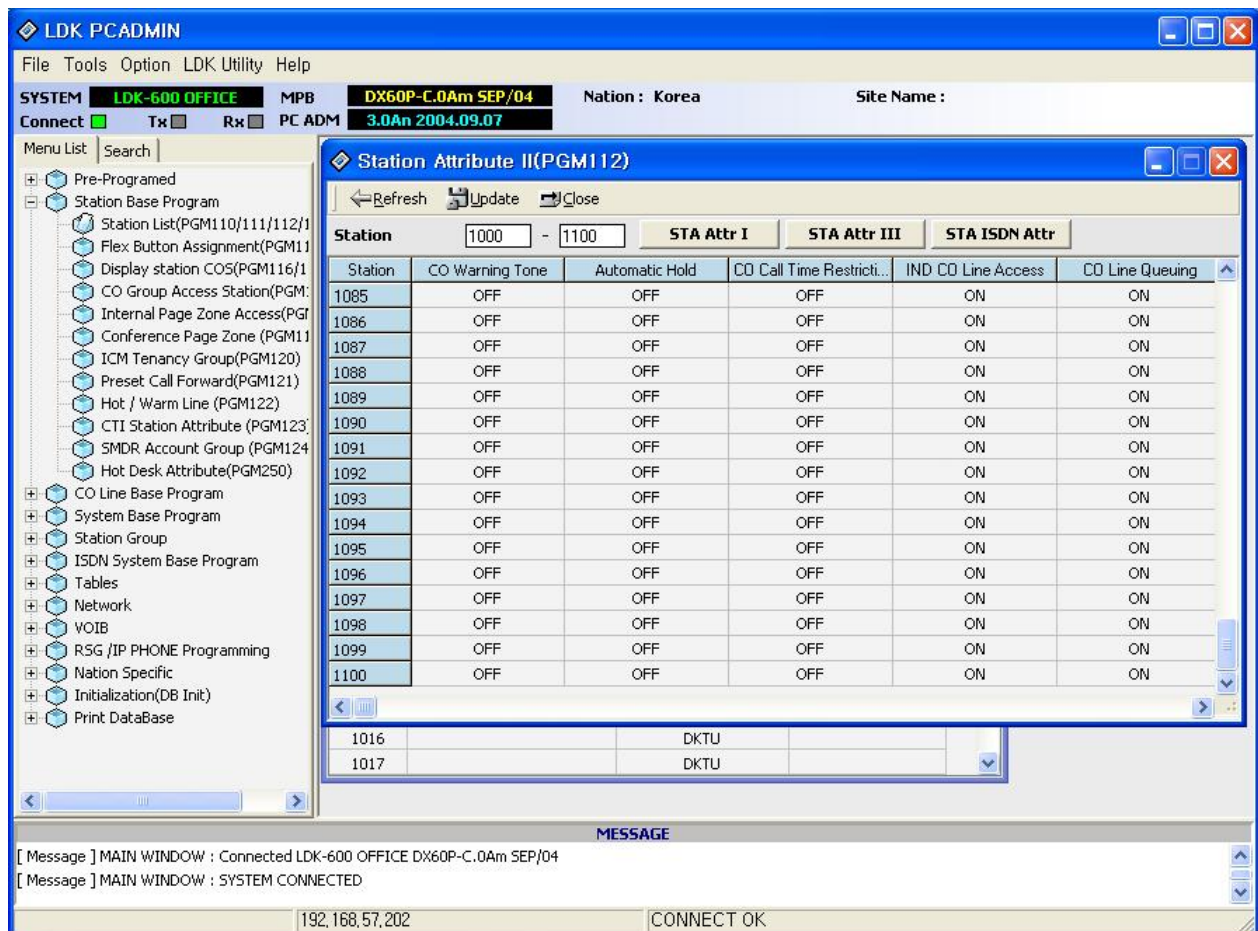


# *ipLDK PC Admin.*

## Installation and User Guide



*ISSUE 3.6.5*



## **REVISION HISTORY**

<i>Issue</i>	<i>Date</i>	<i>Description of Changes</i>	<i>S/W Version</i>
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 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 VoIB Programming(PGM 340) VMIB Prompt Usage → (PGM 167 is modified) Max Queue Call Count in Ring Group → Added	1.0Ba(PC) 1.0Dd(MP)
ISSUE 1.4	AUG/2001	DCOB Admin programming → PGM186/187 was added Gain Control CTR SLT/COL were added → PGM 400~411 ipLDK100 Admin is added SLT Flash Drop(PGM111-Flex15) → Added Offnet Prompt Usage(PGM160-Flex12) → Added Offnet DTMF Tone(PGM160-Flex13) → Added VMIB Prompt Gain(PGM161-Flex12) → Added DID Restriction(PGM114-Flex14) → Added DID Call wait(PGM114->Flex15) → Added	MP:1.0Ea, PC:1.0Ba  MP:1.0Ea, PC:2.0Aa  MP:1.0Ea, PC:2.0Aa  MP:1.0Ea, PC:2.0Aa  MP:1.0Ea, PC:2.0Aa  MP:1.0Ea, PC:2.0Aa  MP:1.0Ea, PC:2.0Aa  MP:1.0Ea, PC:2.0Aa
ISSUE 2.0	NOV/2001	Add ipLDK300/100 Office/Networking PGM 320~324(Networking)	MP:B.0Aa, PC:B.0Aa
ISSUE 2.1	DEC/2001	Add ipLDK300 Hotel Administration PGM 300~308(HOTEL)	MP:1.0Fc(Office) MP:1.0Fd(Hotel) PC:1.0Fd(ipLDK300) PC:B.0Bb
ISSUE 2.2	FEB/2002	Automatic Port Detection was enabled.	MP:B.0Af(Office) MP:B.0Af(Hotel) PC:B.0Af(ipLDK300)

