

PC Administration  
for  
LDK Series

**Installation And User's  
Guide**

ISSUE 2.3

LG Electronics, Inc.

## REVISION HISTORY

| Issue     | Date     | Description of Changes  | S/W Version  |
|-----------|----------|---|--|
| ISSUE 0.8 | NOV/2000 | Initial Release   | A.0Aa  |
| ISSUE 1.0 | DEC/2000 | Draft version   | A.0Ad  |
| ISSUE 1.1 | FEB/2001 | Several values for timers were changed<br>Some detail information were added.   | 1.0Aq  |
| ISSUE 1.2 | JUL/2001 | CAPI2032.DLL Information  | 1.0Aj(PC)  |
| ISSUE 1.3 | AUG/2001 | Admin Password information<br>VoIB Programming(PGM 340)<br>VMIB Prompt Usage<br>→ (PGM 167 is modified)<br>Max Queue Call Count in Ring Group<br>→ Added  | 1.0Ba(PC)<br>1.0Dd(MP)   |
| ISSUE 1.4 | AUG/2001 | DCOB Admin programming<br>→ PGM186/187 was added<br>Gain Control CTR SLT/COL were added<br>→ PGM 400~411<br>LDK100 Admin is added<br>SLT Flash Drop(PGM111-Flex15)<br>→ Added<br>Offnet Prompt Usage(PGM160-Flex12)<br>→ Added<br>Offnet DTMF Tone(PGM160-Flex13)<br>→ Added<br>VMIB Prompt Gain(PGM161-Flex12)<br>→ Added<br>DID Restriction(PGM114-Flex14)<br>→ Added<br>DID Call wait(PGM114->Flex15)<br>→ Added | MP:1.0Ea, PC:1.0Ba<br>MP:1.0Ea, PC:2.0Aa<br>MP:1.0Ea, PC:2.0Aa<br>MP:1.0Ea, PC:2.0Aa<br>MP:1.0Ea, PC:2.0Aa<br>MP:1.0Ea, PC:2.0Aa<br>MP:1.0Ea, PC:2.0Aa<br>MP:1.0Ea, PC:2.0Aa |
| ISSUE 2.0 | NOV/2001 | Add LDK300/100 Office/Networking<br>PGM 320~324(Networking)   | MP:B.0Aa, PC:B.0Aa   |
| ISSUE 2.1 | DEC/2001 | Add LDK300 Hotel Administration<br>PGM 300~308(HOTEL)   | MP:1.0Fc(Office)<br>MP:1.0Fd(Hotel)<br>PC:1.0Fd(LDK300)<br>PC:B.0Bb  |
| ISSUE 2.2 | FEB/2002 | Automatic Port Detection was enabled.   | MP:B.0Af(Office)<br>MP:B.0Af(Hotel)<br>PC:B.0Af(LDK300)  |

|           |          |  |   |
|-----------|----------|--|---|
| ISSUE 2.3 | MAR/2002 | PGM185 CIDU Setting<br>→ Added<br>PGM451 Network DB Print<br>→ Added<br>PGM112 –Flex15(Stop Camp On)<br>→ Added<br>PGM143 – Flex7(CLI Transit)<br>Added<br>Extension Number Range is changed<br>→ Changed(Only LDK100, 96 → 128) | MP:B.0Ai(Office)<br>MP:B.0Ai(Office)<br>PC:2.0Ai(300/100) |
|-----------|----------|--|---|

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## General Description

### 1.1 Introduction to LDK PC Admin

- LDK PC Admin performs the Admin function on your PC instead of keysets so that you can manage the functions more conveniently. It performs all the function of keysets, and runs on Window 95/98/ME/NT/2000.

### 1.2 Hardware/Software Requirements

#### 1. LDK

- LDK 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 MPB
- One IP Address should be set in MPB for LAN Connection. If you don't know the exact IP address, ask your network administration
- Available system : LDK-300/100 Office(Networking)/Hotel system.

#### 2. PC

- Pentium Celleron 233MHz CPU or higher(Celleron 333 or more high performance CPU is recommended)
- 256 color Super VGA (800\*600), or higher
- One or more Serial Port: Mouse that has two or more buttons
- At least 32MB RAM (64MB or more RAM is recommended)
- MS-Windows 95/98/NT/ME/2000
- NIC(Network Interface Card) for LAN connection and ability to connect the network(Optional)
- ISDN Card for ISDN Connection (Option)
- MODEM for PSTN connection (Option)

#### 3. Cable

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



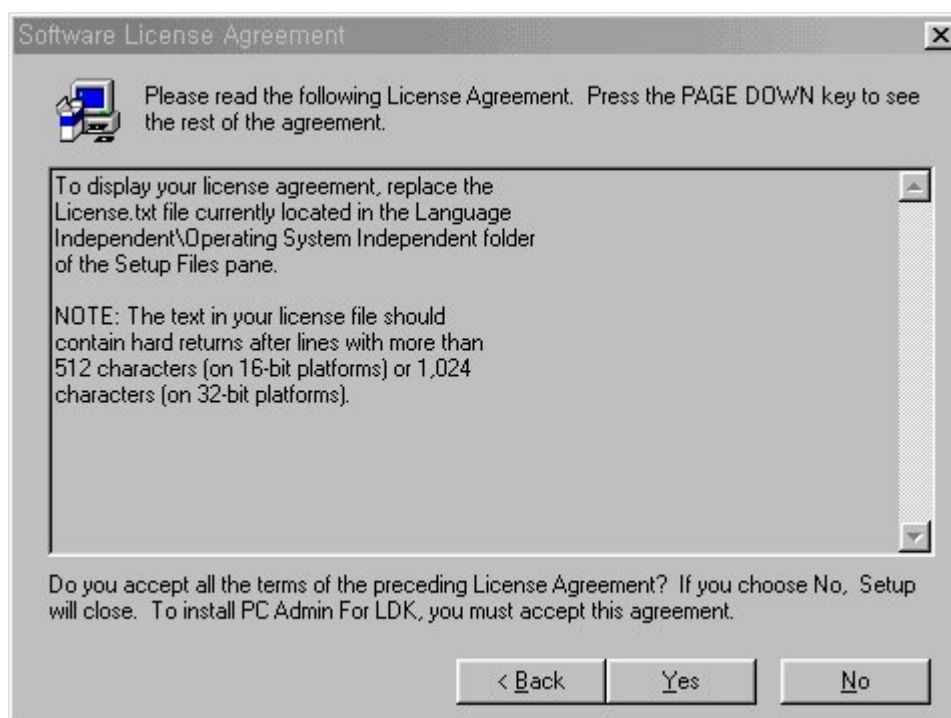
- RS-232C Type Cable for connecting PC and the system to be routed: There are three required lines that should be connected between PC and the system to be routed: Ground-Ground, Transmit-Receive, and Receive-Transmit.
- 10BaseT UTP cable is used for LAN connection.
- ISDN Connection Cable

#### 4. Environments for LAN connection

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

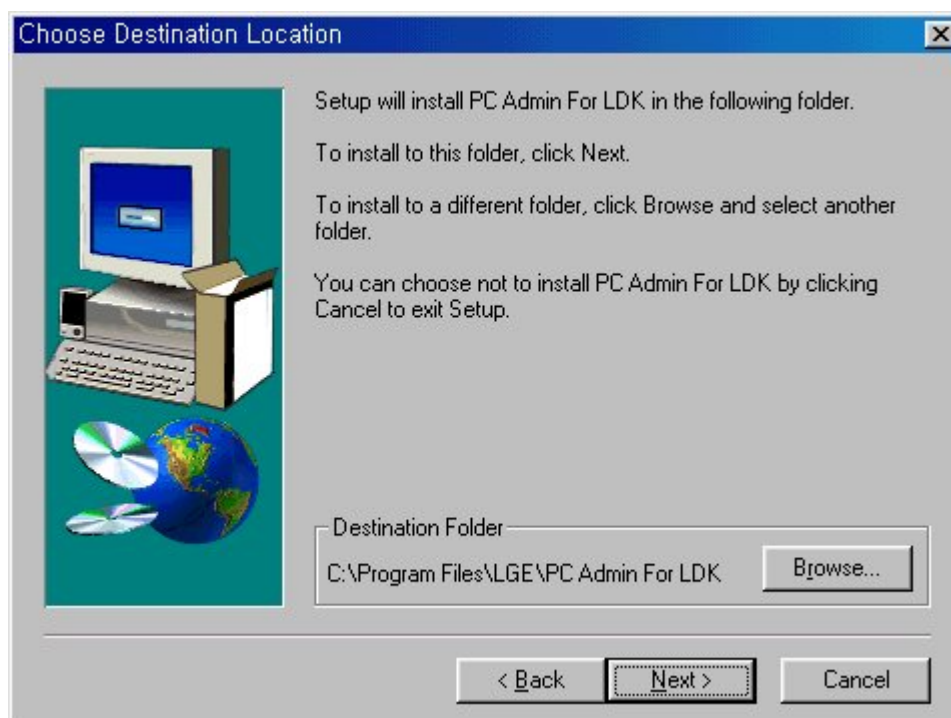
### 1.3 Installation of LDK-PC Admin Software

- Put the CD-ROM into your PC.
- Run Explorer in your PC and search setup.exe in the CD-ROM of first floppy diskette.
- If you find the setup.exe, run [setup.exe] Then you can find the initial screen of installation of PC Admin as like below.

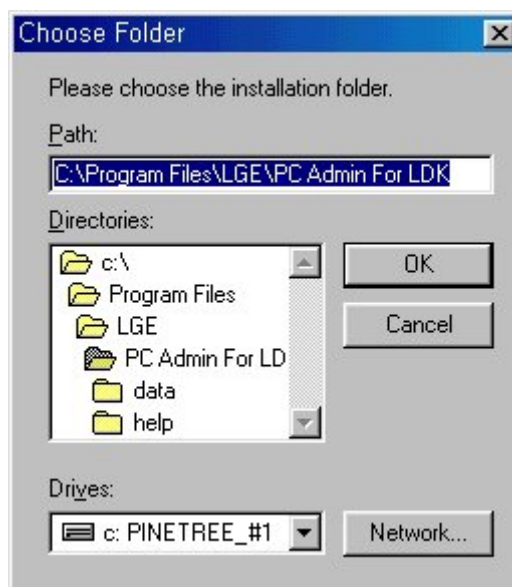


[Figure 1-1] Agreement for license

- Press [Yes] with your agreement about license. And go on.
- You will meet the install directory selection menu as like below

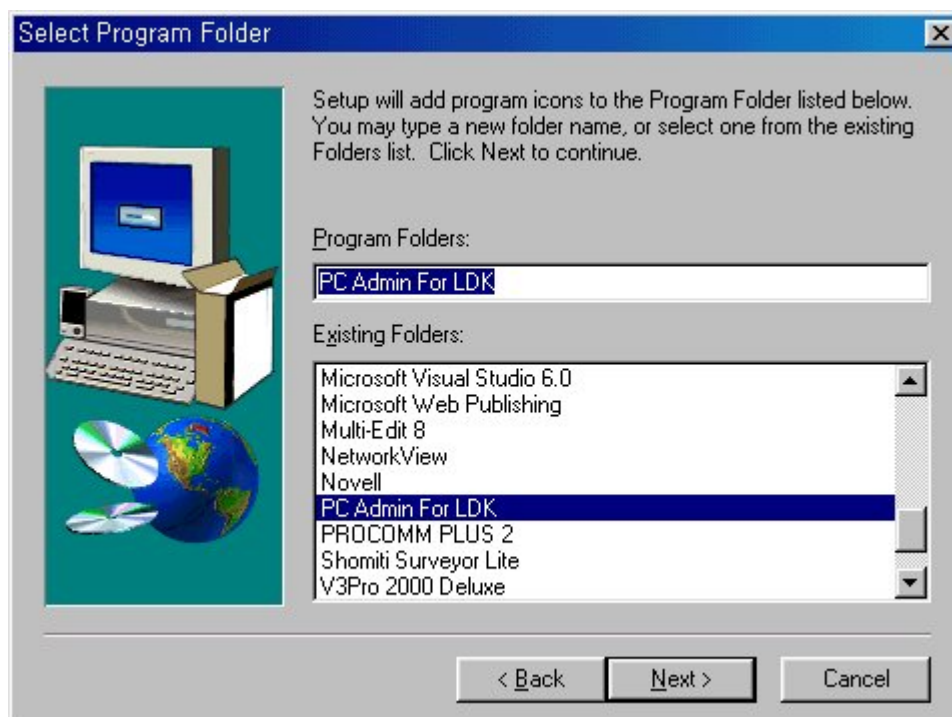


[Figure 1-2] Select install directory



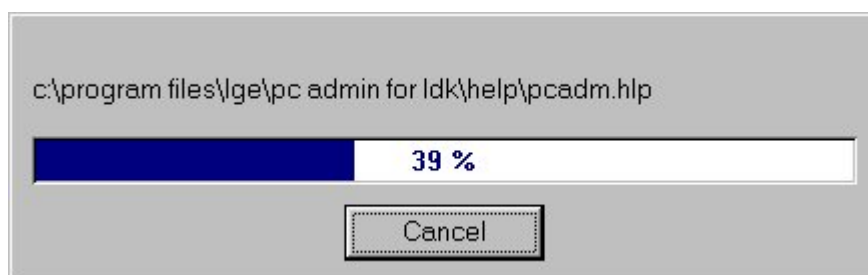
[Figure 1-3] Change install directory

- You can change the install directory if you want. Default install directory is like below.
- C:\Program Files\LGE\PC Admin for LDK is default directory.
- Next step is displayed below.



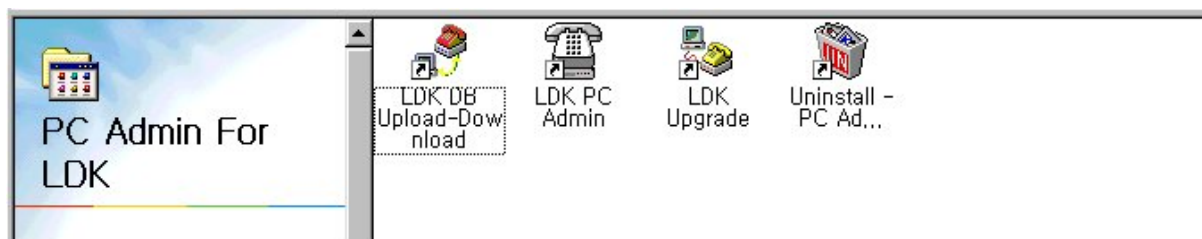
[Figure 1-4] Display the Program Group

- Next step will copy the files into install directory that you have decided previous step.
- It will display the progressive bar.



[Figure 1-5] Status Display for file copying

- Next step is the final step to complete the installation.
- After installation of LDK PC Admin software, the program group contains three small packages.
- One is the LDK PC Admin software, another is the LDK upgrade software that you can use the software when you want to change the LDK system software. And the third is the LDK-DB Up/Download software that you can use the software when you want to upload or download LDK admin database.



[Figure 1-6] Program Icons in group

- Now, you can use PC admin software.

## 1.4 information for CAPI2032.DLL(Very Important)

In this section, we will explain the information about CAPI2032.DLL when you use ISDN connection. This information is very important. So, you should keep in your mind this information. There are two possible cases.

### 1) ISDN S-Card Driver Installation --> PC Admin Installation

- In this case, you can use the PC Admin software with no problem. When you install the ISDN S-Card drivers into your computer, ISDN S-Card driver installation wizard will copy the correct CAPI2032.DLL into **c:\windows\system** directory. And, after that, you may install the PC Admin software. At that time, PC Admin installation wizard will check whether the correct CAPI2032.DLL is installed or not. Because you installed the ISDN S-Card drivers before installing PC Admin, PC Admin installation wizard will not copy default CAPI2032.DLL into installation directory.(Default **c:\program files\lge\PC Admin for LDK** directory). So, when you finished the installation of PC Admin software, you can find CAPI2032.DLL in the **c:\windows\system** directory instead of PC Admin installation directory(**c:\program files\lge\PC Admin for LDK**).
- PC Admin will use the CAPI2032.DLL file in the **c:\windows\system** directory.

### 2) PC Admin Installation --> ISDN S-Card Driver Installation

- In this case, you should make some change after installing ISDN S-Card driver installation. When you install the PC Admin software without ISDN S-Card installation, PC Admin installation wizard will copy default CAPI2032.DLL file into installation directory(default **c:\program files\lge\PC Admin for LDK**) for temporary usage. But in this case(default **CAPI2032.DLL in the installation directory**), you can't use ISDN connection.
- After installing the PC Admin, you may install ISDN S-Card Drivers to use ISDN connection. If you install the ISDN S-Card drivers, ISDN S-Card installation wizard

will copy the correct CAPI2032.DLL into **c:\windows\system** directory. This CAPI2032.DLL is the correct library file with your ISDN S-Card. So, default CAPI2032.DLL in the PC Admin installation directory(**c:\program files\lge\PC Admin for LDK**) is not needed from this time. Because default file will not be worked with your ISDN S-Card.

- So, after you installed your ISDN S-Card drivers, you should delete the temporary CAPI2032.DLL in PC Admin installation directory.(CAPI2032.DLL in **c:\program files\lge\PC Admin for LDK directory**). Otherwise, you can't use the PC Admin with ISDN connection.
- **Delete CAPI2032.DLL file in the PC Admin directory(c:\program files\lge\PC Admin for LDK) after installing ISDN S-Card drivers. Keep this information in your mind.!!**
- 

3) Recommended procedure

- So, we recommend the 1st case(ISDN S-Card installation --> PC Admin installation) procedure.
- If you choose the 2nd case, you should follow the above instruction to use ISDN connection.

## 1.5 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 13 upper items excluding Hotel, Networking, VoIP. Each of them has its 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.
- The PC Admin detects the category of LDK system automatically, and controls the available feature. For example, if the LDK system is LDK-300 Office system, PC admin will disable to programming Hotel feature.
- Available systems are LDK300/100(Office/Hotel) Phase II version of later.

## 1.6 Password

As you execute LDK Admin application, you will see the box below to enter a password. The password is same as the password of the system Admin program.

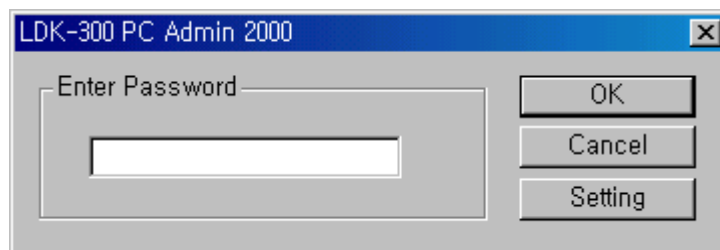
This password has to be same as the administration password that you have entered using Admin PGM 162.

### Operation

1. You must click on [Setting] to setup the connection type when you run the application at the

first time.

2. You should enter the correct 4 digits password if LDK system has administration password. But if there is no administration password, you can enter the system by pressing the [ENTER] key without any value.
3. In this step, the PC admin software remember the last connection information. So, If you connect the LDK system without changing the information, you would connect the system that you have connected last.
4. We recommend that you have to check the connection information.



[Figure 1-7] Password Input Window

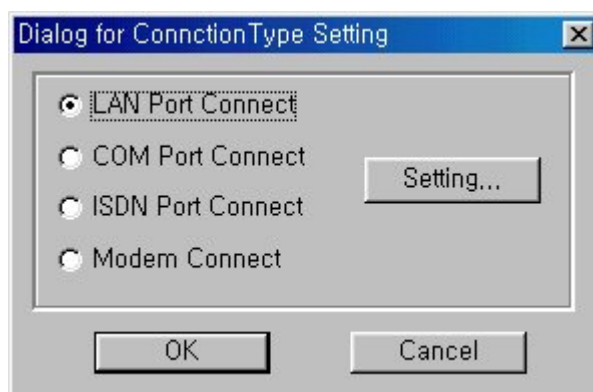
5. Follow the instruction in Connection Type Setup. It will be described in next section.

## 1.7 Connection Type Setup

You should setup a connection type before you get into the main program. PC Admin program and LDK system transfer data to each other by either COM port using RS-232C cable, LAN port, MODEM and ISDN Modem. So, you can choose the type of connection.

### Operation

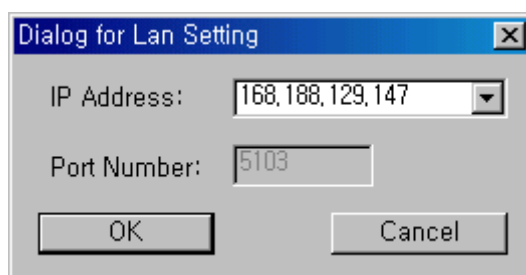
1. You will see the dialog below after you press [Setting] button which is on [Enter Password] dialog.



[Figure 1-8] Selection for Connect Type

2. If your PC is connected to the LDK system by LAN, select [LAN Port Connect]. Otherwise connected by RS232-C, select [COM Port Connect]. Then click [Setting].

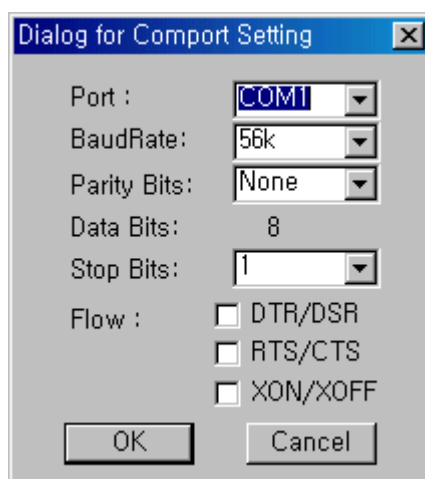
- Connected by LAN



[Figure 1-9] IP Address Input Window

- Put an IP Address of the LDK system like above, and press [OK].
- You can choose the site address using the combo box. The combo box have the IP address list that you have visited.
- If you want to connect the any site that has never visited, you have to enter the IP address into the combo box.
- In that case, you can't edit the port number. Because port number is not changeable.

- Connected by RS232-C



[Figure 1-10] COM Port Connection Window

- Select the COM Port of your PC, and the Baud Rate for transporting speed.
- Transporting speed should be the same as a setup speed at LDK system.
- Do not change the setting items except Port and Baud rate. They are fixed setting values.

- Connected by ISDN Modem

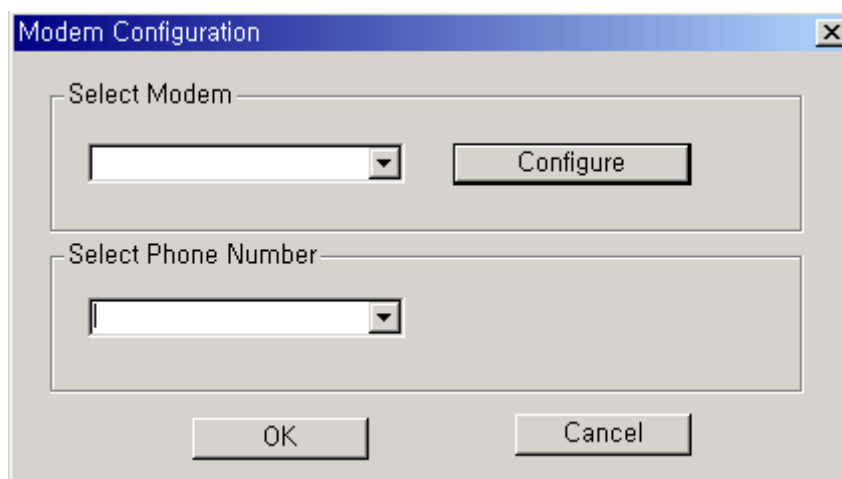
- Select the ISDN Connection of your PC Admin,
- In this case, your computer must have the ISDN Modem.
- Select the phone number or put the phone number that you want to connect

- Press [OK] button



[Figure 1-11] ISDN Connection Window

- Connected by MODEM
  - Select the MODEM Connection of your PC Admin,
  - In this case, your computer must have the Modem.
  - The maximum speed that can support by LDK system is 19200 bps.
  - Select the phone number or put the phone number that you want to connect
  - Press [OK] button



[Figure 1-12] MODEM Connection Window

## 1.8 Menu Hierarchy

The Tool Bar shows all the menu items including connection and disconnection to the system, Reload, Debug Window, and Item Window.

### Operation

#### 1. Search Engine

There is an Edit Box right beside the Tool Bar as you see below. It provides a quick search of the program. You may enter a program number or a program name to search.

If you enter the key word that you want to find, the search engine will find the items which






contains the word what you have entered. At that time, you can choose the item that you want.




[Figure 1-13] Main Menu


## 2. File (Alt | F)

-  Connect : It connects PC Admin application to the LDK system.  
It will be disabled when logon is successful.
-  Disconnect : It disconnects the application to the system.  
It will be disabled until you connect the system successfully.
-  Set Connection Type : It directly shows the Connection Type Setting dialog.

## 3. Action (Alt | A)

-  Reload : It brings the data from the system to the application while running a program.

## 4. View (Alt | V)

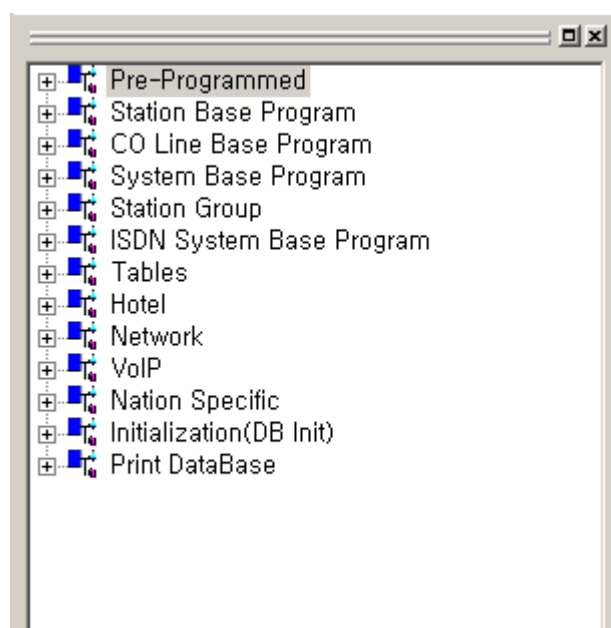
-  Debug Window: It shows a status of the data transportation between the program and the system.

## 5. Item Window

It shows a tree on the left side of the program. That window will display the whole items that PC Admin software can support. The items that is displayed in item window will displayed in order of PGM number. So, if you select any item, that will display the whole sub items on the right side of the window.

## 2. Pre-Programmed

The LDK system is operated by default values when you first install the system. You can change these values such as Location Information, Slot Assignment, Numbering Plan and so on. Pre-Programmed items are from PGM 100 to PGM 108 as the picture shows below. Click on a lower item to program the specified function.



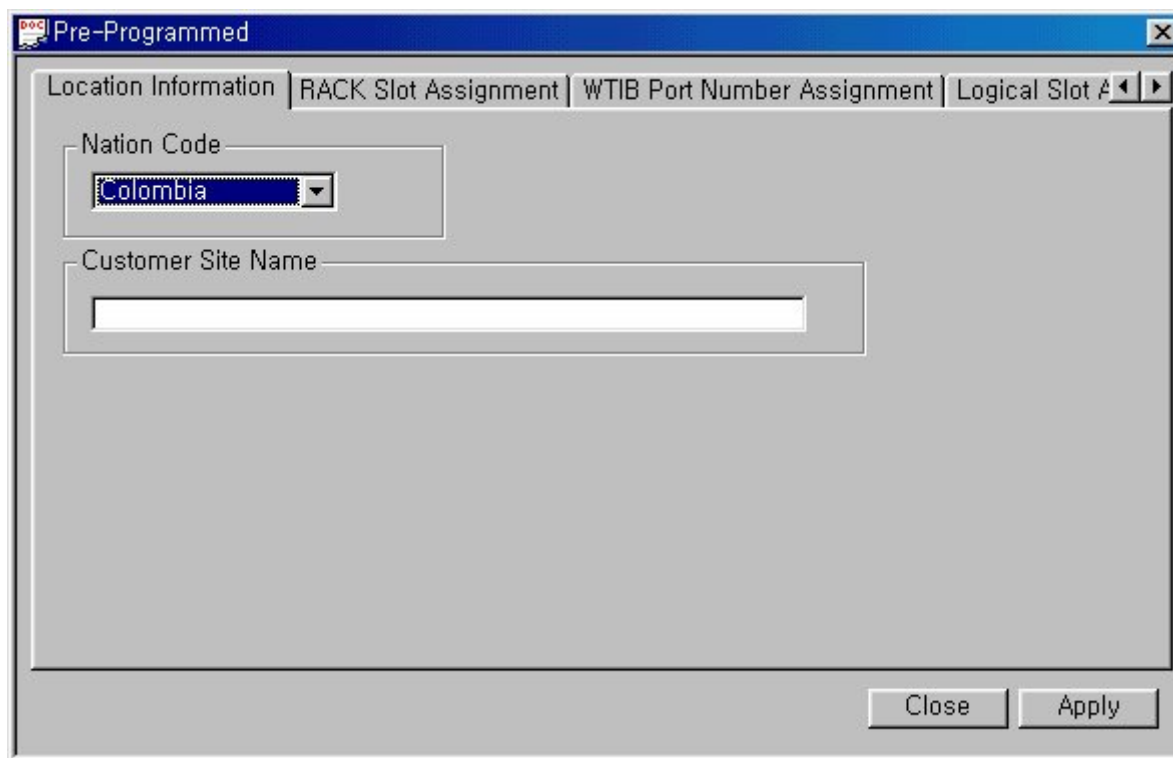
[Figure 2-1] Pre-Programmed Menu list

### 2.1 Location Information (PGM 100)

Set up the Nation Code and Customer Site Name. Name code is the same as long distance telephone code. And the site name is the name of your site.

#### Operation

1. Click [Location Information]. Then you can find the small window like below.



[Figure 2-2] Location Information Setting Window

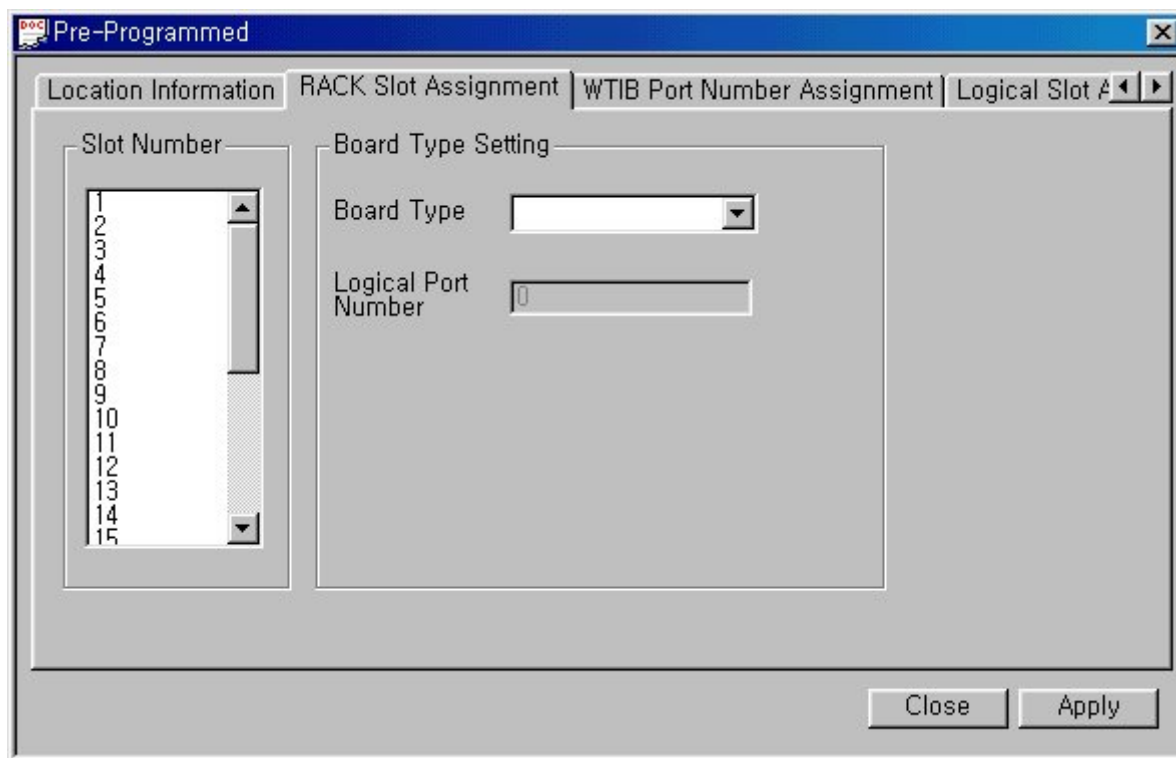
2. Korea is the default value of Nation Code. You can change the code.
3. ***Before Nation Code change, you should check the DB Protected by DIP8. If DB Protected is enabled, nation code will not be changed.***
4. After changing the nation code, you have to reset the system. At that time Dip S/W 8 should be ON state.
5. You can put any name in [Customer Site Name] box, up to 23 characters. Both characters and number are available. And you can enter lowercase characters.

## 2.2 Slot Assignment (PGM 101)

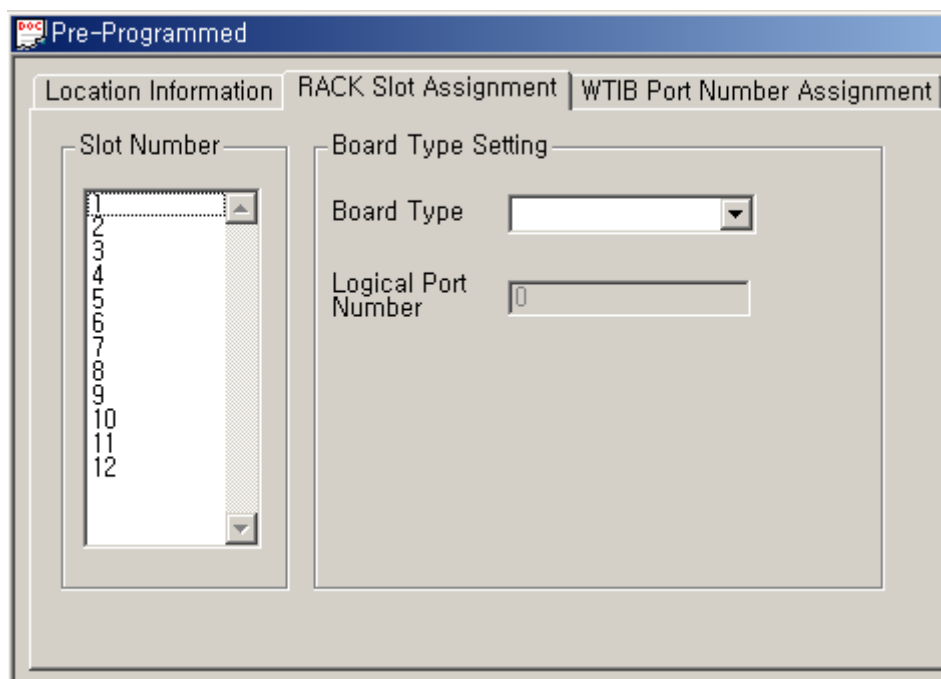
LDK system supports max **27(LDK300)/12(LDK100)** slots with **3(LDK300) / 2(LDK100)** lacks. This program assigns each slot to one type of the boards. Slot Assignment is possible by the system automatically, or by the PC Admin program manually. If the Dip switch is off, the system automatically senses the board. If the Dip switch is on, you have to assign each board to which slot it is placed. And reset the system.

### Operation

1. Click [RACK Slot Assignment]. Then you can find the small window like below. The window is consist of slot number pars and board type setting part.



[Figure 2-3-1] Rack Slot Assignment Setting Window in LDK300



[Figure 2-3-2] Rack Slot Assignment Setting Window in LDK100

2. The dialog above shows DTIB24 board is installed in slot 1, which is sensed automatically. If you want to assign manually, you choose one of the slots, and a board type.
3. ***When you use this feature, you can't modify the logical port number except PRIB.***

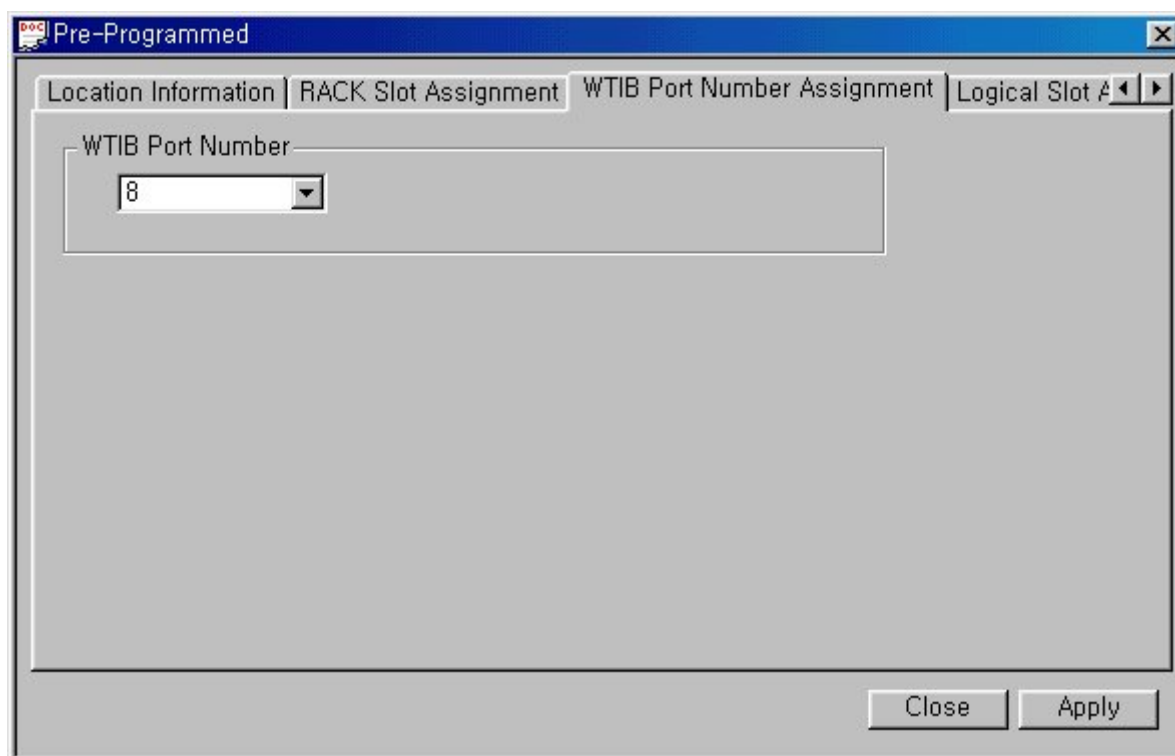
4. *When you assign the PRIB, you can select the logical port number that you want. But it has range from 0 to 30 ports.*
5. *Any board except PRIB has fixed logical port number. But there is one exception. In the case of WTIB, you can only read the logical port number from 8 to 192 ports that you have entered at PGM 103.*

## 2.3 WTIB Port number Assign (PGM 102)

It decides the number of DECT Handset port number that could be used in the system. It should be multiple of 8 ports. In other words, 8, 16, ....., 64, 72, ..... to max **192(LDK300) / 80 (LDK100)**

### Operation

1. Click [WTIB Port Number Assignment]. The default value is 8.



[Figure 2-4] WTIB Port Number Assignment Setting Window

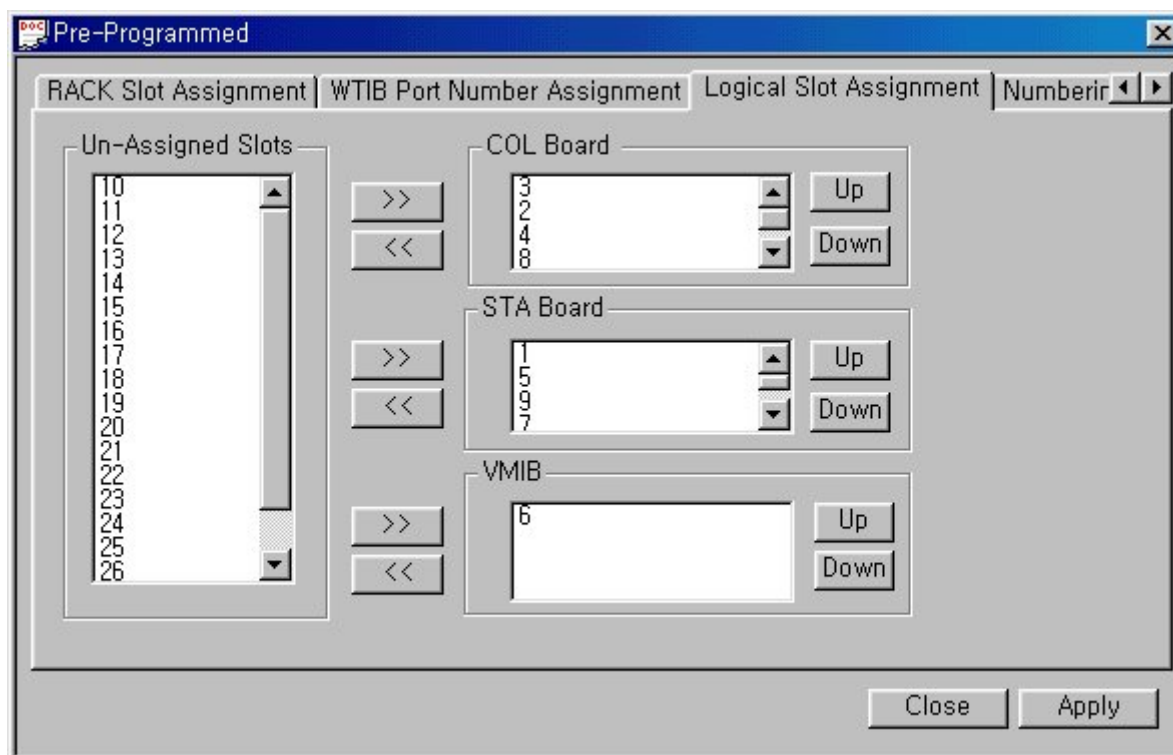
2. You can register up to **192(LDK300) / 80(LDK100)** DECT handset. (The number is always a multiple of 8)
3. It is available via combo box list. So, you have to do select the number in the list and press the Apply button.
4. In this feature, you can't edit the port number. It is fixed values.

## 2.4 Logical Slot Assignment (PGM 103)

It sets up COL Board, STA Board and VMIB. Same as Rack Slot Assignment, COL Board and STA Board is assignable either automatically or manually. If Dip switch is off, it will be assigned automatically, otherwise manually. But in case of setting up VMIB, it will be assignable only manually regardless of the dip switch status.

### Operation

1. Click [Logical Slot Assignment]. If any board is preset automatically by the system, it shows the boards on the dialog box.
2. To assign manually, choose an Un-Assigned slot and click the button [ >> ].
3. If you want to change the order of slots, use [Up] and [Down] button to change the order of the boards
4. After you have selected slots, press [Apply] button.
5. If you want to remove it, select a slot number below COL board, STA board, or VMIB and click the button [ << ].
6. ***In the case of STIB, if you select STIB slot into any type of COL/STA type, it will be added in the other slot type. For example, suppose that you have selected a STIB slot in COL board type, the PC Admin software will add the STIB slot in STA board type automatically.***



[Figure 2-5] Logical Slot Assignment Setting Window in LDK300

| ITEM      | DEFAULT | REMARK                                     |
|-----------|---------|--|
| COL Board | -       | DIP ON: Manually<br>DIP OFF: Automatically |
| STA Board | -       | DIP ON: Manually<br>DIP OFF: Automatically |
| VMIB      | -       | DIP ON: Manually<br>DIP OFF: Automatically |

[Table 2-1] Button Configuration for Slot Assignment (PGM 103)

## 2.5 Numbering Plan Type (PGM 104)

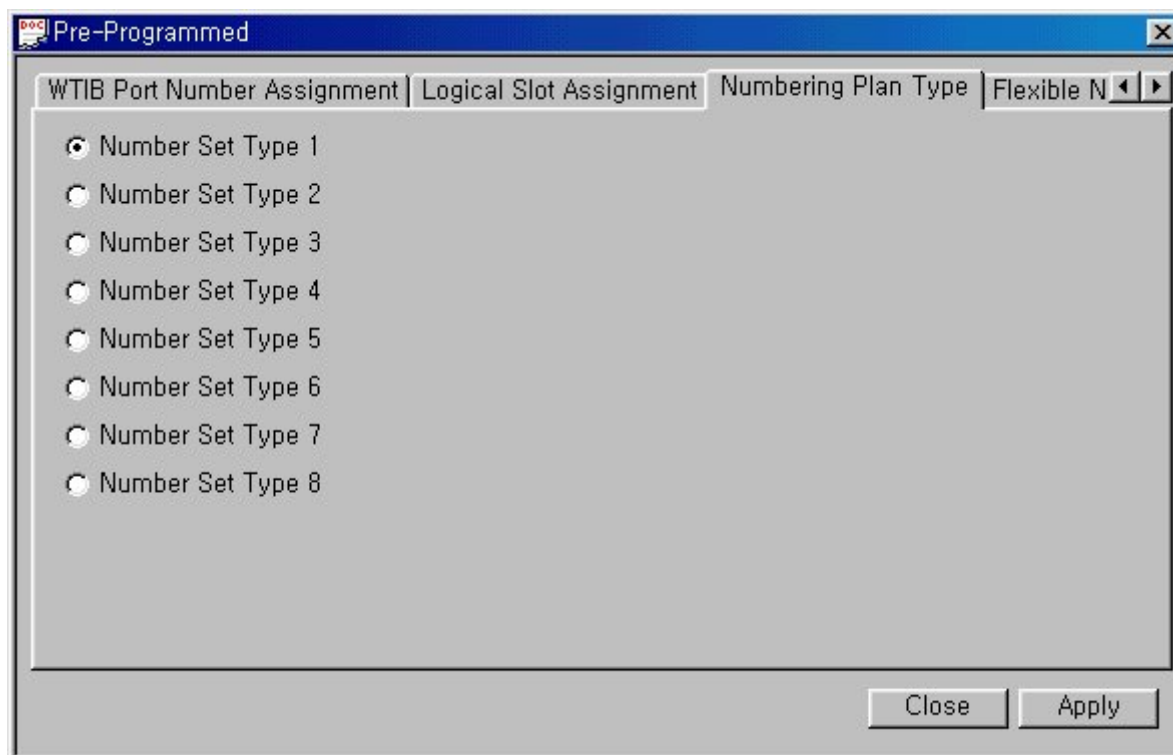
The default range of the station number is from 100 to **399(LDK300) / 227(LDK100)**. You can change the range according to the nation or your style. But there is information that you have to remember.

