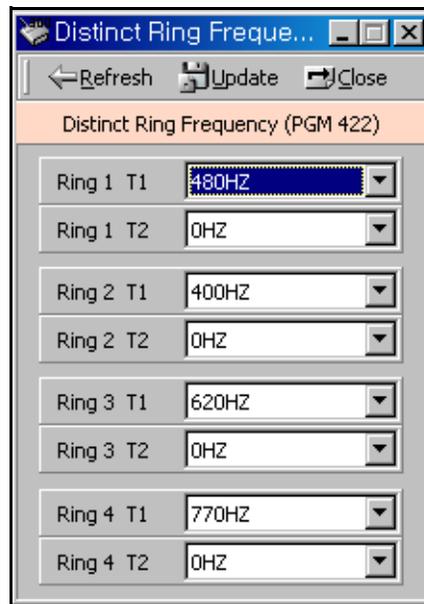


#### Differential Ring Frequency (PGM 421)

ITEM	RANGE	DEFAULT	REMARK
Ring 1	0000-9999	T1: -- T2: --	Nation Specific
Ring 2	0000-9999	T1: -- T2: --	Nation Specific
Ring 3	0000-9999	T1: -- T2: --	Nation Specific
Ring 4	0000-9999	T1: -- T2: --	Nation Specific

### Distinct CO Ring Frequency (PGM 422)

User entered frequency may be changed to the closest system frequency provided.



**Distinct Ring Frequency (PGM 422)**

ITEM	RANGE	DEFAULT	REMARK
Ring 1	0000-9999	T1: -- T2: --	Nation Specific
Ring 2	0000-9999	T1: -- T2: --	Nation Specific
Ring 3	0000-9999	T1: -- T2: --	Nation Specific
Ring 4	0000-9999	T1: -- T2: --	Nation Specific

## ACNR Tone Cadence (PGM 423)

User entered frequency may be changed to the closest system frequency provided

ACNR Tone Frequency (PGM423)		
Ring Back Tone T1 / ON	50	0 - 255
Ring Back Tone T2 / OFF	100	0 - 255
Busy Tone T1 / ON	25	0 - 255
Busy Tone T2 / OFF	25	0 - 255
Error Tone T1 / ON	12	0 - 255
Error Tone T2 / OFF	12	0 - 255
S-Dial Tone T1 / ON	70	0 - 255
S-Dial Tone T2 / OFF	0	0 - 255

### ACNR Tone Cadence (PGM 423)

ITEM	RANGE	DEFAULT	REMARK
Ring-Back Tone	000-255	ON: 100 / OFF: 200	20ms base
Busy Tone	000-255	ON: 025 / OFF: 025	20ms base
Error Tone	000-255	ON: 012 / OFF: 012	20ms base
S-Dial Tone	000-255	ON: 150 / OFF: 000	20ms base

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# Speed Editor

## Introduction

The Speed Editor is an MS-Windows application program that can download, edit, and upload speed data of the SBX IP system. This program can send and receive the speed information such as speed bin number, speed bin name, phone number, CO line type (Net Number), and CO number (Network index number).

## Hardware/Software Requirements

### SBX IP System

- SBX IP system MPB Software Ver 3.7Aa or later.
- A LAN Port must be installed on the MPB for the LAN connection.
- A unique IP Address must be assigned for the LAN connection.

### PC

- Pentium Celeron 233MHz CPU or Higher CPU
- 256 color Super VGA (800 \* 600) or higher
- NIC (Network Interface Card) for the LAN connection.
- 2-button Mouse
- 32MB RAM minimum
- MS-Windows 98/ME/2000/XP/Vista
- Enough hard drive space for installation

### Cable

If a NIC is used for a LAN connection, UTP cable will be needed with an RJ-45 jack between the PC and the SBX IP system.

## Hardware Configuration

To use a LAN connection between a PC and the SBX IP system, the PC and the SBX IP system should be connected to the local network.

## Installing & Uninstalling Software

Once the hardware is installed, you are ready to install the software.