### < NOTICE >

***If you change the numbering plan type when you are using the PC admin, you have to reload flexible number plan – Station number(PGM 105) information. If you don't reload that information, you would find some mis-operation in checking the range.***

### Operation

1. Click [Numbering Plan Type]. Number Set Type 1 is the default value.



[Figure 2-6] Numbering Plan type Setting Window

2. Look at the table below and change the Number Set Type.

| ITEM              | INTERCOM RANGE | DEFAULT | REMARK  |
|-------------------|----------------|---------|---|
| Number Set Type 1 | 100 - 399      | Yes     | As the basic type, the 1 <sup>st</sup> digit of station number should be 1 - 4. |
| Number Set Type 2 | 100 - 399      | No      | The station number can be changed within 799.                                   |
| Number Set Type 3 | 100 - 399      | No      | Australia Default   |
| Number Set Type 4 | 700 - 999      | No      | New Zealand Default   |
| Number Set Type 5 | 200 - 499      | No      | Italy Default   |
| Number Set Type 6 | 21 - 79        | No      | Max Station Ports:60<br>Station above max ports will be displayed "****"        |
| Number Set Type 7 | 100 - 299      | No      | Max Station Ports:200<br>Station above max ports will be displayed "****"       |
| Number Set Type 8 | 100 - 399      | No      | The station number can be changed within 999.                                   |

[Table 2-2-1] Flexible Numbering Plan for LDK-300 (PGM 104)

| ITEM              | INTERCOM RANGE           | DEFAULT | REMARK  |
|-------------------|--------------------------|---------|---|
| Number Set Type 1 | 100 - 227                | Yes     | As the basic type, the 1 <sup>st</sup> digit of station number should be 1 - 4. |
| Number Set Type 2 | 100 - 227<br>(100 - 799) | No      | The station number can be changed within 799.                                   |
| Number Set Type 3 | 100 - 227                | No      | Australia Default   |
| Number Set Type 4 | 700 - 827                | No      | New Zealand Default   |
| Number Set Type 5 | 200 - 295                | No      | Italy Default   |
| Number Set Type 6 | 21 - 79                  | No      | Max Station Ports:60<br>Station above max ports will be displayed "****"        |
| Number Set Type 7 | 100 - 227                | No      | Max Station Ports:96<br>Station above max ports will be displayed "****"        |
| Number Set Type 8 | 100 - 227<br>(100 - 999) | No      | The station number can be changed within 999.                                   |

[Table 2-2-2] Flexible Numbering Plan for LDK-100 (PGM 104)

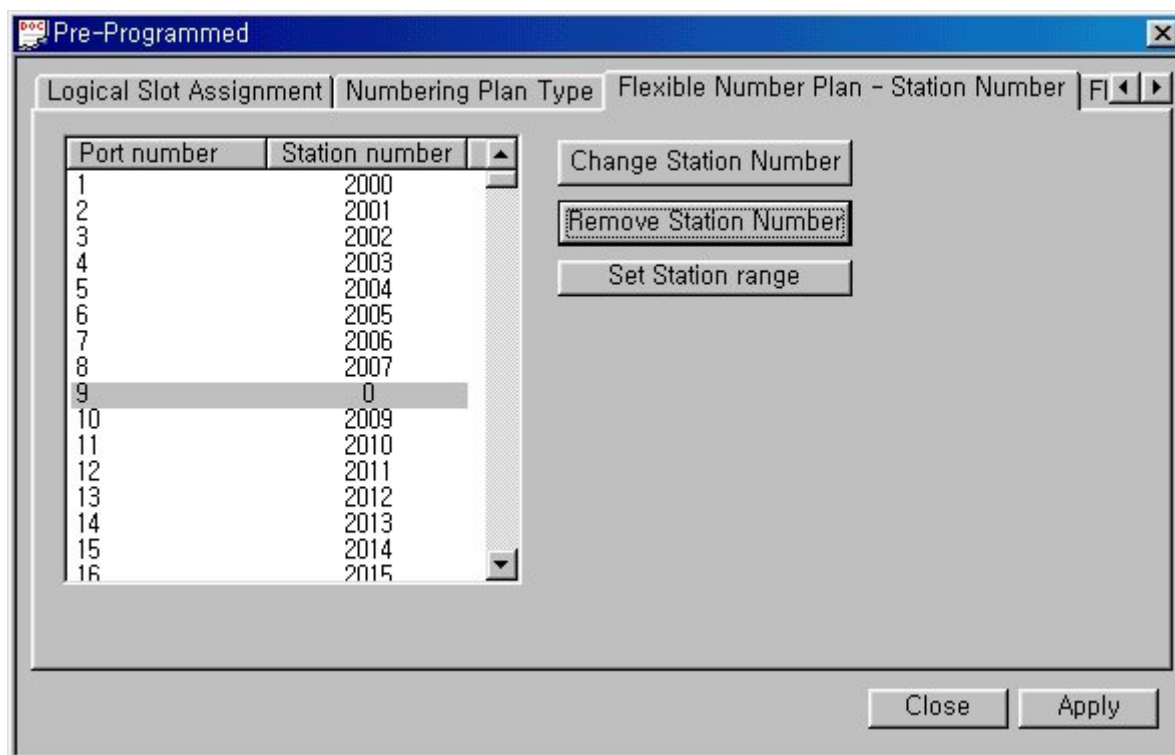


## 2.6 Flexible Number Plan - Station Number (PGM 105)

The station number is changeable by the program. If you change the numbering plan type in PGM103, you will find that these station number were changed too. You can change the station number one by one, or range. But if you change the station number in range, you have to start port number 1. Otherwise you will find the dialog box meaning "It is not available".

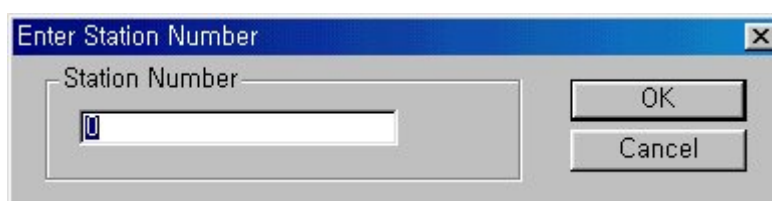
### Operation

1. Click [Flexible Number Plan - Station Number]. If the Numbering Plan Type is set as 1, the station number starts from No.100 up to **399(LDK300) / 227(LDK100)**.



[Figure 2-7] Flexible Numbering Plan type Window

2. Select a station, and click [Change Station Number], you will see a dialog below.
3. Put a desired station number. If entered data is not valid, you will find the dialog box meaning "It is not valid station number"



[Figure 2-8] Station Number Input Window

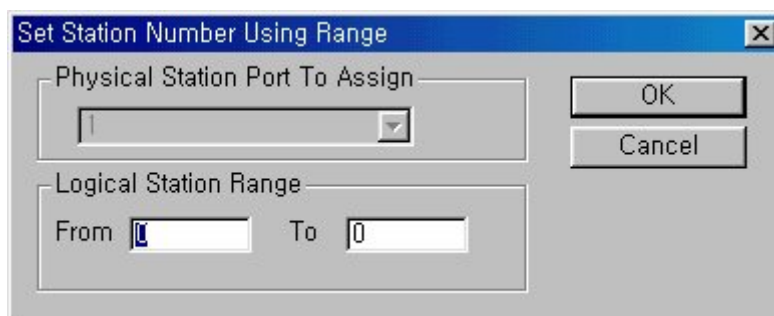
4. Select a station, and click [Remove Station Number] to remove a station number.

**5. Station number 0 means that port was erased or not assigned.**

6. Select a station, and click [Set Station Range]. Enter a physical station port (1~300), and logical station range.

**<NOTICE>**

***When you change station number range, you have to select start port as 1. If you choose another station port, PC admin will display error message.***



[Figure 2-9] Range Change Window

## 2.7 Flexible Number Plan A - B (PGM 106, 107)

This program changes station group, and other specialized numbers. It depends on the numbering plan type that have entered in PGM105. Before you change the Flexible Number Plan, you should check whether new number or code is available or not.

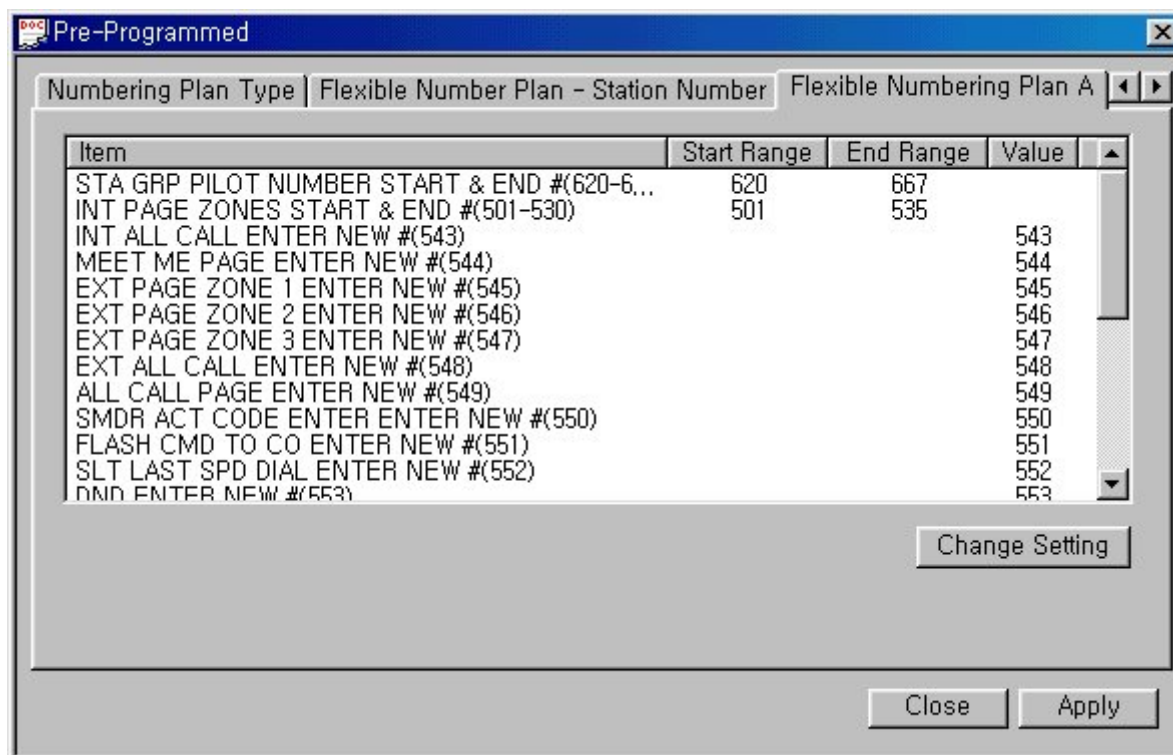
**<NOTICE>**

***If you enter the wrong number or code, system will response with error message. Then you will see the dialog box with the following message.***

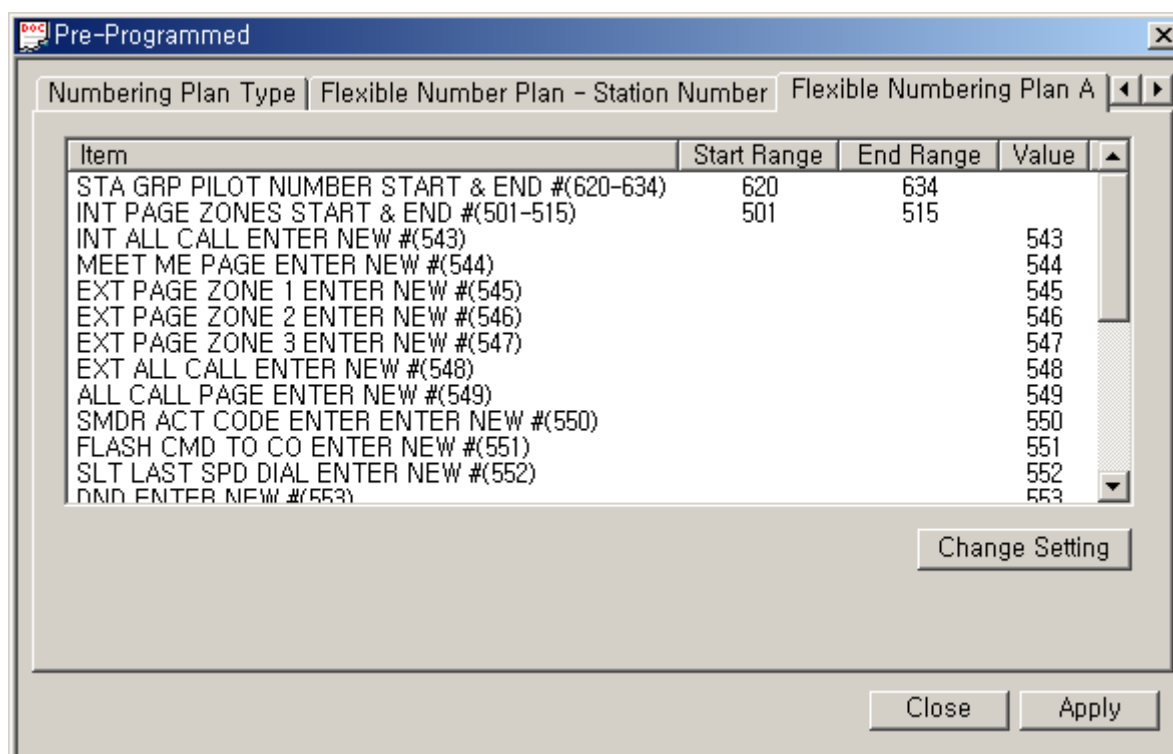
***Can't update the.....***

### Operation

1. Click [Flexible Numbering Plan A] or [Flexible Numbering Plan B]. The displayed numbers are default values according to the numbering plan type(PGM105).



[Figure 2-10-1] Flexible Number Plan A in LDK 300



[Figure 2-10-2] Flexible Number Plan A in LDK 100

- Click on an item you want to change, then click [Change Setting].

3. Put the values.

## 2.8 IP Setting (PGM 108)

You must do IP Setting to transport data remotely through the network.

### Operation

1. Click [IP Setting]. Default values are displayed.
2. IP Name has no meaning at all. You put it within 16 characters. You can put the hostname if you want. But in that case, it is not real hostname.(Option)
3. Server IP Address is IP of LDK-300 system. IP address is assigned by network administrator. If you don't want to use the network connection, you might skip this feature. But if you want to use network connection, you should config this feature.
4. Client CLI IP Address.(Option)
5. Gateway Address is the IP Address of the gateway that system uses. If you don't enter the gateway's IP Address, you can't access the LDK-300 system from another LAN segment that separated by router or 3 layer switch.
6. Subnet Mask is set 255.255.255.0 as default value.

The screenshot shows a software window titled "Pre-Programmed" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are three tabs: "Flexible Numbering Plan A", "Flexible Number Plan B", and "IP Setting". The "IP Setting" tab is currently selected. Below the tabs, there are five input fields arranged in two columns. The first column contains "IP Name" (an empty text box), "Server IP Address" (a text box containing "156 . 147 . 3 . 253"), and "Gateway Address" (a text box containing "0 . 0 . 0 . 0"). The second column contains "CLI IP Address" (a text box containing "0 . 0 . 0 . 0") and "Subnet Mask" (a text box containing "255 . 255 . 255 . 0"). At the bottom right of the window, there are two buttons: "Close" and "Apply".

[Figure 2-11] Network Setting Window

< NOTICE >

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

## 3. Station Base Program

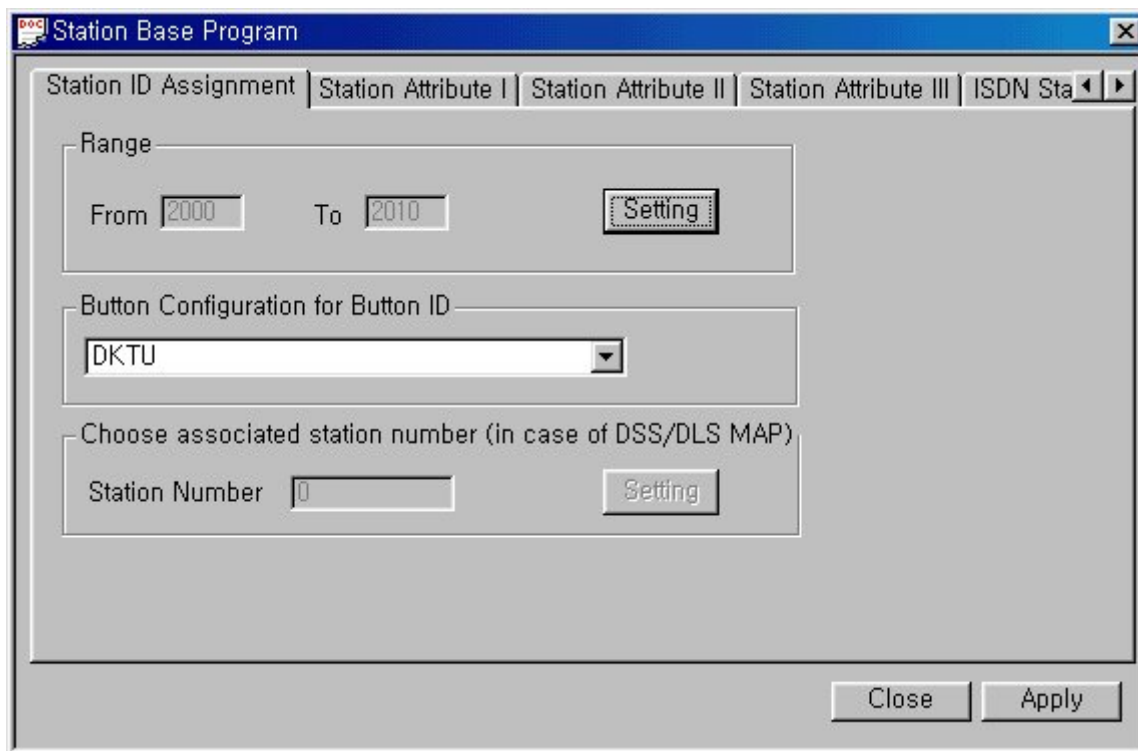
Use Station Base Program to change any station related function. Station Base Program items are from PGM 110 to PGM 124. When you use station base program items, you should enter the station range same as keyset admin.

### 3.1 Station ID Assignment (PGM 110)

This menu is related with assigning the phone type for each station.

#### Operation

1. Click [Station ID Assignment].



[Figure 3-1] Station ID Assignment Window

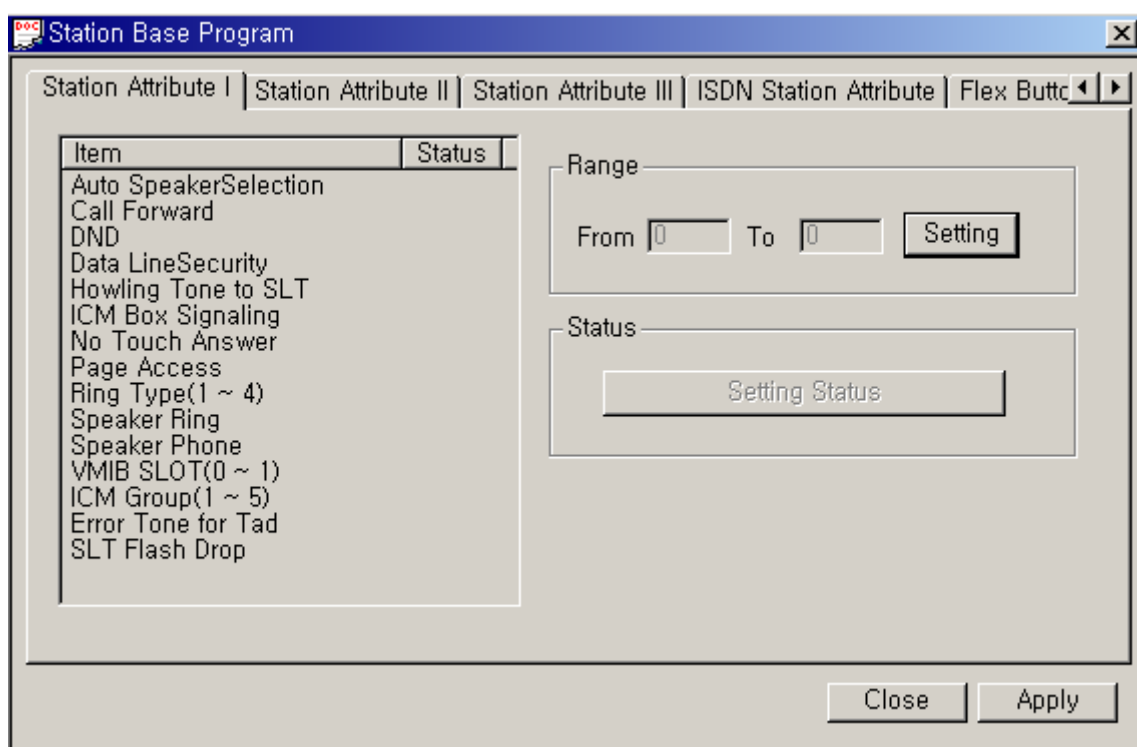
2. Click [Setting], and put the range of the station. On [Button Configuration for Button ID], it will show the phone type of the stations. Default value is DKTU.
3. Select one of the phone types on the box.
4. In case of DSS/DLS map (from DSS MAP1 to DSS MAP8), click [Setting]. Then assign the associated station number.

### 3.2 Station Attribute I (PGM 111) ~ Station Attribute III (PGM 113)

It changes the attributes of each station from PGM 111 to PGM 113. The detail items are displayed left field of the window. So, you can find the special item with easy and you can see whole items of PGM111~113. In the case of keyset administration, you can see any item one by one. In PC admin, user can see whole data in one click.

#### Operation

1. Click Station Attribute I ~ III. The picture below is Station Attribute I. Station Attribute II and III are displayed rightside from Station Attribute I. You can move to another items using property window or [<][>] button that is located right top corner.



[Figure 3-2] Station Attribute Configure Window

2. Click [Setting], and put the station range that you want. You can see the status of each item. Before you put the station range, left side of the window will not display anything.
3. Select an item you want to change, and click [Setting Status]. Look at the table below as reference, and change the value.

| ITEM                   | RANGE               | DEFAULT | REMARK  |
|------------------------|---------------------|---------|---|
| Auto Speaker Selection | ON/OFF              | ON      | Allows accessing a CO line or place a DSS call by pressing appropriate {CO} or {DSS} button without lifting handset or pressing the [MON] 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     | The Allowance to protect from override and camp-on, when busy state.  |
| Howling Tone to SLT    | ON/OFF              | ON      | The allowance to give howling tone to SLT   |
| ICM Box Signaling      | ON/OFF              | OFF     | Allows receiving ICM box signal.  |
| No Touch Answer        | ON/OFF              | ON      | The allowance to connect the transferred CO line automatically when station mode is H/P.  |
| Page Access            | ON/OFF              | OFF     | Allows access to paging by the station.   |
| Ring Type              | 1 - 4               | 1       | The station can give own ring type signal to another station in system through this field calling party centric.                                  |
| Speaker Ring           | (1:S /2:H: /3:BOTH) | SPKR    | Station rings through Speaker or Headset or Both (speaker and headset)  |
| Speaker Phone          | ON/OFF              | ON      | Operate with Speakerphone.  |
| VMIB SLOT              | 0-2                 | 0       | Assign VMIB logical slot the stations use.  |
| ICM Group              | 01-15               | 01      | Assign ICM Tenancy Group 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   |

[Table 3-1] Station Attribute I (PGM 111)

| ITEM                     | RANGE           | DEFAULT | REMARK   |
|--------------------------|-----------------|---------|--|
| CO Warning Tone          | ON/OFF          | OFF     | The allowance to receive warning tone in order to remind the call elapse time in case of outgoing CO conversation.                                 |
| Automatic Hold           | ON/OFF          | OFF     | 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, station's outgoing CO call may be disconnected when CO call restriction timer (PGM 180-BTN 17) is expired.             |
| CO Line Access           | ENABLE /DSIABLE | ENABLE  | The allowance to access individual CO line by dialing.   |
| CO Line Queuing          | ENABLE /DSIABLE | ENABLE  | The allowance of queuing for a busy CO/group of lines.   |
| CO PGM                   | ENABLE /DSIABLE | DISABLE | Determines that each station user can program CO button or not.  |
| PLA                      | ENABLE /DSIABLE | ENABLE  | The allowance to answer calls by simply lifting handset or pressing [MON] button with the answering priority.                                      |
| Prepaid Call             | ON/OFF          | OFF     | The allowance to use Prepaid CO Call feature. (refer PGM180-Btn16)   |
| Speed Dial Access        | ENABLE /DSIABLE | ENABLE  | Allows access to system speed dial by the station.   |
| Two Way Record           | ON/OFF          | OFF     | During Incoming or Outgoing Call, user can record two way voice.   |
| Fax Mode                 | ON/OFF          | OFF     | In Fax mode, Single ring and No Attendant Recall   |



|              |      |         |     |   |
|--------------|------|---------|-----|---|
| Offnet Mode  | Call | EXT/ALL | ALL | ALL : Internal Offnet Call Fwd and External Offnet Call Fwd are allowed.<br>EXT: External Offnet Call Fwd is only allowed |
| UCD Service  | Grp  | ON/OFF  | OFF | When DID/DISA call destination is STA,<br>ON: ring to UCD Grp which the station belongs to.<br>OFF: ring to the station.  |
| Ring Service | Grp  | ON/OFF  | OFF | When DID/DISA call destination is STA,<br>ON: ring to Ring Grp which the station belongs to.<br>OFF: ring to the station. |
| Stop Camp On |      | ON/OFF  | OFF |   |

[Table 3-2] Station Attribute II (PGM 112)

| ITEM                      | RANGE             | DEFAULT | REMARK  |
|---------------------------|-------------------|---------|---|
| ADMIN                     | ENABLE /DSIABLE   | DISABLE | The allowance the station to program Admin Database. This feature is available at only DKTU. (STA_100 : Enable)   |
| VMIB Access               | ENABLE /DSIABLE   | DISABLE | The allowance to access Digital Voice Unit.   |
| Group Listening           | ENABLE /DSIABLE   | DISABLE | The allowance to use group listening (While you are talking on handset, by pressing the [MON] button, other persons around you may hear the conversation through the speaker of the key telephone). |
| Override Privilege        | ENABLE /DSIABLE   | DISABLE | The allowance to override CO line to gain access to the conversation.   |
| SMDR Hidden Dialed Digits | ENABLE /DSIABLE   | DISABLE | The allowance to hide CO dialing number on SMDR printing.   |
| Voice Over                | ENABLE /DSIABLE   | DISABLE | The allowance to use Voice Over feature   |
| Warm Line                 | HOT/WRM           | WARM    | This field is determined that Warm Line(OFF) or Hot Line(ON) in PGM 122.  |
| VMIB MSG Password         | ON/OFF            | OFF     | The allowance to use VMIB MSG Password attributes   |
| VMIB MSG Date/Time        | ON/OFF            | ON      | The allowance to use VMIB MSG   |
| ALARM Attribute           | Flex BTN 1 ON/OFF | OFF     | <b>Alarm MISB(LDK-300)</b><br><b>Alarm MPB(LDK-100)</b>   |
|                           | Flex BTN 2 ON/OFF | OFF     | <b>Alarm RAU 1(LDK-300)</b><br><b>Alarm MISB(LDK-100)</b>   |
|                           | Flex BTN 3 ON/OFF | OFF     | <b>Alarm RAU 2(Only for LDK-300)</b>  |

[Table 3-3] Station Attribute III (PGM 113)

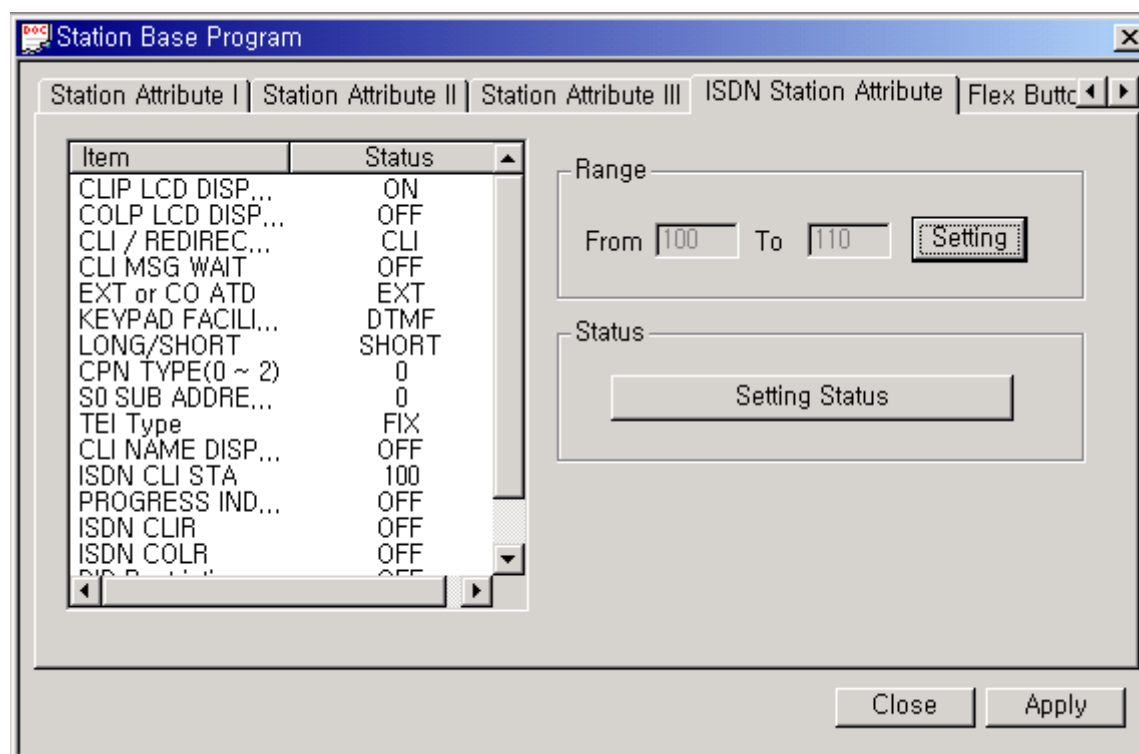
### 3.3 ISDN Station Attribute (PGM 114)

It changes the ISDN Station Attribute. Operation is same as Station Attribute.

#### Operation

1. Click [ISDN Station Attribute]. Then you can find small window like below.
2. The operation is the same as the Station Attribute.
3. Click [Setting], put the station range. You can see the status of each item.

- Select an item you want to change, and click [Setting Status]. Look at the table below as reference, and change the value.



[Figure 3-3] ISDN Station Attribute Window

| ITEM                   | RANGE        | DEFAULT | REMARK  |
|------------------------|--------------|---------|---|
| CLIP LCD DISPLAY       | ON/OFF       | ON      | This field is determined that a station display CLIP or not.                                    |
| COLP LCD DISPLAY       | ON/OFF       | OFF     | This field is determined that a station display COLP or not.                                    |
| CLI / REDIRECT DISPLAY | RED/CLI      | CLI     | To Select Original CLI or Redirected CLI.<br>ON: Original CLI, OFF: Redirected CLI              |
| CLI MSG WAIT           | ON/OFF       | OFF     | This field is determined that a station receive CO message wait or not.<br>ON:YES, OFF:NO       |
| 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 that ISDN station sends digit in DTMF or keypad facility after connected. |
| LONG/SHORT             | LONG /SHORT  | SHORT   | This field determines that ISDN station acts in Short passive mode or not..                     |

|                     |             |                 |  |
|---------------------|-------------|-----------------|--|
| CPN TYPE            | 0-2         | 0               | This field indicates how the CPN IE is filled in SETUP message.<br>0: Do not sent CPN(Called Party Number) to S0. In this case, all S0 STA of the S port will be ringing.<br>1: Send station number as CPN<br>2: Bypass the CPN from the network.<br>(In the case of 1 & 2, only one specific STA will be ringing) |
| S0 SUB ADDRESS      | 0-2         | 0               | This field indicates how the sub-address used in SETUP message.<br>0: Station sub-address not used.<br>1: Sub-address is filled in the CPN field of SETUP message.<br>2: Sub-address is filled in the CPSN(Called Party Sub-address Number) field of SETUP.  |
| TEI Type            | AUTO/FIXED  | FIXED           | To Select TEI Type<br>Fixed, Automatic   |
| CLI NAME DISPLAY    | ON/OFF      | OFF             | If this field is ON, the system check whether the received CLI is matched with the speed dial data or not. If they are matched, the speed dial name is displayed.  |
| ISDN CLI STA        | MAX 4 digit | 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 ON and a SLT seize a ISDN line, the progress indication IE that indicates the originator is non-ISDN device is made in SETUP message.  |
| ISDN CLIR           | ON/OFF      | OFF             | If this field is ON, does not send CLI Information and restrict PX send it.  |
| ISDN COLR           | ON/OFF      | OFF             | If this field is 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 indicate  |

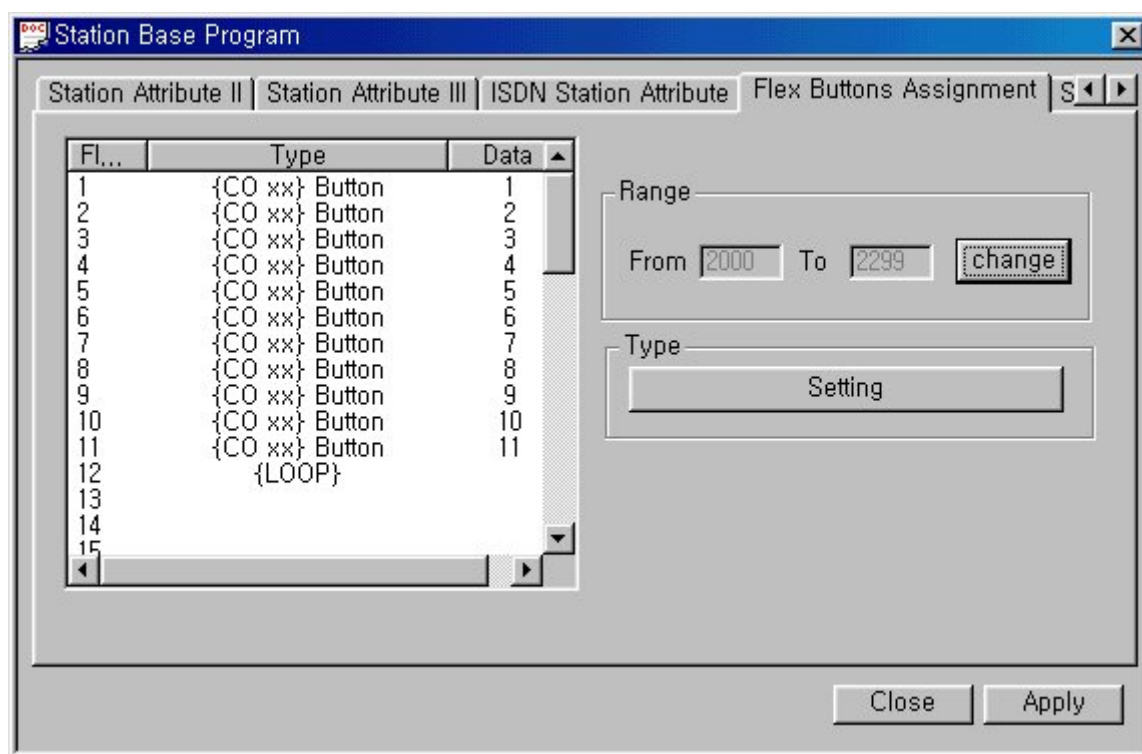
[Table 3-4] ISDN Station Attributes (PGM 114)

### 3.4 Flex Buttons Assignment (PGM 115)

Flex buttons could be assigned to perform one of the functions below.

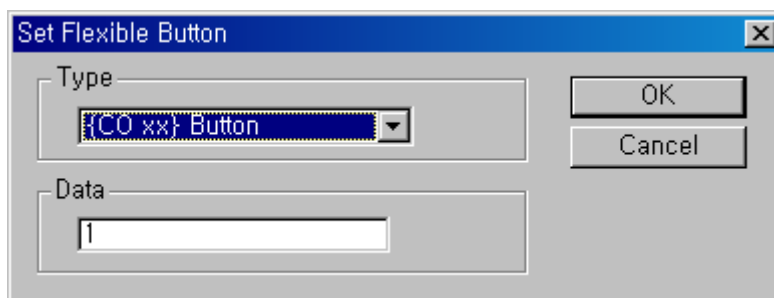
#### Operation

1. Click [Flex Button Assignment].
2. Click [change] and put the station range. The dialog below shows the default values of 12 flex buttons.



[Figure 3-4] Station ID Assignment Window

3. If you want to assign another function to a flex button, click on the flex button and click [Setting]. You will see the dialog below.



[Figure 3-5] Station ID Assignment Window

4. Refer to the table below, and put the type and data in the boxes. Pressing [OK], it displays the changed values. If the data is not in the range specified in the table, you will see an error message.
5. **Before you enter the new value, you should check the whole data with Fig[3-4] window. The reason is to avoid entering duplicated value.**

| Type           | RANGE         | REMARK   |
|----------------|---------------|--|
|                | LDK 300       |  |
| User Button    | -             | User can program by button programming procedure.<br>(empty) |
| {CO xx} Button | 001- 200      | CO Line  |
| {CO Grp xx}    | 01 - 72       | CO Group   |
| {LOOP}         |               |  |
| {STAxxxx}      | 100 - 399     | Station No.  |
| Sta PGM Button | 11 - 99       |  |
| {STA SPDxx}    | 00 -99        | Station Speed Bin  |
| {SYS SPDxxxx}  | 2000 - 4999   | System Speed Bin   |
| Num Pln Button | Num Plan Code |  |

[Table 3-5-1] Available Information for Flex Button Assignment in LDK-300

| Type           | RANGE         | REMARK   |
|----------------|---------------|--|
|                | LDK 100       |  |
| User Button    | -             | User can program by button programming procedure.<br>(empty) |
| {CO xx} Button | 01- 40        | CO Line  |
| {CO Grp xx}    | 01 - 24       | CO Group   |
| {LOOP}         |               |  |
| {STAxxxx}      | 100 - 227     | Station No.  |
| Sta PGM Button | 11 - 99       |  |
| {STA SPDxx}    | 00 - 99       | Station Speed Bin  |
| {SYS SPDxxxx}  | 2000 - 3499   | System Speed Bin   |
| Num Pln Button | Num Plan Code |  |

[Table 3-5-2] Available Information for Flex Button Assignment in LDK-100

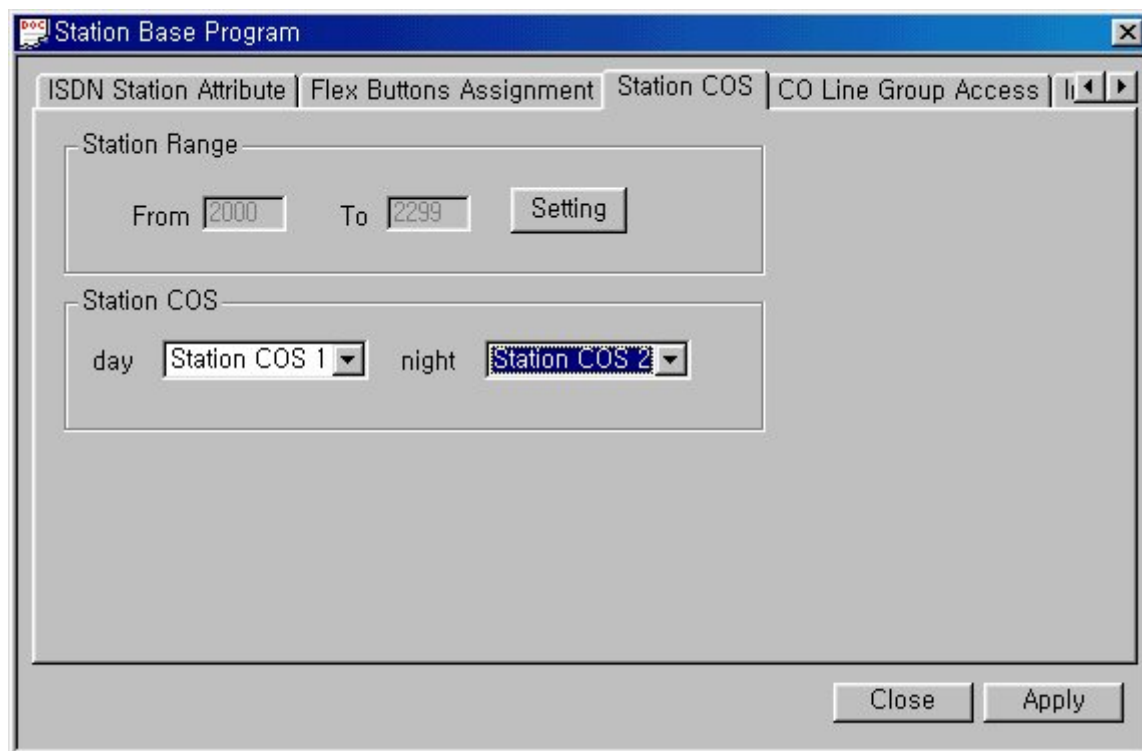
### 3.5 Station COS (PGM 116)

You can change COS(Class of Service) for each station. COS is from the 1<sup>st</sup> Class to the 7<sup>th</sup> class. All station COS for day and night operation is the 1<sup>st</sup> class as default.

For a particular call, the CO COS is combined with station COS to determine 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 [Station COS].
2. Press [Setting] button, and assign the station range.
3. For day and Night you select a station COS, and click [Apply]. You can select available value with only mouse scroll in combo box.
4. Press [Apply] Button



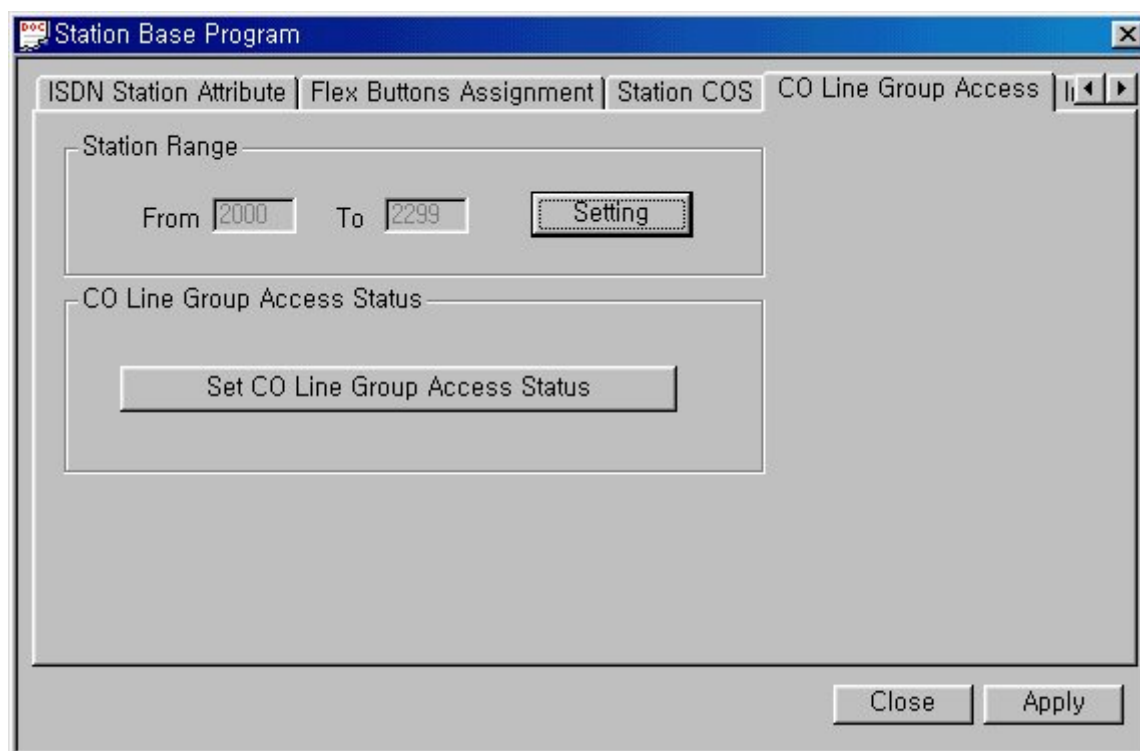
[Figure 3-6] Station COS Assignment Window

### 3.6 CO Line Group Access (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.

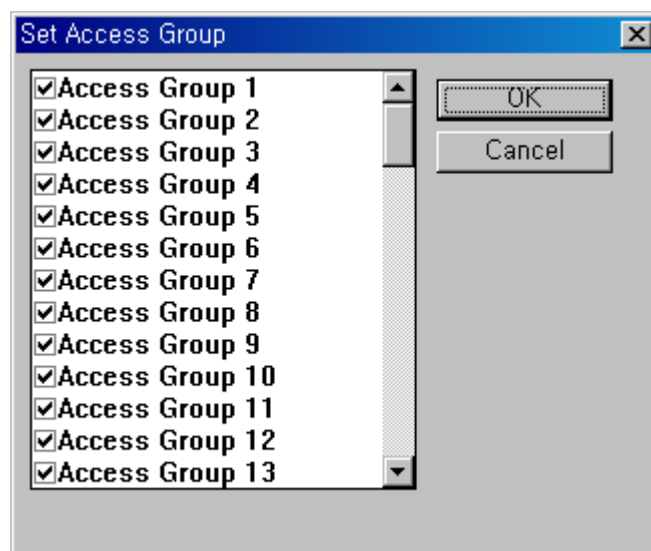
#### Operation

1. Click [CO Line Group Access]
2. Click [Setting], and set the station range. Then [Set CO Line Group Access Status] is activated.



[Figure 3-7] CO Line Group Access Setting Window

3. Clicking [Set CO Line Group Access Status], you will see a dialog below.



[Figure 3-8] Access Group List Window

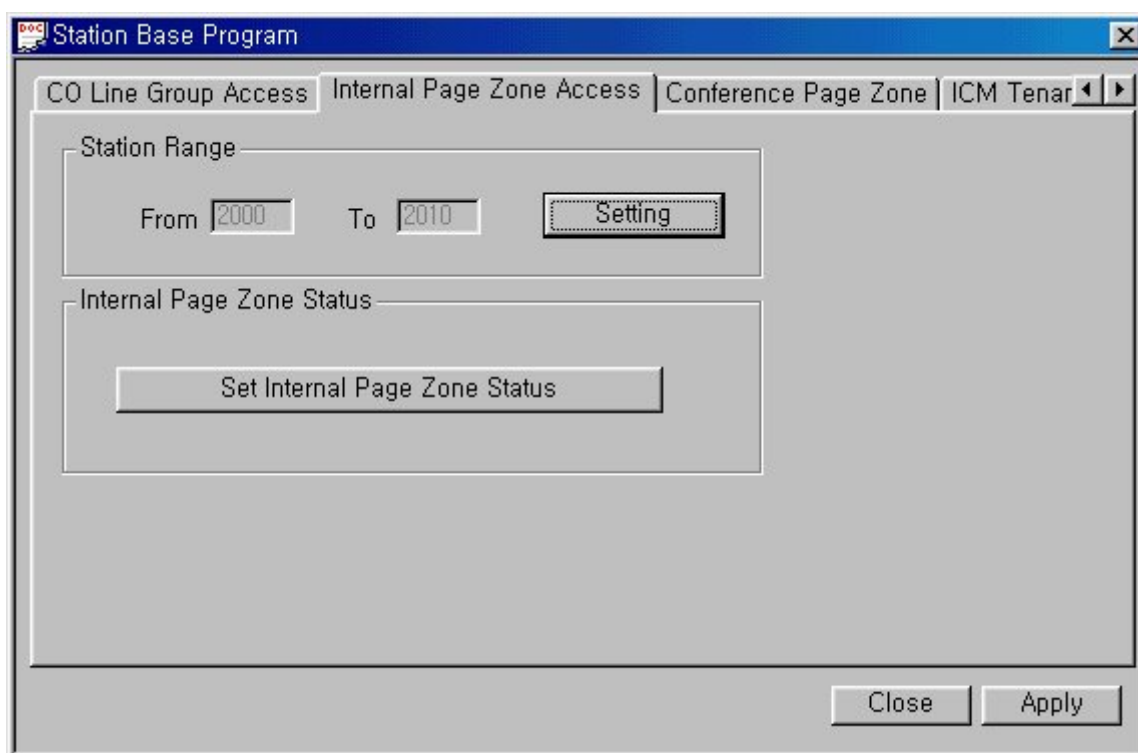
4. All the stations have access to all the CO Lines as default. You check CO Groups you don't want to use and click [OK].

### 3.7 Internal Page Zone Access (PGM 118)

Each station can be assigned to internal paging zone. You can assign a station in a number of zones or no zone at all. If station is not in any internal zone, it will not receive any page announcement. In LDK-300 system it supports 30 internal paging zones and in LDK-100 system it supports 10 internal paging zones

#### Operation

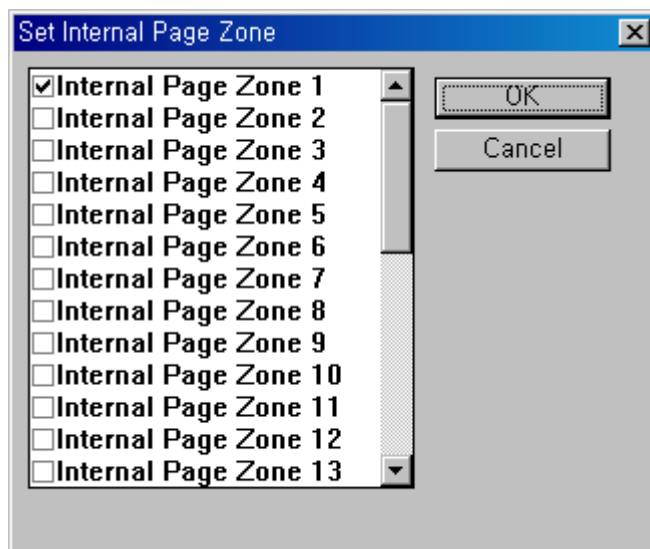
1. Click [Internal Page Zone Access].
2. Click [Setting] to change station range. [Set Internal Page Zone Status] button will be activated.



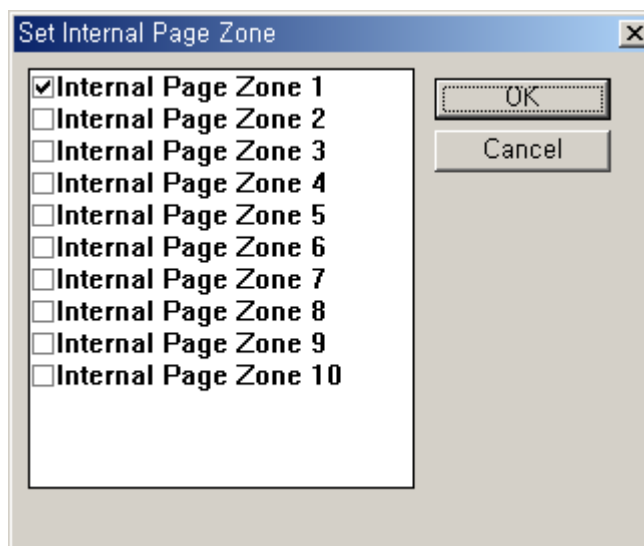
[Figure 3-9] Internal Page Zone Status Setting Window

3. Click [Set Internal Page Zone Status], and the dialog box below will be appeared
4. 1Select a desired Internal Page Zone, and click [OK]





[Figure 3-10-1] Internal Page Zone List Window in LDK-300



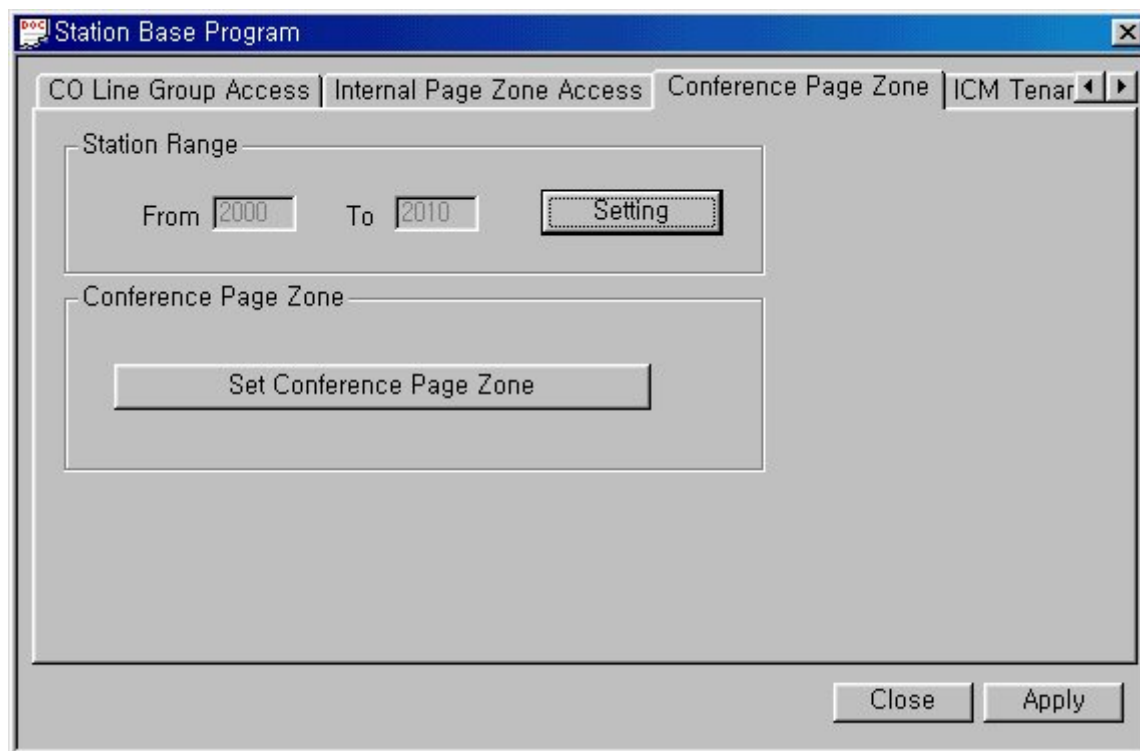
[Figure 3-10-2] Internal Page Zone List Window in LDK-100

### 3.8 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. In LDK-300/100 system it supports total 5 conference paging zones.

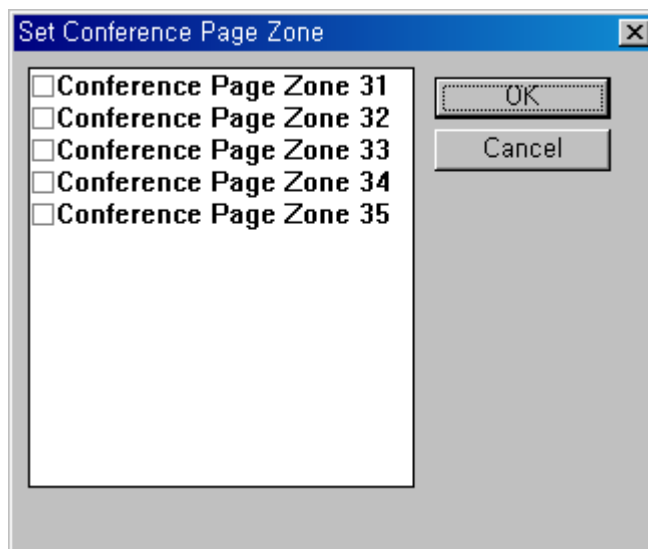
#### Operation

1. Click [Conference Page Zone].
2. Click [Setting] to change station range. [Set Conference Page Zone Status] button will be activated.

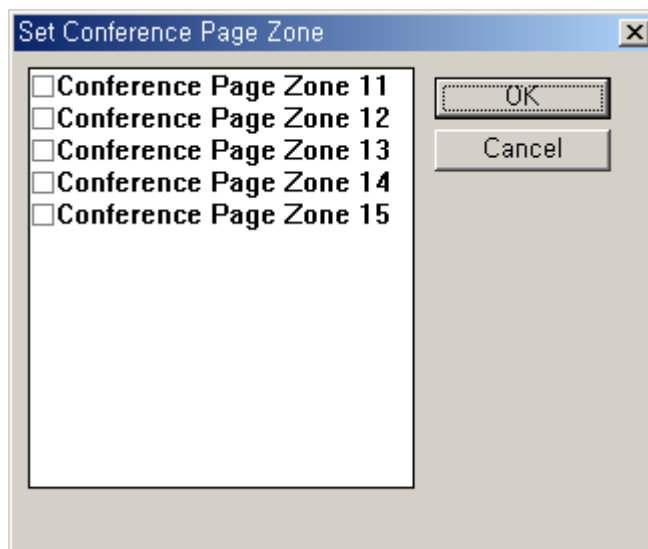


[Figure 3-11] Conference Page Zone Setting Window

3. Click [Set Conference Page Zone], you will see the dialog below.
4. As default no station is assigned to any Conference Page Zone at all.



[Figure 3-12-1] Conference Page Zone List Window in LDK-300



[Figure 3-12-2] Conference Page Zone List Window in LDK-100

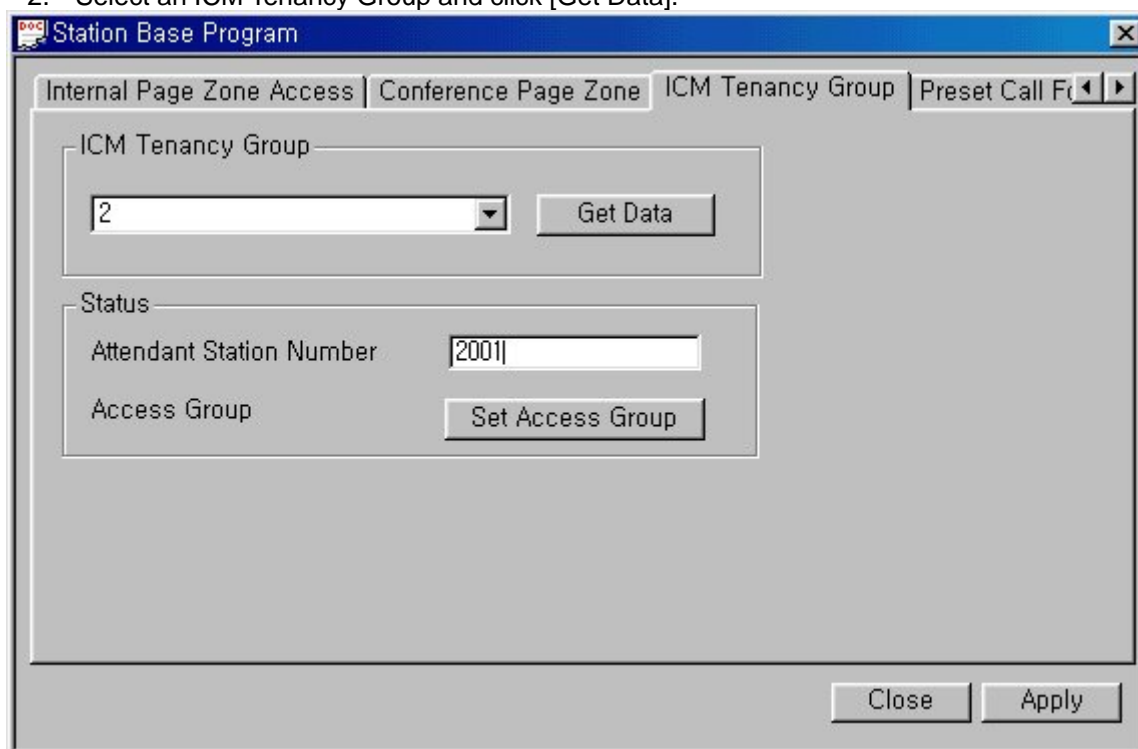
5. Click check boxes and press [OK] button.

### 3.9 ICM Tenancy Group (PGM 120)

You may assign a station to a ICM Tenancy Group, and restrict ICM Tenancy Groups to call each other. And each ICM Tenancy Group can be assigned to a different attendant. In LDK-300 system, 15 ICM Tenancy Group may exist, so does attendant.

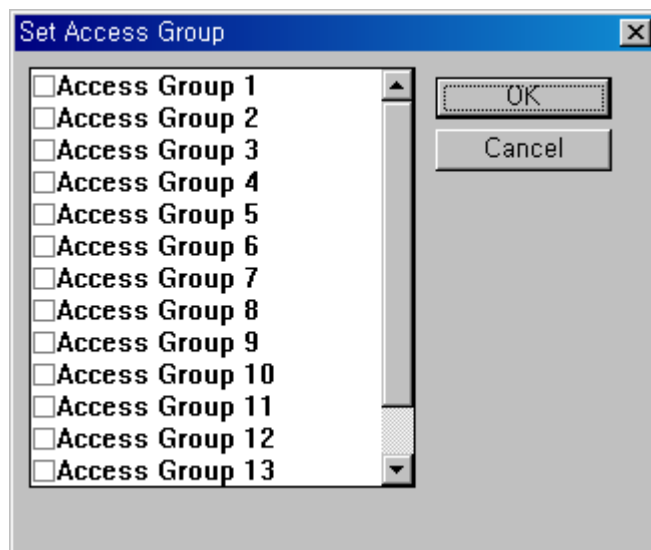
#### Operation

1. Click [ICM Tenancy Group]
2. Select an ICM Tenancy Group and click [Get Data].

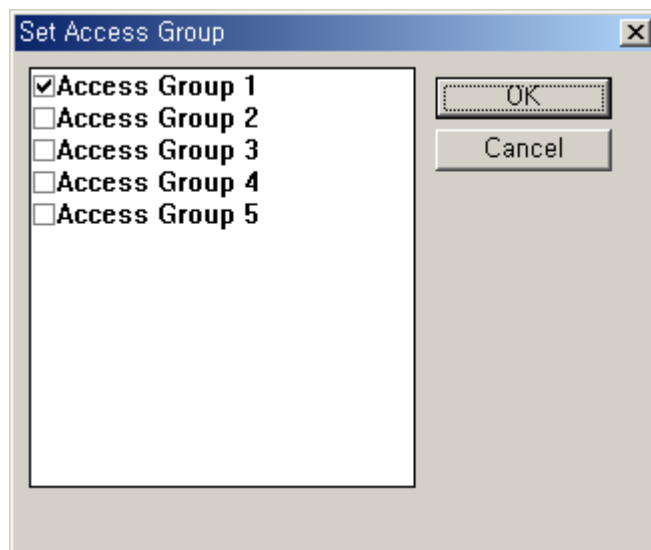


[Figure 3-13] ICM Tenancy Group Setting Window

3. Put an attendant station number for the ICM Tenancy Group you have just selected.
4. Click [Set Access Group], and check which access groups to give the ICM Tenancy Group a permission to call.



[Figure 3-14-1] ICM Tenancy Group List Window in LDK-300



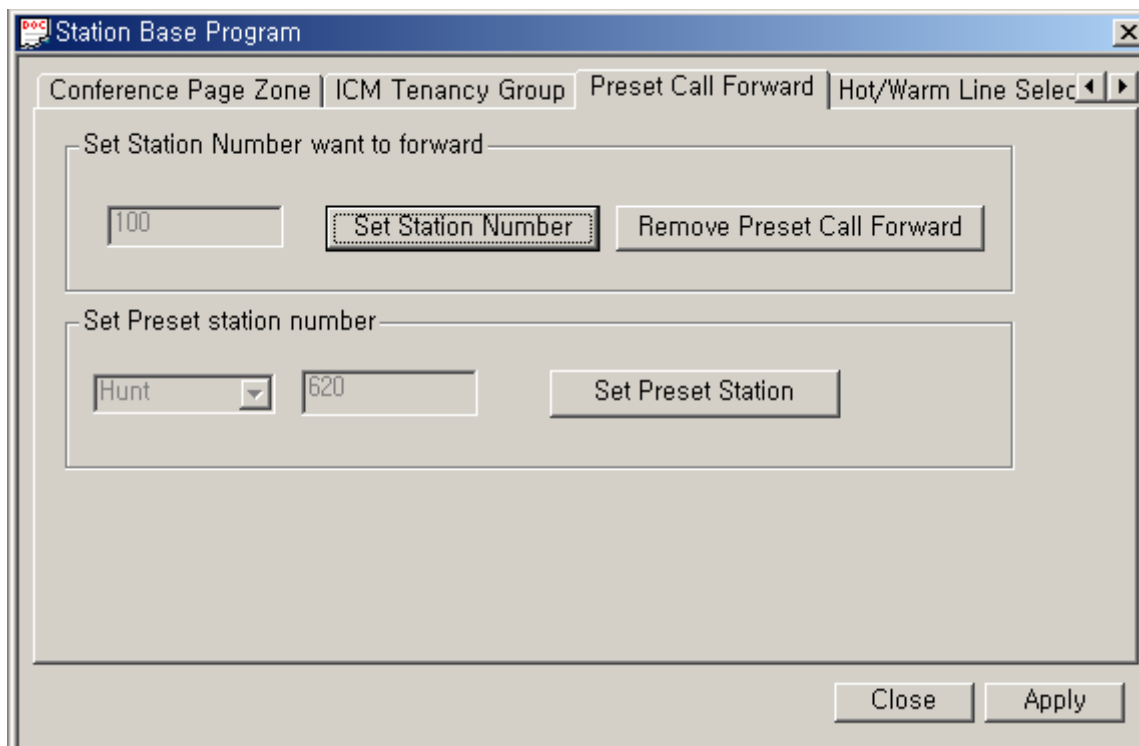
[Figure 3-14-2] ICM Tenancy Group List Window in LDK-100

### 3.10 Preset Call Forward (PGM 121)

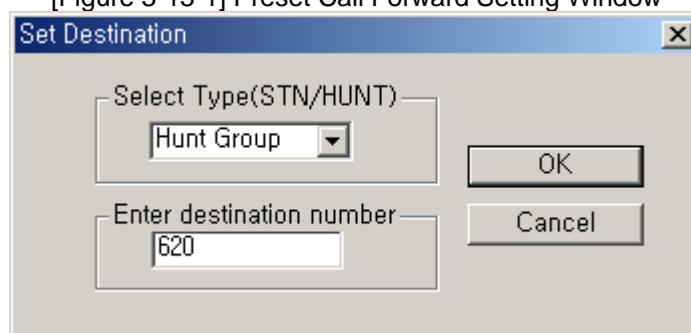
If a station doesn't respond to an outside call for a certain period of time, the call may be forwarded to another station.

#### Operation

1. Click [Preset Call Forward].



[Figure 3-15-1] Preset Call Forward Setting Window



[Figure 3-15-2] Preset Call Forward Setting sub Window

2. Click [Set Station Number], and put a station number that is to be forwarded. At that time, if there is programmed destination station, it will be displayed. But if not, there will be nothing.
3. Click [Set Preset Station], and put Type and destination number to get the forwarded call.
4. Click [Remove Preset Call Forward] to remove a station that is set to be forwarded (a station number you just set on step 2)

### 3.11 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 warm line, is activated when takes no action for 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

1. Click [Hot/Warm Line Selection]
2. Click [Setting], and put the station range

[Figure 3-16] Hot/Warm Line Selection Setting Window

3. Change [Idle line assign] (look at the table below)
4. Click [Setting] for idle line selection set data, and put the data in.

| DGT | ITEM      | RANGE     | REMARK  |
|-----|-----------|-----------|---|
| 1   | Flex. BTN | 01 - 48   | To activate a feature on a flex button as if pressed. |
| 2   | CO Line   | 001 - 200 | To seize a CO Line                                    |
| 3   | CO Group  | 01 - 72   | To seize a CO Line Group                              |
| 4   | Station   | 100 - 399 | To call an another station                            |

[Table 3-6-1] Available Information for Hot/Warm Line Selection in LDK-300

| DGT | ITEM      | RANGE     | REMARK  |
|-----|-----------|-----------|---|
| 1   | Flex. BTN | 01 - 48   | To activate a feature on a flex button as if pressed. |
| 2   | CO Line   | 01 - 40   | To seize a CO Line                                    |
| 3   | CO Group  | 01 - 24   | To seize a CO Line Group                              |
| 4   | Station   | 100 - 227 | To call an another station                            |

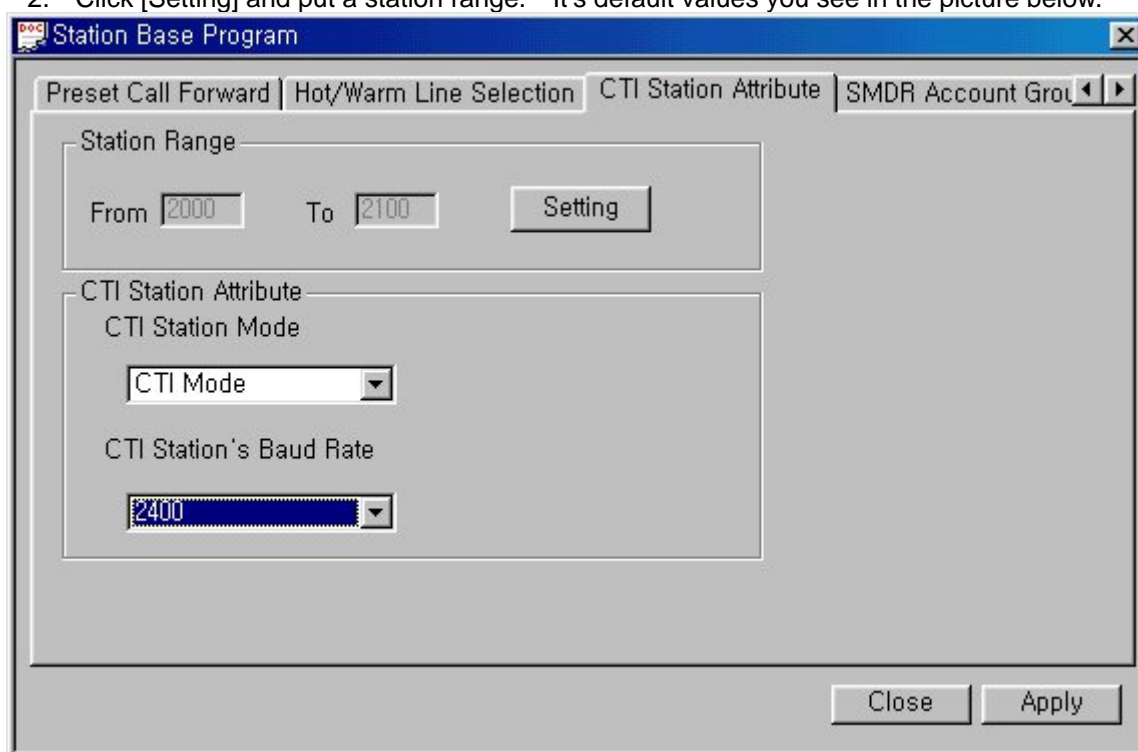
[Table 3-6-2] Available Information for Hot/Warm Line Selection in LDK-100

## 3.12 CTI Attribute (PGM 123)

This menu will set up CTI attribute.

### Operation

1. Click [CTI Attribute].
2. Click [Setting] and put a station range. It's default values you see in the picture below.



[Figure 3-17] CTI Station Attribute Setting Window

3. Select [CTI Station Mode] and [Baud Rate]

| ITEM                    | DEFAULT | RANGE | REMARK  |
|-------------------------|---------|-------|---|
| CTI Station Mode        | 1       | 0-2   | Determines the CTI keyset mode<br>0: Inactive, 1: CTI Mode, 2: At Mode  |
| CTI Station's Baud Rate | 0       | 0-2   | Determines the baud rate of the CTI keyset<br>0: 1200, 1: 2400, 2: 4800 |

[Table 3-7] CTI Station Attribute (PGM 123)

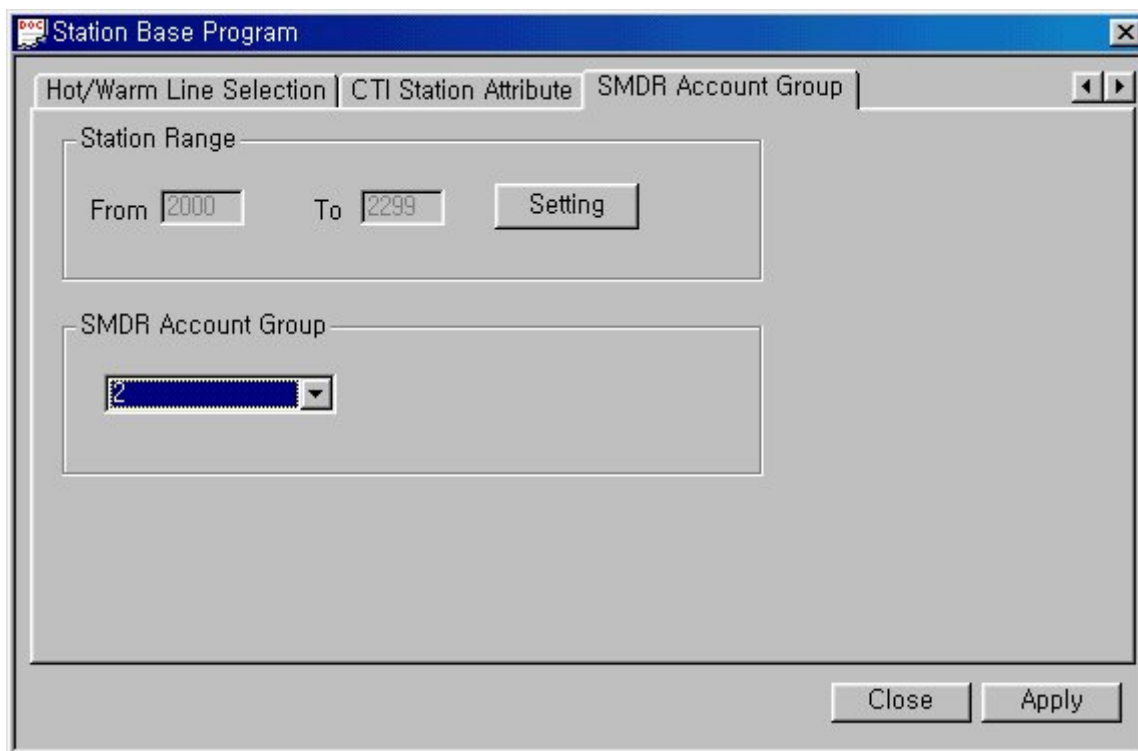
## 3.13 SMDR Account Group (PGM 124)

Stations can be assigned as member of call account group on SMDR. A station belongs to only one call account group. The system supports **99(LDK300)/24(LDK100)** SMDR Account Groups.

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

### Operation

1. Click [SMDR Account Group].
2. Click [Setting], and set the station range.



[Figure 3-18] SMDR Account Group Setting Window

3. Select an account group.



## 4. CO Line Base Program

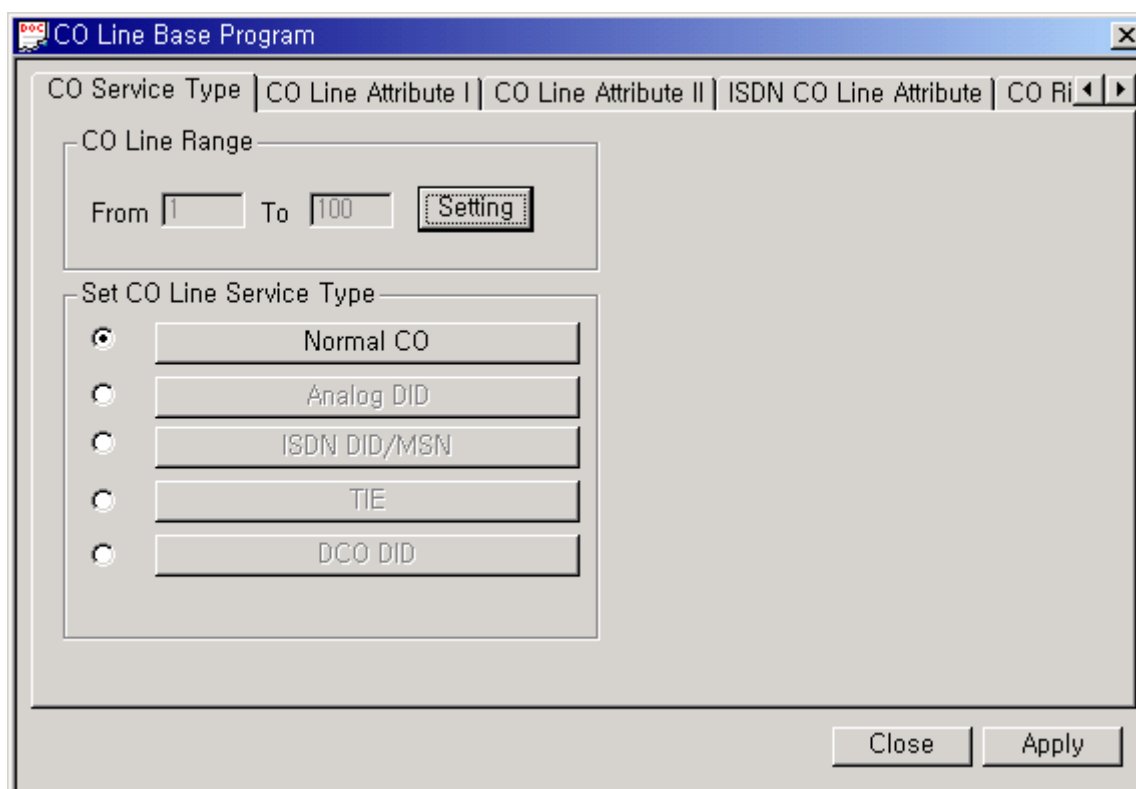
Use this CO Line Base Program to change CO Line features. The program number is from PGM140 TO PGM144.

### 4.1 CO Service Type (PGM 140)

Set a CO service type.

#### Operation

1. Click [CO Service Type].
2. Click [Setting], and set a CO line range.
3. There are 4 CO line service types. Normal CO is the default value. Select a service type.  
***Then press [Apply] button before programming attributes. If you continue process without pressing [Apply] button, PC Admin software may produce incorrect information.***



[Figure 4-1] CO Service Type Setting Window

| ITEM             | REMARK   |
|------------------|--|
| Normal CO        | <p>All lines are assigned as normal CO lines as default.</p> <p>Each CO line in the system can be programmed as DISA (Direct Inward System Access) line and the DISA types are as follows;</p> <ul style="list-style-type: none"> <li>- Flex BTN 1 (Day) / 2 (Night) / 3 (Weekend)</li> <li>- <i>Each DISA type(BTN 1-3) has sub-attributes</i></li> </ul> <p>F1: DISA Service On/Off.</p> <p>F2: VMIB Message No.(Voice announcement(VMIB Message) can be assigned (00-70) and it is not assigned (00) as default</p> |
| ANALOG DID       | <p>Each CO line in the system can be programmed as DID (Direct Inward Dialing) line and the DID types are as follows;</p> <ul style="list-style-type: none"> <li>- 1(Immediate Start) / 2 (Wink Start) / 3 (Delayed Dial Start)</li> </ul> <p><i>(BTN 1-3 are exclusive)</i></p>   |
| ISDN DID/<br>MSN |  |
| TIE              | <p>TIE line types are as follows;</p> <ul style="list-style-type: none"> <li>- 1 (RD) / 2 (LD) / 3 (EM-C) / 4 (EM-D) / 5(EM-I)</li> </ul>  |
| DCO DID          | DCO DID Line(This type will be valid in a few country. For example, Korea)   |

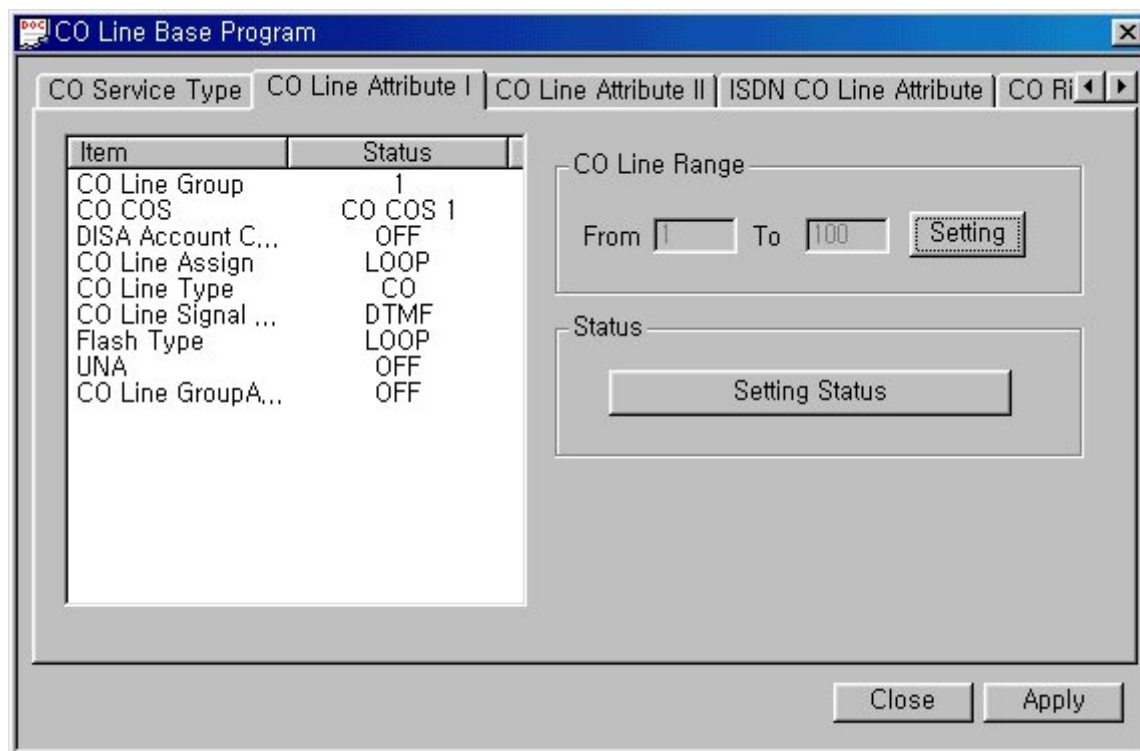
[Table 4-1] CO Service Type (PGM 140)

## 4.2 CO Line Attribute I - II(PGM 141 - 142)

This will change CO Line Attribute.

### Operation

1. Click [CO Line Attribute I] or [CO Line Attribute II].
2. Operation for [CO Line Attribute I] and [CO Line Attribute II] are same.
3. Click [Setting] to set the CO Line Range.



[Figure 4-2] CO Line Attribute I Setting Window in LDK-300

4. To change the status of an item, select it and press [Setting Status] button, and click [OK]. You will see the status is changed for the item.

| ITEM                  | RANGE  | DEFAULT | REMARK  |
|-----------------------|--|---------|---|
| CO Line Group         | <b>00-73(LDK300)</b><br><b>00-25(LDK100)</b> | 01      | Groups should be assigned according to CO type and Class-Of-Service. (00:private 73:not_used)   |
| CO COS                | 1-5  | 1       | -CO COS 1: no restriction<br>-CO COS 2: Exception Table A governs<br>-CO COS 3: Exception Table B governs<br>-CO COS 4: restricts Long Distance Code<br>-CO COS 5: overrides STA. COS 2,3,4 and 5, 6. |
| DISA Account Code     | ON/OFF                                       | OFF     | When accessed 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    | DTMF, Pulse   |
| Flash Type            | GROUND/LOOP                                  | LOOP    | Ground , Loop   |
| UNA                   | ON/OFF                                       | OFF     | The allowance of Universal Night Answer service   |
| CO Line Group Account | ON/OFF                                       | OFF     |   |

[Table 4-2] CO Line Attribute I (PGM 141)

| 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 in Co incoming.  |
| CO Line Name Assign    | Max 12 char                                | -       | Max 12 character   |
| Metering Unit          | 00-06                                      | 00      | There are 7 metering signal types:<br>- 0 : None<br>- 1 : 50 Hz<br>- 2 : 12 KHz<br>- 3 : 16 KHz<br>- 4 : Singular Polarity Reverse (SPR)<br>- 5 : Plural Polarity Reverse (PPR)<br>- 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 system drops the line for toll restriction.  |
| CO Distinct Ring       | 0-4  | 0       | The CO can give his own ring type signal to station in system through this field. This ring type can be programmed at PGM 422.   |
| CO Line MOH            | <b>0-13(LDK300)</b><br><b>0-12(LDK100)</b> | 1       | 0: Not assigned by this field.<br>1: Internal Music<br>2~4: External Music<br>5~7: VMIB MOH<br>8-12: SLT MOH<br>13: Hold Tone  |
| PABX CO Dial Tone      | YES/NO                                     | YES     | YES: In this case, PX or PABX provides dial tone.<br>NO: In this case 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.).<br>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.).<br>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.).<br>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.).<br>YES: PX, NO: System |
| CO Flash Timer         | 000 - 300 | 005 | 10 msec base  |
| Open Loop Detect Timer | 00 - 20   | 00  | 100 msec base   |

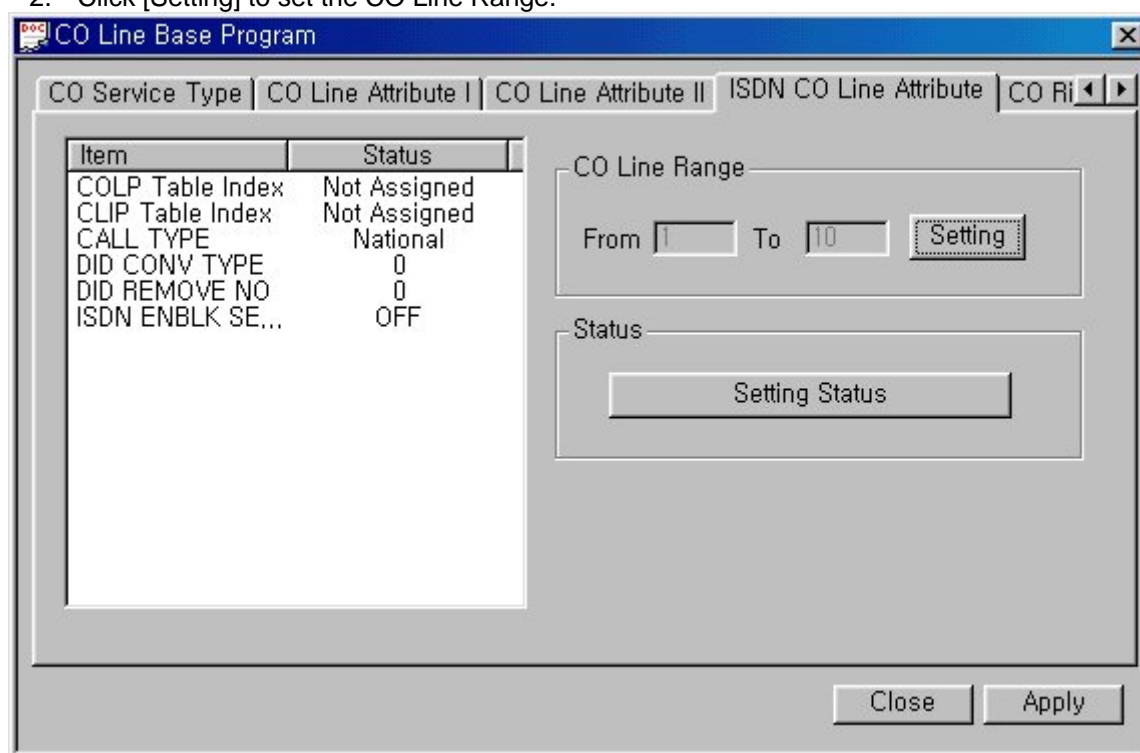
[Table 4-3] CO Line Attribute II (PGM 142)

### 4.3 ISDN CO Line Attribute (PGM 143)

This will change ISDN CO Line Attribute.

#### Operation

1. Click [ISDN CO Line Attribute].
2. Click [Setting] to set the CO Line Range.



[Figure 4-3] CO Line Attribute II Setting Window

3. To change the status of an item, select it and press [Setting Status] button, and click [OK]. You will see the status is changed for the item.
4. If you want change COLP/CLIP table index value into Not Assigned, you should erase whole data of setting dialog box and press [OK] button. Then the system will erase that data.

| ITEM              | RANGE             | DEFAULT      | REMARK  |
|-------------------|-------------------|--------------|---|
| COLP Table Index  | 00 - 50           | Not Assigned | To make called party number with assigned COLP Table entry. (PGM 201)<br>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)<br>00~49: PGM 201 Bin No. / 50: PGM 11-BTN 5                 |
| Call Type         | 0 - 4             | 2            | 0: Unknown<br>1: International<br>2: National<br>3: Not used<br>4: Subscriber   |
| DID CONV Type     | 0 - 2             | 0            | 0: convert digits by DID Dgt Conversion (PGM230)<br>1: call to the valid extension.<br>2: convert digits by Flex DID Table (PGM231) |
| DID Remove No.    | 00 - 99           | Not Assigned | Remove received digits from the left as to the assigned #   |
| ISDN Enblock Send | ON/OFF            | OFF          | ON: Enblock Sending Mode<br>OFF: Overlap Sending Mode   |
| CLI Transit       | ORI(1)/C<br>FW(0) | CFW(0)       | ORI : Send CLI as the originate caller's CLI.<br>CFW : Send CLI as the call forwarded station's CLI.                                |

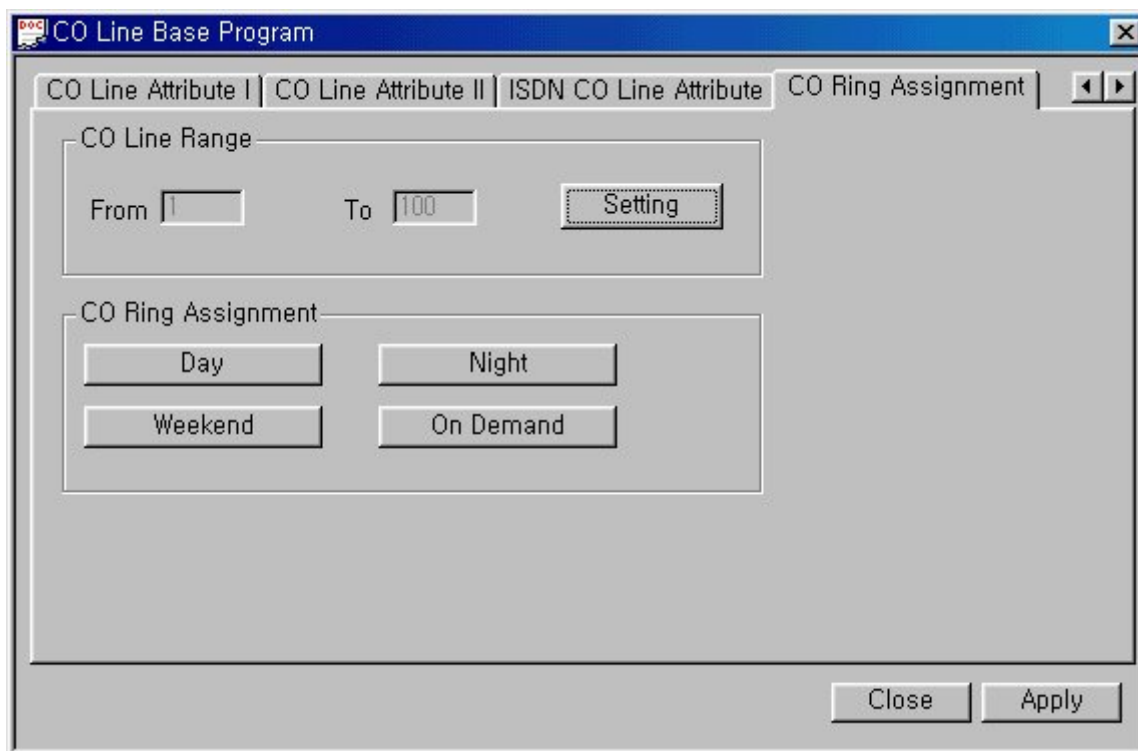
[Table 4-4] ISDN CO Attribute (PGM 143)

## 4.4 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.

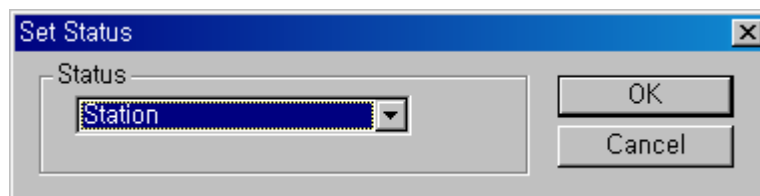
### Operation

1. Click [CO Ring Assignment].
2. Click [Setting] to set the CO Line Range.
3. In this feature, [Apply] / [Reload] button are no meaning.