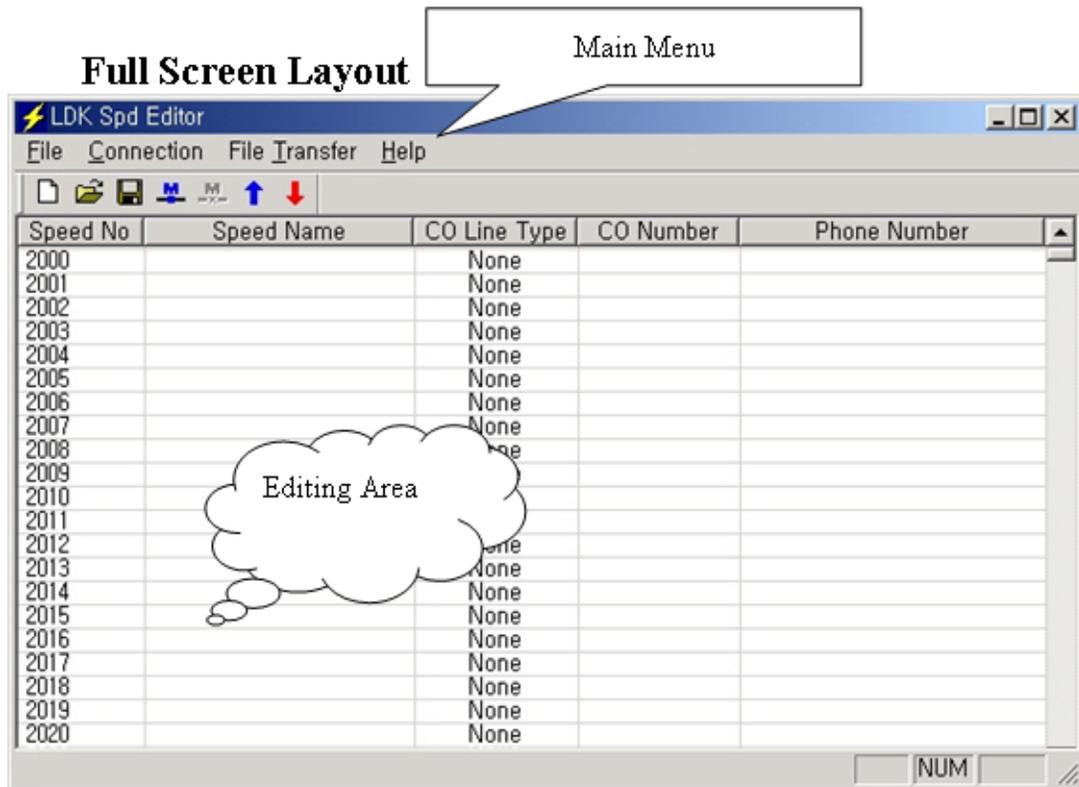
### **To Install the Speed Editor program:**

Microsoft Windows must be installed on your computer before you install the Speed Editor program. For information on installing Windows, refer to the appropriate user's manual.

### **To Uninstall the Speed Editor program:**

Click Uninstall - Speed Editor or you can also select Speed Editor in Add/Remove Programs in the Control Panel.

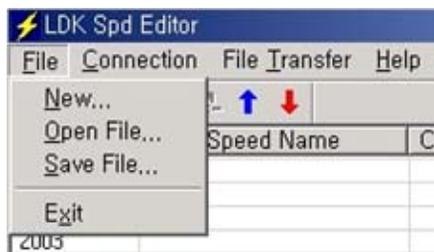
## Full Screen Layout



## File Menu

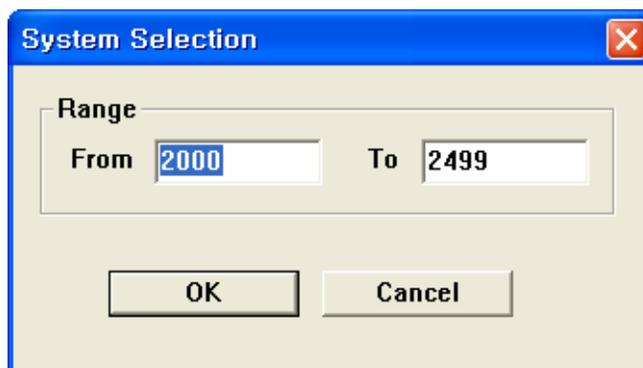
The [File] menu includes [New], [Open File], [Save File].