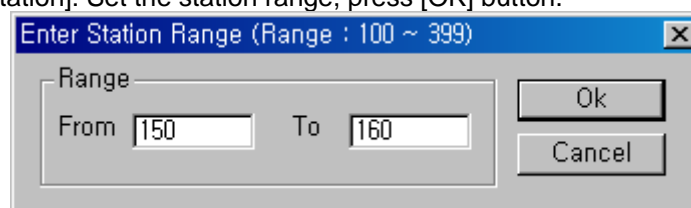
[Figure 4-4] CO Ring Assignment Setting Window

4. Select a CO Ring Assignment, the picture below is showed.



[Figure 4-5] Type Selection for Destination

- Selecting [Station]: Set the station range, press [OK] button.



[Figure 4-5] Range Selection for CO Ring Assignment

- Select delay.

CO Ring Assignment

Station Range Delay

From 120 To 120

Delay 3

Ok Cancel

[Figure 4-6] Delay Setting for CO Ring Assignment

- Selecting [Hunt] : It rings at the Hunt Group Number that's specified below.

Enter Hunt Group Number

Hunt Group Number

62

OK Cancel

[Figure 4-7] Hunt Group Number Setting for CO Ring Assignment

- Selecting VMIB : The message will be showed.

Enter VMIB Message

VMIB Message

OK Cancel

[Figure 4-8] VMIB Message Number Setting for CO Ring Assignment

| ITEM    | DEST TYPE                     | RANGE                     | DEFAULT      |
|---------|-------------------------------|---------------------------|--------------|
| DAY     | TYPE 1 : STA RANGE<br>+ DELAY | STA RANGE                 | Not Assigned |
| NIGHT   |                               | DELAY : 0 - 9             | Not Assigned |
| WEEKEND | TYPE 2 : HUNT GRP             | <b>HUNT GRP : 620-667</b> | Not Assigned |
| ON-D    | TYPE 3 : VOICE MSG            | VOICE MSG : 01-70         | Drop : #     |

[Table 4-5-1] Button Configuration for CO STATION RING Attribute(**LDK-300**) (PGM 144)

| ITEM    | DEST TYPE                     | RANGE                     | DEFAULT      |
|---------|-------------------------------|---------------------------|--------------|
| DAY     | TYPE 1 : STA RANGE<br>+ DELAY | STA RANGE                 | Not Assigned |
| NIGHT   |                               | DELAY : 0 - 9             | Not Assigned |
| WEEKEND | TYPE 2 : HUNT GRP             | <b>HUNT GRP : 620-634</b> | Not Assigned |
| ON-D    | TYPE 3 : VOICE MSG            | VOICE MSG : 01-70         | Drop : #     |

[Table 4-5-2] Button Configuration for CO STATION RING Attribute(**LDK-100**) (PGM 144)



## 5. System Base Program

Use this System Base Program to change any system features.

### 5.1 System Attribute I (PGM 160) - System Attribute II (PGM 161)

It changes system attribute.

#### Operation

1. Click [System Attribute I] or [System Attribute II]

The screenshot shows a Windows-style application window titled "System Base Program". It has a tabbed interface with the following tabs: "System Attribute I", "System Attribute II", "ADMIN Password", "Alarm Attributes", and "Attendant Assi". The "System Attribute I" tab is currently selected. The window contains several settings, each in a separate box with a label and a dropdown menu:

- Attendant Call Queuing Ringback Tone: OFF
- CAMP. MOH/RBT: MOH
- CO Line Choice: LAST
- DISA Retry Counter: 3
- ICM Continuous Dial-Tone: CONTINUE
- CO Dial-Tone Detect: OFF
- External Night Ring: OFF
- Hold Preference: SYS
- Multi-line Conference: ON
- SMDR Print LCR Convert: OFF
- Conference Warning Tone: ON
- Offnet Prompt Usage: ON
- Offnet DTMF Tone: ON

At the bottom right of the window, there are two buttons: "Close" and "Apply".

[Figure 5-1] System Attribute - I Setting Window

2. Refer to the tables below, and change the values.

| ITEM                                       | RANGE        | DEFAULT | REMARK  |
|--|--------------|---------|---|
| Attendant Call<br>Queuing<br>Ringback Tone | ON/OFF       | OFF     | ON: The station will be present ring back tone when calling busy attendant station.<br>OFF : The station will be present MOH, hold tone or DVU-MOH by system database (PGM 171-BTN 2)   |
| CAMP RBT/MOH                               | RBT/MOH      | MOH     | MOH is heard in camp-on<br>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<br>Counter                      | 1-9          | 3       | When the DISA user fails to call Station or access feature, then DISA user can retry other call or feature within this retry counter. If DISA user cannot access appropriately within this counter, system disconnects the DISA Line automatically. |
| ICM Continuous<br>Dial-Tone                | CONT/DISCONT | CONT    | This field set whether ICM dial tone is continuous or not.  |
| CO Dial-Tone<br>Detect                     | ON/OFF       | OFF     | When the speed dial is activated, system detect dial tone using CPT instead of pause timer.   |
| External Night<br>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<br>Conference                   | ON/OFF       | ON      | The system allows a conference with multi-CO lines.   |
| Prt LCR Conv<br>Dgt                        | ON/OFF       | OFF     | Print dialed digits or LCR conversed digits in LCD,<br>SMDR   |
| Conference<br>Warning Tone                 | ON / OFF     | ON      | When entering conference, members will be heard warning Tone  |
| Offnet Prompt<br>Usage                     | ON / OFF     | ON      | In case of Offnet call forward, offnet prompt will be heard.(It is only applied to CO-to-CO Transfer)   |
| Offnet DTMF<br>Tone                        | ON / OFF     | ON      | In case of Offnet call forward, DTMF Tone will be heard.(It is only applied to CO-to-CO Transfer)   |

[Table 5-1] System Attribute - I (PGM 160)

| ITEM                            | RANGE  | DEFAULT | REMARK  |
|---------------------------------|--------|---------|---|
| Network<br>Time/Date<br>Setting | 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 can be programmed off-hook ring type to mute or one burst ring.  |
| Override 1st CO Group          | ON/OFF                    | ON   | If there is no available CO line in the 1st CO group, system access the next accessible CO group when this field is ON.   |
| Page Warning Tone              | ON/OFF                    | ON   | If desired, page warning tone can be suppressed.  |
| Auto Privacy                   | ON/OFF                    | ON   | The system can be programmed to override CO line call to gain access to the conversation. If privacy is disabled, a station privileged to override in PGM113-Btn4 joins an existing call in progress. |
| Privacy Warning Tone           | ON/OFF                    | ON   | If desired, 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,<br>ICM: 1sec on/ 4sec off<br>CO : 0.4s on/ 0.2s off/ 0.4s on/ 4sec off<br>In case of YES, a cadence is the reverse.                      |
| WTU Auto Release               | ON/OFF                    | OFF  | Enable or disable auto release of WTU   |
| ACD Print Enable               | 1:ON(10s unit)<br>/ 0:OFF | OFF  | Enable or disable ACD Print features  |
| ACD Print Timer                | 001 –255<br>(3 Digits)    | 001  | Determines the amount of time between repeated ACD database prints. Zero means no print out. (10 sec base)  |
| Clear ACD Database after Print | ON/OFF                    | OFF  | Determines if initialize ACD database after print-out.  |
| VMIB Prompt Gain               | 00 - 31                   | 08   | To control prompt gain level.   |
| ACD Print Timer Unit           | HOUR(1)<br>/SEC(0)        | SEC  | To assign the unit of print timer   |

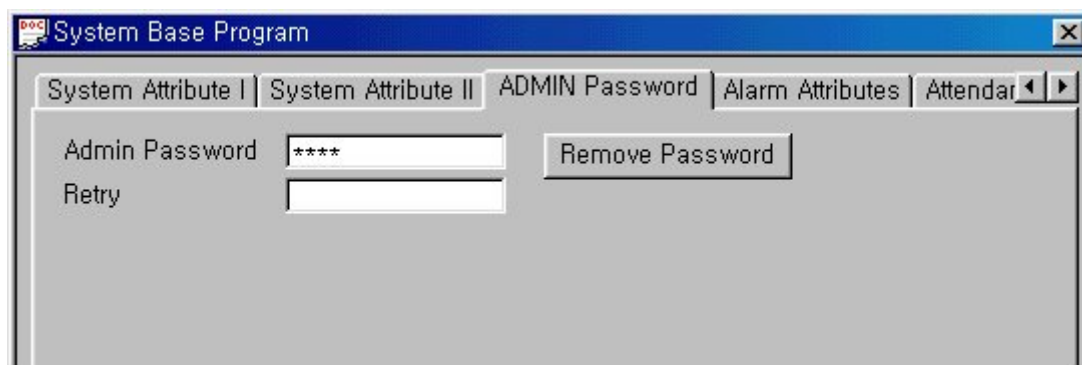
[Table 5-2] System Attribute - II (PGM 161)

## 5.2 Admin Password (PGM 162)

Password is not assigned as default.

### Operation

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



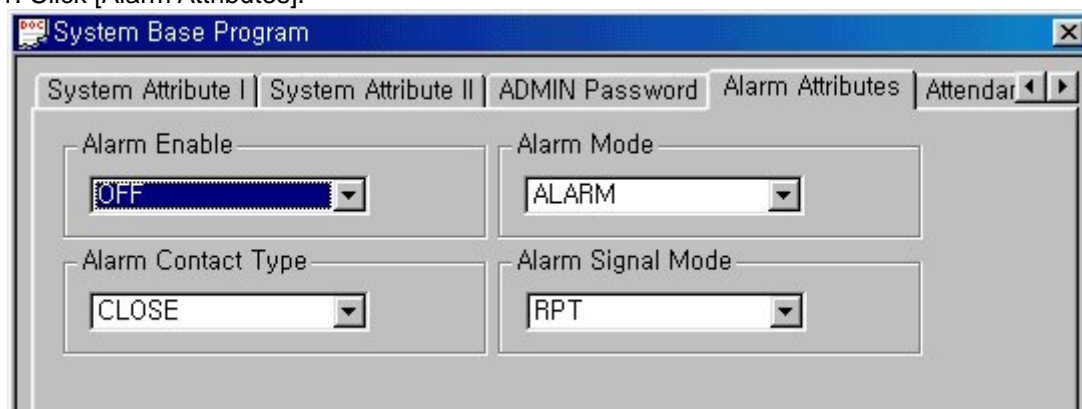
[Figure 5-2] Administration Password Setting Window

### 5.3 Alarm Attributes (PGM 163)

You may connect an external emergency device to the emergency alarm contact in the system. (Alarm/Door bell contact can be closed or opened) It gives an alarm to a station which is set to receive the signal.

#### Operation

1. Click [Alarm Attributes].



[Figure 5-3] Alarm Attributes Setting Window

2. Refer to the table and change the values.

| ITEM               | RANGE        | DEFAULT | REMARK           |
|--------------------|--------------|---------|------------------|
| Alarm Enable       | ON/OFF       | OFF     |                  |
| Alarm Contact Type | CLOSE/OPEN   | CLOSE   | Close, Open      |
| Alarm Mode         | ALARM / BELL | ALARM   | Alarm, Door Bell |
| Alarm Signal Mode  | RPT/ONCE     | RPT     | Repeat , Once    |

[Table 5-3] Reference for Alarm Attributes(PGM 163)

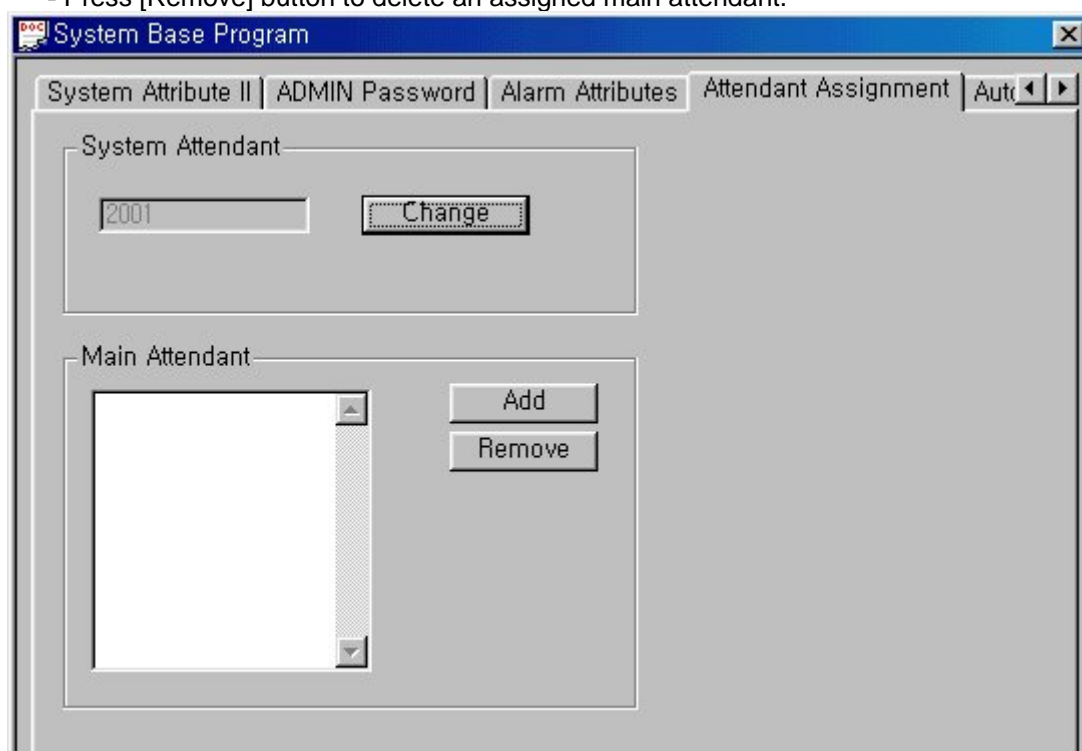
### 5.4 Attendant Assignment (PGM 164)

Maximum 5 Attendants can be assigned, and it is including the Main Attendants and System

Attendant. The system attendant is different with main attendant in aspect of the call handling and system management priority. The system attendant has more powerful priority than main attendant. 1 system attendant and 4 main attendants can be assigned. So the sum of system and main attendants must be less than 5. ***As default, the System Attendant is assigned Station 101, and others are not assigned.***

#### Operation

1. Click [Attendant Assignment].
2. Assigning a system attendant
  - Click [Change], and put a station number.
3. Assigning a main attendant
  - Press [Add] button to assign a main attendant.
  - Press [Remove] button to delete an assigned main attendant.



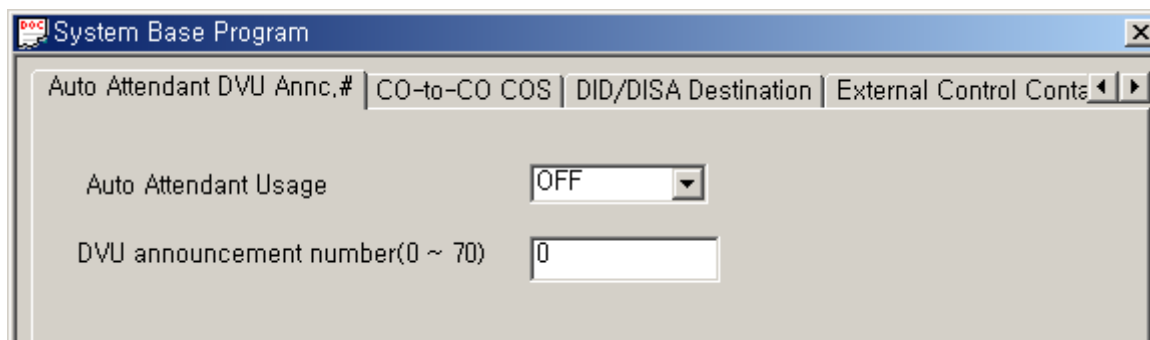
[Figure 5-4] Alarm Attributes Setting Window

## 5.5 Auto Attendant DVU Annc.# (PGM 165)

Put in DVU numbers to use auto attendant feature.

#### Operation

1. Click [Auto Attendant DVU Annc.#].
2. Type a DVU announcement number in the range of 0~70.



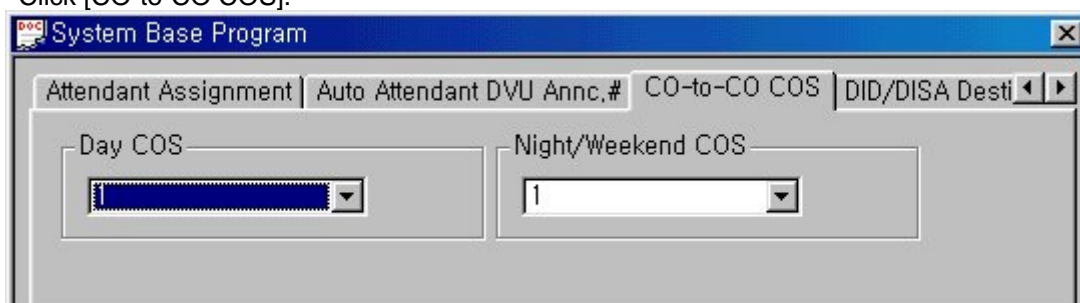
[Figure 5-5] Auto Attendant DVU Annc.# Setting Window

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

When a user of 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].



[Figure 5-6] CO-to-CO Setting Window

2. Put the numbers in.

## 5.7 DID/DISA Destination (PGM 167)

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

### Operation

1. Click [DID/DISA Destination].
2. 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.
3. 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.
4. 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.

The screenshot shows the 'System Base Program' window with the 'DID/DISA Destination' tab selected. The window contains the following elements:

- Auto Attendant DVU Annc.#**: A tabbed interface with 'CO-to-CO COS', 'DID/DISA Destination', and 'External Control' tabs.
- Busy Destination**: A dropdown menu set to 'TONE' and a numeric input field set to '0'.
- Error Destination**: A dropdown menu set to 'TONE' and a numeric input field set to '0'.
- No Answer Destination**: A dropdown menu set to 'TONE' and a numeric input field set to '0'.
- VMIB Prompt Usage**: A section containing five sub-sections, each with two radio buttons:
  - BUSY Prompt Usage**: ☒ On, ☐ Off
  - ERROR Prompt Usage**: ☐ On, ☒ Off
  - DND Prompt Usage**: ☒ On, ☐ Off
  - NO ANSWER Prompt Usage**: ☐ On, ☒ Off
  - Attendant Transfer Prompt Usage**: ☒ On, ☐ Off
- Buttons**: 'Close' and 'Apply' buttons at the bottom right.

[Figure 5-7] DID/DISA Destination Setting Window in 1.0Ah

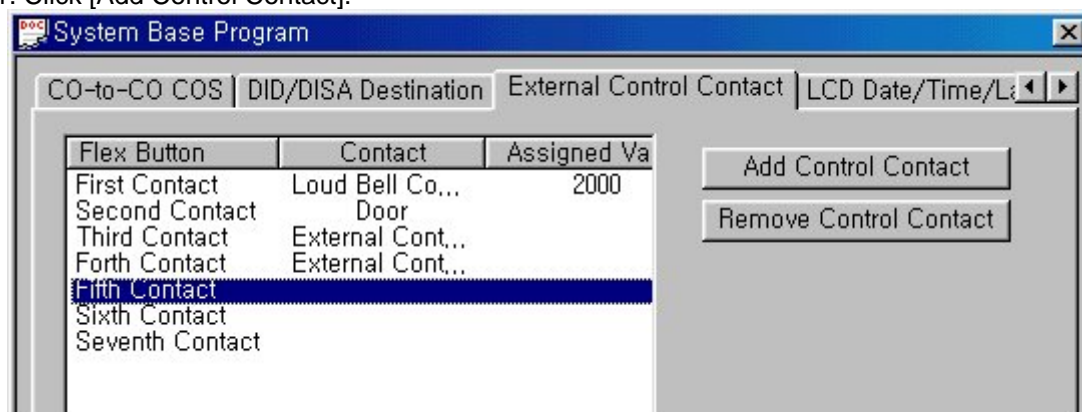
5. VMIB Prompt Usage is added in version **1.0Ba**. So, this feature is available in **1.0Ba(PC software) and 1.0Dd(MPB software) or later**.

## 5.8 External Control Contact (PGM 168)

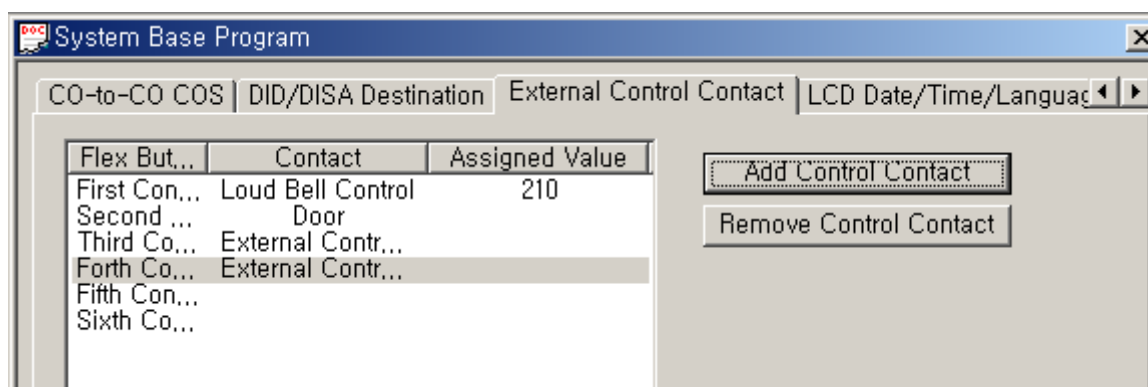
Loud Bell Control, Door Open, External Device Control could be set to use by external control contact. The contact feature is ranged from 1 to 7. A default value is not assigned.

### Operation

1. Click [Add Control Contact].

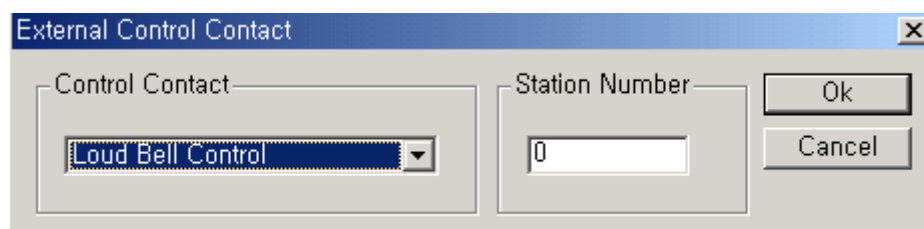


[Figure 5-8-1] External Control Contact Setting Window in LDK300



[Figure 5-8-2] External Control Contact Setting Window in LDK100

3. Select one of the control contacts.
4. In case of Loud Bell Control, you should indicate a station to be assigned.



[Figure 5-9] Selection Items For External Control Contact

4. If you want to remove, select a Flex Button, and press [Remove Control Contact] button.

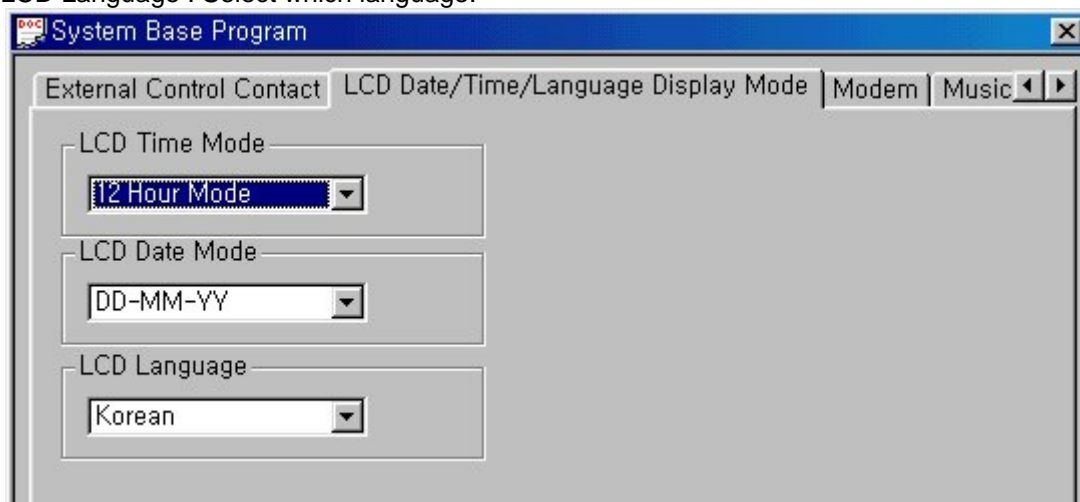


## 5.9 LCD Data/Time/Language Display Mode (PGM 169)

You may set a different time/date/language on 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.



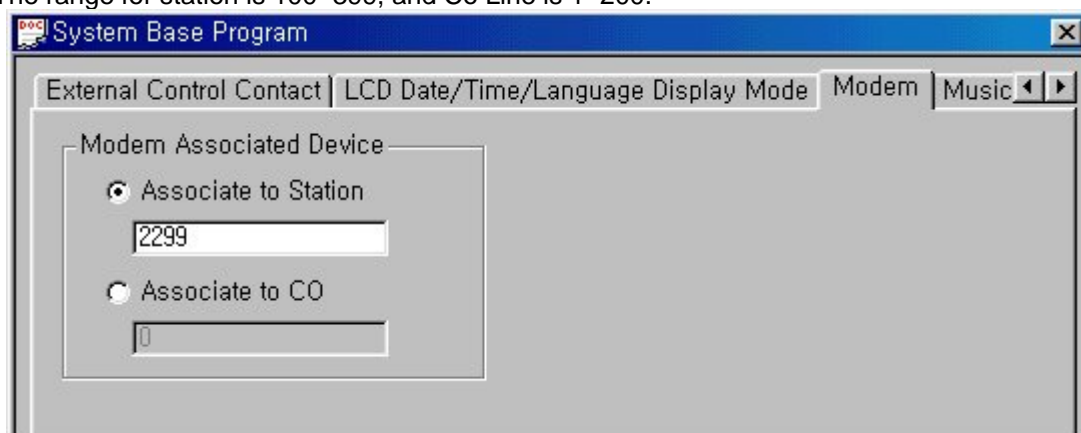
[Figure 5-10] LCD Date Display format Change Window

## 5.10 Modem (PGM 170)

It is to be specified which station or CO line is connected to the modem. The last station 399 is assigned as default. And CO line isn't assigned any default value at all.

### Operation

1. Click [Modem].
2. The range for station is 100~399, and Co Line is 1~200.



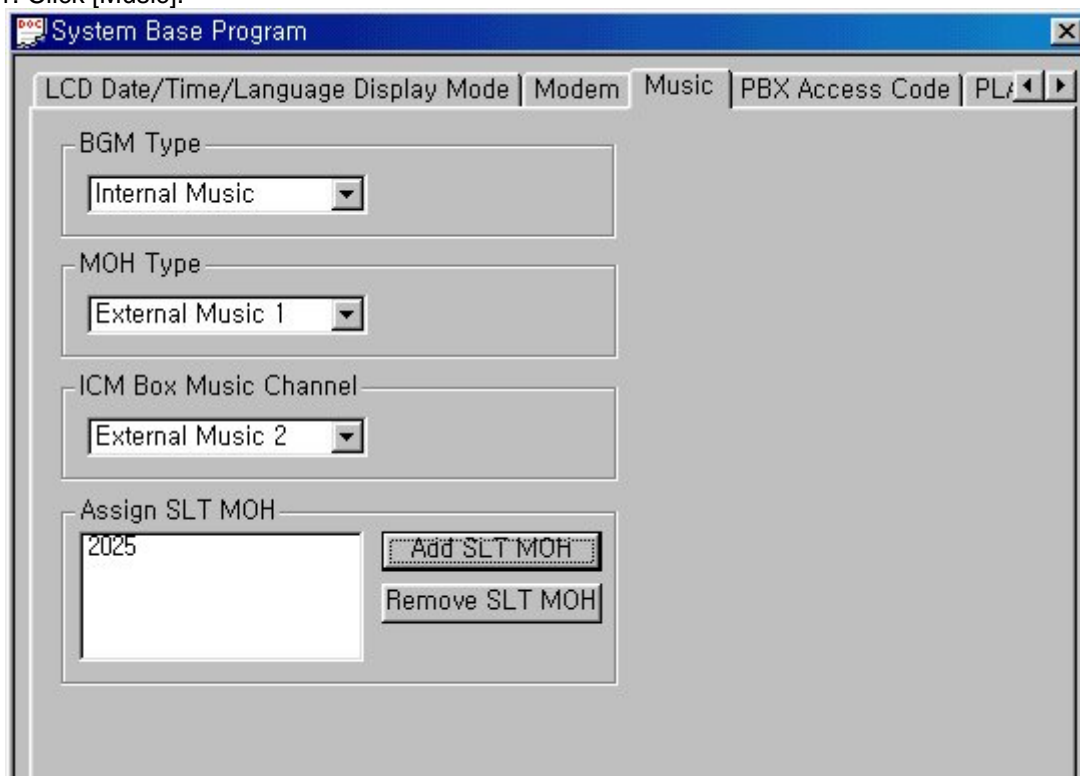
[Figure 5-11] Modem Setting Window

## 5.11 Music (PGM 171)

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

### Operation

1. Click [Music].



[Figure 5-12] Music Source Selection Window

2. Refer to the table below and set the values.

| ITEM     | RANGE | DEFAULT | REMARK               |                      |
|----------|-------|---------|----------------------|----------------------|
| BGM Type | 00-12 | 01      | 00: No BGM           | 01: Internal Music   |
|          |       |         | 02: External Music 1 | 03: External Music 2 |
|          |       |         | 04: External Music 3 | 05: VMIB BGM 1       |
|          |       |         | 06: VMIB BGM 2       | 07: VMIB BGM 3       |
|          |       |         | 08: SLT 1            | 09: SLT 2            |
|          |       |         | 10: SLT 3            | 11: SLT 4            |
|          |       |         | 12: SLT 5            |                      |
|          |       |         |                      |                      |
|          |       |         |                      |                      |
|          |       |         |                      |                      |
|          |       |         |                      |                      |
|          |       |         |                      |                      |

|                       |       |                                 |  |   |
|-----------------------|-------|---------------------------------|--|---|
| MOH Type              | 00-13 | 01                              | 00: NOT_ASG<br>02: External Music 1<br>04: External Music 3<br>06: VMIB BGM 2<br>08: SLT 1<br>10: SLT 3<br>12: SLT 5 | 01: Internal Music<br>03: External Music 2<br>05: VMIB BGM 1<br>07: VMIB BGM 3<br>09: SLT 2<br>11: SLT 4<br>13: Hold Tone |
| ICM Box Music Channel | 00-12 | 01                              | 00: No BGM<br>02: External Music 1<br>04: External Music 3<br>06: VMIB BGM 2<br>08: SLT 1<br>10: SLT 3<br>12: SLT 5  | 01: Internal Music<br>03: External Music 2<br>05: VMIB BGM 1<br>07: VMIB BGM 3<br>09: SLT 2<br>11: SLT 4                  |
| Assign SLT MOH        | -     | Flex. 1-5<br>(+ SLT<br>STA No.) | SLT MOH 1-5  |   |

[Table 5-4-1] Reference for Music (PGM 171) in LDK300

| ITEM                  | RANGE | DEFAULT                         | REMARK   |   |
|-----------------------|-------|---------------------------------|--|---|
| BGM Type              | 00-11 | 01                              | 00: No BGM<br>02: External Music 1<br>04: External Music 3<br>06: VMIB BGM 2<br>08: SLT 2<br>10: SLT 4                   | 01: Internal Music<br>03: External Music 2<br>05: VMIB BGM 1<br>07: SLT 1<br>09: SLT 3<br>11: SLT 5 |
| MOH Type              | 00-12 | 01                              | 00: NOT_ASG<br>02: External Music 1<br>04: External Music 3<br>06: VMIB BGM 2<br>08: SLT 2<br>10: SLT 4<br>12: Hold Tone | 01: Internal Music<br>03: External Music 2<br>05: VMIB BGM 1<br>07: SLT 1<br>09: SLT 3<br>11: SLT 5 |
| ICM Box Music Channel | 00-11 | 01                              | 00: No BGM<br>02: External Music 1<br>04: External Music 3<br>06: VMIB BGM 2<br>08: SLT 2<br>10: SLT 4                   | 01: Internal Music<br>03: External Music 2<br>05: VMIB BGM 1<br>07: SLT 1<br>09: SLT 3<br>11: SLT 5 |
| Assign SLT MOH        | -     | Flex. 1-5<br>(+ SLT<br>STA No.) | SLT MOH 1-5  |   |

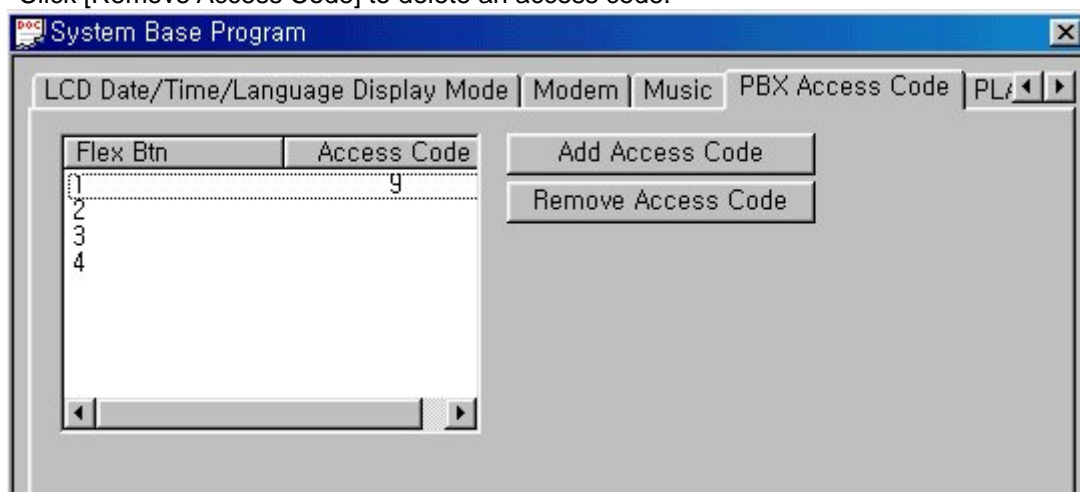
[Table 5-4-2] Reference for Music (PGM 171) in LDK100

## 5.12 PBX Access Code (PGM 172)

You can make an outside call through the station. Maximum 4 PABX Access Codes are assignable. PABX Access Code is 1 or 2-digit number. **By default, PABX Access Codes are not assigned at all.**

### Operation

1. Select a Flex Btn(1~4) in which you want to store the access code, click [Add Access Code]. Put a 1 or 2 digit number.
2. Click [Remove Access Code] to delete an access code.



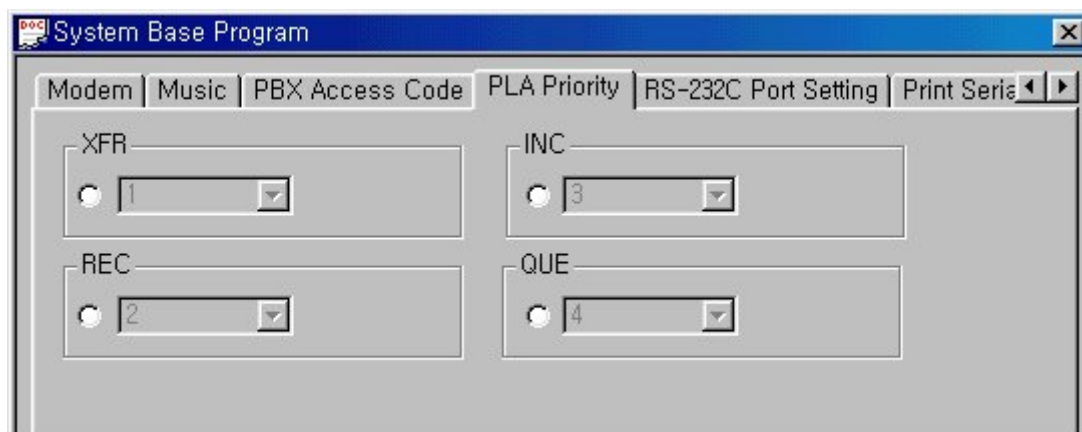
[Figure 5-13] PBX Access Code Setting Window

## 5.13 PLA(PREFERRED Line Answer) Priority (PGM 173)

You may set up which call to be received.

### Operation

1. Click [PLA Priority]. Each item has the following meaning. And number them in order to receive each call by their priority.
  - XFR : Transfer Call
  - REC : Recall
  - INC : Incoming Call
  - QUE : Queued Call
2. You may not assign a duplicated number. If you assign a duplicated number and click [Apply], the program automatically reassign the priority.



[Figure 5-14] PLA Priority Setting Window

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

You can set up RS-232C port configuration.

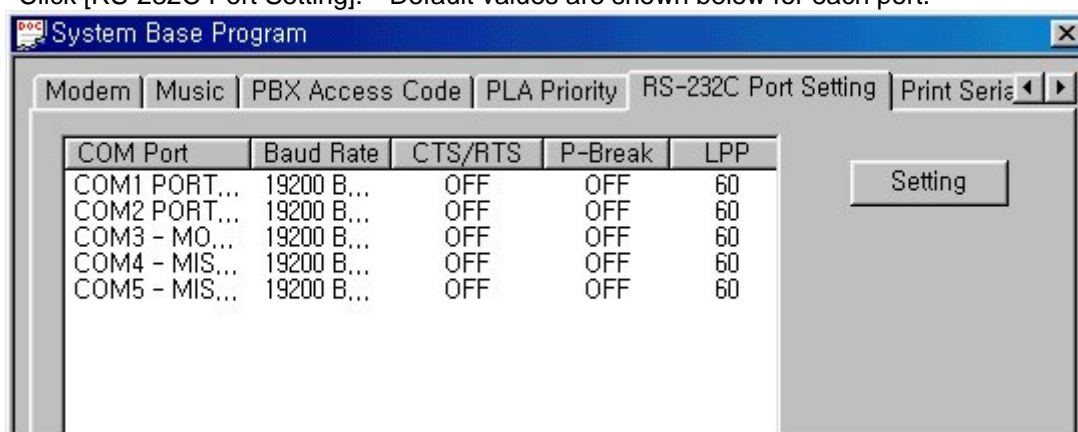
### <NOTICE>

*If you use the COM3 as MODU(MODEM interface), you should keep in mind that the maximum speed is limited to 9600bps.*

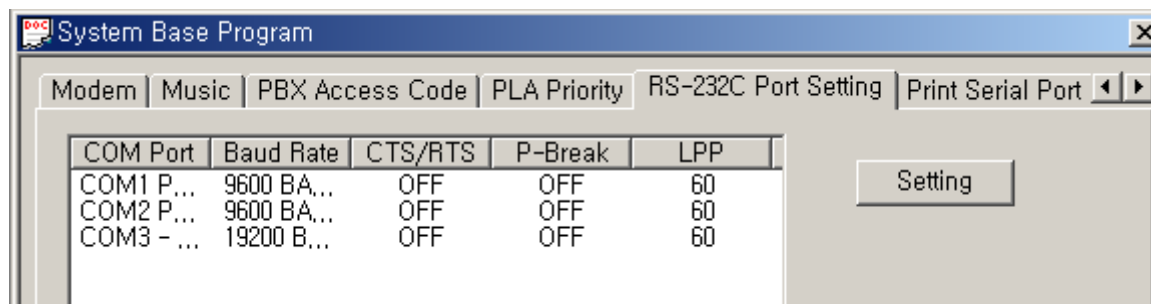
*If you use the COM1/2/4/5 for PC ADMIN, you should keep in mind that the maximum speed is limited to 9600bps.*

### Operation

1. Click [RS-232C Port Setting]. Default values are shown below for each port.



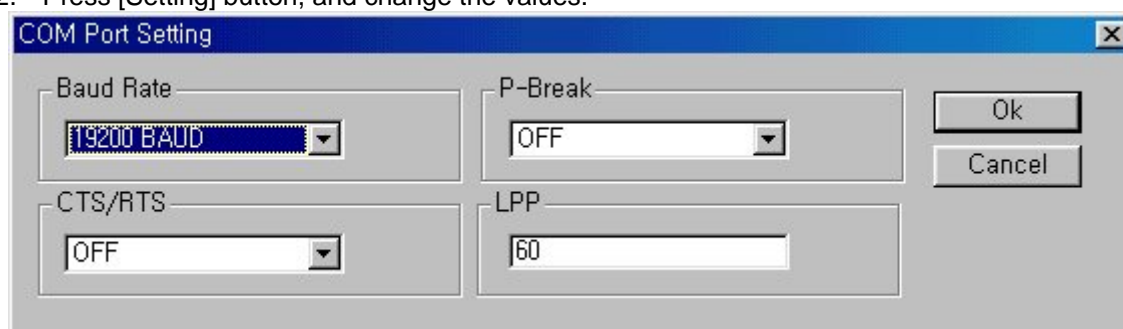
[Figure 5-15-1] RS-232C Port Display Window in LDK-300



[Figure 5-15-2] RS-232C Port Display Window in LDK-100

**[Notice]** In LDK-300, COM4 and COM5 is not available.

2. Press [Setting] button, and change the values.



[Figure 5-16] RS-232C Port Attributes Setting Window

| ITEM     | RANGE   | DEFAULT | REMARK   |   |
|----------|---------|---------|--|---|
| BAUDRATE | 0-8     | 19200   | 0: UNKNOWN<br>2: 1200 BAUD<br>4: 4800 BAUD<br>6: 19200 BAUD<br>8: 57600 BAUD | 1: UNKNOWN<br>3: 2400 BAUD<br>5: 9600 BAUD<br>7: 38400 BAUD |
| CTS/RTS  | ON/OFF  | OFF     |  |   |
| P-BREAK  | ON/OFF  | OFF     |  |   |
| LPP      | 001-199 | 060     |  |   |

[Table 5-5] Reference for COM Port Setting (PGM 174)

## 5.15 Print Serial Port Selection (PGM 175)

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

### <NOTICE>

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

**If the PC Admin port is COM1~COM5(LDK300) / COM3(LDK100) for PC application(PC Admin, PC Attendant, CTI), you can't use those ports(COM1~COM5(LDK300)/COM3(LDK100)) as normal terminal port during using PC Admin. Except PC Admin, you have to change the ports related with PC application to DEFAULT VALUE(Network) before you use those ports as normal**

**usage(Trace, SMDR Printing...). If you do not change those value, system may produce some problems.**

## Operation

1. Click [Print Serial Port Selection].

[Figure 5-17] Print Serial Port Selection Window

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

| ITEM                           | RANGE    | DEFAULT        | REMARK                           |
|--------------------------------|----------|----------------|----------------------------------|
| Off-line SMDR/Statistics Print | 01-13/11 | COM2 (02)      | 01: COM1<br>02: COM2             |
| ADMIN Print                    | 01-13/11 | COM2 (02)      | 03: COM3 – MODU                  |
| TRAFFIC                        | 01-13/11 | COM2 (02)      | 04: COM4 – MISB(Only for LDK300) |
| SMDI Print                     | 01-13/11 | COM2 (02)      | → Not Available in LDK100        |
| Call Information               | 01-13/11 | COM2 (02)      | 05: COM5 – MISB(Only for LDK300) |
| Info/On-line SMDR              | 01-13/11 | COM2 (02)      | → Not Available in LDK100        |
| Trace                          | 01-13/11 | COM2 (02)      | 06: TELNET 1 (04 in LDK 100)     |
| Debug                          | 01-13/11 | COM2 (02)      | 07: TELNET 2 (05 in LDK 100)     |
| PC Admin                       | 01-13/11 | NET_PCADM (10) | 08: TELNET 3 (06 in LDK 100)     |
| PC Attendant                   | 01-13/11 | NET_PCATD (11) | 09: ISDN (07 in LDK 100)         |
| CTI                            | 01-13/11 | NET_CTI (12)   | 10: NET_PCADM (08 in LDK 100)    |

|                   |          |                 |  |
|-------------------|----------|-----------------|--|
| Remote Diagnostic | 01-13/11 | NET_REMOTE (13) | 11: NET_PCATD (09 in LDK 100)<br>12: NET_CTI (10 in LDK 100)<br>13: NET_REMOTE (11 in LDK 100) |
|-------------------|----------|-----------------|--|

[Table 5-6] Print Serial Port Selection (PGM 175)

**[Notice]** In LDK 100, [RANGE] is from 01 to 11.

**<Important Notice>**

***If you select the COM3(MODU) for PC Admin connection, port speed will be limited upto 9600 bps. If you select the value more than 9600 bps(for example 19200bps), you might have some problem during connection.***

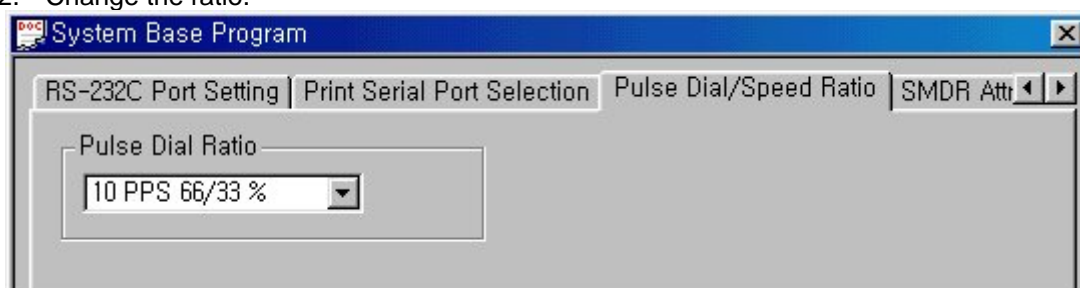
## 5.16 Pulse Dial / Speed Ratio (PGM 176)

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

In LDK-300, pulse dial speed ratio is set for only 10 PPS.