Recommendation: When speed editor accesses network drives, opening and saving files can fail due to the network condition. Therefore, it is recommended that you copy files onto local drives.



### New Sub-menu

1. Select [New] sub-menu in [File] menu. => the [System Selection] dialog displays.
2. Select the system and version.
3. Enter the range you want to edit.
4. Click the [OK] button.



### Open File sub-menu

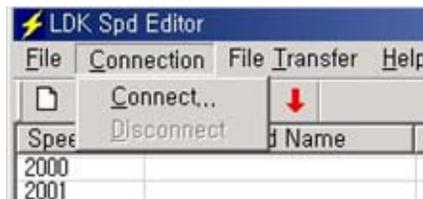
1. Select [Open File] sub-menu in [File] menu. => [Open] Dialog displays.
2. Select the file type: text, doc, or Excel.
3. Click the [OK] button.

**[Save File] sub-menu**

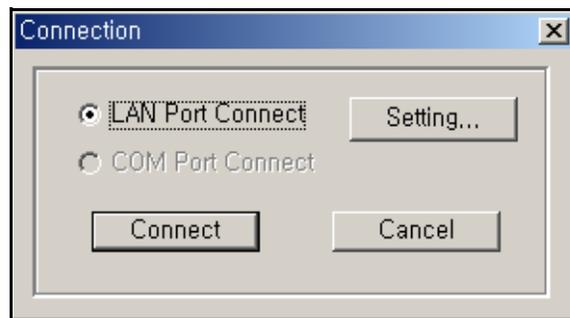
1. Select [Save File] sub-menu in [File] menu. => [Save] Dialog displays.
2. Select the file type: text, doc, or Excel.
3. Click the [OK] button.

**Connection Menu**

This program can be connected to the SBX IP system through the LAN.

**[Connect] sub-menu**

1. Select [Connect] sub-menu in [Connection] menu. => [Login] Dialog displays.
2. If your PC is connected to the SBX IP system by a LAN, select [LAN Port Connect].



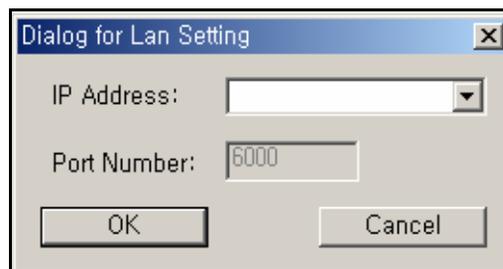
For the LAN connection between the PC and the SBX IP system, there must be a physical connection with 10BaseT Cable to local network and the SBX IP system and PC must have valid IP addresses.

**CONDITIONS:**

- The SBX IP system and PC must have valid IP addresses.
- If you want to connect directly, you have to use cross UTP cable. That means that the [Transmit] and [Receive] are cross. But you connect the the SBX IP system and PC with a HUB, you can use normal UTP cable that is used in your local network.
- If you want to connect from a different segment of the LAN or from an external site (via Internet), the SBX IP system must have the correct gateway address (default router). If it doesn't have the gateway address, remote connection using TCP/IP will be not available.
- If you want to connect the the SBX IP system that is used in remote site, you may need help from the network administrator. Because many site uses the firewall/NAT/PAT in their router, to connect the system through the Internet, help will be needed.
- In a remote connection using the Internet, connection speed/stability is dependent on the environment of the WAN traffic or routing.

**LAN Connection Setup**

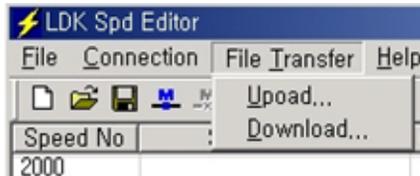
1. Type the IP Address of the SBX IP system, then click [OK].
2. You can choose the site address using the combo box. The combo box has the IP address list of sites that you have visited.
3. If you want to connect to a site that has never been visited, you must type the IP address into the combo box. In this case, you can't edit the port number.