### Operation

1. Click [Pulse Dial Ratio]. Default value is displayed.
2. Change the ratio.



[Figure 5-18] Pulse Dial / Speed Ration Setting Window



## 5.17 SMDR Attributes (PGM 177)

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].

The screenshot shows the 'System Base Program' window with the 'SMDR Attributes' tab selected. The window contains various settings for SMDR, including enable/disable options, call types, and recording details. The settings are organized into two columns. The left column includes 'SMDR Save Enable' (OFF), 'SMDR Print Enable' (OFF), 'SMDR Record Call Type' (LD CALL), 'Records in detail' (ON), 'Print Incoming Call' (OFF), 'Print Lost Call' (OFF), 'SMDR Long Dist. Call Dig. Counter' (7), and 'SMDR Long Distance Codes' (0). The right column includes 'SMDR Dial Digit Hidden' (0), 'SMDR Currency Unit' (empty), 'SMDR Cost per Unit Pulse' (000000), 'SMDR Fraction' (0), 'SMDR Start TMR' (0), and 'SMDR Hidden Dgt' (RIGHT). At the bottom right, there are 'Add', 'Change', and 'Remove' buttons for the long distance codes, and 'Close' and 'Apply' buttons for the entire window.

| Setting                           | Value   |
|-----------------------------------|---------|
| SMDR Save Enable                  | OFF     |
| SMDR Print Enable                 | OFF     |
| SMDR Record Call Type             | LD CALL |
| Records in detail                 | ON      |
| Print Incoming Call               | OFF     |
| Print Lost Call                   | OFF     |
| SMDR Long Dist. Call Dig. Counter | 7       |
| SMDR Long Distance Codes          | 0       |
| SMDR Dial Digit Hidden            | 0       |
| SMDR Currency Unit                |         |
| SMDR Cost per Unit Pulse          | 000000  |
| SMDR Fraction                     | 0       |
| SMDR Start TMR                    | 0       |
| SMDR Hidden Dgt                   | RIGHT   |

[Figure 5-19] SMDR Attributes Setting Window

2. Refer to the table below, and put the values.

| 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 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 SMDR digit counter is more than this value, system considers it as 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                | ON      | If this option (PLC) is set to ENABLE, all lost calls are printed with either 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 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 whole detailed records. |
| SMDR Dial Digit Hidden                | 0-9                   | 0       | According to this value, '*' 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 alphabet characters to be printed in front of call charge amount.  |
| SMDR Cost Per Unit Pulse              | 6 digits              |         | This is the call cost unit per cost metering pulse, which is send from the Central Office.   |
| SMDR Fraction                         | 0-5                   | 0       | This value means the decimal position point of the co per unit pulse.  |
| SMDR Start TMR                        | 000-250               | 000     | 1 sec base   |
| SMDR Hidden Dgt                       | Right/Left            | Right   | Hide digits from right or left   |
| SMDR Long Distance Codes              | Flex.<br>BTN<br>1 – 5 | 0       | Maximum 5 SMDR Long Distance codes are available. SMDR Long Distance code is 1 or 2 digits number. <i>By default, SMDR Long Distance Code is 0.</i>  |

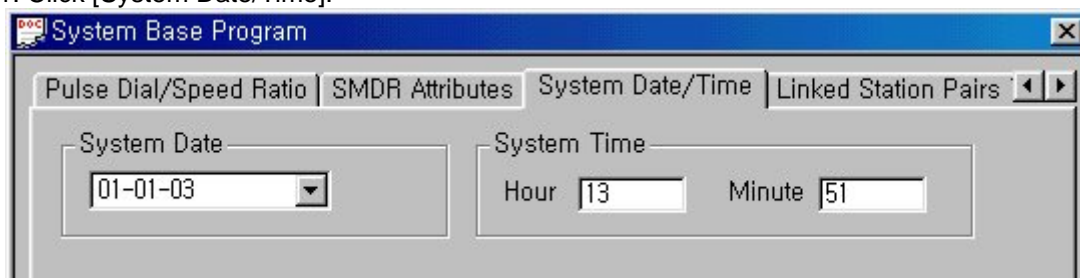
[Table 5-7] Reference for SMDR Attributes (PGM 177)

## 5.18 System Date / Time (PGM 178)

You can set up the system date/time.

### Operation

1. Click [System Date/Time].



[Figure 5-20] System Date Setting Window

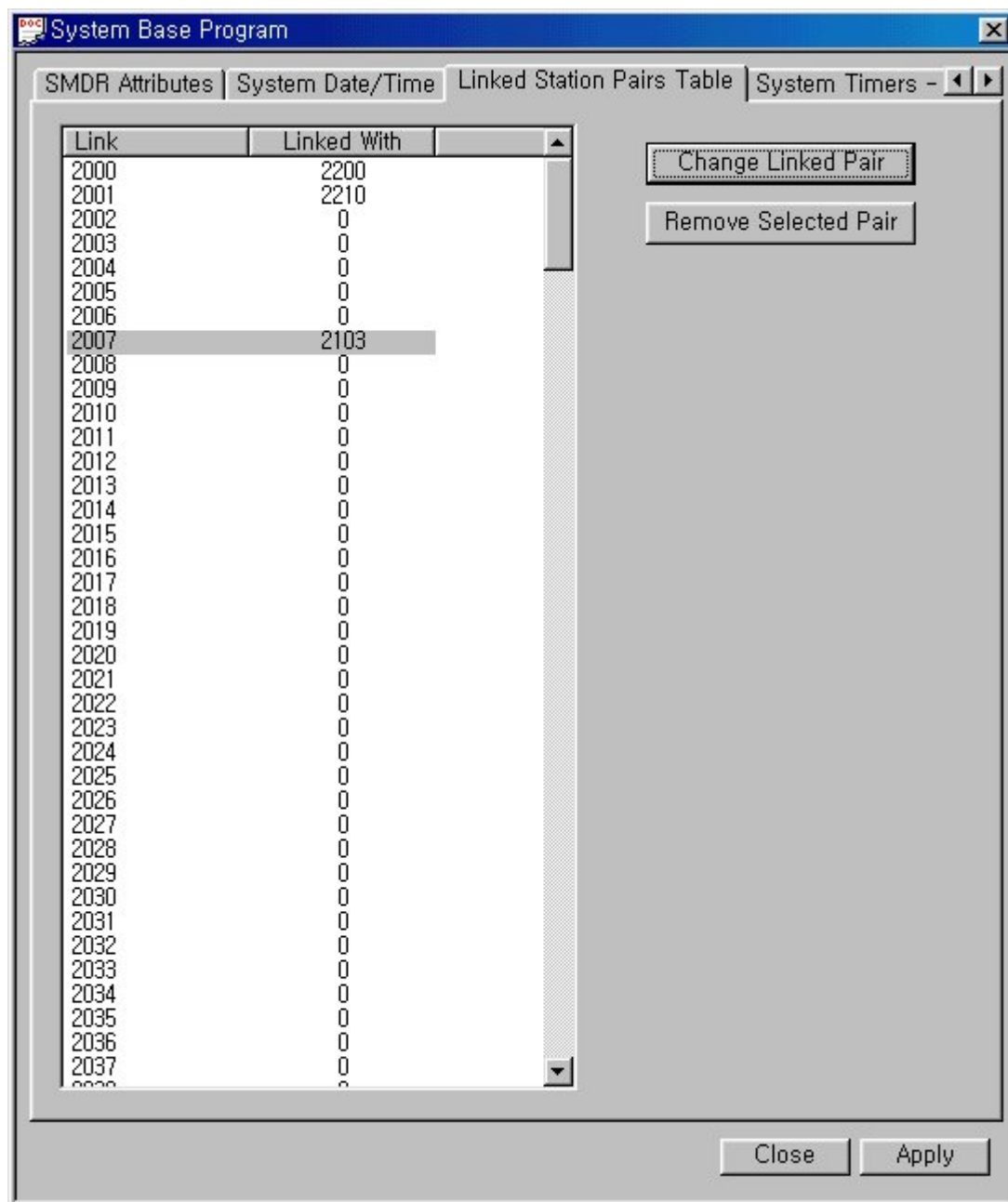
2. Set the values and click [Apply], and the changed values will be displayed on the LCD screen of your keyset.

## 5.19 Linked Station Pairs Table (PGM 179)

You can link two stations in a pair, possible to make 64 pairs in maximum.

### Operation

1. Select a station number and click [Change Linked Pair]. And enter a station number to be linked with.
2. To delete a pair, click [Remove Selected Pair].



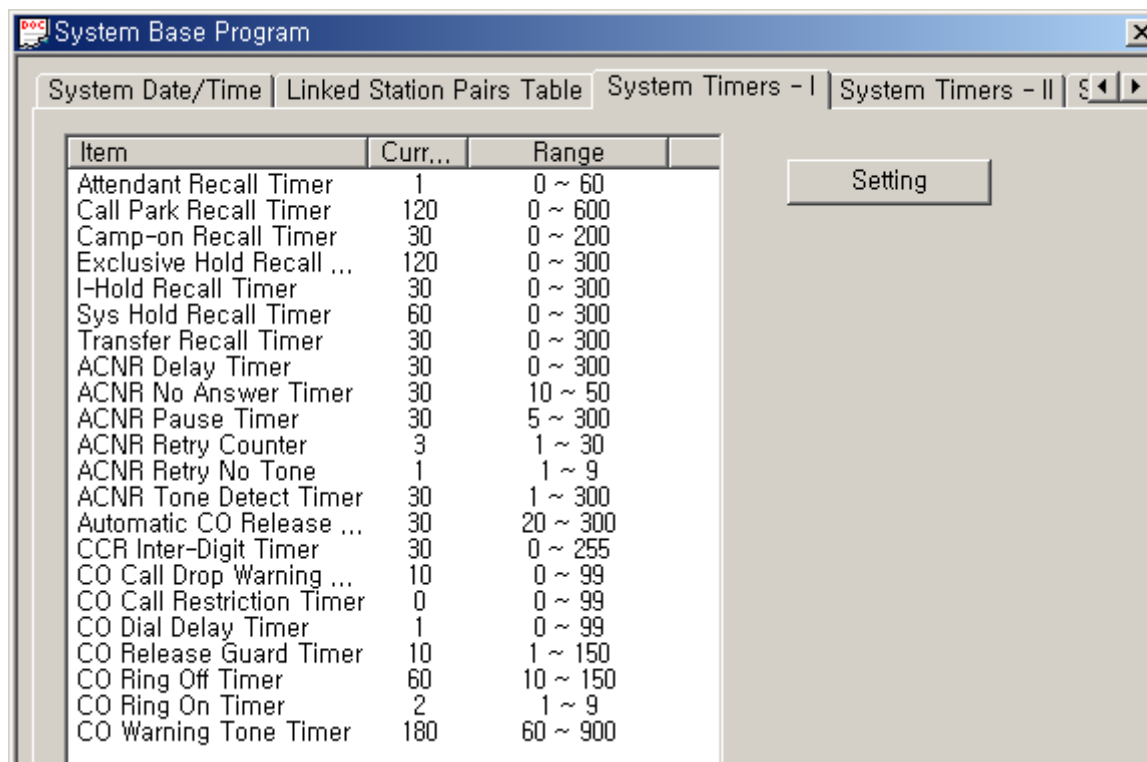
[Figure 5-21] Linked Station Pair Setting Window

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

You can set up the system timer. You can change the interval of time that each event occur.

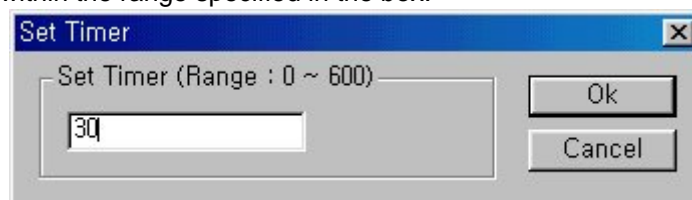
## Operation

1. Click [System Timer], select an item to be altered, and click [Setting].



[Figure 5-22] System Timer I Setting Window

2. Enter a value within the range specified in the box.



[Figure 5-23] Input Timer value Window

3. Refer to the table below for each timer.

| ITEM                        | RANGE                   | DEFAULT      | REMARK   |
|-----------------------------|-------------------------|--------------|--|
| Attendant Recall Timer      | 00 - 60<br>(2 Digits)   | 01<br>(min)  | Determines the amount of time before system disconnects the call.  |
| Call Park Recall Timer      | 000 - 600<br>(3 Digits) | 120<br>(sec) | Determines 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<br>(3 Digits) | 030<br>(sec) | If a station transfers to busy station and hang up, this recall timer is assigned.                                   |
| Exclusive Hold Recall Timer | 000 - 300<br>(3 Digits) | 060<br>(sec) | Determines the amount of time before a call placed on exclusive hold will recall the station placing the hold.       |

|                             |                         |                |  |
|-----------------------------|-------------------------|----------------|--|
| I-Hold Recall Timer         | 000 - 300<br>(3 Digits) | 030<br>(sec)   | Determines the amount of time before a call recalls the attendant.   |
| Sys Hold Recall Timer       | 000 - 300<br>(3 Digits) | 030<br>(sec)   | Determines the amount of time before a call placed on system hold will recall the station placing the hold.  |
| Transfer Recall Timer       | 000 - 300<br>(3 Digits) | 030<br>(sec)   | Determines 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<br>(3 Digits) | 030<br>(sec)   | When ACNR Pause Timer expires and there is no available CO Line in the group, this timer is invoked.<br>When ACNR Delay Timer expired,<br>- Invoke ACNR Pause Timer if is no available CO line Still, ACNR is activated. |
| ACNR No Answer Timer        | 10 - 50<br>(2 Digits)   | 30<br>(sec)    | This Timer is invoked after system detects CO ring back tone or voice from CO party. After this timer, system retries ACNR.  |
| ACNR Pause Timer            | 005 - 300<br>(3 Digits) | 030<br>(sec)   | When expired, ACNR is activated.<br>(For CIS : 5-300)  |
| ACNR Retry Counter          | 1 - 30                  | 03             | This is decreased every time station retries ACNR, ACNR is canceled if set to 0.<br>(For CIS : 1-9)  |
| ACNR Retry No Tone          | 1 - 9<br>(1digit)       | 1<br>(5sec)    | 1 means 5 seconds, LDK will wait this value to decide NO TONE.<br>3 means 15 seconds. (Only for CIS)   |
| ACNR Tone Detect Timert     | 000 - 300<br>(3 Digits) | 030<br>(sec)   | This timer is invoked upon completion of dialing and system considers the CO party as busy in the case that CPTU cannot detect the valid tone type until this timer expires.   |
| Automatic CO Release Timer. | 020 - 300<br>(3 Digits) | 030<br>(sec)   | Uncompleted CO call will be automatically released after this timer.   |
| CCR Inter-Digit Timer       | 000 - 255<br>(3 Digits) | 030<br>(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 DID inter-digit timer.   |
| CO Call Drop Warning Timer  | 00 - 99<br>(2 Digits)   | 10<br>(sec)    | If prepaid money is going to expire during a CO conversation, give warning tone and after this time the call will be disconnected.<br>This timer also used for Call Restriction, Unsupervised Conference.                |
| CO Call Restriction Timer   | 00-99<br>(2Digit s)     | 0<br>(min)     | Outgoing CO call time is allowed for this time.  |
| CO Dial Delay Timer         | 00 - 99<br>(2 Digits)   | 01<br>(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<br>(3 Digits) | 020<br>(100ms) | The CO Release Guard Timer controls the time necessary to guarantee idle loop state when the line is released.   |
| CO Ring Off Timer      | 010 - 150<br>(3 Digits) | 060<br>(100ms) | This timer is to secure time interval between incoming ringing signals so that the active ringing can be lasted in the system until this timer is expired.   |
| CO Ring On Timer       | 1 - 9<br>(1 Digit)      | 2<br>(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<br>(3 Digits) | 180<br>(1sec)  | Determines the amount of time before receiving warning tone in order to remind the call elapsed time in case of outgoing CO conversations (Only for Korea ). |

[Table 5-8] System Timers - I (PGM 180)

| ITEM                          | RANGE                   | DEFAULT       | REMARK   |
|-------------------------------|-------------------------|---------------|--|
| Call FWD No Answer Timer      | 000 - 255<br>(3 Digits) | 015<br>(sec)  | The Call forward busy/no answer feature will take place using this timer. If this timer has a non-zero value and a extension is set at busy, no answer forward by station user then the extension will ring for this timer and take place a forward to the next. |
| DID/DISA No Answer Timer      | 00 - 99<br>(2 Digits)   | 20<br>(sec)   | A DID call will be forwarded attendant if the station is busy or does not answer within this time.   |
| VMIB User Record Timer        | 010 - 255<br>(3 Digits) | 20<br>(sec)   | The time duration of VMIB user greeting.   |
| VMIB Valid User Message Timer | 0 - 9<br>(1 Digits)     | 4<br>(sec)    | The time duration of valid VMIB user message.  |
| Door Open Timer               | 05 - 99<br>(2 Digits)   | 20<br>(100ms) | This timer determines of the length of time that is needed to activate a door open relay for the set time.   |
| ICM Box Timer                 | 00 - 60<br>(2 Digits)   | 30<br>(sec)   | Determines the amount of time programmed stations will ring when ICM box user presses the [CALL] button.   |
| ICM Dial Tone Timer           | 01 - 20<br>(2 Digits)   | 10<br>(sec)   | If action is not taken within ICM dial tone timer, user will hear error-tone.  |
| Inter Digit Timer             | 01 - 20<br>(2 Digits)   | 05            | The time between digits cannot exceed Inter-digit timer, or error tone is received.  |
| MSG Wait Reminder Tone Timer  | 00 - 60<br>(2 Digits)   | 00            | Determines the amount of time between repeated reminder tones to a key telephone with a message waiting.   |
| Paging Timeout Timer          | 000 - 255<br>(3 Digits) | 15            | Determines the maximum time of 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<br>(1 Digit)      | 3             | Determines the length of the pause for use with automatically sent digits or other speed dialing.  |

|                           |                       |    |  |
|---------------------------|-----------------------|----|--|
| Preset Call Forward Timer | 00 - 99<br>(2 Digits) | 10 | Determines the amount of time an outside line 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. |
|---------------------------|-----------------------|----|--|

[Table 5-9] System Timers - II (PGM 181)

| ITEM                          | RANGE                   | DEFAULT       | REMARK   |
|-------------------------------|-------------------------|---------------|--|
| SLT Hook Switch Bounce Timer  | 01-25<br>(2 Digits)     | 01<br>(100ms) | This timer determines the length of timer that is needed to regard as a valid on-hook or off-hook. (For SLT)   |
| SLT Maximum Hook Flash Timer  | 01-25<br>(2 Digits)     | 05<br>(100ms) | This timer determines 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<br>(3 Digits) | 020<br>(10ms) | The minimum bound time that system considers as hook flash for SLT.  |
| SLT Ring Phase Timer          | 2 - 5<br>(1 Digit)      | 5<br>(sec)    | Determines the ring phase of SLT .<br>(5 SEC : 1SEC ON / 4SEC OFF)   |
| Station Auto Release Timer    | 020 - 300<br>(3 Digits) | 060<br>(sec)  | If a station hears ring back tone and no action is taken, this timer is assigned. When this timer is expired the station is released.                        |
| Unsupervised Conference Timer | 00 - 99<br>(2 Digits)   | 10<br>(min)   | Determines 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                 | 20<br>(sec)   | After a Wake-up fail ring invokes on SYSTEM ATD, the alarm ring exists during this timer. Then if this timer expires, the Alarm ring will be disappeared.    |
| Warm Line Timer               | 010 - 200<br>(2 Digits) | 05<br>(sec)   | User takes no action after lifting handset or pressing the [MON] button and warm line timer is expired, then idle line selection for warm line is activated. |
| Wink Timer                    | 010 - 200<br>(3 Digits) | 010<br>(10ms) | The Time Duration of Seize Acknowledge Signal to DID line.   |
| Enblock Dgt timer             | 01-20                   | 15<br>(sec)   | After timer is expired, Setup is sent  |
| CCR Time Out Timer            | 000-300                 | 015<br>(sec)  | When this timer is expired, CCR is activated<br>(1 sec base)   |
| DID Inter Digit Timer         | 01 - 20                 | 03            | In DID type2, used as digit number   |

[Table 5-10] System Timers - III (PGM 182)



## CIDU Setting (PGM 185)

In this menu, you can program the CIDU Setting. These menus are added in 2.0Ai. This menu is used in special country (KOREA, AUSTRALIA)

System Base Program

System Timers - I | System Timers - II | System Timers - III | CIDU Setting - .

CID Usage  
OFF

CID Name Display  
Telephone Number

Serial Port Selection  
Not Assigned

Initialize

CIDU Map Setting

| Port nu... | CO number    |
|------------|--------------|
| 0          | 100          |
| 1          | 101          |
| 2          | 102          |
| 3          | 103          |
| 4          | 104          |
| 5          | 105          |
| 6          | 106          |
| 7          | 107          |
| 8          | 108          |
| 9          | 109          |
| 10         | 110          |
| 11         | Not Assigned |
| 12         | Not Assigned |
| 13         | Not Assigned |
| 14         | Not Assigned |
| 15         | Not Assigned |
| 16         | Not Assigned |
| 17         | Not Assigned |
| 18         | Not Assigned |

Add CO Number

Remove CO Number

Set CO Range

[Figure 5-24] CIDU Setting(PGM185)

### Operation

1. Select the PGM185 CIDU Setting. Then PC Admin will read the MPB setting value. If you want to change the CIDU Usage, CID Name Display, Serial Port Selection, select the value in the COMBO Box.
2. If you want to change the CIDU Map, select port number and press [Add CO Number] Button. When you want to change the CO range, select the first port and press [Set CO Range] Button. Then you can change the CO value.

| BIN | ITEM                     | RANGE                          | DEFAULT          | REMARK  |
|-----|--------------------------|--------------------------------|------------------|---|
| 1   | CID Usage                | ON / OFF                       | OFF              | Set the CID usage enable.   |
| 2   | CID Name Display         | Name(1) / Telephone No.(0)     | Telephone No.(0) | Set the LCD display message between the character name or the telephone number. |
| 3   | Serial Port Select       | 1-4 (LDK-300)<br>1-2 (LDK-100) | -                | Set the serial port for CIDU connection.  |
| 4   | CID/CO Line Port Mapping | 000-063                        | -                | Set the CIDU port and the analog CO line port mapping.                          |
| 5   | Initialize CID Data      |                                |                  | Initialize the CIDU admin.  |

[Table 5.11] CIDU Setting (PGM 185)

## 5.22 DCOB System Attributes (PGM 186)

In this menu, you can program the attributes of R2(DCOB). These menus are consist of combo boxes. You should only select the correct value.

The screenshot shows the 'DCOB System Attributes' window. It contains the following settings:

- DCOB CO Type: Korea/Australia
- Metering Type: Not Used
- R2 OUT Manage Timer: 14
- R2 IN Manage Timer: 14
- R2 Disappear Timer: 14
- R2 Pulse Timer: 7
- R2 Ready Timer: 7
- Dial Tone Delay Timer: 20
- Line Status: 6
- Calling Category: 1
- DNIS Service: OFF
- CLI Digits Numbers: 4

[Figure 5-25] DCOB System Attributes

### Operation

- After selecting the item and changed value, press the [Apply] button to save the value.

4. This feature may not be applied for some countries.

| BTN | ITEM                  | RANGE   | DEFAULT | REMARK   |
|-----|-----------------------|---------|---------|--|
| 1   | DCOB CO Type          | 0-2     | 2       | 0:Sweden/Cyprus<br>1:Italy<br>2:Korea/Australia                              |
| 2   | Metering Type         | 0-1     | 0       | 0:Not used<br>1:When received the Metering signal                            |
| 3   | R2 OUT Manage Timer   | 01-50   | 14      | In R2 signaling, maximum time for waiting for forward signal from PX (1 sec) |
| 4   | R2 IN Manage Timer    | 01-50   | 14      | In R2 signaling, maximum time for waiting for forward signal from PX (1 sec) |
| 5   | R2 Disappear Timer    | 01-50   | 14      | 1 sec  |
| 6   | R2 Pulse Timer        | 01-30   | 7       | In R2 signaling, time duration to send pulse typed R2 signal (20 msec)       |
| 7   | R2 Ready Timer        | 000-500 | 7       | 20 msec  |
| 8   | Dial Tone Delay Timer | 01-30   | 20      |  |
| 9   | Line Status           | 1-9     | 6       | Free Line  |
| 10  | Calling Category      | 1-9     | 1       | User no priority   |
| 11  | DNIS Service          | ON/OFF  | OFF     | ON: Caller ID Service  |
| 12  | CLI Digits Number     | 1-10    | 4       |  |

[Table 5-12] DCOB System Attribute 1 (PGM 186)

## 5.23 DCOB CO Line Attributes(PGM187)

This feature is for R2(DCOB) programming.

[Figure 5 – 26] DCOB CO Line Programming

| BTN | ITEM                 | RANGE | DEFAULT | REMARK   |
|-----|----------------------|-------|---------|--|
| 1   | IN Digit Type        | 0-2   | 2       | Default: R2MFC (2)<br>To set type.<br>[0 : PULSE, 1 : DTMF, 2 : RFC] |
| 2   | OUT Digit Type       | 0-2   | 2       | Default: R2MFC(2)<br>To set type.<br>[0 : PULSE, 1 : DTMF, 2 : RFC]  |
| 3   | Number of CLI Digits | 1-15  | 10      |  |

[Table 5-13] DCOB Co line Attribute (PGM 187)

## 6. Station Group

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

### 6.1 Station Group Assign (PGM 190)

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:

| System             | LDK - 300 | LDK - 100 |
|--------------------|-----------|-----------|
| No. of Group       | 48        | 15        |
| STA No. in a Group | 64        | 32        |

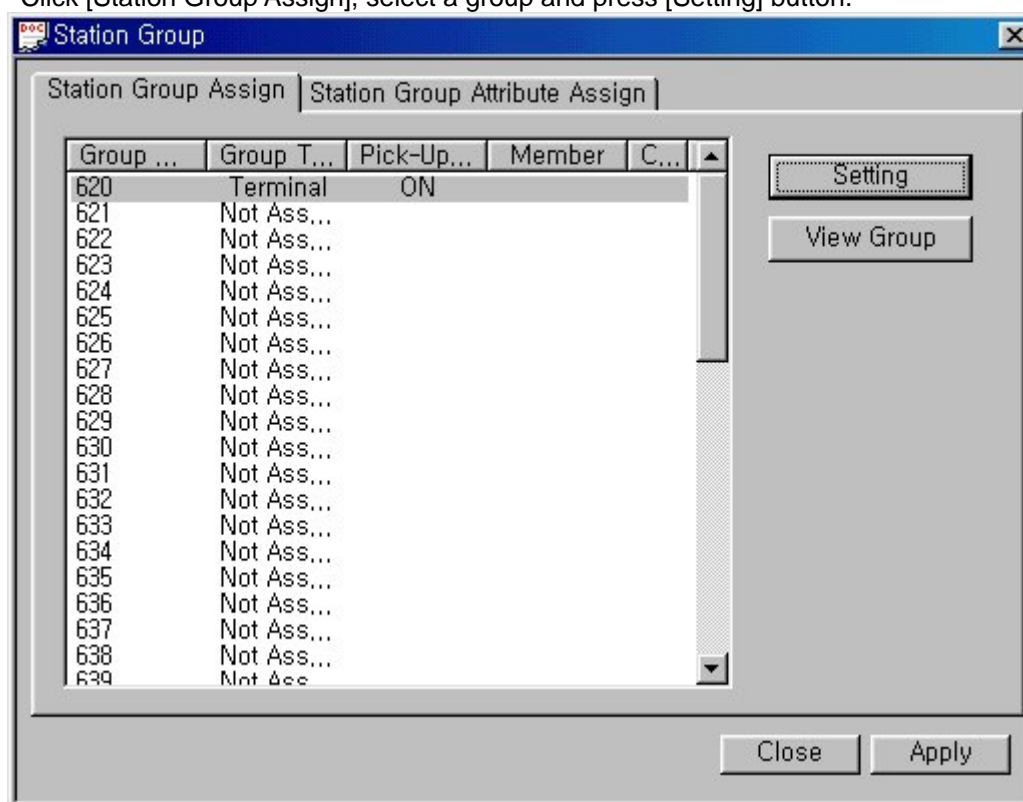
[Table 6-1] Available Range for Station Group

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.

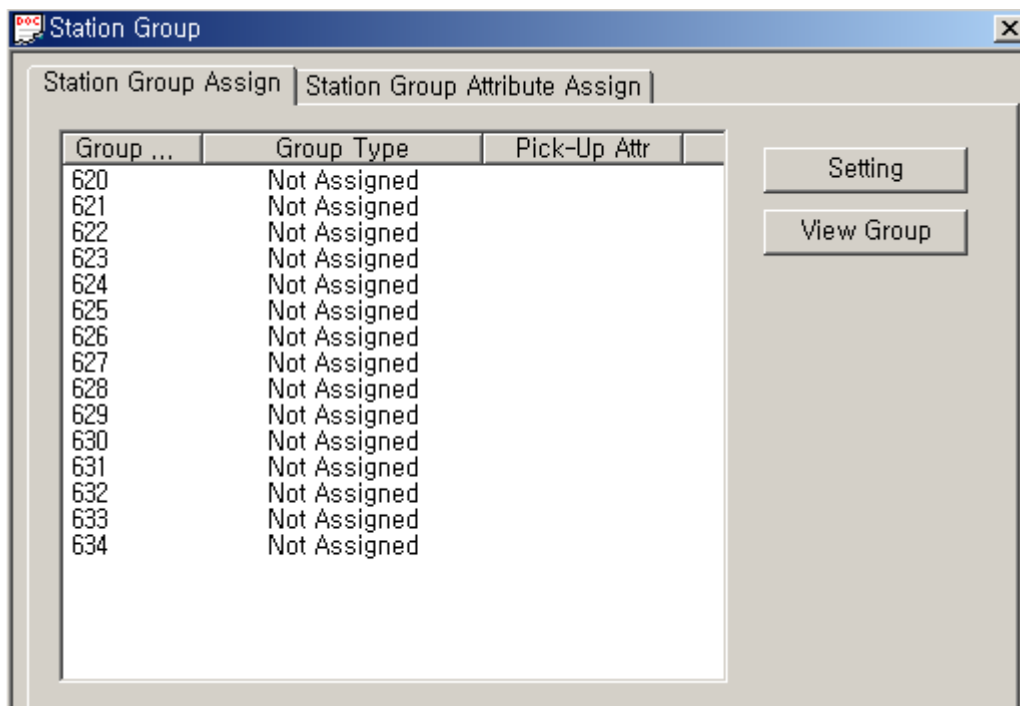
When assigning a station group to any type of hunt group or voice mail group, ring, pick up group, the system initializes hunt attributes by default value for it's own function. It can be programmed to meet each customer's individual need.

#### Operation

1. Click [Station Group Assign], select a group and press [Setting] button.

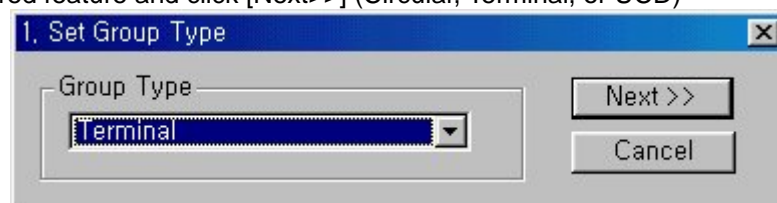


[Figure 6-1-1] Station Group Display Window in LDK-300



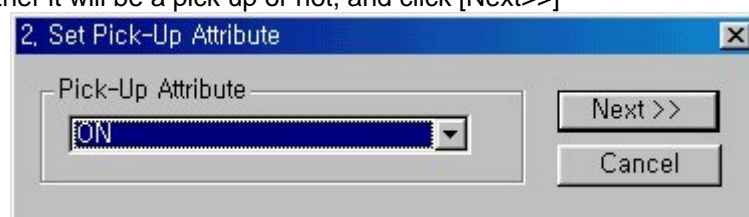
[Figure 6-1-2] Station Group Display Window in LDK-100

2. Select a desired feature and click [Next>>] (Circular, Terminal, or UCD)



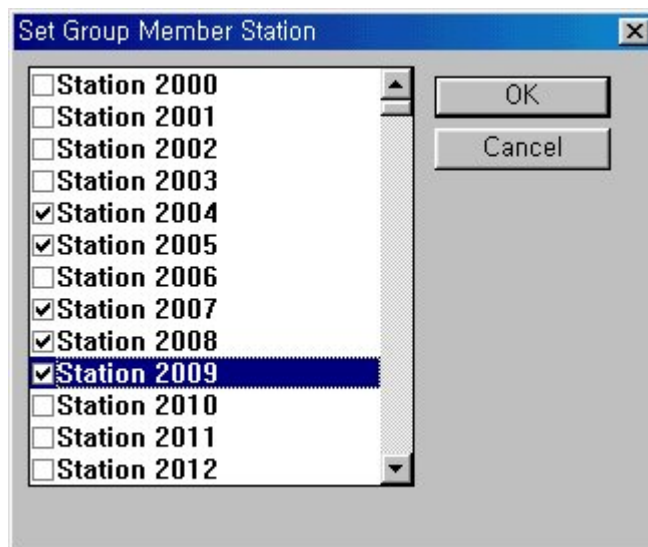
[Figure 6-2] Station Group Type Selection Window

3. Decide whether it will be a pick up or not, and click [Next>>]



[Figure 6-3] Pickup Attribute Selection for Station Group

4. Select stations to be grouped and click [OK].



[Figure 6-4] Station Selection Window for Specified Station Group

5. You use [View Group] button to change the data which is already in.
6. If you want to change the detail information of registered hunt group, use [view group] button in [Fig.6-1]. Setting button is used when you first programming. After that time, you should use the [view group] button when you change.

| ITEM              | RANGE        | DEFAULT | REMARK  |
|-------------------|--------------|---------|---|
| Group Type        | 0-6          | 0       | 0: NOT ASGN<br>1: Circular<br>2: Terminal<br>3: UCD<br>4: Ring<br>5: VM<br>6: Pick up |
| Pick-up Attribute | ON/OFF       | OFF     | OFF   |
| Member assignment | Not Assigned | -       | First, Group Type must be assigned  |

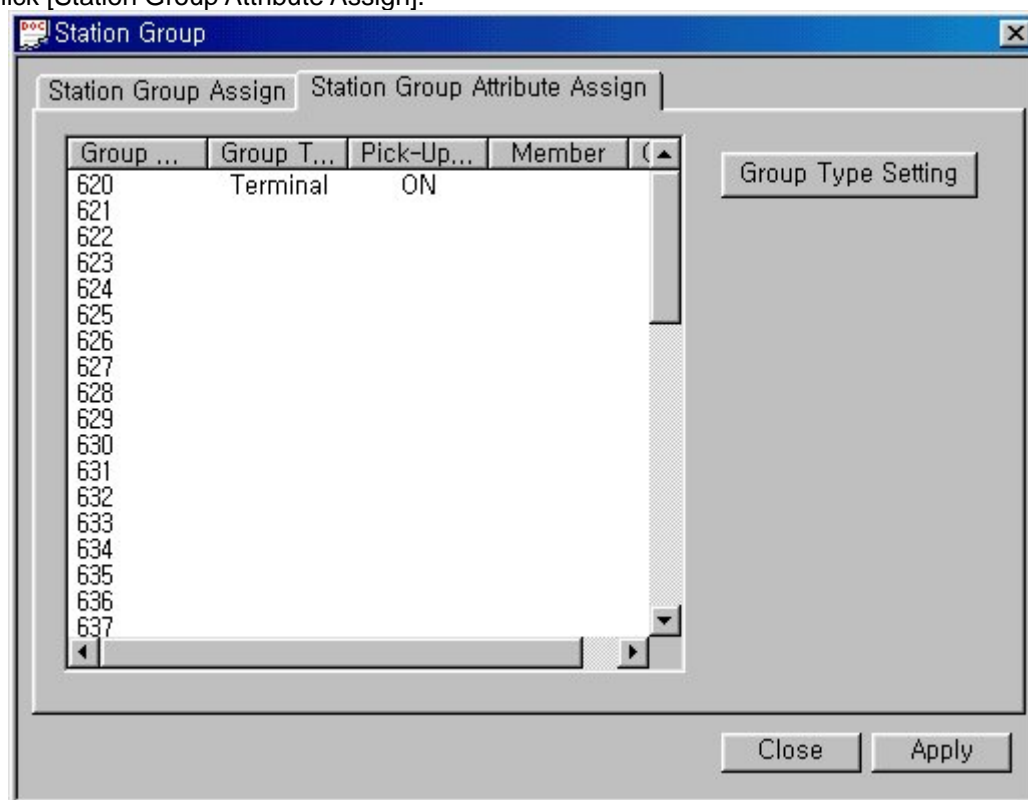
[Table 6-2] Station Group TYPE (PGM 190)

## 6.2 Station Group Attribute Assign (PGM 191)

The features of Terminal Group are same as that of Circular Group.

### Operation

1. Click [Station Group Attribute Assign].



[Figure 6-5] Station Group Attribute Display Window



2. Click [Group Type Setting].

1-1. Set UCD Type Attribute

|  |                                 |              |
|--|---------------------------------|--------------|
| DVU Announce 1 Timer<br>15             | Overflow Destination<br>Not A 0 | Ok<br>Cancel |
| DVU Announce 2 Timer<br>0              | Overflow Timer<br>180           |              |
| DVU Announce Location 1<br>0           | Wrap-Up Timer<br>2              |              |
| DVU Announce Location 2<br>0           | ALT If No MBR<br>OFF            |              |
| DVU Announce 2 Repeat Timer<br>0       | Music Source<br>0               |              |
| DVU Announce 2 Repeat E/D<br>OFF       | ACD Warning Tone<br>ON          |              |
| Alternate Destination<br>Not A 0       | Supervisor Timer<br>30          |              |
| Supervisor Call Count<br>0             | ACD Queued Call<br>OFF          |              |
| Supervisor<br>0                        | Max Que Call Count<br>99        |              |
| UCD hunt Station's Priority<br>Setting |                                 |              |

[Figure 6-6] UCD Type Attribute Setting Window

3. Refer to the table below, and enter the values.

| ITEM                  | RANGE   | DEFAULT   | REMARK   |
|-----------------------|---------|-----------|--|
| VMIB Announce 1 Timer | 000-999 | 015 (sec) | If this timer expires after call come in the group, the system announces the greeting if 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 is expired.  |
| VMIB Announce Location 2   | 00-70  | 00(Not Assigned) | This is used to announce VMIB when the VMIB announce 2 timer is expired.  |
| VMIB Announce 2 Repeat     | 000-999                                      | 000 (sec)        | This is used to repeat VMIB announce 2 when the timer is expired.(000:Not assigned)   |
| VMIB Announce 2 Repeat E/D | ON/OFF                                       | OFF              | This is used to enable or disable VMIB Announce 2 Repeat.   |
| Overflow Destination       | Sta #./<br>HUNT #./<br>VMIB #/<br>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 in 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 MBR              | ON/OFF                                       | OFF              | If there is no member on duty, ICM call will be dropped or Co incoming call will be routed to ATD   |
| Music Source               | <b>00-12(LDK300)</b><br><b>00-11(LDK100)</b> | 00(Not Assigned) | If music source is assigned, calling user will be heard music instead of ring back tone.<br>00: Not Assigned      01: Internal Music<br>02: External Music 1    03: External Music 2<br>04: External Music 3    05: VMIB BGM 1<br>06: VMIB BGM 2      07: VMIB BGM 3<br>08: SLT 1              09: SLT 2<br>10: SLT 3              11: SLT 4<br>12: SLT 5 |

[Table 6-3] Circular/Terminal Group Attribute (PGM 191)

| ITEM                         | RANGE  | DEFAULT            | REMARK   |
|------------------------------|--|--------------------|--|
| VMIB Announce 1 Timer        | 000 – 999<br>(3 Digits)                      | 015<br>(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 0 the call will receive the full first announcement prior to the hunting process (guaranteed announcement). |
| VMIB Announce 2 Timer        | 000 - 999<br>(3 Digits)                      | 000<br>(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.  |
| VMIB Announce Location 2     | 00-70  | 00 (Not Assigned ) | The second announcement can be provided after VMIB Announce 2 Timer.   |
| VMIB Announce 2 Repeat Timer | 000-999                                      | 000                | This is used to announce VMIB announce 2 when the timer is expired.  |
| VMIB Announce 2 Repeat E/D   | ON/OFF                                       | OFF                | This is used to enable or disable VMIB Announce 2 Repeat.  |
| Overflow Destination         | Sta #./<br>HUNT #./<br>VMIB #/<br>SYS SPD #  |                    | The queued call may be taken out of the group and directed to an overflow station.   |
| Overflow Timer               | 000 - 600<br>(3 Digits)                      | 180<br>(sec)       | If this timer expires after a call comes in the group, the call is routed to the overflow destination.   |
| Wrap Up Timer                | 002 - 999<br>(3 Digits)                      | 002<br>(sec)       | A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call for the assigned wrap-up time.   |
| ALT If No MBR                | ON/OFF                                       | OFF                | If there is no member on duty, ICM call will be dropped or Co incoming call will be routed to ATD  |
| Music Source                 | <b>00-12(LDK300)</b><br><b>00-11(LDK100)</b> | 00                 | If music source is assigned, calling user will be heard music instead of ring back tone.<br>00: No Asgn                      01: Internal Music<br>02: External Music 1    03: External Music 2<br>04: External Music 3    05: VMIB BGM 1<br>06: VMIB BGM 2        07: VMIB BGM 3<br>08: SLT 1                      09: SLT 2<br>10: SLT 3                      11: SLT 4<br>12: SLT 5                       |
| ACD Warning Tone             | ON/OFF                                       | ON                 | Determines that the ACD supervisor monitors an agent with warning tone or without warning tone   |

|                             |                         |              |  |
|-----------------------------|-------------------------|--------------|--|
| Alternate destination       | Sta No/<br>HUNT #       | ....         | 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<br>(3 Digits) | 030<br>(sec) | When the queued timer is longer than this timer, the number of queued lines will be displayed onto supervisor's LCD.                           |
| Supervisor Call Cnt         | 00 - 99<br>(2 Digits)   | 00           | If the number of queued calls is more than this call count, the supervisor timer will be started.  |
| ACD Queued Call(reserved)   | ON / OFF                | OFF          | (reserved)   |
| Supervisor                  | Sta#                    | -            | Supervisor Station No.   |
| UCD hunt Stations' Priority | 0 - 9<br>(1 Digit)      | 0            | Ucd group member's Priority  |
| Max Queued Call Cnt         | 00 – 99                 | 00           |  |

[Table 6-4] UCD Group Attribute (PGM 191)

| ITEM                       | RANGE                                       | DEFAULT           | REMARK  |
|----------------------------|---|-------------------|---|
| VMIB Announce 1 Timer      | 000-999                                     | 015<br>(sec)      | If this timer expires after call come in the group, the system announces the greeting if exists.  |
| VMIB Announce 2 Timer      | 000-999                                     | 000<br>(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 is expired.  |
| VMIB Announce Location 2   | 00-70                                       | 00 (Not Assigned) | This is used to announce VMIB when the VMIB announce 2 timer is expired.  |
| VMIB Announce 2 Repeat     | 000-999                                     | 000<br>(sec)      | This is used to announce VMIB announce 2 when the timer is expired.   |
| VMIB Announce 2 Repeat E/D | ON/OFF                                      | OFF               | This is used to enable or disable VMIB Announce 2 Repeat.   |
| Overflow Destination       | Sta #./<br>HUNT #./<br>VMIB #/<br>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. |
| Overflow Timer             | 000-600                                     | 180<br>(sec)      | If this timer expires after a call comes in the group, the call is routed to the overflow destination.  |
| Wrap Up Timer              | 002-999<br>(3 digits)                       | 002<br>(sec)      | A station in a hunt group is maintained in a busy state for a minimum of six seconds after any call for the assigned wrap-up time.  |

|                     |  |    |  |
|---------------------|--|----|--|
| Music Source        | <b>00-12(LDK300)</b><br><b>00-11(LDK100)</b> | 00 | If music source is assigned, calling user will be heard music instead of ring back tone.<br>00: No Asgn                      01: Internal Music<br>02: External Music 1      03: External Music 2<br>04: External Music 3      05: VMIB BGM 1<br>06: VMIB BGM 2            07: VMIB BGM 3<br>08: SLT 1                      09: SLT 2<br>10: SLT 3                      11: SLT 4<br>12: SLT 5 |
| Max Queued Call Cnt | 00 – 99                                      | 00 |  |

[Table 6-5] Ring Group Attribute (PGM 191)

| ITEM                 | RANGE  | DEFAULT      | REMARK   |
|----------------------|--|--------------|--|
| Wrap-Up Timer        | 002-999<br>(3 Digits)                          | 002<br>(sec) | A station in a hunt group is maintained in a busy state for a minimum of 2 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 table  |
| Get Mail Index       | 1 –4   | 2            | This index is one of the voice mail dialing table  |
| Hunt Type            | CIRC<br>/TERM                                  | TERM         | 1: Circular Hunt Group<br>0: Terminal Hunt Group   |
| SMDI Port            | 01-13  | 02(COM2)     | <b>(01~11) in LDK100</b>   |
| Overflow Timer       | 000 –600<br>(3 Digits)                         | 180<br>(sec) | If this timer expires after a call comes in the group, the call is routed to the overflow destination.   |
| Overflow Destination | Sta #./<br>HUNT #./<br>VMIB #/<br>SYS SPD<br># |              | The call to the group will continue to be reroute until reaching the last station in the group where the call will remain or can be sent to this overflow destination.<br>(Station/Hunt group/VMIB/System Speed bin) |

[Table 6-6] Voice Mail Group Attribute (PGM 191)

| ITEM        | RANGE  | DEFAULT<br>(LED) | REMARK   |
|-------------|--------|------------------|--|
| Auto Pickup | ON/OFF | OFF              | If a hunt member is ringing, another hunt member can pickup automatically only press [MON] or off-hook.  |
| All Ring    | ON/OFF | OFF              | When a hunt member that is TONE mode is ringing, all the other stations are ringing also.<br>Auto Pickup feature must be set before All Ring is set. |

[Table 6-7] Pick Up Group Attribute (PGM 191)

## 7. ISDN System Base Program

To change the ISDN related features you use this program. (PGM200~PGM202)

### 7.1 ISDN Attributes (PGM 200)

It is general ISDN attributes. You can change the ISDN attributes using this menu.

#### Operation

1. Click [ISDN Attributes].

The screenshot shows a window titled "ISDN System Base Program" with three tabs: "ISDN Attributes 1", "COLP Table", and "MSN Table". The "ISDN Attributes 1" tab is active. It contains a grid of settings:

| Setting                        | Value              |
|--------------------------------|--------------------|
| Advice of Charge               | Do not service AOC |
| ISDN Line Type                 | A-Law              |
| CO ATD Code                    |                    |
| CLI Print                      | OFF                |
| Incoming prefix code Insertion | OFF                |
| International Acc Code         |                    |
| Outgoing Zero Insertion        | ON                 |
| Calling SubAddress             | OFF                |
| My Area Code                   |                    |
| My Station Prefix Code         |                    |

At the bottom right, there are two buttons: "Close" and "Apply".

[Figure 7-1] ISDN Attributes Setting Window

2. Refer to the table below, and enter the data.

| ITEM                           | RANGE           | DEFAULT        | REMARK   |
|--------------------------------|-----------------|----------------|--|
| Advice of Charge               | 0-5             | 0              | 0: Do not service AOC<br>1: Italy and Spain<br>2: Finland<br>3: Australia<br>4: Belgium<br>5: Standard |
| CO ATD Code                    | MAX 2 Digits    | -              | According to PGM114 - Btn5, CO ATD code or Extension number can be contained to CLI, COLP message      |
| Incoming prefix code Insertion | ON/OFF          | OFF(NO)        | If this field is ON, prefix code at will be attached in front of incoming phone number.                |
| Outgoing prefix code Insertion | ON/OFF          | ON(YES)        | If this field is ON, prefix code will be attached in front of outgoing phone number.                   |
| ISDN Line Type                 | μ-Law/<br>A-Law | A-Law<br>(OFF) | Installed ISDN Back bone type  |
| CLI print                      | ON/OFF          | OFF(NO)        | If this field is ON, send the CLI to RS-232C port regardless setting the CLIP                          |
| International Access Code      | MAX 4 Digits    | -              | International Access Code Assign   |
| Calling Sub-address            | ON/OFF          | OFF(NO)        |  |
| My Area Code                   | MAX 6 Digits    | -              | Local area code.   |
| My Area Prefix Code            | MAX 4 Digits    | -              | Prefix code of local area code.  |

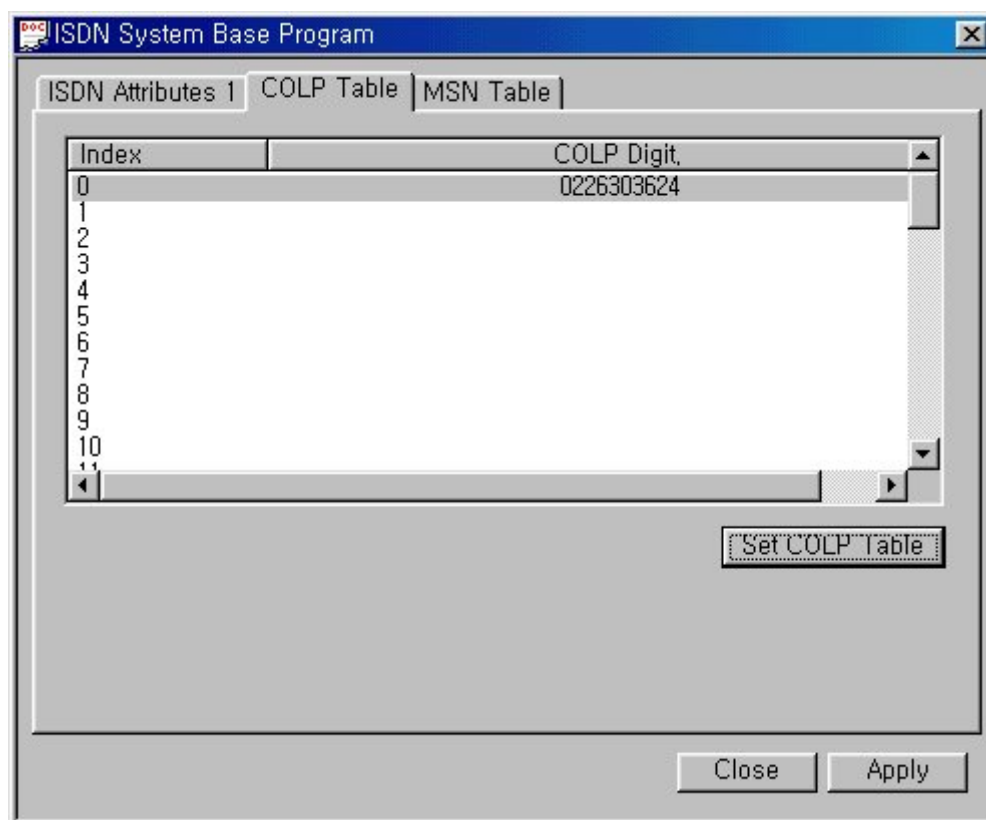
[Table 7-1] ISDN Attributes (PGM 200)

## 7.2 COLP Table (PGM 201)

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

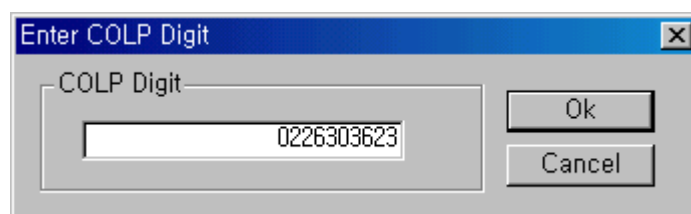
### Operation

1. Click [COLP Table], select a table index, and click [Setting].



[Figure 7-2] COLP Table Index Window

1. You can enter 10 COLP digits in maximum.



[Figure 7-3] COLP Editing Dialog Box

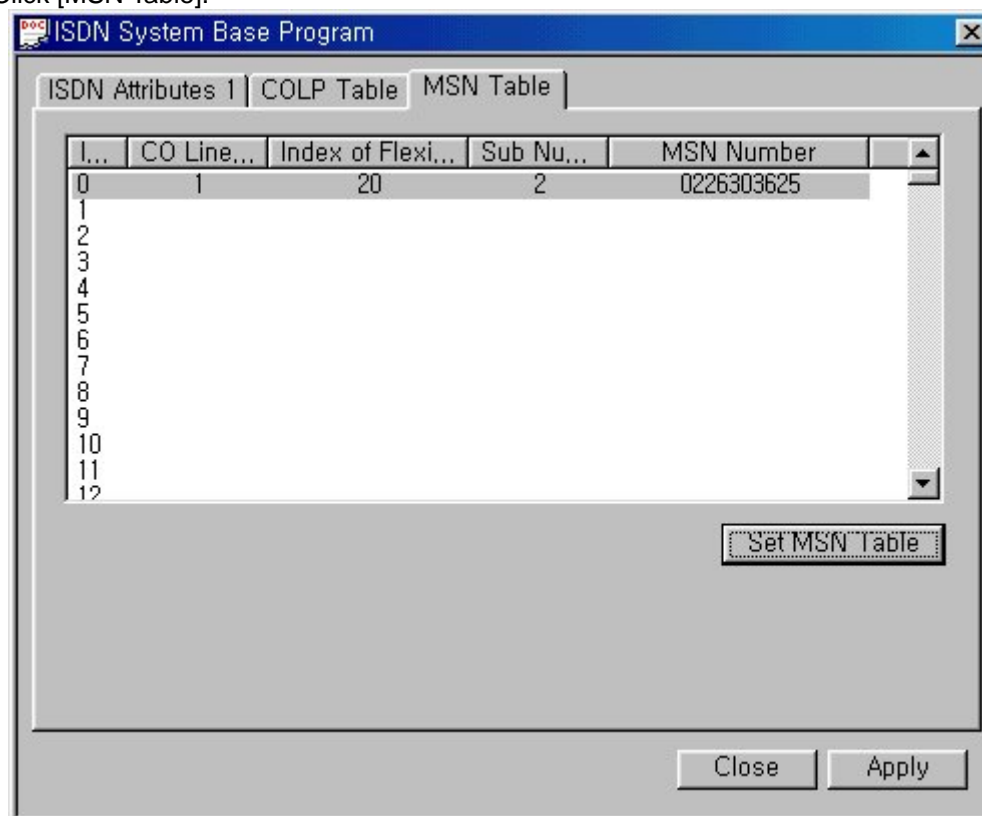


## 7.3 MSN Table (PGM 202)

When a ISDN CO that is used for DID is caught by a ring, you can find a station using the DID Co number

### Operation

1. Click [MSN Table].

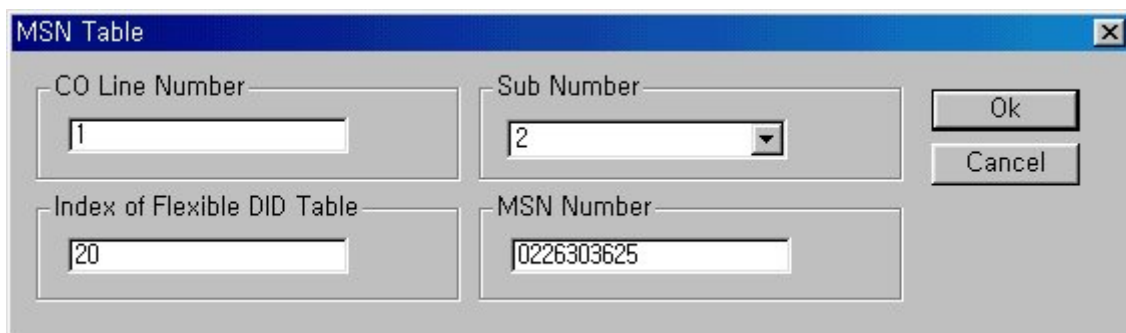


[Figure 7-4] MSN Table Display Window

2. Click [Set MSN Table], refer to the table below, and enter the numbers

| ITEM                           | RANGE                                    | DEFAULT | REMARK   |
|--------------------------------|--|---------|--|
| CO Line No.                    | 001-200<br>(LDK300)<br>01-40<br>(LDK100) | None    |  |
| Index of Flexible<br>DID Table | 000-999                                  | None    | If Incoming Col no and MSN number or MSN number are matched with Table entry, follow assigned Flex DID Table |
| Sub Number                     | 0-9                                      | None    | MSN Subscriber number  |
| MSN Number                     | 20 Digits                                | None    | ISDN Incoming MSN number.  |

[Table 7-2] MSN Table (PGM 202)



The image shows a Windows-style dialog box titled "MSN Table". It contains four input fields arranged in a 2x2 grid. The top-left field is labeled "CO Line Number" and contains the value "1". The top-right field is labeled "Sub Number" and contains the value "2" with a dropdown arrow. The bottom-left field is labeled "Index of Flexible DID Table" and contains the value "20". The bottom-right field is labeled "MSN Number" and contains the value "0226303625". To the right of the input fields are two buttons: "Ok" and "Cancel".

| Field Label                 | Value      |
|-----------------------------|------------|
| CO Line Number              | 1          |
| Sub Number                  | 2          |
| Index of Flexible DID Table | 20         |
| MSN Number                  | 0226303625 |

[Figure 7-5] MSN Table Editing Dialog Box

## 8. Tables

### 8.1 LCR Assignment (PGM 220)

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

#### Operation

1. Click [LCR Assignment].
2. Select a 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
3. Duplicated day can't be assigned for different day zones. If you want to select Saturday for Day Zone 2, click [Add Day] that's beside [Day Zone2], and select Saturday.
4. For each day zone, you set up time-of-day. The time also can't be duplicated for each day zone.

[Figure 8-1] LCR Assignment Display Window

| ITEM       | RANGE                                      | DEFAULT              | REMARK   |
|------------|--|----------------------|--|
| LCR Access | M00,<br>M01,<br>M02,<br>M11,<br>M12<br>M13 | Disable<br>(M00)     | <ul style="list-style-type: none"> <li>■ LCR Access Mode 00 (M00) : Disable LCR</li> <li>■ LCR Access Mode01 (M01) : only Loop LCR.</li> <li>■ LCR Access Mode02 (M02): Internal and Loop LCR.</li> <li>■ LCR Access Mode11 (M11) : Loop and Direct Co LCR</li> <li>■ LCR Access Mode12 (M12): Internal, Loop and Direct Co LCR.</li> <li>■ LCR Access Mode13 (M13): Internal, Loop, Direct Co and Direct Loop LCR.</li> </ul> |
| Day Zone   | Zone : 3<br>Day : 1 - 7                    | Belongs to<br>Zone 1 | First, select day and choose zone.   |
| Time Zone  | Time : 00 -<br>24                          | Belongs to<br>Zone 1 | LDK accepts it as same value for 00 and 24 and changes to "00", if input is 24 as starting value and   |

|  |  |  |  |
|--|--|--|--|
|  |  |  | <p>vice versa.</p> <p>*Note : The time not belonging to any zone will be considered as zone 1</p> <p>*Note : 10 - 13 means 10:00:00 - 12:59:59</p> |
|--|--|--|--|

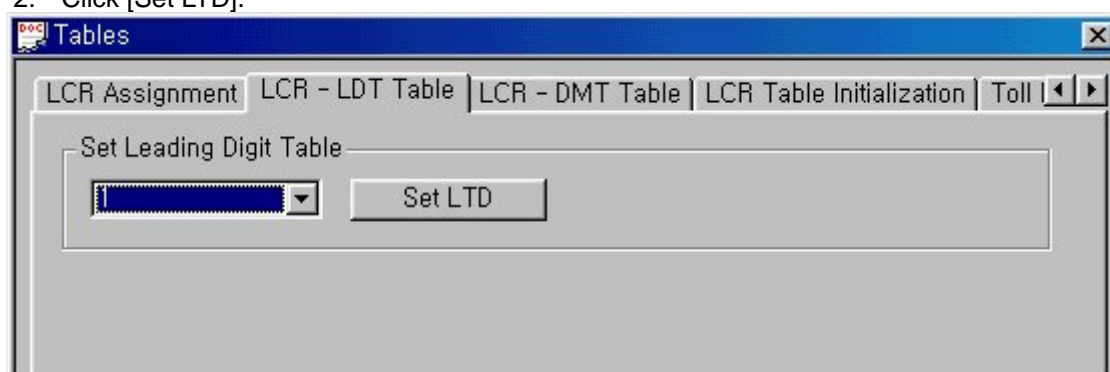
[Table 8-1] LCR Table (PGM 220)

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

PGM 221 is for Leading Digit Table.

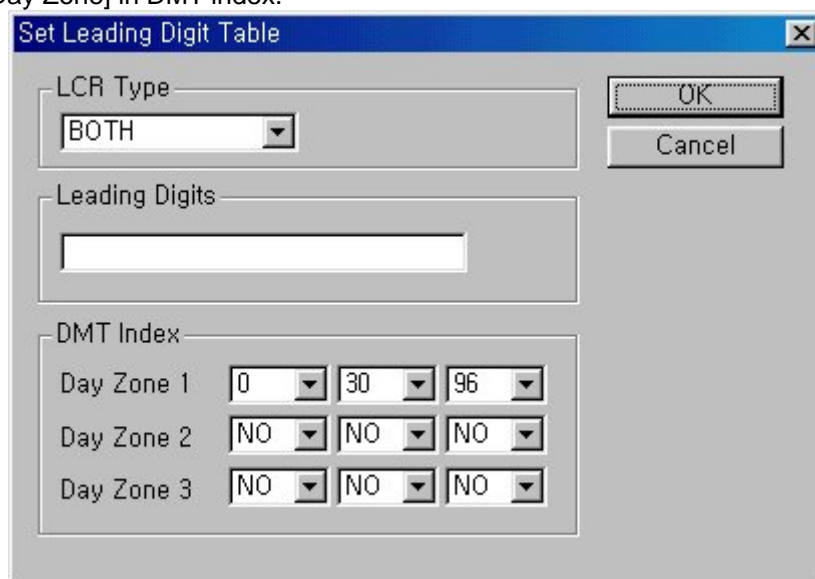
### Operation

1. Click [LCR-LDT Table]. Select a LDT number.(0 ~ 249)
2. Click [Set LTD].



[Figure 8-2] LDT Table Index Selection Window

3. Select a LCR type(INT, COL, BOTH)
4. Enter Leading Digits.  
(it's a 12 digits number to compare with a number a user dialed previously.)
5. Set up [Day Zone] in DMT index.



[Figure 8-3] LDT Table Editing Window

| ITEM      | RANGE                                | DEFAULT | REMARK   |
|-----------|--------------------------------------|---------|--|
| LCR Type  | Digit<br>(1)INT<br>(2)COL<br>(3)BOTH | BOTH    | <ul style="list-style-type: none"> <li>■ INT : look up this entry only for internal dialing</li> <li>■ COL : look up this entry only after dialing CO Access Code</li> <li>■ BOTH : look up this entry for both INT and COL .</li> </ul> |
| 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 index ( 6digits)  |

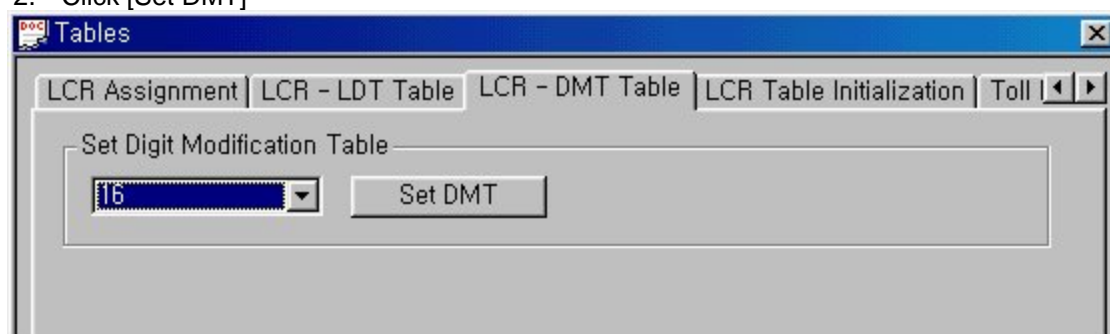
[Table 8-2] Leading Digit Table (PGM221)

### 8.3 LCR - DMT Table (PGM 222)

PGM 222 is for Digit Modification Table, Finally, PGM 223 is for initializing LCD database.

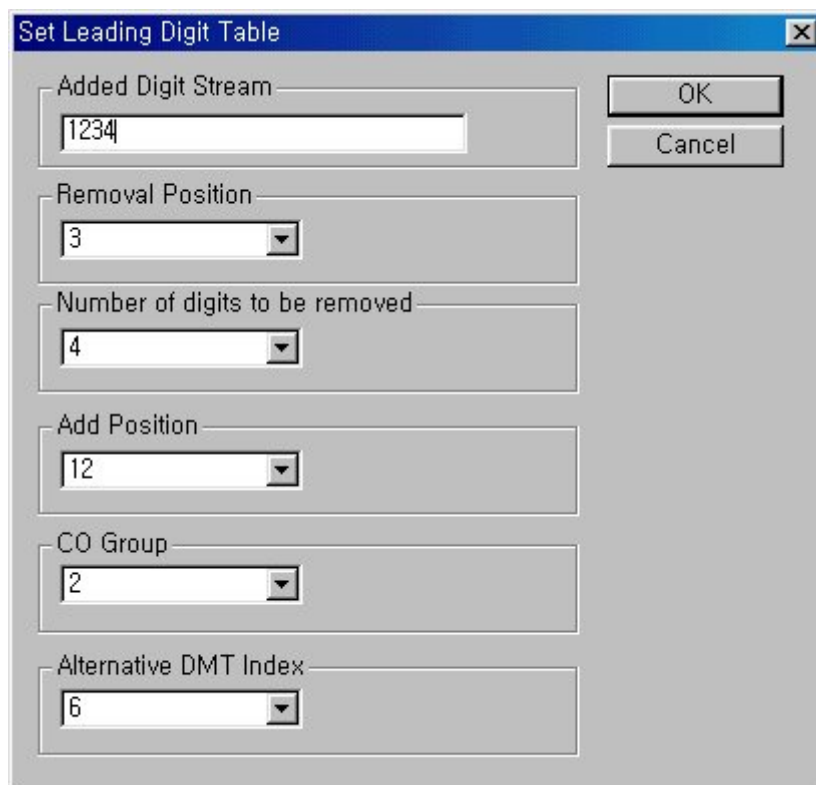
#### Operation

1. Click [LCR-DMT Table], and select DMT (0 ~ 99)
2. Click [Set DMT]



[Figure 8-4] DMT Table Index Selection Window

3. You can see the dialog box below
4. Added Digit Stream : 25 Digits in maximum.
5. Removal Position : Select a position to remove. (1~12)
6. Number of digits to be removed : Select the number to be deleted. (1~12)
7. Add Position : Select a position to be added.(1~13)
8. CO Group : Select a CO Group.(1~72).
9. Alternativ DMT index : If there is no CO group to select, Select alternative DMT index to be unused.(0~99)



The image shows a Windows-style dialog box titled "Set Leading Digit Table". It contains several input fields and two buttons. The fields are: "Added Digit Stream" with the value "1234", "Removal Position" with a dropdown showing "3", "Number of digits to be removed" with a dropdown showing "4", "Add Position" with a dropdown showing "12", "CO Group" with a dropdown showing "2", and "Alternative DMT Index" with a dropdown showing "6". The "OK" and "Cancel" buttons are on the right side.

[Figure 8-5] DMT Table Editing Window

| ITEM                           | RANGE                                  | DEFAULT | REMARK  |
|--------------------------------|--|---------|---|
| Bin Number                     | 00-99                                  | -       |   |
| Added Digit Stream             | 25 digits                              | None    | <ul style="list-style-type: none"> <li>■ Normal digits (0 .. 9, *, #)</li> <li>■ Special characters</li> </ul> [CALLBK]: Pause<br>[DND/FOR]: Dial-tone-detection instead of pause<br>[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 count   |
| Add Position                   | 01-13                                  | 01      | Determine the position of CD stream after removal, where the stream will be inserted.   |
| CO Group                       | 01-72<br>(LDK300)<br>01-24<br>(LDK100) | 01      | Determines which CO group is used for LCR dialing   |
| Alternative DMT Index          | 00-99                                  | None    | Determine alternative DMT index when there is no idle CO line in CO group.  |

[Table 8-3] Digit Modification Table (PGM222)

## 8.4 LCR Table Initialization (PGM 223)

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

### Operation

1. Click [LCR Table Initialization]. Click [Day Zone].(1~3) Select DMT index(0~99), press [Initialize] button to initialize.
2. Select a CO group(1~72), and Click [Initialize Co Group] to initialize.
3. Select alternative DMT index (1~99), and click [Initialize Alternative DMT Index] to initialize.
4. Click [Initialize All LCR Table] to initialize all LCR table.

The screenshot shows a software window titled "Tables" with a tabbed interface. The active tab is "LCR Table Initialization". The window contains two main sections for initialization. The first section, "Initialize all DMT Index of Day Zone in LDT", includes a "Day Zone" dropdown menu set to "Day Zone 1" and an "Initialize" button. Below this, the "Select DMT Index" section has three dropdown menus showing the values "1", "3", and "9". The second section, "Initialize CO Group/Alternative DMT Index/All LCR Table", includes a dropdown menu, an "Initialize CO Group" button, a dropdown menu set to "NO", an "Initialize Alternative DMT Index" button, and a large "Initialize All LCR Table" button. At the bottom right of the window are "Close" and "Apply" buttons.

[Figure 8-6] LCR Table Initialization Window

## 8.5 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:

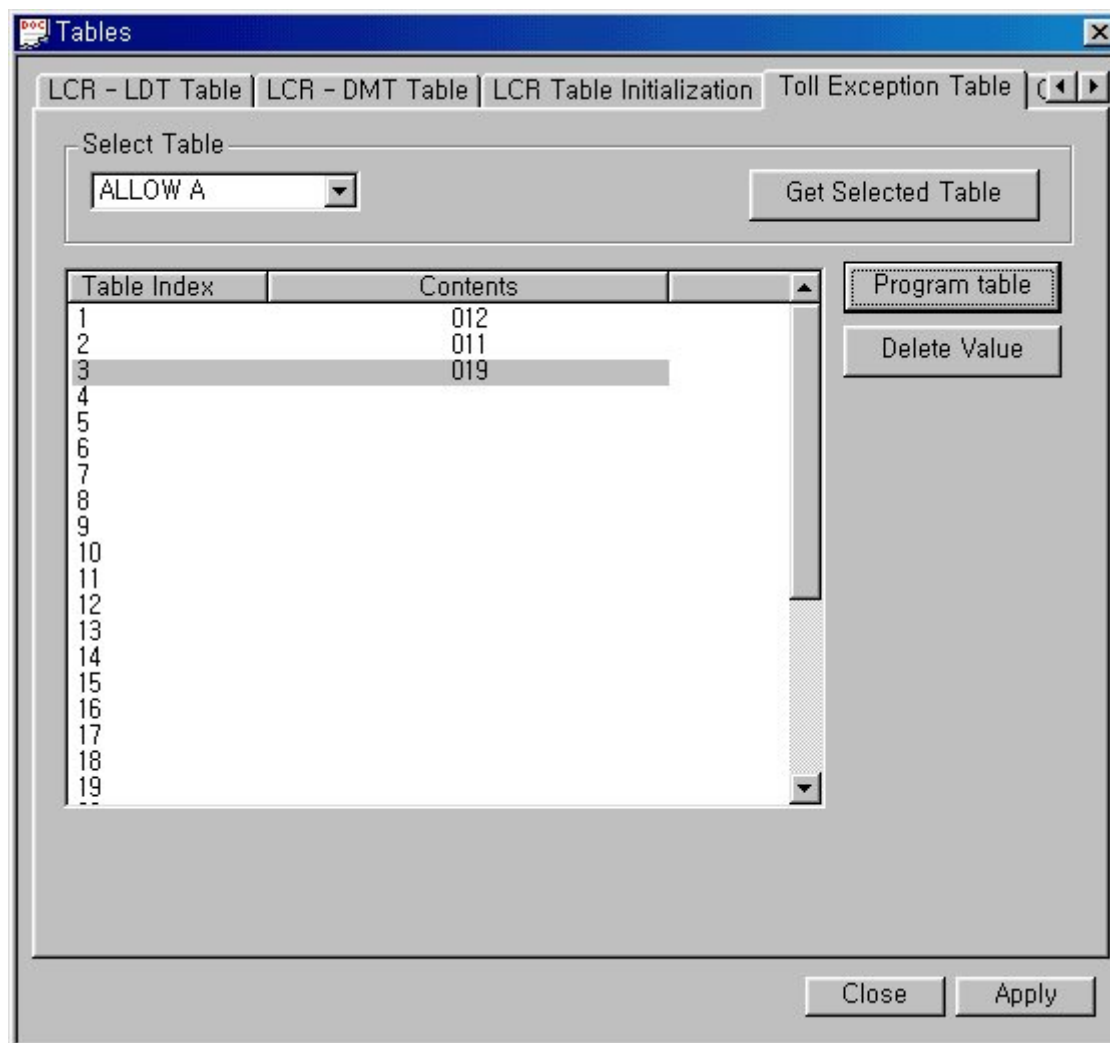
- (1) If the tables have no entries, no restriction is applied.
- (2) If entries are made in the allow table and only there, then only those numbers are allowed.
- (3) If entries are made in the deny table and only there, then only those numbers are denied.
- (4) If there are entries in both tables, 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.

| ENTRY     |           | CONDITIONS & RESULT                             |                                       |
|-----------|-----------|---|---------------------------------------|
| ALLOW     | DENY      | ALLOW TABLE                                     | DENY TABLE                            |
| Not Exist | Not Exist | No Restriction                                  | No Restriction                        |
| Exist     | Not Exist | Found – allowed<br>Not found - denied           |                                       |
| Not Exist | Exist     |   | Found - denied<br>Not found – allowed |
| Exist     | Exist     | Found – allowed<br>Not found – check deny table | Found - denied<br>Not Found – allowed |

[Table 8-4] Allow/Deny Rules (PGM 224)

### Operation

1. Click [Toll Exception]. Select table(allow or deny).
2. Click [Get Selected Table], Table Index will be showed 1 through 30. (30 table index for each table)
3. Select a desired index number and click [Program Table]. And enter a number that is to be allowed or denied. (14 digits in maximum)



[Figure 8-7] Toll Exception Table Display Window

## 8.6 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 entry in a table is 20, and 14 digits including any number 0-9, \*, # are possible in maximum.

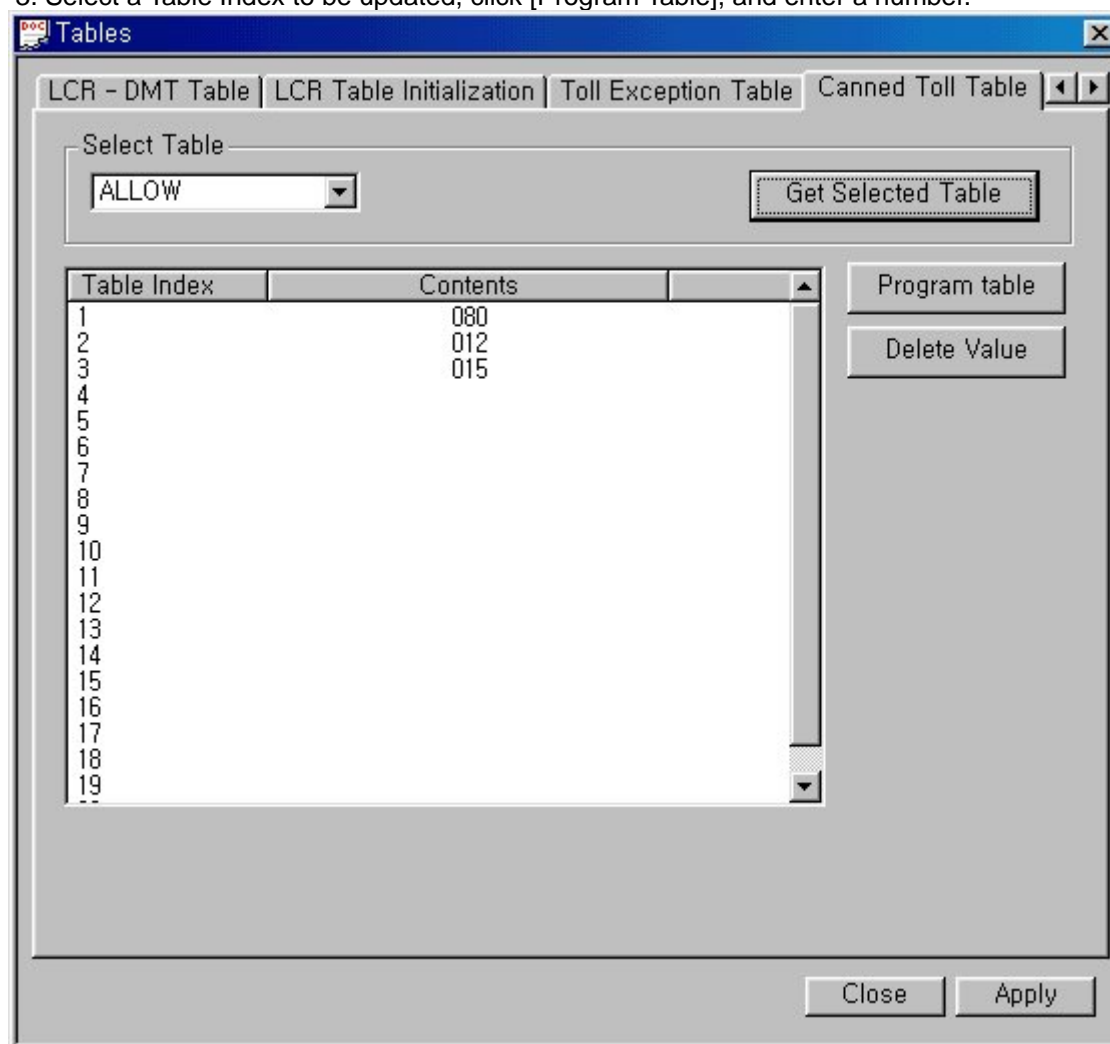
### Operation

1. Click [Canned Toll Table]. Select [ALLOW] or [DENY].
2. Click [Get Selected Table].

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

[Table 8-5] Canned Toll Table (PGM 225)

3. Select a Table Index to be updated, click [Program Table], and enter a number.



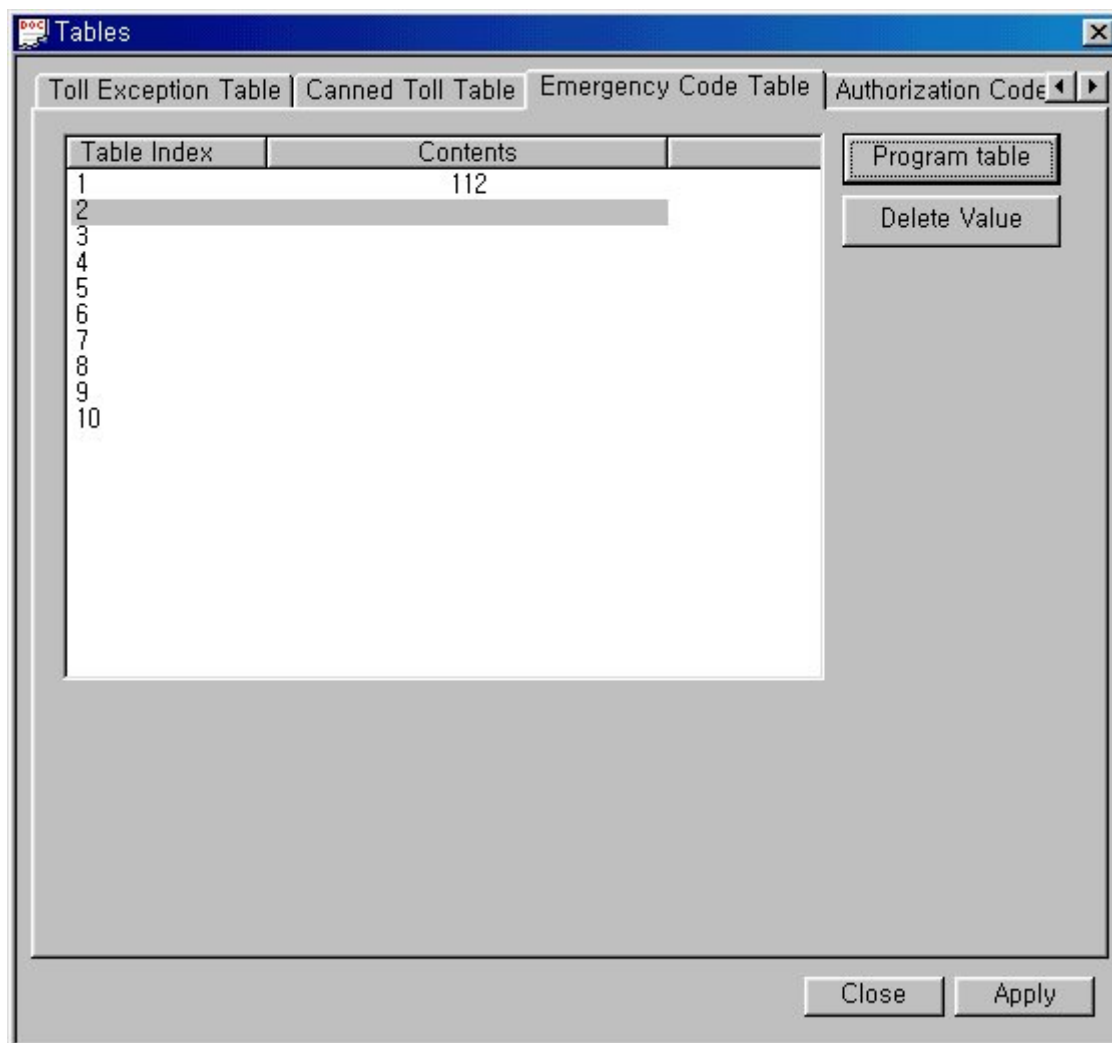
[Figure 8-8] Canned Toll Table Display Window

## 8.7 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.

### Operation

1. Click [Emergency Code Table].
2. Select a index, click [Program table], and enter a number you want to call for emergency.



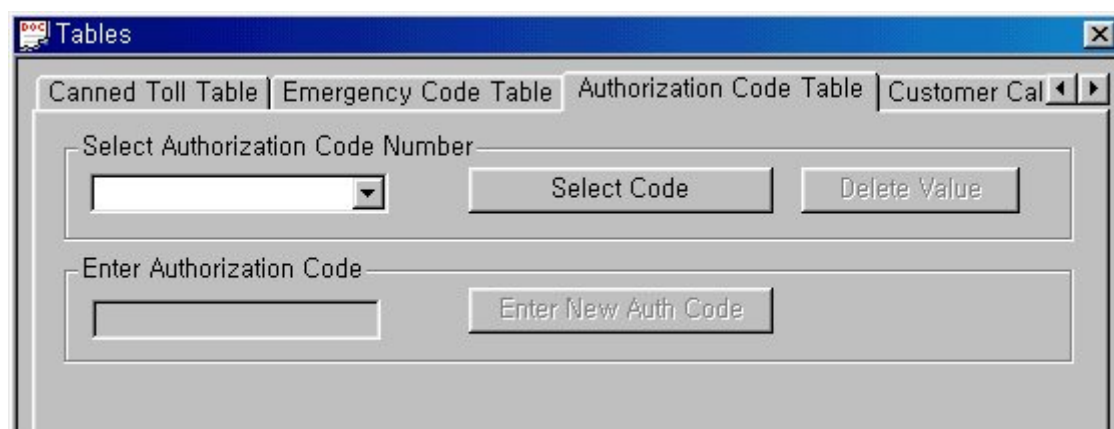
[Figure 8-9] Emergency Code Table Display Window

## 8.8 Authorization Code Table (PGM 227)

Trunk groups can be marked to deny access until a matched Authorization code is entered. In this case, DND warning tone is provided when the trunk group access code is dialed. If the dialed Authorization code is verified, you will hear CO dial tone. Otherwise, you will hear error tone and cannot access the group. The authorization codes can be entered by stations or admin programming. Authorization code is fixed 5 digits. Administrator can see and change station's password. There can be no duplicate entries. *By default, Authorization Codes are not assigned at all.* In LDK-300, the total number of Authorization Codes in system is 600 entries.

### Operation

1. Click [Authorization Code Table], select authorization code number and click [Select Code].
2. If a password is registered in the system, it will be shown in [Enter Authorization Code] box. Otherwise you click [Enter New Auth Code], and put a new password that has to be 5 digits.



[Figure 8-10] Authorization Code Table Editing Window

## 8.9 Customer Call Routing (PGM 228)

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

### Operation

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

Tables

Emergency Code Table | Authorization Code Table | Customer Call Routing | Executive

Select CCR Table number

1

Select Table Number

CCR Table

| Entry Index | Input Type | Value |
|-------------|------------|-------|
| 1           |            |       |
| 2           |            |       |
| 3           |            |       |
| 4           |            |       |
| 5           |            |       |
| 6           |            |       |
| 7           |            |       |
| 8           |            |       |
| 9           |            |       |
| 10          |            |       |

Set CCR Code

Delete Value

Close Apply

[Figure 8-11] Customer Call Routing Table Window

3. Select an index, and click [Set CCR Code].

Set CCR Table

Input Type

Station

Data

2008

OK

Cancel

[Figure 8-12] Customer Call Routing Table Editing Window

4. There are 8 input types.
  - A. Select STA, and enter a station number to call
  - B. To call a HUNT group, select HUNT, enter the HUNT group number.
  - C. To hear a guidance message, select VMIB Annnc and enter a DVU number.

- D. To disconnect a call after providing a guidance message, select VMIB Annc# and enter a DVU number.
- E. To assign a system speed bin number, select System Speed and enter a number.
- F. To make an internal page, select Internal and enter a number.
- G. To make an external page, select External and enter a number.
- H. To make an all call page, select All Call and enter a number.

Select CCR Table number

5 Select Table Number

CCR Table

| Entry Index | Input Type | Value |
|-------------|------------|-------|
| 1           | HUNT       | 621   |
| 2           | STA        | 222   |
| 3           | VMIB Annc  | 16    |
| 4           |            |       |
| 5           |            |       |
| 6           |            |       |
| 7           |            |       |
| 8           |            |       |
| 9           |            |       |
| 10          |            |       |

Set CCR Code

[Figure 8-13] Customer Call Routing Table Display Window

| TYPE (DIGIT) | TYPE          | RANGE  | DEFAULT | REMARK  |
|--------------|---------------|--|---------|---|
| 1            | Station       | STA #  | -       |   |
| 2            | Hunt Group    | HUNT #   | -       |   |
| 3            | VMIB          | Announce #   | -       |   |
| 4            | VMIB DROP     | Announce #   |         |   |
| 5            | System Speed  | <b>2000-4999 (LDK-300)</b><br><b>2000-3499 (LDK-100)</b> | -       |   |
| 6            | Internal Page | 1 - 30   | -       | <b>In LDK100, 1 -- 10</b>                         |
| 7            | External Page | 1 - 3  | -       |   |
| 8            | All Call Page | 1 - 3  | -       | 1: INT All Page<br>2: EXT All Page<br>3: All Page |

[Table 8-6] Custom Call Routing Table (PGM 228)

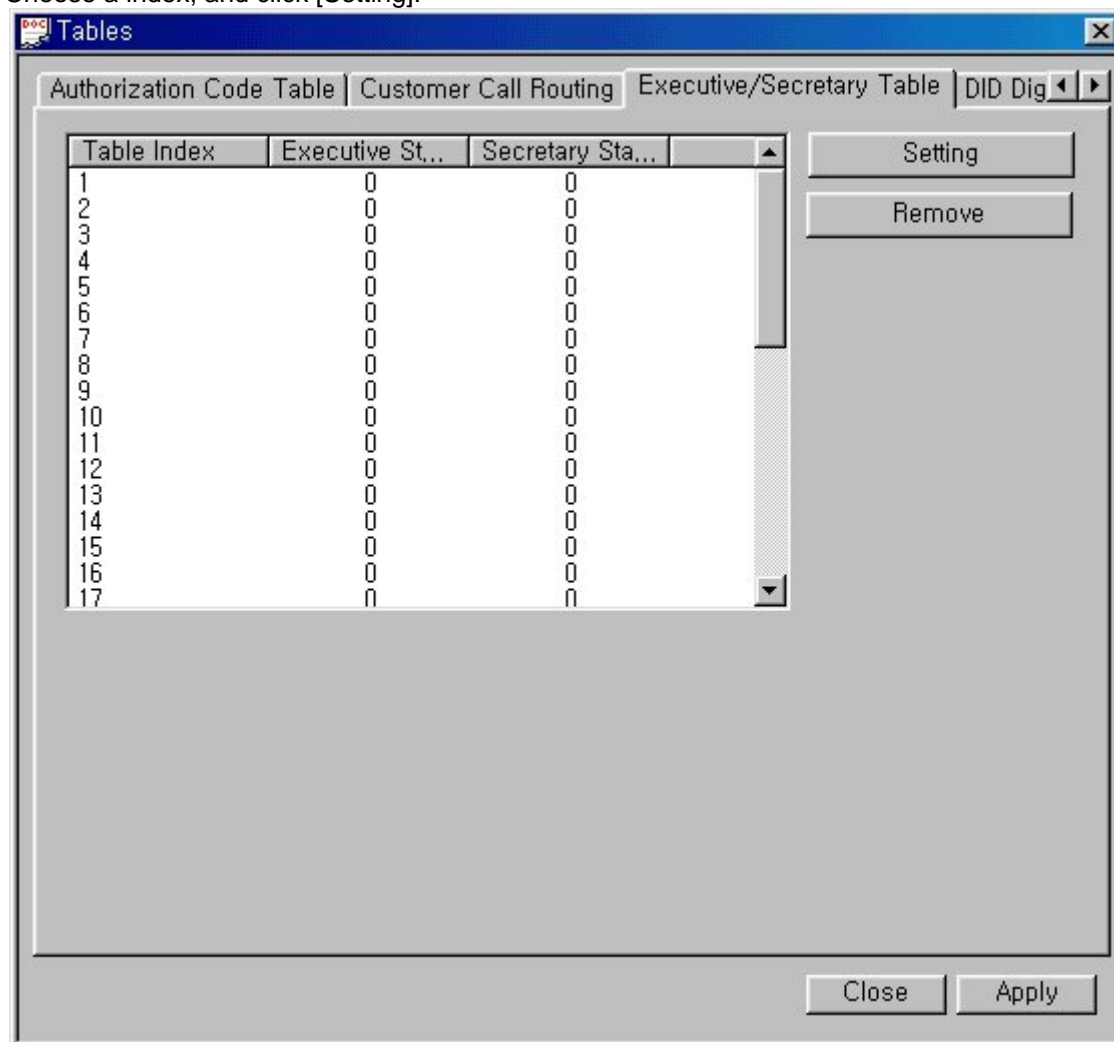
## 8.10 Executive/Secretary Table (PGM 229)

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 at all.* In LDK-300, system supports 36 Executive / Secretary pairs.