## File Transfer Menu

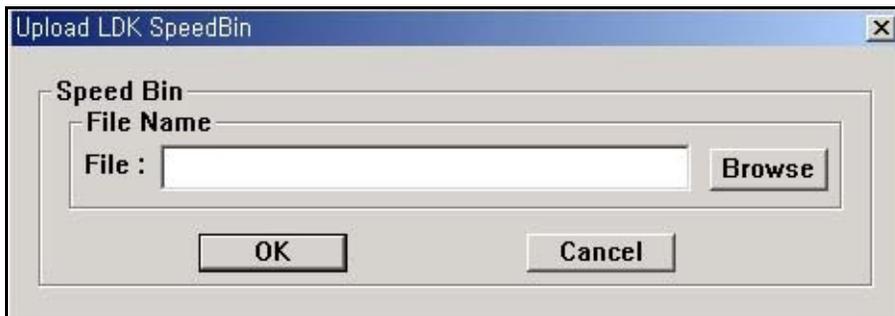
When Speed Editor is logged onto the SBX IP System, do not use a keyset for editing speed bin data.

Recommendation: When speed editor accesses network drives, opening and saving files can fail due to the network condition. Therefore, it is recommended that you copy files onto local drives.



### Upload

1. Check to see if the file that you want to upload is being used by another process. If the file is open, you cannot upload it.
2. Select [Upload] sub-menu in [File Transfer] menu.
3. Select [Browse], and select a file to upload.
4. Click the [OK] button.



## Download

1. Check to see if the file that you want to download is being used by another process. If the file is open, you cannot download it.
2. Select [Download] sub-menu in [File Transfer] menu.
3. Select a Range. If you select User Specified, enter the range manually in the boxes below. the User Specified radio button
4. Select [Browse], and name a file you want the speed data to be saved.
5. Click [OK] button to start download.

**Download LDK SpeedBin**

**Speed Bin**

**Select Range**

2000-3000  3001-4001  4002-4999  User Specified

**Enter Range**

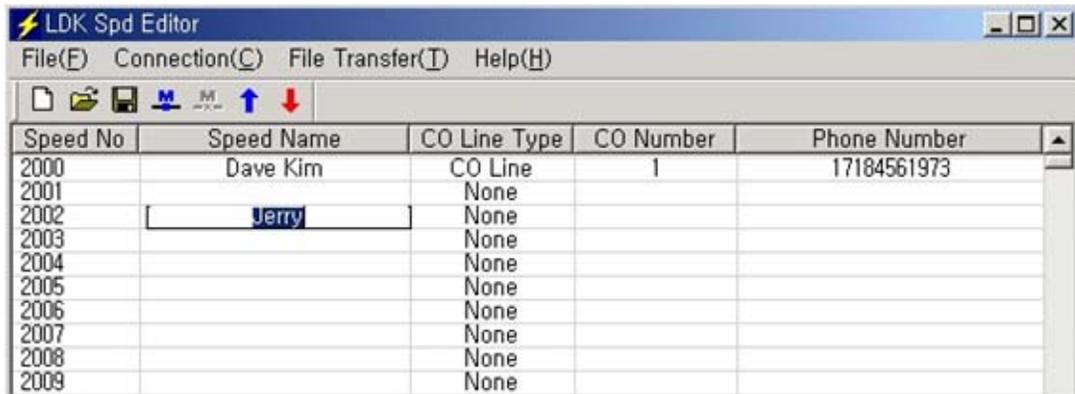
From :  To :

**File Name**

File :

## Editing Data

### Editing in Speed Editor View



Speed No	Speed Name	CO Line Type	CO Number	Phone Number
2000	Dave Kim	CO Line	1	17184561973
2001		None		
2002	Jerry	None		
2003		None		
2004		None		
2005		None		
2006		None		
2007		None		
2008		None		
2009		None		

1. Click on an empty cell.
2. Type the data and press [tab] to move on to next column or click on the next column.
3. Select the [Save File] sub-menu in the [File] menu. => the [Save] Dialog displays.
4. Select the file type, text, doc, or Excel
5. Click the [OK] button.