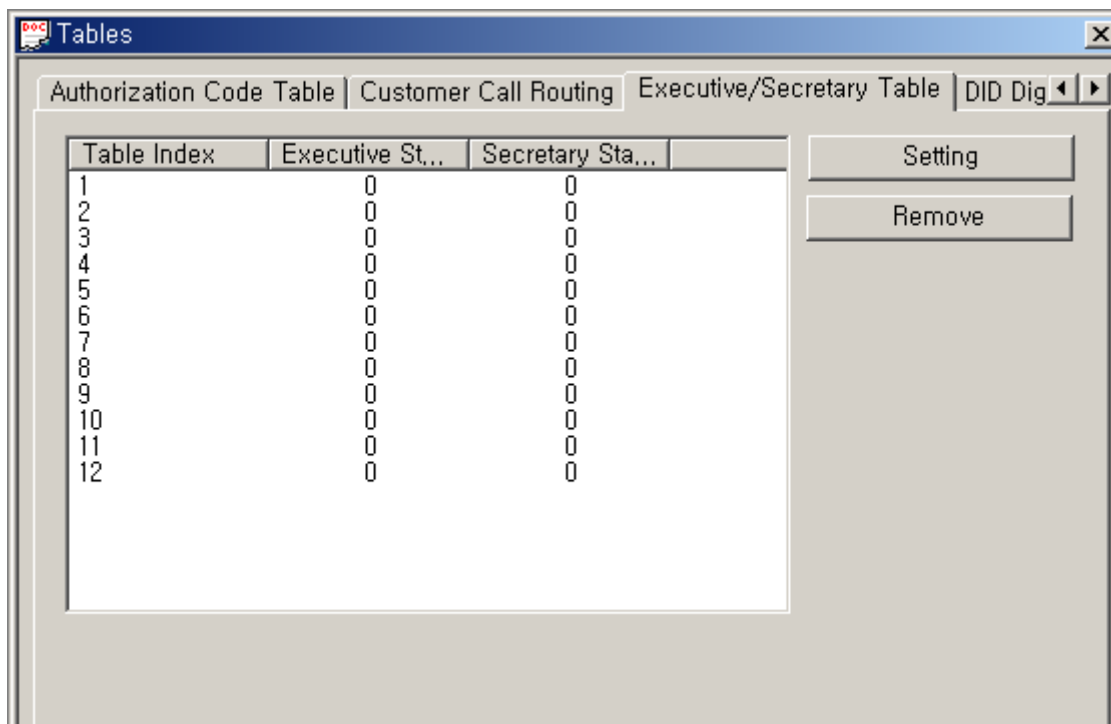
### Operation

1. Choose a index, and click [Setting].



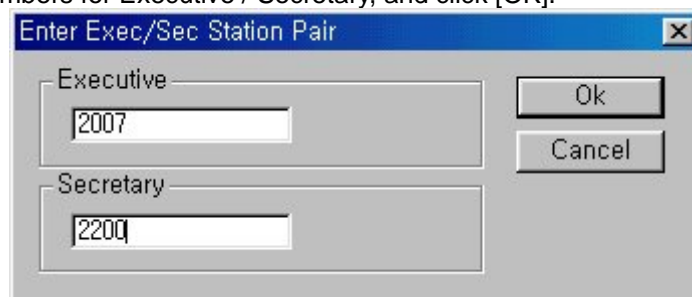
[Figure 8-14-1] Executive/Secretary Table Display Window in LDK300





[Figure 8-14-2] Executive/Secretary Table Display Window in LDK100

2. Enter the numbers for Executive / Secretary, and click [OK].



[Figure 8-15] Executive/Secretary Table Editing Window

## 8.11 DID Digit Conversion Table (PGM 230)

With Direct Inward Dialing (DID), a user dials through a public telephone network. To complete the connection, the DID trunk receives two, three or four digits from the central office, and routes the call to the proper corresponding station. The DID dialed digits may be modified by stripping up to two leading digits, by substitution of two leading digits (after stripping).

### Operation

1. Click [DID Digit Conversion Table].
2. In DID Digit Conversion Table, '#' is ignored, and '\*\*\*\*' is accepted.

The screenshot shows a software window titled 'Tables'. It has four tabs: 'Customer Call Routing', 'Executive/Secretary Table', 'DID Digit Conversion Table' (which is selected), and 'Flexib'. Inside the 'DID Digit Conversion Table' tab, there are two input fields. The first field is labeled 'DID Received Digit Number from PBX' and contains the value '3'. The second field is labeled 'DID Digit Conversion' and contains the value '#\*\*\*'.

[Figure 8-16] DID Digit Conversion Table Editing Window

| ITEM                              | RANGE                 | DEFAULT | REMARK  |
|-----------------------------------|-----------------------|---------|---|
| DID Received Digit No.<br>from PX | 2 - 4                 | 3       |   |
| DID Digit Conversion              | 4 digits<br>(d, *, #) | #***    | d : digit (0 - 9)<br># : ignore digits<br>* : any kind of digit |

[Table 8-7] DID Digit Conversion (PGM 230)

## 8.12 Flexible DID Table (PGM 231)

This table is for flexible DID table service.

### Operation

1. Click Flexible DID Table, select DID Table Index, and click [Get Data].
2. Select station, HUNT, and internal/external page for Day/Night/Weekend.

[Figure 8-17] Flexible DID Table Editing Window

| ITEM            | RANGE  | DEFAULT             | REMARK   |
|-----------------|--|---------------------|--|
| DID Name        | 1 - 11<br>Chars  | None                | Max 11 characters  |
| Day Destination | STA # /<br>Hunt # /<br>VMIB #<br>VMIB #<br>drop<br>SPD<br>Int Page<br>Ext Page<br>All Page | Sta #<br>Or<br>NULL | 00 - 70 (00: NOT_ASG)<br>00 - 70 (00: NOT_ASG)<br><br>2000 - 4999(LDK300), 2000 - 3499(LDK100)<br>1 - 30(LDK300), 1-10(LDK100)<br>1 - 3<br>1 - 3 |

|                     |   |             |  |
|---------------------|---|-------------|--|
| Night Destination   | STA # /<br>Hunt # /<br><b>VMIB #</b><br>VMIB #<br>drop<br>SPD<br>Int Page<br>Ext Page<br>All Page | Atd<br>Sta# | 00 - 70 ( 00: NOT_ASG)<br>00 - 70 ( 00: NOT_ASG)<br><br>2000 - 4999( <b>LDK300</b> ), 2000 - 3499( <b>LDK100</b> )<br>1 - 30( <b>LDK300</b> ), 1-10( <b>LDK100</b> )<br>1 - 3<br>1 - 3 |
| Weekend Destination | STA # /<br>Hunt # /<br><b>VMIB #</b><br>VMIB #<br>drop<br>SPD<br>Int Page<br>Ext Page<br>All Page | Atd<br>Sta# | 00 - 70 ( 00: NOT_ASG)<br>00 - 70 ( 00: NOT_ASG)<br>2000 - 4999( <b>LDK300</b> ), 2000 - 3499( <b>LDK100</b> )<br><br>1 - 30( <b>LDK300</b> ), 1-10( <b>LDK100</b> )<br>1 - 3<br>1 - 3 |
| Reroute Destination | STA # /<br>Hunt # /<br><b>VMIB #</b><br>VMIB #<br>drop<br>SPD                                     | Atd<br>Sta# | 00 - 70 ( 00: NOT_ASG)<br>00 - 70 ( 00: NOT_ASG)<br><br>2000 - 4999( <b>LDK300</b> ), 2000 - 3499( <b>LDK100</b> )   |

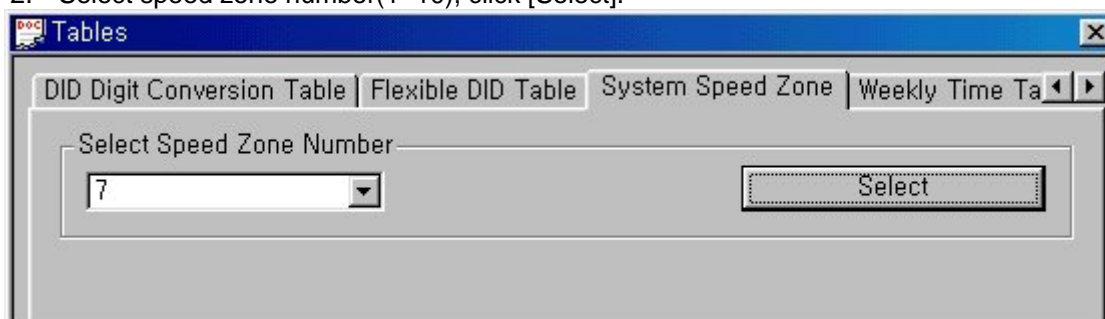
[Table 8-8] Flexible DID Table (PGM 231)

### 8.13 System Speed Zone (PGM 232)

You can sort system speed dials by 10 zones in maximum, and use it for station COS checking and a status of each station.

#### Operation

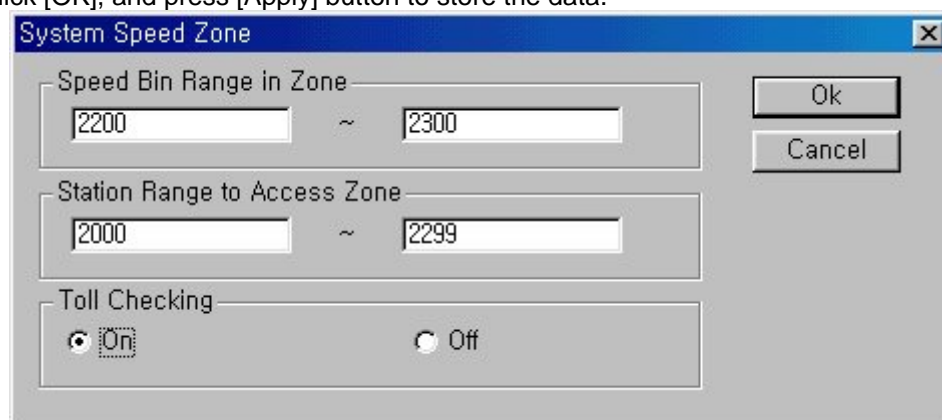
1. Click [System Speed Zone].
2. Select speed zone number(1~10), click [Select].



[Figure 8-18] System Speed Zone Index Selection Window

3. Enter speed bin range in zone. (**2000~4999:LDK300**, **2000~3499:LDK100**)
4. Enter station range to access zone. (**100~399:LDK300**, **100~227:LDK100**)

5. 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.
6. Click [OK], and press [Apply] button to store the data.



The image shows a window titled "System Speed Zone" with a close button (X) in the top right corner. It contains three main sections:
 

- Speed Bin Range in Zone:** Two input fields with values "2200" and "2300" separated by a tilde (~).
- Station Range to Access Zone:** Two input fields with values "2000" and "2299" separated by a tilde (~).
- Toll Checking:** Two radio buttons, "On" (which is selected) and "Off".

 On the right side of the window are two buttons: "Ok" and "Cancel".

[Figure 8-19] System Speed Zone Editing Window

| ITEM                         | RANGE   | DEFAULT  | REMARK  |
|------------------------------|---------|--|---|
| Speed Bin Range in Zone      |         | 2200 - 4999<br>(LDK300)<br>2200 - 3499<br>(LDK100) | Each zone is exclusive<br>(2000 - 2199: Toll Free Zone) |
| Station Range to Access Zone | STA No. | 100 - 399<br>(LDK300)<br>100 - 227<br>(LDK100)     |   |
| Toll Checking                | YES/NO  | YES(ON)  |   |

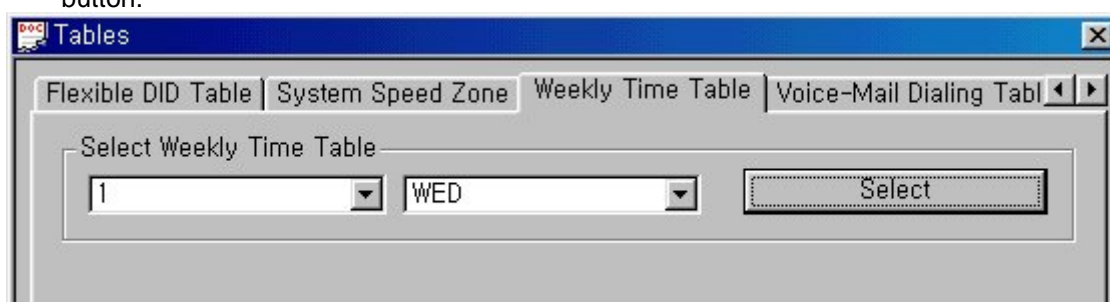
[Table 8-9] System Speed Dial Zone (PGM 232)

## 8.14 Weekly Time Table (PGM 233)

You can set day/night/weekend start time for each day. A 15 entries are possible in maximum. Weekend is after 6 o'clock on Friday.

### Operation

1. Click [Weekly Time Table], select a number (1 ~ 15), and select a day, and press [Select] button.

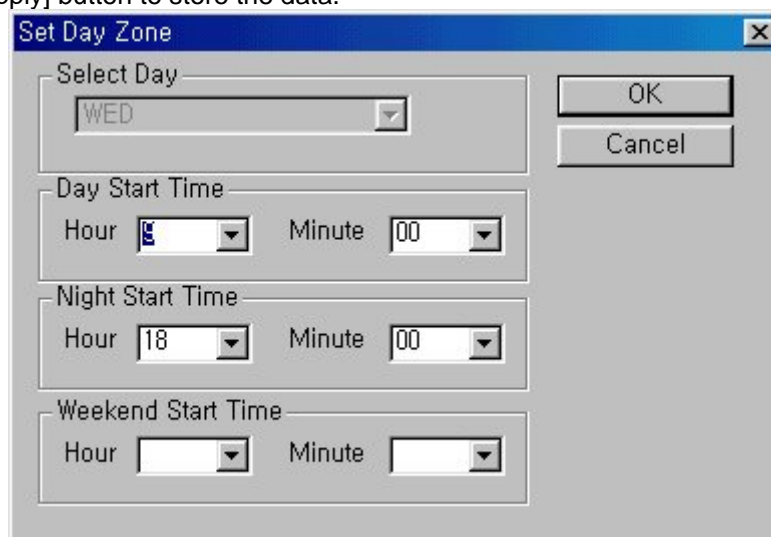


The image shows a window titled "Tables" with four tabs: "Flexible DID Table", "System Speed Zone", "Weekly Time Table" (which is selected), and "Voice-Mail Dialing Table". Below the tabs, there is a section titled "Select Weekly Time Table" containing:
 

- A dropdown menu with the value "1".
- A dropdown menu with the value "WED".
- A "Select" button.

[Figure 8-20] Weekly Time Table Search Window

2. Set Day/Night/Weekend start time, and click [OK].
3. Press [Apply] button to store the data.



The 'Set Day Zone' dialog box has a title bar with a close button. It contains four sections: 'Select Day' with a dropdown menu showing 'WED'; 'Day Start Time' with 'Hour' (0) and 'Minute' (00) dropdowns; 'Night Start Time' with 'Hour' (18) and 'Minute' (00) dropdowns; and 'Weekend Start Time' with 'Hour' and 'Minute' dropdowns. On the right side, there are 'OK' and 'Cancel' buttons.

[Figure 8-21] Weekly Time Table Editing Window

| 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) |

[Table 8-10] WEEKLY TIME TABLE (PGM 233)

## 8.15 Voice-Mail Dialing Table (PGM 234)

Apply this feature to use voice mail, and signal assignment between two systems.  
You better leave this as default.

### Operation

1. Click [Voice-Mail Dialing Table]. Select a number and choose either Prefix or Suffix.



The 'Tables' window has a title bar with a close button. It features four tabs: 'System Speed Zone', 'Weekly Time Table', 'Voice-Mail Dialing Table' (which is selected), and 'Tie Routing Table'. Below the tabs, there is a 'Select Voice Mail Dialing Table' section with a dropdown menu showing '1' and a 'Suffix' dropdown menu. To the right of these dropdowns is a 'Select' button.

[Figure 8-22] Voice-Mail Dialing Table Index Selection Window

2. Press [Select] button and enter a digit.

[Figure 8-23] Voice-Mail Dialing Table Editing Window

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

[Table 8-11] Voice Mail Table (PGM 234)

## 8.16 Tie Routing Table (PGM 235)

Maximum 30 Tie Line Routings can be programmed. Maximum 6 CO lines are assignable to each Routing. *By default, Tie Line Routings are not assigned at all.*

### Operation

1. Click [Tie Routing Table] and choose a number(1~30)

[Figure 8-24] Tie-Routing Table Index Selection Window

2. Click [Select], and enter CO line number.

[Figure 8-25] Tie-Routing Table Editing Window in LDK-300

| ITEM                     | RANGE     | DEFAULT | REMARK                  |
|--------------------------|-----------|---------|-------------------------|
| TIE ROUTING TABLE (1-30) | 001 - 200 | -       | <b>Only for LDK-300</b> |
| TIE ROUTING TABLE (1-30) | 01 - 40   | -       | <b>Only for LDK-100</b> |

[Table 8-12] Tie Routing Table (PGM 235)



## 9. HOTEL Programming

You can program the HOTEL programming with PC Admin. But this feature is available in **PC Admin version 1.0Fd** or later and **MPB HOTEL version 1.0Fc** or later. If you use incorrect version, you may have some problem. And in office version, you can't use HOTEL features. The Hotel feature is available for HOTEL system.(Ex : GS80P-1.0Fc)

### 9.1 HOTEL Attributes Setting (PGM 300)

#### Operation

1. Click [Hotel Attributes]
2. If you read, select the method of payment bin and press **[Select]** button. Then the data will be loaded
3. If you change the value, enter the values of field. Most of items are combo box. So, you can only select the item with mouse or arrow key.
4. Validation of Edit box field will be checked automatically

[Figure 9-1] Hotel Attributes Programming

| BTN | ITEM                        | RANGE               | DEFAULT   | REMARK  |
|-----|-----------------------------|---------------------|-----------|---|
| 1   | Bath alarm timer            | 01-20<br>(2 digits) | 05<br>SEC | This timer is invoked when off-hook status and alarm ring is presented to attendant station after this timer expired                                |
| 2   | Base Time                   | 00-23<br>(2 digits) | 12:00     | This Time is the base time of Room Charge after check-in. When Check-Out processed, system automatically calculated Room Charge based on this time. |
| 3   | Print CHK-IN/OUT/Status Msg | ON/OFF              | ON        | This field is a flag to print Chk-in/out/status msg through RS-232C or not.<br>*Italy Default is OFF)   |
| 4   | Echo Mode                   | ON/OFF              | ON        | Echo mode enable/disable  |
| 5   | Toll Charge To Room         | ON/OFF              | OFF       | Toll Charge To Room Attributes  |
| 6   | Method of payment           | Max 7<br>chars      | N/A       | This is the methods of payment  |

[Table 9-1] Hotel Attributes (PGM 300)

## 9.2 HOTEL ROOM Attributes Setting (PGM 301)

### Operation

1. Click [Hotel Room Attributes]
2. If you read, press **[Setting]** button and enter the station range. Then the data will be loaded
3. If you change the value, enter the values of field. Most of items are combo box. So, you can only select the item with mouse or arrow key.
4. Validation of station range will be checked automatically

[Figure 9-2] Hotel Room Attributes[PGM 301]

| ITEM            | RANGE  | DEFAULT | REMARK  |
|-----------------|--------|---------|---|
| Name Display    | ON/OFF | OFF     | If you select ON, name will be displayed.   |
| Bath Alarm Ring | ON/OFF | OFF     | When emergency status occur for the station with this flag set, Alarm ring is presented to system attendant station |

[Table 9.2] Description of Hotel Room Attribute (PGM 301)

### 9.3 HOTEL ROOM Service Station (PGM 302)

#### Operation

1. Click [Hotel Service Station]
2. If you read, press **[Setting]** button and enter the station range. Then the data will be loaded
3. If you change the value, enter the values of field. Most of items are combo box. So, you can only select the item with mouse or arrow key.
4. Validation of station range will be checked automatically

[Figure 9-3] Hotel Service Station[PGM 302]

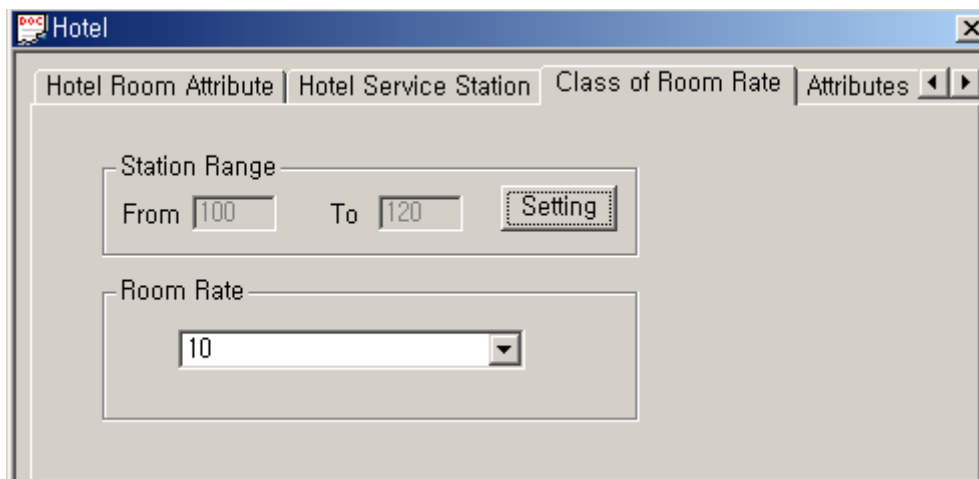
| BTN | ITEM                   | RANGE                | DEFAULT | REMARK  |
|-----|------------------------|----------------------|---------|---|
| 1   | Station's Type         | SERVICE/NORMAL (1/0) | NORMAL  | To register Service Station. FRONT-DESK (101) station's default type is 'SERVICE' |
| 2   | Service Station's Name | 12 characters        | NONE    | To register Service Station's name. 101 station's default name is 'FRONT-DESK'    |

[Table 9.3] Button Configuration for Hotel Service Station (PGM 302)

## 9.4 Class of Room (PGM 303)

### Operation

1. Click [Class of Room]
2. If you read, press **[Setting]** button and enter the station range. Then the data will be loaded
3. If you change the value, enter the values of field. Most of items are combo box. So, you can only select the item with mouse or arrow key.
4. Validation of station range will be checked automatically

The screenshot shows a software window titled 'Hotel'. It has four tabs: 'Hotel Room Attribute', 'Hotel Service Station', 'Class of Room Rate', and 'Attributes'. The 'Class of Room Rate' tab is active. Inside this tab, there are two main sections. The first section is labeled 'Station Range' and contains two input fields: 'From' with the value '100' and 'To' with the value '120'. To the right of these fields is a button labeled 'Setting'. The second section is labeled 'Room Rate' and contains a dropdown menu with the value '10' selected.

[Figure 9-4] Class of room programming (PGM303)

| ITEM      | RANGE   | DEFAULT      | REMARK                                     |
|-----------|---------|--------------|--|
| Room Rate | 00 - 19 | Not Assigned | To set class of room. See also PGM 304, 30 |

[Table 9-4] Room Rate Description (PGM 303)

## 9.5 Attributes of Room Rate (PGM 304)

### Operation

1. Click [Attributes of Room Rate]
2. If you read, select **[Class number]** and press **[Select Class Number]** button. Then the data will be loaded
3. If you change the value, enter the values of field.
4. Validation of data will be checked automatically. If you want to delete some data, erase that field and press [Apply] button.

[Figure 9-5] Attributes of room rate

| BTN | ITEM                             | RANGE            | DEFAULT      | REMARK  |
|-----|----------------------------------|------------------|--------------|---|
| 1   | Cost of room type                | 7 digits         | NULL         | This info. will be used to calculating room charge. |
| 2   | Name of room type                | max 6 characters | Not Assigned | In check out, this info. will be appeared.          |
| 3   | Room type related Part Time Bins | max 6 bins       | Not Assigned | This is used for Part time fee                      |

[Table 9-5] Hotel Room Type Attributes (PGM 304)

## 9.6 Attributes of Call Charge Rate (PGM 305)

### Operation

1. Click [Attributes of Call Charge Rate]
2. If you read, select **[Bin Number]** and press **[Select Bin No.]** button. Then the data will be loaded
3. If you change the value, enter the values of field.
4. Validation of data will be checked automatically. If you want to delete some field, erase the field and press [Apply] button.

[Figure 9-6] Attributes of Call Charge Rate[PGM 305]

| BTN | ITEM                             | RANGE            | DEFAULT      | REMARK |
|-----|----------------------------------|------------------|--------------|--------|
| 1   | Percentage of call charge        | 000 – 999(%)     | 000(%)       |        |
| 2   | Room type related Part Time Bins | max 6 characters | Not Assigned |        |

[Table 9-6] Call Charge Rate Attributes (PGM 305)

## 9.7 Bar Product name (PGM 306)

### Operation

1. Click [Bar Product Name]
2. If you read, select **Bin number** and press **[Select Bin No.]** button. Then the data will be loaded
3. If you change the value, enter the values of field.

4. Validation of data will be checked automatically If you want to delete some field, erase the field and press [Apply] button.

[Figure 9-7] Bar Product name(PGM 307)

| BTN | ITEM             | RANGE             | DEFAULT | REMARK |
|-----|------------------|-------------------|---------|--------|
| 1   | Name of Bar Item | Max 12 characters | Null    |        |
| 2   | Bin no.. of Tax  | 0 - 4             | 0       |        |

[Table 9-7] Bar item's attributes (PGM 306)

## 9.8 Tax Rate (PGM 307)

### Operation

1. Click [Tax Rate]
2. If you change the value, enter the values of field. In PC Admin, you can whole tax rate in 6 fields at one time.
3. Validation of station range will be checked automatically. If you want to delete some field, erase the field and press [Apply] button.

[Figure 9-8] Tax Rate

| ITEM     | RANGE         | DEFAULT | REMARK  |
|----------|---------------|---------|---|
| Tax Rate | 00.00 – 99.99 | 00.00   | UK has the default value 17.50 for bin no. 0. |

[Table 9.8] Tax Rate Description (PGM 307)

## 9.9 Fee for Part Time (PGM 308)

### Operation

1. Click [Fee for Part Time].
2. If you read, select **[Bin Number]** and press **[Select Bin No.]** button. Then the data will be loaded
3. If you change the value, enter the values of field.
4. Validation of station range will be checked automatically. If you want to delete some field, erase the field and press [Apply] button.



[Figure 9-9] Fee for Part Time(PGM308)

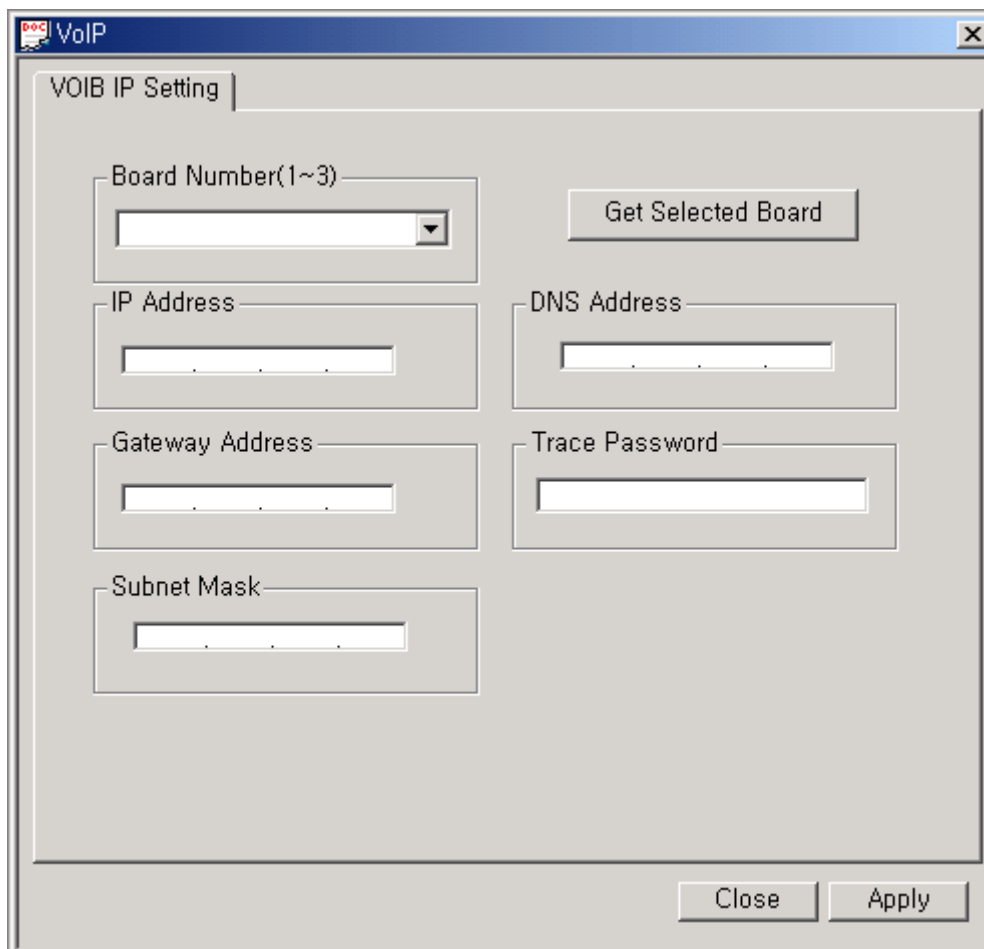
| BTN | ITEM            | RANGE            | DEFAULT | REMARK                                  |
|-----|-----------------|------------------|---------|---|
| 1   | Part Time Range | 00 - 24<br>Hours | N/A     | Register range of part time             |
| 2   | Bin no.. of Tax | 000 - 100<br>(%) | N/A     | This is used to calculate part time pee |

[Table 9-9] Fee For Part Time Attributes (PGM 308)

## 10. VoIB Programming

### 10.1 VoIB Programming (PGM 340)

You can program the VoIB configuration with PC Admin. But this feature is available in PC Admin version 1.0Ba or later and MPB version 1.0Dd or later. If you use another version that is not correct, you may have some problem. So, we recommend that you should check version of MPB and PC admin.



[Figure 10-1] VoIB Programming Window

#### Operation

1. Select the VoIB number from 1 to 3. The maximum number of the VoIB is 3.
2. After selecting board number, press [Get Selected Board] button. Then the PC Admin will receive the information about select VoIB.
3. At first time, the whole data are default value.
4. It is same as Network Setting(PGM108) to enter the IP address, gateway address, subnet mask. For correct value, you should ask the network administrator about those information.

5. You should ask DNS address to network administrator.
6. Trace password is 10 digits password for tracing data. Numeric value and characters are all available up to 10 digits. But you can't see the password data for security.
7. To save the data, press the [Apply] button.
8. To erase the data, press the [Apply] button with blank.

## 11. Networking Programming

You can program for networking system of LDK system. These features are available for LDK300 Phase II version. The programming number range is from PGM 320 to PGM324. It is impossible to use these features in HOTEL system.

### 11.1 Networking Basic Attribute (PGM 320)

#### Operation

1. Click [Networking Basic Attribute]
2. Enter the values of field. Most of items are combo box. So, you can only select the item with mouse or arrow key.
3. Validation of Edit box field will be checked automatically.

[Figure 11.1] 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 LDK Systems. This field is available at connection through the public network. |

|   |                       |           |     |  |
|---|-----------------------|-----------|-----|--|
| 3 | Network CNIP Enable   | ON / OFF  | OFF | The name of calling station is sent to the called system between LDK systems. CNIP is displayed at called party stations display based on the programming. |
| 4 | Network CONP Enable   | ON / OFF  | OFF | <i>Reserved for future usage</i>   |
| 5 | Network Signal Method | FAC / UUS | UUS | Select the information element type for QSIG supplementary service message.  |
| 6 | CAS Enable            | ON / OFF  | OFF | Enable Centralized attendant<br>In master system, CAS should be disabled.  |
| 7 | VPN Enable            | ON / OFF  | OFF | Enable VPN function  |

[Table 11.1] Networking Basic Attribute (PGM 320)

## 11.2 Networking Supplementary Attribute (PGM 321)

### Operation

1. Click [Networking Supplementary Attribute]
2. Enter the values of field. Most of items are combo box. So, you can only select the item with mouse or arrow key.
3. Validation of Edit box field will be checked automatically.

[Figure 11.2] 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                 | 4 digits  | 9000    | TCP port for BLF message               |
| 3   | UDP port                 | 4 digits  | 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 | 1 ~ 300     | 10      | Network transfer fault recall timer.      |

[Table 11.2] Networking Supplementary Attribute (PGM 321)

## 11.3 Networking CO Line Attribute (PGM 322)

### Operation

1. Click [Networking CO Line Attribute]
2. Enter the values of field. All of items are combo box. So, you can only select the item with mouse or arrow key.

[Figure 11.3] Networking CO Line Attribute (PGM 322)

| BTN | ITEM           | RANGE    | DEFAULT | REMARK   |
|-----|----------------|----------|---------|--|
| 1   | NET CO Group   | 00 - 24  | --      | Networking CO group programming for Networking call.   |
| 2   | NET CO OutSend | ON / OFF | OFF     | CO range programming for CO line sharing at slave system. This field is programmed at slave system for using ISDN CO lines on master system. |

|   |                 |          |     |  |
|---|-----------------|----------|-----|--|
| 3 | NET Co OutTrans | ON / OFF | OFF | CO range programming for CO line sharing at master system. This field is programmed at master system for ISDN CO lines to be shared from slave system. |
|---|-----------------|----------|-----|--|

[Table 11.3] Networking Co line Attribute (PGM 322)

## 11.4 Centralized Attendant & VPN CO Group Attribute (PGM 323)

### Operation

1. Click [Centralized Attendant & VPN CO Group Attribute]
2. Enter the values of field. All of items are combo box. So, you can only select the item with mouse or arrow key.

[Figure 11.4] Centralized Attendant & VPN CO Group Assignment (PGM 323)

| BTN | ITEM                | RANGE        | DEFAULT | REMARK                                   |
|-----|---------------------|--------------|---------|--|
| 1   | CAS Num Table Index | 00 - 71      | 00      | Networking CO group programming for CAS. |
| 2   | VPN CO Group        | 00 - 24      | 00      | Networking CO group programming for VPN. |
| 3   | CAS Prefix Code     | Max 8 Digits | -       |  |

[Table 11.4] Centralized Attendant & VPN CO Group Assignment (PGM 323)

## 11.5 Networking Basic Attribute (PGM 324)

### Operation

1. Click [Networking Numbering Plan Table]
2. Enter the values of field. Most of items are combo box. So, you can only select the item with mouse or arrow key.
3. Validation of Edit box field will be checked automatically.

Network

Network Numbering Plan Table

Select Bin Number

0

Select Bin Number

Delete

Net Numbering Code

Net Number CO Group

Not Assigned

System Usage

VOIP

CPN or IP Information

150 . 150 . 130 . 27

Alternate Dial Bin

2222

Destination MPB IP

0 . 0 . 0 . 0

Figure 11.5] Network Numbering Plan Table (PGM 324)



| BTN | ITEM                  | RANGE  | DEFAULT | REMARK  |
|-----|-----------------------|--|---------|---|
| 1   | Net Numbering Code    | 16 digits                                      | -       | '*' means any digits can be inserted between 0 ~ 9.<br>The digits followed by '#' is a internal station number. |
| 2   | Net Number CO Group   | 00 - 24  | -       | '00' means an internal net station number.  |
| 3   | System Usage          | VOIP / QSIG                                    | QSIG    | Select Routing Table Usage  |
| 4   | CPN or IP Information | 16 digits                                      | -       | CPN for ISDN, IP address for VoIP   |
| 5   | Alternate Dial Bin    | 2000 - 4999 (LDK-300)<br>2000 - 3499 (LDK-100) | -       | Alternative Dial Number(System SPD Bin) when the networking path has a fatal problem.                           |
| 6   | Destination MPB IP    | IP Address                                     | -       | IP Address of destination system to support DECT mobility service.  |

[TABLE 11.5] Network Numbering Plan Table (PGM 324)

## 12. Nation Specific

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

### 12.1 DTIB Rx Gain Control (PGM 400)

#### Operation

1. Click [DTIB Rx Gain Control]
2. Enter the values of gain control DTIB gets.

| Control     | Value |
|-------------|-------|
| DTIB/DKT    | 26    |
| DTIB/TONE   | 32    |
| DTIB/SLT    | 33    |
| DTIB/MUSIC1 | 29    |
| DTIB/WTU    | 26    |
| DTIB/MUSIC2 | 29    |
| DTIB/ACO    | 33    |
| DTIB/MUSIC3 | 29    |
| DTIB/DCO    | 33    |
| DTIB/CTR SL | 22    |
| DTIB/DVU    | 29    |
| DTIB/CTR CO | 22    |
| DTIB/DTMF   | 8     |

[Figure 12-1] DTIB Rx Gain Control Display Window

## 12.2 SLIB Rx Gain Control (PGM 401)

### Operation

1. Click [SLIB Rx Gain Control]
2. Enter the values of gain control SLIB gets.

The screenshot shows a software window titled "Nation Specific" with a tabbed interface. The active tab is "SLIB Rx Gain Control". The window contains the following controls and values:

| Control Label | Value |
|---------------|-------|
| SLIB/DKT      | 12    |
| SLIB/TONE     | 18    |
| SLIB/SLT      | 23    |
| SLIB/MUSIC1   | 20    |
| SLIB/WTU      | 12    |
| SLIB/MUSIC2   | 20    |
| SLIB/ACO      | 21    |
| SLIB//MUSIC3  | 20    |
| SLIB/DCO      | 24    |
| SLIB/CTR SL   | 12    |
| SLIB/DVU      | 20    |
| SLIB/CTR CO   | 12    |
| SLIB/DTMF     | 8     |

Buttons at the bottom right: Close, Apply.

[Figure 12-2] SLIB Rx Gain Control Display Window

## 12.3 SLIB12 Rx Gain Control (PGM 402)

### Operation

1. Click [SLIB12 Rx Gain Control]
2. Enter the values of gain control SLIB12 gets.

| Label         | Value |
|---------------|-------|
| CTRSL2/DKT    | 32    |
| CTRSL2/TONE   | 38    |
| CTRSL2/SLT    | 43    |
| CTRSL2/MUSIC1 | 40    |
| CTRSL2/WTU    | 32    |
| CTRSL2/MUSIC2 | 40    |
| CTRSL2/ACO    | 41    |
| CTRSL2/MUSIC3 | 40    |
| CTRSL2/DCO    | 44    |
| CTRSL2/CTR SL | 32    |
| CTRSL2/DVU    | 40    |
| CTRSL2/CTR CO | 32    |
| CTRSL2/DTMF   | 28    |

[Figure 12-3] SLIB12 Rx Gain Control Display Window

## 12.4 WTIB Rx Gain Control (PGM 403)

### Operation

1. Click [WTIB Rx Gain Control]
2. Enter the values of gain control WTIB gets.

The screenshot shows a software window titled "Nation Specific" with a tabbed interface. The active tab is "WTIB Rx Gain Control". The window contains a grid of input fields for various parameters, each with a numerical value displayed. The parameters and their values are:

| Parameter   | Value |
|-------------|-------|
| WTIB/DKT    | 26    |
| WTIB/TONE   | 37    |
| WTIB/SLT    | 33    |
| WTIB/MUSIC1 | 29    |
| WTIB/WTU    | 26    |
| WTIB/MUSIC2 | 29    |
| WTIB/ACO    | 38    |
| WTIB/MUSIC3 | 29    |
| WTIB/DCO    | 33    |
| WTIB/CTR SL | 22    |
| WTIB/DVU    | 29    |
| WTIB/CTR CO | 29    |
| WTIB/DTMF   | 8     |

At the bottom right of the window are two buttons: "Close" and "Apply".

[Figure 12-4] WTIB Rx Gain Control Display Window

## 12.5 ACOB Rx Gain Control (PGM 404)

### Operation

1. Click [ACOB Rx Gain Control]
2. Enter the values of gain control ACOB gets.

| Parameter   | Value |
|-------------|-------|
| ACOB/DKT    | 26    |
| ACOB/TONE   | 32    |
| ACOB/SLT    | 37    |
| ACOB/MUSIC1 | 32    |
| ACOB/WTU    | 26    |
| ACOB/MUSIC2 | 32    |
| ACOB/ACO    | 36    |
| ACOB/MUSIC3 | 32    |
| ACOB/DCO    | 33    |
| ACOB/MODEM  | 37    |
| ACOB/DVU    | 32    |
| ACOB/CTR SL | 27    |
| ACOB/DTMF   | 32    |
| ACOB/CTR CO | 27    |

[Figure 12-5] ACOB Rx Gain Control Display Window

## 12.6 ACOB8 Rx Gain Control (PGM 405)

### Operation

1. Click [ACOB8 Rx Gain Control]
2. Enter the values of gain control ACOB8 gets.

The screenshot shows a software window titled "Nation Specific" with a tabbed interface. The "ACOB Rx Gain Control" tab is selected. The window contains 14 input fields arranged in two columns, each with a label and a numerical value. The values are: CTR ACO/DKT (28), CTR ACO/TONE (37), CTR ACO/SLT (43), CTR ACO/MUSIC1 (37), CTR ACO/WKT (31), CTR ACO/MUSIC2 (37), CTR ACO/ACO (41), CTR ACO/MUSIC3 (37), CTR ACO/DCO (38), CTR ACO/MODEM (44), CTR ACO/DVU (37), CTR ACO/CTR SL (32), CTR ACO/DTMF (37), and CTR ACO/CTR CO (32). At the bottom right, there are "Close" and "Apply" buttons.

| Label          | Value |
|----------------|-------|
| CTR ACO/DKT    | 28    |
| CTR ACO/TONE   | 37    |
| CTR ACO/SLT    | 43    |
| CTR ACO/MUSIC1 | 37    |
| CTR ACO/WKT    | 31    |
| CTR ACO/MUSIC2 | 37    |
| CTR ACO/ACO    | 41    |
| CTR ACO/MUSIC3 | 37    |
| CTR ACO/DCO    | 38    |
| CTR ACO/MODEM  | 44    |
| CTR ACO/DVU    | 37    |
| CTR ACO/CTR SL | 32    |
| CTR ACO/DTMF   | 37    |
| CTR ACO/CTR CO | 32    |

[Figure 12-6] ACOB8 Rx Gain Control Display Window

## 12.7 DCOB Rx Gain Control (PGM 406)

### Operation

1. Click [DCOB Rx Gain Control]
2. Enter the values of gain control DCOB gets.

The screenshot shows a software window titled "Nation Specific" with a tabbed interface. The "DCOB Rx Gain Control" tab is selected. The window contains 14 input fields arranged in two columns. The left column fields are: DCOB/DKT (26), DCOB/SLT (37), DCOB/WTU (26), DCOB/ACO (24), DCOB/DCO (32), DCOB/DVU (32), and DCOB/DTMF (32). The right column fields are: DCOB/TONE (32), DCOB/MUSIC1 (32), DCOB/MUSIC2 (32), DCOB/MUSIC3 (32), DCOB/MODEM (37), DCOB/CTR SL (26), and DCOB/CTR CO (15). At the bottom right, there are "Close" and "Apply" buttons.

| Field Name  | Value |
|-------------|-------|
| DCOB/DKT    | 26    |
| DCOB/SLT    | 37    |
| DCOB/WTU    | 26    |
| DCOB/ACO    | 24    |
| DCOB/DCO    | 32    |
| DCOB/DVU    | 32    |
| DCOB/DTMF   | 32    |
| DCOB/TONE   | 32    |
| DCOB/MUSIC1 | 32    |
| DCOB/MUSIC2 | 32    |
| DCOB/MUSIC3 | 32    |
| DCOB/MODEM  | 37    |
| DCOB/CTR SL | 26    |
| DCOB/CTR CO | 15    |

[Figure 12-7] DCOB Rx Gain Control Display Window



## 12.8 VMIB Rx Gain Control (PGM 407)

### Operation

1. Click [VMIB Rx Gain Control]
2. Enter the values of gain control VMIB gets.

The screenshot shows a software window titled "Nation Specific" with a tabbed interface. The "VMIB Rx Gain Control" tab is active. It contains nine input fields arranged in two columns. The values entered in the fields are as follows:

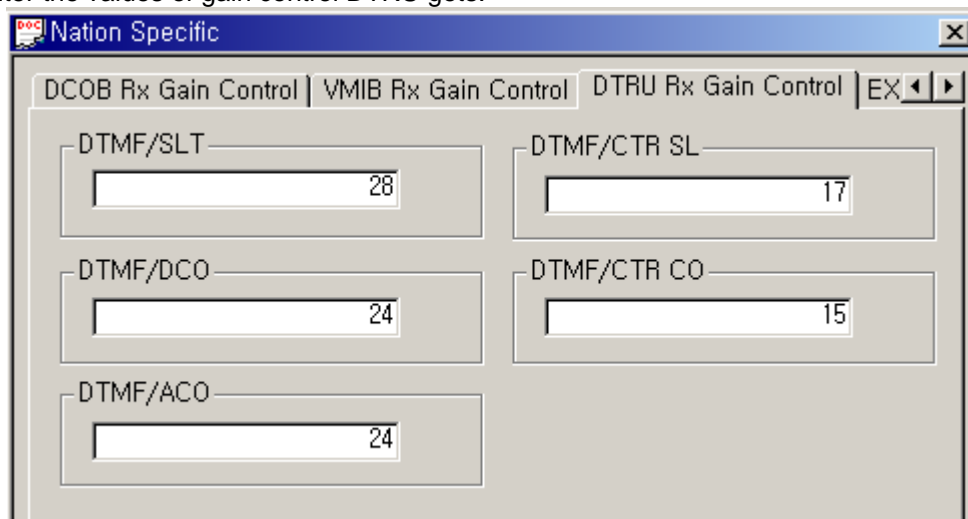
| Parameter   | Value |
|-------------|-------|
| VMIB/DKT    | 21    |
| VMIB/MUSIC1 | 32    |
| VMIB/SLT    | 32    |
| VMIB/MUSIC2 | 32    |
| VMIB/WTU    | 26    |
| VMIB/CTR SL | 21    |
| VMIB/ACO    | 32    |
| VMIB/CTR CO | 23    |
| VMIB/DCO    | 32    |

[Figure 12-8] VMIB Rx Gain Control Display Window

## 12.9 DTRU Rx Gain Control (PGM 408)

### Operation

1. Click [DTRU Rx Gain Control]
2. Enter the values of gain control DTRU gets.



The screenshot shows a software window titled "Nation Specific" with a tabbed interface. The "DTRU Rx Gain Control" tab is selected. The window contains five input fields for gain control values:

| Parameter   | Value |
|-------------|-------|
| DTMF/SLT    | 28    |
| DTMF/CTR SL | 17    |
| DTMF/DCO    | 24    |
| DTMF/CTR CO | 15    |
| DTMF/ACO    | 24    |

[Figure 12-9] DTRU Rx Gain Control Display Window

## 12.10 EXT Pager Rx Gain Control (PGM 409)

### Operation

1. Click [EXT Pager Rx Gain Control]
2. Enter the values of gain control EXT Pager gets.

The screenshot shows a software window titled "Nation Specific" with three tabs: "DTRU Rx Gain Control", "EXT Pager Rx Gain Control" (which is selected), and "CPTU Rx Gain Control". The "EXT Pager Rx Gain Control" tab contains ten input fields arranged in two columns. Each field is labeled with a specific gain control name and has a numerical value entered next to it.

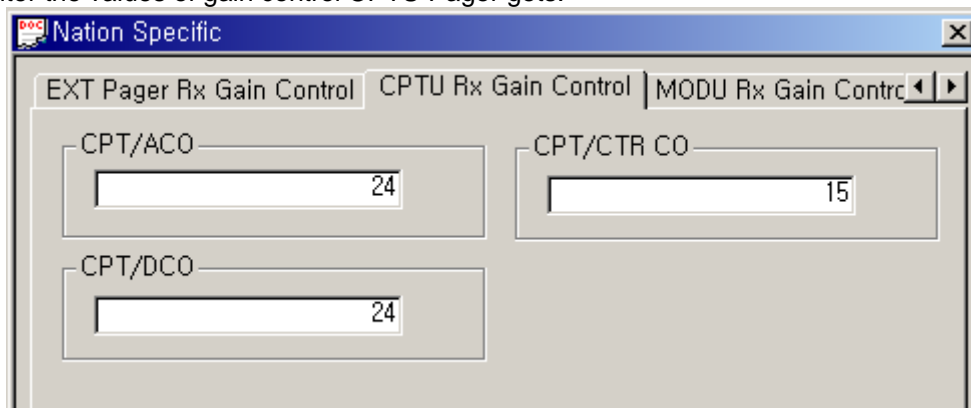
| Gain Control Label | Value |
|--------------------|-------|
| EXT PAGE/DKT       | 26    |
| EXT PAGE/MUSIC1    | 37    |
| EXT PAGE/SLT       | 37    |
| EXT PAGE/MUSIC2    | 37    |
| EXT PAGE/WTU       | 26    |
| EXT PAGE/MUSIC3    | 37    |
| EXT PAGE/ACO       | 37    |
| EXT PAGE/CTR SL    | 26    |
| EXT PAGE/DCO       | 37    |
| EXT PAGE/CTR CO    | 28    |
| EXT PAGE/DVU       | 37    |

[Figure 12 -10] EXT Pager Rx Gain Control Display Window

## 12.11 CPTU Rx Gain Control (PGM 410)

### Operation

1. Click [CPTU Pager Rx Gain Control].
2. Enter the values of gain control CPTU Pager gets.



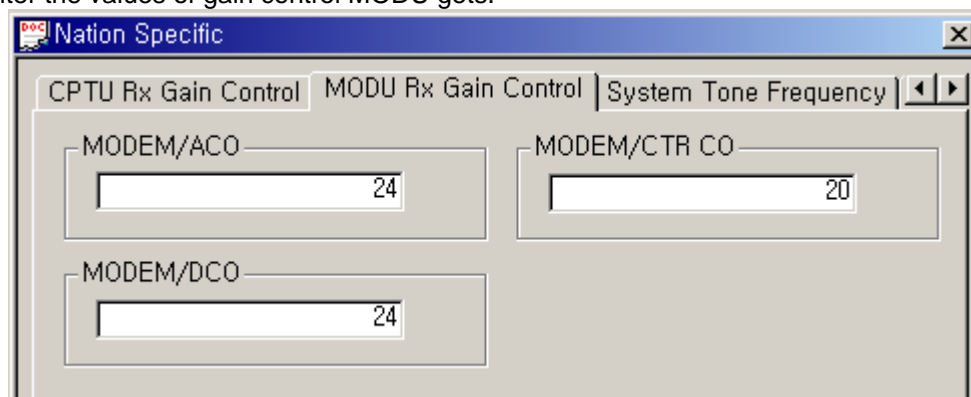
The screenshot shows a window titled "Nation Specific" with a tabbed interface. The "CPTU Rx Gain Control" tab is selected. It contains three input fields: "CPT/ACO" with a value of 24, "CPT/CTR CO" with a value of 15, and "CPT/DCO" with a value of 24. The window has a standard Windows-style title bar and a close button.

[Figure 12-11] CPTU Rx Gain Control Display Window

## 12.12 MODU Rx Gain Control (PGM 411)

### Operation

1. Click [MODU Rx Gain Control].
2. Enter the values of gain control MODU gets.



The screenshot shows a window titled "Nation Specific" with a tabbed interface. The "MODU Rx Gain Control" tab is selected. It contains three input fields: "MODEM/ACO" with a value of 24, "MODEM/CTR CO" with a value of 20, and "MODEM/DCO" with a value of 24. The window has a standard Windows-style title bar and a close button.

[Figure 12 -12] MODU Rx Gain Control Display Window

## 12.13 SYSTEM Tone Frequency (PGM 420)

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

### Operation

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

[Figure 12 -13] System Tone Frequency Display Window

| ITEM            | RANGE       | DEFAULT        | REMARK          |
|-----------------|-------------|----------------|-----------------|
| Dial Tone       | 0000 - 9999 | T1: -<br>T2: - | Nation specific |
| Ring Back Tone  | 0000 - 9999 | T1: -<br>T2: - | Nation specific |
| Busy Tone       | 0000 - 9999 | T1: -<br>T2: - | Nation specific |
| Error Tone      | 0000 - 9999 | T1: -<br>T2: - | Nation specific |
| Dummy Dial Tone | 0000- 9999  | T1: -<br>T2: - | Nation specific |

[Table 12-1] System Tone Frequency (PGM 420)

## 12.14 Differential Ring Frequency (PGM 421)

Frequency, user entered, may be changed to the closest system frequency that provides.

### Operation

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

[Figure 12-14] Differential Ring Frequency Display Window

| ITEM   | RANGE       | DEFAULT        | REMARK          |
|--------|-------------|----------------|-----------------|
| Ring 1 | 0000 - 9999 | T1: -<br>T2: - | Nation specific |
| Ring 2 | 0000 - 9999 | T1: -<br>T2: - | Nation specific |
| Ring 3 | 0000 - 9999 | T1: -<br>T2: - | Nation specific |
| Ring 4 | 0000 - 9999 | T1: -<br>T2: - | Nation specific |

[table 12-2] Differential Ring Frequency (PGM 421)

## 12.15 Distinct CO Ring Frequency (PGM 422)

Frequency, user entered, may be changed to the closest system frequency that provides.

### Operation

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

The screenshot shows a software window titled "Nation Specific" with three tabs: "Differential Ring Frequency", "Distinct CO Ring Frequency" (which is selected), and "ACNR Tone Cad". The "Distinct CO Ring Frequency" tab displays four groups of settings for Ring1, Ring2, Ring3, and Ring4. Each group contains two dropdown menus labeled T1 and T2. The values are as follows:

| Ring  | T1  | T2 |
|-------|-----|----|
| Ring1 | 480 | 0  |
| Ring2 | 400 | 0  |
| Ring3 | 620 | 0  |
| Ring4 | 770 | 0  |

[Figure 12-15] Distinct CO Ring Frequency Display Window

| ITEM   | RANGE       | DEFAULT        | REMARK          |
|--------|-------------|----------------|-----------------|
| Ring 1 | 0000 – 9999 | T1: -<br>T2: - | Nation specific |
| Ring 2 | 0000 – 9999 | T1: -<br>T2: - | Nation specific |
| Ring 3 | 0000 – 9999 | T1: -<br>T2: - | Nation specific |
| Ring 4 | 0000 – 9999 | T1: -<br>T2: - | Nation specific |

[Table 12-3] Distinct Ring Frequency (PGM 422)

## 12.16 ACNR Tone Cadence (PGM 423)

Frequency, user entered, may be changed to the closest system frequency that provides.

### Operation

1. Click [ACNR Tone Cadence].
2. Enter a 4 digits number.

[Figure 12 -16] ACNR Tone Cadence Display Window

| ITEM           | RANGE     | DEFAULT            | REMARK      |
|----------------|-----------|--------------------|-------------|
| Ring-Back Tone | 000 - 255 | ON: 050 / OFF: 100 | 20msec base |
| Busy-Tone      | 000 - 255 | ON: 025 / OFF: 025 | 20msec base |
| Error-Tone     | 000 - 255 | ON: 012 / OFF: 012 | 20msec base |
| S-Dial-Tone    | 000 - 255 | ON: 070 / OFF: 000 | 20msec base |

[Table 12 -4] ACNR Cadence (PGM 423)

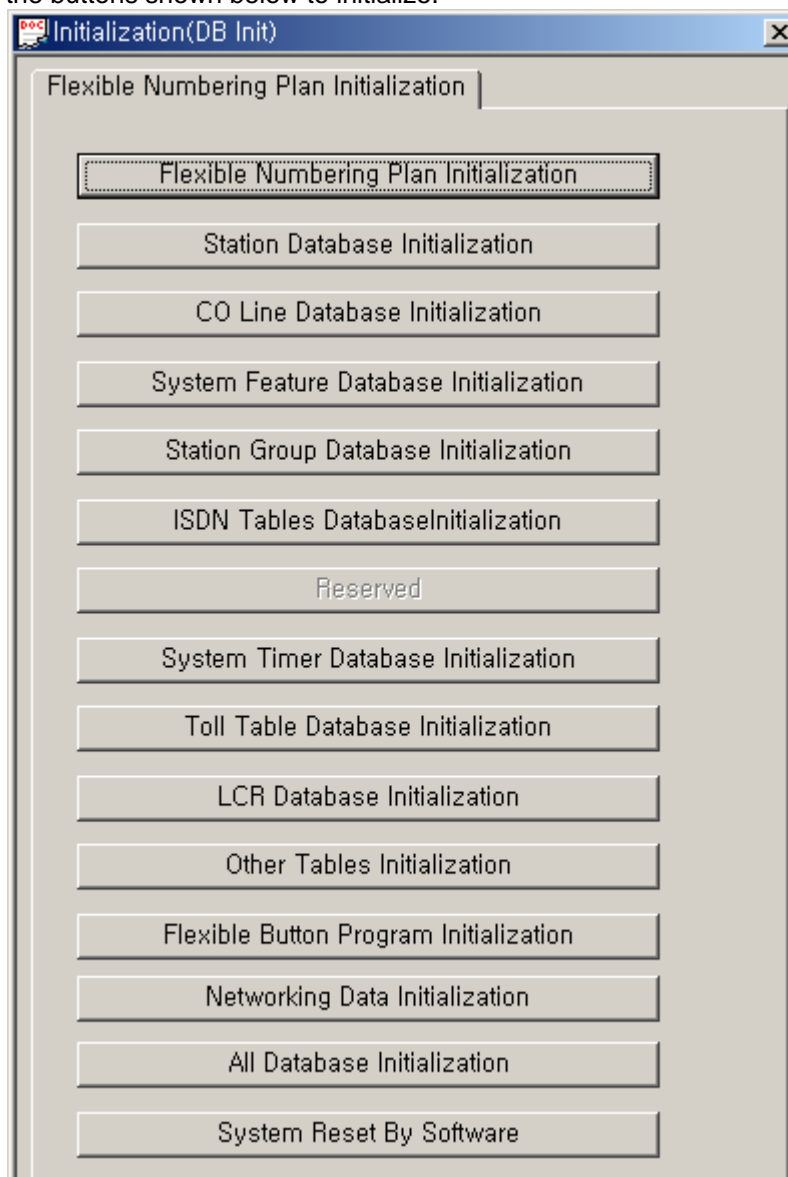


## 13. Initialization(DB Init)

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 [Flexible Numbering Plan Initialization].
2. Press one of the buttons shown below to initialize.



[Figure 13 -1] Initialize Menu Display Window

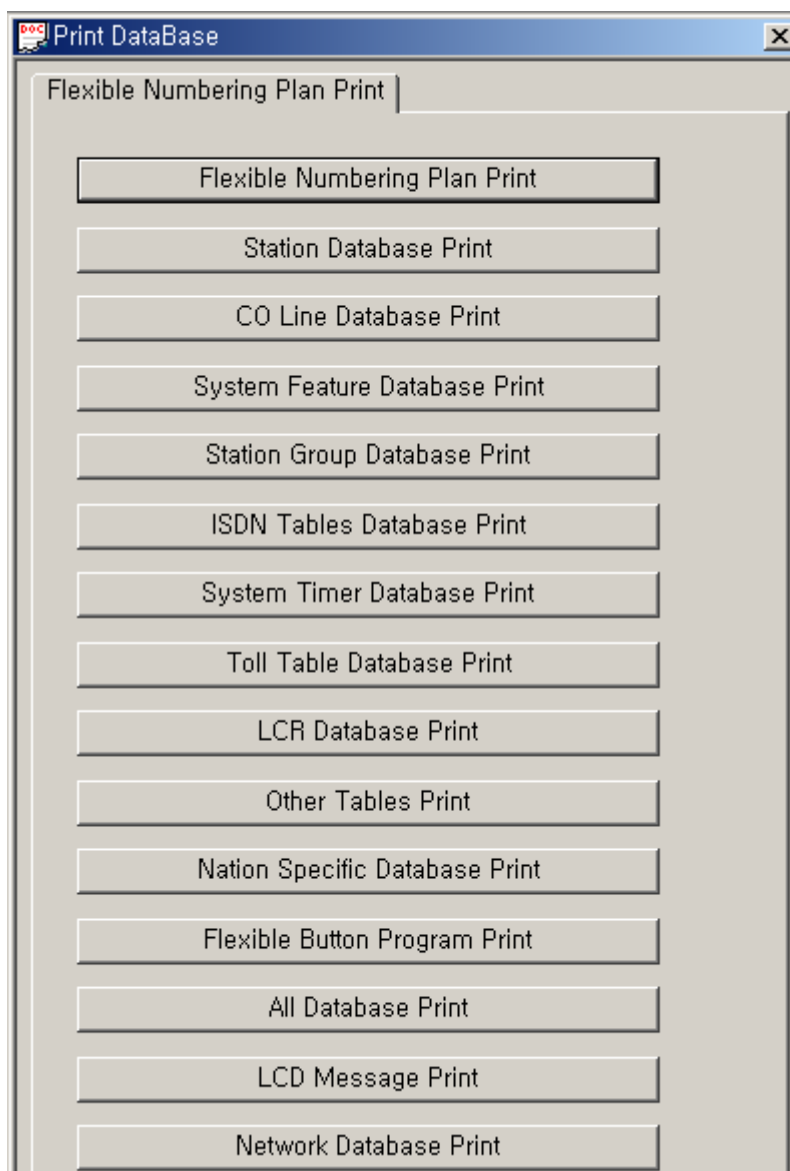
## 14. Print DataBase

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

### 14.1 Flexible Numbering Plan Print (PGM 451)

#### Operation

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



[Figure 14 -1] Print Menu Display Window

| 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   |          |         |                 |  |
| ISDN Tables Database Print     |          |         |                 |  |
| 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             |          |         |                 |  |
| LCD Message Print              |          |         |                 |  |
| 1                              | Language | 00 – 12 | Nation specific | 00:ENG01:KOR02:ITA<br>03:SWE04:NOR05:FIN<br>06:DUT07:SPA08:DAN<br>09:GER10:EST11:RUS12:POR |
| 2                              | Sta Type | 0 – 2   | 0               | 0: NORMAL1: LG-GAP2: LARGE   |

[TABLE 14 -1] Data Base Print (PGM 451)

**(Printing Example )**

*This printing example is in case of LDK-300 system.*

| Flexible Numbering Plan | Sta Flex Numbering  |
|-------------------------|---|
|                         | <p><b>PGM 106 Flexible Numbering Plan A</b></p> <p>           STA GRP PILOT NUMBER : 620-667<br/>           INT PAGE ZONES : 501-535<br/>           INT ALL CALL : 543<br/>           MEET ME PAGE : 544<br/>           EXT PAGE ZONE 1 : 545<br/>           EXT PAGE ZONE 2 : 546<br/>           EXT PAGE ZONE 3 : 547<br/>           EXT ALL CALL : 548<br/>           ALL CALL PAGE : 549<br/>           SMDR ACT CODE ENTER : 550<br/>           FLASH CMD TO CO : 551<br/>           SLT LAST SPD DIAL : 552<br/>           DND : 553<br/>           CALL FWD : 554<br/>           SPD DIAL PGM : 555<br/>           MSG WAIT ENABLE : 556<br/>           MSG WAIT RETURN : 557<br/>           SPD DIAL ACCESS : 558<br/>           DND/FWD CANCEL : 559<br/>           SLT_HOLD : 560<br/>           STA RELOC BACKUP : 561<br/>           STA RELOC RETRIEVE : 562<br/>           SLT PGM MODE ENTER : 563<br/>           ACD REROUTE : 564         </p> <p><b>PGM 107 Flexible Numbering Plan B</b></p> <p>           ALARM RESET : 565<br/>           GROUP CALL PKUP : 566<br/>           UCD DND : 568<br/>           NIGHT ANSWER : 569<br/>           CALL PARK LOCATIONS : 601-619<br/>           DIRECT CALL PKUP : 7<br/>           ACCESS CO GROUP FEAT : 801-872<br/>           ACCESS IND CO FEAT : 88<br/>           TIE ROUTING ACCESS : 8901<br/>           ACCESS HELD CO FEAT : 8*<br/>           ACCESS HELD IND CO FEAT : 8#<br/>           ACCESS CO IN 1ST CO GRP : 9<br/>           ATTENDANT CALL : 0<br/>           DOOR OPEN 1 : #*1<br/>           DOOR OPEN 2 : #*2<br/>           DOOR OPEN 3 : #*3<br/>           DOOR OPEN 4 : #*4<br/>           DOOR OPEN 5 : #*5<br/>           DOOR OPEN 6 : #*6<br/>           DOOR OPEN 7 : #*7<br/>           VM MSG WAIT ENABLE : *8<br/>           VM MSG WAIT CANCEL : *9         </p> |

|                         |  |
|-------------------------|--|
| Station Attributes      | <div>STATION ATTRIBUTES</div> <div>-----</div> <div>Station 100 Attribute</div> <div>=====</div> <div>Station ID : KEYSET</div> <div>STATION ATTR1 (PGM111)</div> <div><div>AUTO SPKR :ON</div><div>DATA SEC :OFF</div><div>NO TCH ANS:ON</div><div>SPK RING :HEAD</div><div>ICM GROUP :1</div></div> <div><div>CALL FWD :OFF</div><div>HOWLING :ON</div><div>PAGE ACC :OFF</div><div>SPK PHONE :ON</div><div>ERR TONE TAD:ON</div></div> <div><div>DND :OFF</div><div>I-BOX SGNL:ON</div><div>RING TYPE :0</div><div>VMIB SLOT :0</div></div> <div>STATION ATTR2 (PGM112)</div> <div><div>CO WARN :OFF</div><div>CO ACCESS :ENABLE</div><div>PLA :ENABLE</div><div>ACC :ENABLE</div><div>TWOWAY RED:OFF</div><div>UCD GRP SVC :OFF</div></div> <div><div>AUTO HOLD :OFF</div><div>CO QUEUE :ENABLE</div><div>PREPAID :OFF</div><div>FAX MODE :OFF</div><div>RING GRP SVC:OFF</div></div> <div><div>TIME REST :OFF</div><div>ENABLE CO PGM :DISABLE</div><div>SPD</div><div>OFFNET MOD:ALL</div></div> <div>STATION ATTR3 (PGM113)</div> <div><div>ADMIN :ENABLE</div><div>OVERRIDE :DISABLE</div><div>WARM LINE :WARM</div><div>RAU1:OFF</div><div>ALARM RAU2:OFF</div></div> <div><div>VMIB ACC :DISABLE</div><div>SMDR HDN :DISABLE</div><div>ALARM MISB:OFF</div><div>GRP LISTN :DISABLE</div><div>VOICE OVR :DISABLE</div><div>ALARM</div></div> <div>STATION ATTR4 (PGM114)</div> <div><div>CLIP DISP :ON</div><div>CLI M-WAIT:OFF</div><div>LONG/SHORT:SHORT</div><div>CLI NAME D:OFF</div><div>IND :OFF</div><div>ISDN CLIR D:OFF</div></div> <div><div>COLP DISP :OFF</div><div>EXT OR ATD:EXT</div><div>SUB ADDR :NOT_USED</div><div>CLI OUT NUM:100</div><div>ISDN COLR D:OFF</div></div> <div><div>CLI/REDIRT:CLI</div><div>KEYPAD FAC:DTMF</div><div>AUTO TEI :FIXED</div><div>PROG</div></div> <div>STATION COS (PGM116)</div> <div><div>DAY COS : 1</div><div>NIGHT COS : 1</div><div>:</div></div> <div>(Printed like above for another station to range end station.)</div> |
| Flex Buttons Assignment | <div>Flex Button Assignment</div> <div>Station 101 Flex Button</div> <div>=====</div> <div><div>BTN 1</div><div>BTN 2</div><div>BTN 3</div><div>BTN 4</div><div>BTN 5</div><div>BTN 6</div><div>BTN 7</div><div>BTN 8</div></div> <div><div>CO 1</div><div>CO 2</div><div>CO 3</div><div>CO 4</div><div>CO 5</div><div>CO 6</div><div>CO 7</div><div>LOOP</div></div> <div><div>BTN 9</div><div>BTN 10</div><div>BTN 11</div><div>BTN 12</div><div>BTN 13</div><div>BTN 14</div><div>BTN 15</div><div>BTN 16</div></div> <div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div></div> <div><div>BTN 17</div><div>BTN 18</div><div>BTN 19</div><div>BTN 20</div><div>BTN 21</div><div>BTN 22</div><div>BTN 23</div><div>BTN 24</div></div> <div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div></div> <div><div>BTN 25</div><div>BTN 26</div><div>BTN 27</div><div>BTN 28</div><div>BTN 29</div><div>BTN 30</div><div>BTN 31</div><div>BTN 32</div></div> <div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div></div> <div><div>BTN 33</div><div>BTN 34</div><div>BTN 35</div><div>BTN 36</div><div>BTN 37</div><div>BTN 38</div><div>BTN 39</div><div>BTN 40</div></div> <div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div></div> <div><div>BTN 41</div><div>BTN 42</div><div>BTN 43</div><div>BTN 44</div><div>BTN 45</div><div>BTN 46</div><div>BTN 47</div><div>BTN 48</div></div> <div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div><div>EMPTY</div></div> <div><div>:</div></div> <div>( Printed like above for all keysets )</div>   |

| CO Line Attributes | Coline Attribute                           |            |                 |         |           |
|--------------------|--|------------|-----------------|---------|-----------|
|                    | Coline Ring Assignment                     |            |                 |         |           |
|                    | =====                                      |            |                 |         |           |
|                    | Co 001 Ring Assignment                     |            |                 |         |           |
|                    | DAY : STA101(0)                            |            |                 |         |           |
|                    | NIGHT: STA101(0)                           |            |                 |         |           |
|                    | ON-D : STA101(0)                           |            |                 |         |           |
|                    | WEEK : STA101(0)                           |            |                 |         |           |
|                    | Coline 1 Attribute                         |            |                 |         |           |
|                    | =====                                      |            |                 |         |           |
|                    | Coline Attr1 (PGM141)                      |            |                 |         |           |
|                    | CO GRP                                     | :1         | CO COS          | :1      | DISA      |
|                    | ACCT                                       | :OFF       |                 |         |           |
|                    | CO ASGN TYPE                               | :LOOP      | COLINE TYPE     | :CO     | OUT SGNL  |
|                    | TYPE                                       | :DTMF      |                 |         |           |
|                    | FLASH TYPE                                 | :LOOP      | UNA             | :OFF    | CO GRP    |
|                    | ACCT                                       | :OFF       |                 |         |           |
|                    | Coline Attr2 (PGM142)                      |            |                 |         |           |
|                    | NAME DISPLAY                               | :OFF       | CO NAME         | :       |           |
|                    | SMDR METER                                 | :NONE      | LINE DROP(CPN): | OFF     | DIST RING |
|                    | TYPE                                       | :0         |                 |         |           |
|                    | MOH TYPE                                   | :INT MUSIC |                 |         |           |
|                    | DIAL TONE                                  | :ON        | RING_BACK TONE: | OFF     |           |
|                    | ERROR TONE                                 | :OFF       | BUSY TONE       | :OFF    | ANNC      |
|                    | TONE                                       | :OFF       |                 |         |           |
|                    | CO FLASH TMR                               | :5         | OPEN LOOP TMR   | :0      |           |
|                    | Coline Attr3 (PGM143)                      |            |                 |         |           |
|                    | COLP TBL INDEX                             | :NOT_ASG   | CLIP TBL INDEX: | NOT_ASG |           |
|                    | CALL TYPE                                  | :NATIONAL  | DID CONV TYPE   | :0      | DID RM    |
|                    | NO   | :0         |                 |         |           |
|                    | ENBLOCK SEND                               | :OFF       | PX TONE EXIST   | :ON     |           |
|                    | ( Printed like above for another CO line ) |            |                 |         |           |

## System Database

## PGM 100: Location Information

Nation Code: 82 (KOREA)

Site Name:

Area Code:

Station Prefix Code: ....

## PGM 101: Slot Information

Slot# Board ID DEVS

|            |                              |
|------------|------------------------------|
| 1 DTIB12   | 12 STA devices               |
| 2 UNKNOWN  | 0 devices                    |
| 3 UNKNOWN  | 0 devices                    |
| 4 UNKNOWN  | 0 devices                    |
| 5 UNKNOWN  | 0 devices                    |
| 6 PRIB     | 30 COL devices               |
| 7 STIB     | 4 STA devices, 4 COL devices |
| 8 UNKNOWN  | 0 devices                    |
| 9 UNKNOWN  | 0 devices                    |
| 10 UNKNOWN | 0 devices                    |
| 11 UNKNOWN | 0 devices                    |
| 12 UNKNOWN | 0 devices                    |
| 13 UNKNOWN | 0 devices                    |
| 14 UNKNOWN | 0 devices                    |
| 15 UNKNOWN | 0 devices                    |
| 16 UNKNOWN | 0 devices                    |
| 17 UNKNOWN | 0 devices                    |
| 18 UNKNOWN | 0 devices                    |
| 19 UNKNOWN | 0 devices                    |
| 20 UNKNOWN | 0 devices                    |
| 21 UNKNOWN | 0 devices                    |
| 22 UNKNOWN | 0 devices                    |
| 23 UNKNOWN | 0 devices                    |
| 24 UNKNOWN | 0 devices                    |
| 25 UNKNOWN | 0 devices                    |
| 26 UNKNOWN | 0 devices                    |
| 27 UNKNOWN | 0 devices                    |

## PGM 160 : System Attributes

ATD CALL QUE RB TONE : OFF    CAMP MOH/RBT :  
 MOH  
 CO LINE CHOICE : LAST  
 DISA RETRY CNT : 3    ICM CONT DIAL TONE : CONT  
       CO DIAL TONE DET : OFF  
 EXT NITE RING : OFF    HOLD PREFERENCE : SYS  
 MULTI LINE CONF : ON  
 PRT LCR CONV DGT : OFF    CONF WARN TONE : ON

## PGM 161 : System Attributes

NETWORK TIME/DATE SET : OFF    OFF\_HOOK RING SIG :  
 MUTE  
 OVRIDE 1ST CO GRP : OFF  
 PAGE WARN TONE : ON    AUTO PRIVACY : ON  
 PRIVACY WARN TONE : ON  
 SINGLE RING FOR CO : NO    WTU AUTO RLS : OFF  
 ACD PRN ENABLE : OFF  
 ACD PRINT TMR : ON    ACD CLR AFTER PRN : OFF

|                 |                         |                           |              |                            |
|-----------------|-------------------------|---------------------------|--------------|----------------------------|
| System Database | Other System Attributes |                           |              |                            |
|                 | CLOSE                   | ALARM ENABLE              | : OFF        | ALARM CONTACT : :          |
|                 |                         | ALARM MODE                | : ALARM      | ALARM SIGNAL MODE : ON     |
|                 |                         | CO2CO DAY COS             | : 1          | CO2CO NITE COS : 1         |
|                 |                         | BUSY DESTINATION          | : TONE       |                            |
|                 |                         | ERROR DESTINATION         | : TONE       |                            |
|                 |                         | NO ANS DESTINATION        | : TONE       |                            |
|                 |                         | DIAL PULSE BRK RATIO      | 66/33        |                            |
|                 |                         | EXT CNT(1):...            |              |                            |
|                 |                         | EXT CNT(2):...            |              |                            |
|                 |                         | EXT CNT(3):...            |              |                            |
|                 |                         | EXT CNT(4):...            |              |                            |
|                 |                         | EXT CNT(5):...            |              |                            |
|                 |                         | EXT CNT(6):...            |              |                            |
|                 |                         | EXT CNT(7):...            |              |                            |
|                 | OFF                     | RS232_PORT_1 BAUDRATE     | : 19200      | RS232_PORT_1 CTS_RTS : :   |
|                 |                         | RS232_PORT_1 PAGE_BEAK    | : OFF        |                            |
|                 |                         | RS232_PORT_1 LINE PAGE    | : 60         |                            |
|                 | OFF                     | RS232_PORT_2 BAUDRATE     | : 19200      | RS232_PORT_2 CTS_RTS : :   |
|                 |                         | RS232_PORT_2 PAGE_BEAK    | : OFF        | RS232_PORT_2 LINE PAGE : : |
|                 | 60                      | RS232_PORT_3 BAUDRATE     | : 19200      | RS232_PORT_3 CTS_RTS : :   |
|                 | OFF                     | RS232_PORT_3 PAGE_BEAK    | : OFF        | RS232_PORT_3 LINE PAGE : : |
|                 | 60                      | RS232_PORT_4 BAUDRATE     | : 19200      | RS232_PORT_4 CTS_RTS : :   |
|                 | OFF                     | RS232_PORT_4 PAGE_BEAK    | : OFF        | RS232_PORT_4 LINE PAGE : : |
|                 | 60                      | RS232_PORT_5 BAUDRATE     | : 19200      | RS232_PORT_5 CTS_RTS : :   |
|                 | OFF                     | RS232_PORT_5 PAGE_BEAK    | : OFF        | RS232_PORT_5 LINE PAGE : : |
|                 | 60                      | LCD TIME MODE             | : 12H        | LCD DATE                   |
|                 | MODE                    | : DDMMYY                  |              |                            |
|                 |                         | SMDR Attributes           |              |                            |
|                 | OFF                     | SMDR SAVE                 | : OFF        | SMDR PRINT : :             |
|                 |                         | RECORD TYPE               | : LD         |                            |
|                 |                         | LD CALL DGT CNT           | : 7          |                            |
|                 | CALL : OFF              | PRINT LOST CALL           | : OFF        | PRINT INCOMING             |
|                 |                         | RECORD IN DETAIL          | : ON         | HIDDEN DIALED              |
|                 | DGT : 0                 | SMDR CURRENCY UNIT        | :            |                            |
|                 |                         | COST PER PULSE            | : 0          | SMDR                       |
|                 | FRACTION : 0            | SMDR START TIMER(1sec): 0 |              |                            |
|                 |                         | SMDR HIDE DGT             | : RIGHT      |                            |
|                 |                         | SMDR LD CODE: 0           |              |                            |
|                 | ISDN System Attributes  |                           |              |                            |
|                 |                         | ADVICE OF CHARGE          | : NO SERVICE |                            |
|                 |                         | CO ATD CODE               | : ....       |                            |
|                 |                         | IN PREFIX CODE INSERT     | : OFF        |                            |
|                 |                         | OUT PREFIX CODE INSERT    | : ON         |                            |
|                 |                         | A_U_LAW LINE INSTALLED    | : A_LAW      |                            |
|                 |                         | CLI PRINT                 | : OFF        |                            |
|                 |                         | INTERNATIONAL ACCS CODE:  |              |                            |
|                 |                         | CALLING SUB_ADDRESS       | : OFF        |                            |



## ISDN Tables

### Colp Table Entry

```
=====
                                COLP TABLE 00 : 12345
=====
COLP TABLE 01 : 4536799
=====
COLP TABLE 02 :
=====
COLP TABLE 03 :
=====
                                COLP TABLE 04 :
=====
COLP TABLE 05 :
=====
COLP TABLE 06 :
:
=====
```

### MSN Table Entry

```
=====
MSN TABLE    0
=====
COL_NO : 001.      FLEX_DID_NO : .230
SUB_NO : 9         MSN_TEL_NO : 26303621

MSN TABLE    1
=====
COL_NO : ...      FLEX_DID_NO : ...
SUB_NO : .        MSN_TEL_NO :

MSN TABLE    2
=====
COL_NO : ...      FLEX_DID_NO : ...
SUB_NO : .        MSN_TEL_NO :

MSN TABLE    3
=====
SUB_NO : .        COL_NO : ...      FLEX_DID_NO : ...
                  MSN_TEL_NO :

MSN TABLE    4
=====
COL_NO : ...      FLEX_DID_NO : ...
SUB_NO : .        MSN_TEL_NO :
:
=====
```

### Flexible Did Conv Table Entry

```
=====
DID CONV TABLE  0
=====
COL NAME :
    DAY DESTINATION : STA230
    NIGHT DESTINATION : VMIB(#) 50
    WEEKEND DESTINATION : SPD 2500

DID CONV TABLE  1
=====
COL NAME :
    DAY DESTINATION : ....
    NIGHT DESTINATION : ....
    WEEKEND DESTINATION : ....

DID CONV TABLE  2
=====
COL NAME :
    DAY DESTINATION : ....
    NIGHT DESTINATION : ....
    WEEKEND DESTINATION : ....
:
=====
```

|                            |                            |                            |                          |      |
|----------------------------|----------------------------|----------------------------|--------------------------|------|
| System Timers              | System Timer Assignment    |                            |                          |      |
|                            | =====                      |                            |                          |      |
|                            | System Timer 1             |                            |                          |      |
|                            | ATD RCL TIMER(min)         | :1                         | CALL PARK TIMER(sec)     | :120 |
|                            | CAMPON TRNS RCL TIMER(sec) | :30                        | I-HOLD RCL TIMER(sec)    | :30  |
|                            | EXCL HOLD RCL TIMER(sec)   | :60                        | ACNR DELAY TIMER(sec)    | :30  |
|                            | SYS HOLD RCL TIMER(sec)    | :30                        | ACNR RETRY CNT           | :3   |
|                            | TRANSFER RCL TIMER(sec)    | :30                        | CO AUTO RLS TIMER(sec)   | :30  |
|                            | ACNR NO ANS TIMER(sec)     | :30                        | CALL RESTRICT TIMER(min) | :0   |
|                            | ACNR PAUSE TIMER(sec)      | :30                        | RING OFF TIMER(100ms)    | :60  |
| ACNR NO TONE RTY CNT       | :1                         | CO WARN TONE TIMER(sec)    | :180                     |      |
| ACNR TONE DCT TIMER(sec)   | :30                        |                            |                          |      |
| CCR INT DGT TIMER(100ms)   | :30                        |                            |                          |      |
| CALL DROP WARN TIMER(sec)  | :10                        |                            |                          |      |
| CO DIAL DELAY TIMER(100ms) | :1                         |                            |                          |      |
| CO RLS GUARD TIMER(100ms)  | :2                         |                            |                          |      |
| RING ON TIMER(100ms)       | :2                         |                            |                          |      |
|                            | System Timer 2             |                            |                          |      |
| CFW NO ANS TIMER(sec)      | :15                        | DISA-DID NO ANS TIMER(sec) | :20                      |      |
| VMIB USER RECORD TMR(sec)  | :20                        | DOOR OPEN TIMER(100ms)     | :20                      |      |
| VMIB VALID MSG TIMER(sec)  | :4                         | INTER DGT TIMER(sec)       | :5                       |      |
| ICM BOX TIMER(sec)         | :30                        | PAUSE TIMER(sec)           | :3                       |      |
| DIAL TONE TIMER(sec)       | :10                        |                            |                          |      |
| MSG WAIT REM TONE TMR(min) | :0                         |                            |                          |      |
| PAGE TIMEOUT TIMER(sec)    | :15                        |                            |                          |      |
| PRESET CFW TIMER(sec)      | :10                        |                            |                          |      |
|                            | System Timer 3             |                            |                          |      |
| SLT HOOK BOUNCE TMR(100ms) | :1                         | SLT MAX HOOK FLASH(100ms)  | :5                       |      |
| SLT MIN HOOK FLASH(10ms)   | :20                        | STA AUTO RLS TIMER(sec)    | :60                      |      |
| SLT RING PHASE(sec)        | :5                         | WARM LINE TIMER(sec)       | :5                       |      |
| UNSUPER CONF TMR(min)      | :10                        | CCR TIME OUT TIMER(sec)    | :15                      |      |
| WAKE UP FAIL TIMER(sec)    | :20                        |                            |                          |      |
| PP WINK TIMER(10ms)        | :10                        |                            |                          |      |
| ENBLOCK INT DGT TIMER(sec) | :10                        |                            |                          |      |

|                  |  |
|------------------|--|
| <b>Toll Data</b> | <b>TOLL Table Data Entry</b><br>=====  |
|                  | <b>Allow TABLE A</b><br>Bin 1 : 012<br>Bin 2 :<br>Bin 3 :<br>Bin 4 :<br>Bin 5 :<br>:         |
|                  | <b>Allow TABLE B</b><br>Bin 1 : 015<br>Bin 2 :<br>Bin 3 :<br>Bin 4 :<br>Bin 5 :              |
|                  | <b>Deny TABLE A</b><br>Bin 1 : 011<br>Bin 2 : 080<br>Bin 3 : 070<br>Bin 4 :<br>Bin 5 :       |
|                  | <b>Deny TABLE B</b><br>Bin 1 : 001<br>Bin 2 : 002<br>Bin 3 :<br>Bin 4 :<br>Bin 5 :           |
|                  | <b>Canned TOLL Table Data Entry</b><br>=====   |
|                  | <b>Canned Allow TABLE</b><br>Bin 1 : 080<br>Bin 2 : 012<br>Bin 3 : 015<br>Bin 4 :<br>Bin 5 : |
|                  | <b>Canned Deny TABLE</b><br>Bin 1 : 115<br>Bin 2 :<br>Bin 3 :<br>Bin 4 :<br>Bin 5 :          |

|          |   |
|----------|---|
| LCR Data | <p>LCR Table Data Entry</p> <p>=====</p> <p>LCR Control Data</p> <p>=====</p> <p>LCR_ACCESS_MODE : (M00)DISABLE LCR</p> <p>MON : DAY_ZONE(1)</p> <p>TUE : DAY_ZONE(1)</p> <p>WED : DAY_ZONE(1)</p> <p>THU : DAY_ZONE(1)</p> <p>FRI : DAY_ZONE(1)</p> <p>SAT : DAY_ZONE(1)</p> <p>SUN : DAY_ZONE(1)</p> <p>DAY_ZONE 1</p> <p>TIME_ZONE_1 : 08 - 18</p> <p>TIME_ZONE_2 : 19 - 24</p> <p>TIME_ZONE_3 : 00 - 07</p> <p>DAY_ZONE 2</p> <p>TIME_ZONE_1 : 00 - 24</p> <p>TIME_ZONE_2 : ... - ...</p> <p>TIME_ZONE_3 : ... - ...</p> <p>DAY_ZONE 3</p> <p>TIME_ZONE_1 : 00 - 24</p> <p>TIME_ZONE_2 : ... - ...</p> <p>TIME_ZONE_3 : ... - ...</p> <p>LCR Table LDT(Leading Digit Table) Entry</p> <p>=====</p> <p>LDT Table (000)</p> <p>CODE : Working Mode : BOTH</p> <p>DMT_INDEX 0 :.. 00 00 00</p> <p>DMT_INDEX 1 :.. 12 23 22</p> <p>DMT_INDEX 2 :.. .. ..</p> <p>LDT Table (001)</p> <p>CODE : Working Mode : BOTH</p> <p>DMT_INDEX 0 :.. .. ..</p> <p>DMT_INDEX 1 :.. .. ..</p> <p>DMT_INDEX 2 :.. .. ..</p> <p>LDT Table (002)</p> <p>CODE : Working Mode : BOTH</p> <p>DMT_INDEX 0 :.. .. ..</p> <p>DMT_INDEX 1 :.. .. ..</p> <p>DMT_INDEX 2 :.. .. ..</p> <p>:</p> |
|----------|---|

|             |  |
|-------------|--|
| OTHER Table | <p><b>Emergency Code Data Entry</b></p> <p>=====</p> <p>Entry 0 : 119<br/> Entry 1 : 911<br/> Entry 2 : 00911<br/> Entry 3 :<br/> Entry 4 :<br/> Entry 5 :<br/> Entry 6 :<br/> Entry 7 :<br/> Entry 8 :<br/> Entry 9 :</p> <p><b>Author Code Data Entry</b></p> <p>=====</p> <p>Entry 1 : 12345<br/> Entry 2 : 34567<br/> Entry 3 : 98765<br/> Entry 4 :<br/> Entry 5 :<br/> Entry 6 :<br/> Entry 7 :</p> <p><b>CCR(Customer Call Routin) Table Entry</b></p> <p>=====</p> <p>VMIB Index : 1</p> <p>-----</p> <p>CCR Entry 1 : HUNT 620<br/> CCR Entry 2 : STA 101<br/> CCR Entry 3 : SPD 2500<br/> CCR Entry 4 : INT PAGE 1<br/> CCR Entry 5 : ....<br/> CCR Entry 6 : ....<br/> CCR Entry 7 : ....<br/> CCR Entry 8 : ....<br/> CCR Entry 9 : ....<br/> CCR Entry 10 : ....</p> <p>VMIB Index : 2</p> <p>-----</p> <p>CCR Entry 1 : ....<br/> CCR Entry 2 : ....<br/> CCR Entry 3 : ....<br/> CCR Entry 4 : ....<br/> CCR Entry 5 : ....<br/> CCR Entry 6 : ....<br/> CCR Entry 7 : ....<br/> CCR Entry 8 : ....<br/> CCR Entry 9 : ....<br/> CCR Entry 10 : ....</p> <p><b>Exec/Sec Data Entry</b></p> <p>=====</p> <p>Entry 1 : .... / ....<br/> Entry 2 : .... / ....<br/> Entry 3 : .... / ....<br/> Entry 4 : .... / ....<br/> Entry 5 : .... / ....<br/> Entry 6 : .... / ....<br/> Entry 7 : .... / ....<br/> Entry 8 : .... / ....</p> |
|-------------|--|

|           |   |
|-----------|---|
| STA Group | <p>Station Group Assignment<br/>           STA GRP PILOT NUMBER : 620-667<br/>           =====</p> <p>Station Group : 620<br/>           Group Type: CIRCULAR GROUP<br/>           =====</p> <p>Group Member<br/>           =====</p> <p>100 101 102 ....</p> <p>....</p> <p>....</p> <p>....</p> <p>....</p> <p>....</p> <p>....</p> <p>....</p> <p>....</p> <p>....</p> <p>=====</p> <p>ANNC1 TIMER :15 ANNC2 TIMER :0<br/>           ANNC1 LOC :VMIB(NOT_ASG)<br/>           ANNC2 LOC :VMIB(NOT_ASG)<br/>           ANNC2 RPT TIMER :0 ANNC 2 REPEAT :OFF<br/>           OVERFLOW DEST :NOT ASSIGNED<br/>           OVERFLOW TIMER :180 WRAP UP TIMER :2<br/>           NO ANS TIMER :15 PILOT HUNT :ON<br/>           REPORT NO MEM :OFF MUSIC SOURCE :0</p> <p>Station Group : 621<br/>           Group Type: NOT ASSIGNED<br/>           =====</p> |
|-----------|---|

|                 |   |
|-----------------|---|
| Nation Specific | <p><b>NATION GAIN PRINT</b></p> <p>=====</p> <p>DTIB/DTIB:26<br/> DTIB/SLIB:33<br/> DTIB/WTIB:26<br/> DTIB/ACOB:33<br/> DTIB/DCOB:33<br/> DTIB/VMIB:29<br/> DTIB/DTMF:08<br/> DTIB/TONE:32<br/> DTIB/MUSIC1:29<br/> DTIB/MUSIC2:29<br/> DTIB/MUSIC3:29</p> <p><b>SYSTEM TONE FREQ</b></p> <p>=====</p> <p>DIAL TONE FREQUENCY: (T1:0425 / T2:0000)<br/> RBACK TONE FREQUENCY: (T1:0425 / T2:0000)<br/> BUSY TONE FREQUENCY: (T1:0425 / T2:0000)<br/> ERROR TONE FREQUENCY: (T1:0620 / T2:0000)<br/> DDIAL TONE FREQUENCY: (T1:0350 / T2:0440)</p> <p><b>DIFFERENTIAL RING FREQ</b></p> <p>=====</p> <p>DIFF RING FREQ(1): (T1:1000 / T2:1020)<br/> DIFF RING FREQ(2): (T1:0890 / T2:0910)<br/> DIFF RING FREQ(3): (T1:1260 / T2:1280)<br/> DIFF RING FREQ(4): (T1:0800 / T2:0820)</p> <p><b>DISTINCT RING FREQ</b></p> <p>=====</p> <p>DIST RING FREQ(1): (T1:0480 / T2:0000)<br/> DIST RING FREQ(2): (T1:0400 / T2:0000)<br/> DIST RING FREQ(3): (T1:0620 / T2:0000)<br/> DIST RING FREQ(4): (T1:0770 / T2:0000)</p> <p><b>TONE CADENCE</b></p> <p>=====</p> <p>RBACK TONE CADENCE: (T1:0050 / T2:0100)<br/> BUSY TONE CADENCE: (T1:0025 / T2:0025)<br/> ERROR TONE CADENCE: (T1:0012 / T2:0012)<br/> S_DIAL TONE CADENCE: (T1:0070 / T2:0000)</p> |
| All Data        | <p>COMPLETE DATABASE PRINTING</p> <p>-----</p> <p><i>print above all</i></p>  |