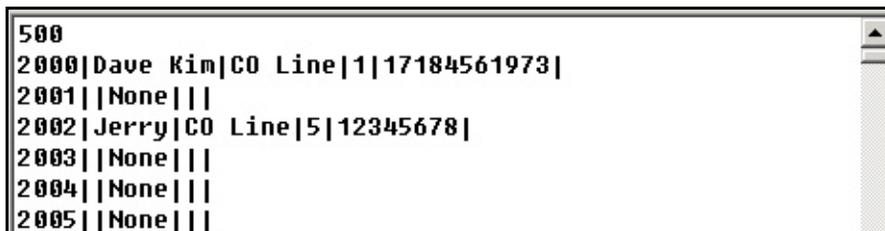
Enter the correct CO Line/CO Group Number/Network index number, otherwise the Speed Editor will ignore the CO Numbers during uploading and the CO Line Type and CO Number will not be updated.

SYSTEM	CO LINE	CO GROUP	NET NUMBER
SBX IP	1-12	1-24	Index number in Networking PGM 324 (00-72)

You must enter the index number in networking PGM 324 (00-72). Otherwise the SBX IP system may not work properly.

## Editing Text or Doc File

Open the file you want to edit using Notepad or MicroSoft Word. The file format looks similar to the following.

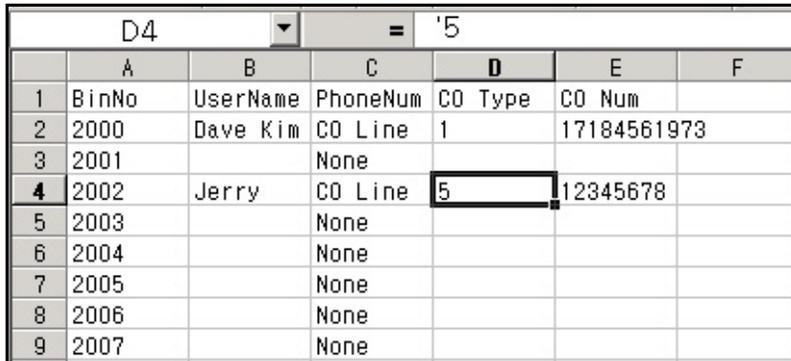


```
500
2000|Dave Kin|CO Line|1|17184561973|
2001||None|||
2002|Jerry|CO Line|5|12345678|
2003||None|||
2004||None|||
2005||None|||
```

- The number 500 on the first line represents the total number of speed data entries contained within this file.
- Each item is separated by a separator, | .
- Speed No|Speed Name|CO Line Type|CO Number|Phone Number
- When you write CO Line Type, write CO Line, CO Group and None, keeping an empty space between CO and Line, between CO and Group.
  - Do not exceed 16 characters when entering the Speed Name.
  - Do not exceed 24 characters when entering the Phone Number
  - Recommend editing in Speed Editor View.

## Editing Excel File

1. Open the file you want to edit using Excel. The file format looks similar to the following.



	A	B	C	D	E	F
1	BinNo	UserName	PhoneNum	CO Type	CO Num	
2	2000	Dave Kim	CO Line	1	17184561973	
3	2001		None			
4	2002	Jerry	CO Line	5	12345678	
5	2003		None			
6	2004		None			
7	2005		None			
8	2006		None			
9	2007		None			

2. Click a cell to edit.
3. Type in data. Type ' before every data entry, for example '5, not just 5. When you write CO Line Type, write CO Line, CO Group and None, keeping an empty space between CO and Line, between CO and Group.

When you edit with Microsoft Excel, you must add " ' " to make data as text type. Otherwise, Speed Editor cannot convert your data from an Excel file to edit window.

- Do not exceed 16 characters when entering the Speed Name.
- Do not exceed 24 characters when entering the Phone Number.
- Recommend editing in Speed Editor View.

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