Issue	Date	Description of Changes	S/W Version
ISSUE 2.3	MAR/2002	PGM185 CIDU Setting → Added PGM451 Network DB Print → Added PGM112 –Flex15(Stop Camp On) → Added PGM143 – Flex7(CLI Transit) Added Extension Number Range is changed → Changed(Only ipLDK100, 96 → 128)	MP:B.0Ai(Office) MP:B.0Ai(Office) PC:2.0Ai(300/100)
ISSUE 2.4	JUL/2002	PGM 112 Station Attributes II → Flex16 Line Length was added (Only for SA Telkom) PGM 142 CO Attributes II → Flex14 Line Length was added PGM 340 Flex6 Default Codec was added Flex7 Default Gain was added Flex8 No Delay was added Flex9 Throughput was added Flex10 Reliability was added PGM 412~416 Special Gain Control → Added(Only for SA Telkom) PGM185 Flex6 CID type II → Added. PGM145 CO Ring Assignment Display → Added PGM231 Flexible numbering Table → Net number is available	MP : 2.0As PC : 2.0Ba  MP : 2.0As PC : 2.0Ba  MP : 2.0Ba PC : 2.0Ba   MP : 2.0As PC : 2.0Ba MP : 2.0As PC : 2.0Ba MP : 2.0Ba PC : 2.0Ba MP : 2.0Ba PC : 2.0Ba
ISSUE 2.5	DEC/2003	Added some program feature for MPB 2.2 version.	
ISSUE 2.6	FEB/2004	Added some features with MPB 2.2Fb. - STN Auth check(PGM112-F20) - DISA wait timer(PGM142-F15) - CO to CO Xfer CPT Check (PGM160-F16) - Fwded busy dest.(PGM167-F5) - Transit connect timer (PGM181-F16)	MP : 2.2Fb PC : 2.2Fa
ISSUE 3.0	APR/2004	- V3 Feature added. - Main GUI was changed.	MP : 3.0Aa PC : 3.0Aa
ISSUE 3.1	JUN/2004	- ipLDK20 specification was added.	MP : 3.0Ae PC : 3.0Ae
ISSUE 3.11	SEP/2004	- Added some comments for AUS TELSTRA	PC : 3.0Ao

Issue	Date	Description of Changes	S/W Version
ISSUE 3.12	OCT/2004	- Added some feature and fixed problem	PC : 3.0Ba MP : 3.0Bb
ISSUE 3.2	DEC/2004	- Added some feature for Korea - PCM160-F19 Call Log List Num - PGM185-F7 Fast CID Mode - PGM171-F5 Dial Tone Src - PGM171-F6 ICM RB Tone Src - PGM177-F15 Print MSN on SMDR - PGM177-F16 Print Caller Number - PGM186-F13 R2 Out Digit Timer - PGM186-F14 R2 Error Prompt Usage - PGM186-F15 R2 Busy Prompt Usage - PGM186-F16 R2 Annc Prompt Usage - PGM187 Send Sblock CMD - ALT Destination in PGM191 CIR/TRM Group - Max Queue Call Count in PGM191 CIR/TRM Group - PGM155-F2 Long Distance Setting	PC : 3.1Aa MP : 3.1Ab (These were added only for Korea market)
	JAN/2005	- Max CO Number changed for ipLDK20 ( from 12 → 16)	PC : 3.1Aa MP:2.0Ab (ipLDK20 only)
ISSUE 3.2.1	FEB/2005	- Added some Admin feature - PGM111-F22 Caller V.Over - PGM114-F21 Long Cli 1 - PGM114-F22 Long Cli 2 - PGM143-F12 CLI type - PGM236-F4 CLI	PC:3.2Aa MP:3.2Ab
ISSUE 3.2.2	MAR/2005	- Added some feature only for ipLDK20 - PGM203-F5:B-channel select type - PGM203-F6:Barring Up code - PGM203-F7:Barring Down Code - PGM203-F8:CFU Active Code - PGM203-F9:CFU Deactive Code: - PGM203-F10:Memotel Norm Code - PGM203-F11:Memotel Nans Code - PGM203-F12:Memotel LNR Code - PGM203-F13-Memotel Nego Code - PGM203-F14:Memotel Retr Code - PGM203-F15:Memotel Deactive Code	PC : 3.2Ba MP:2.1Aa (ipLDK20 only)

<i>Issue</i>	<i>Date</i>	<i>Description of Changes</i>	<i>S/W Version</i>
<i>ISSUE 3.3.1</i>	<i>APR/2005</i>	<ul style="list-style-type: none"><li>- PGM227 Auth code table(changed code range and added COS display &amp; assignment)</li><li>- PGM450 Initialization(STN/CO range is available)</li><li>- PGM424 DKT gain was added(SAF only)</li><li>- PGM415/6 : DKT gain were added(SAF only)</li></ul>	<i>PC:3.3Aa</i> <i>MP:3.3Aa(ipLDK20,2.1Ab)</i>
<i>ISSUE 3.5.1</i>	<i>MAY/2005</i>	<ul style="list-style-type: none"><li>- PGM183 In Room Indication(F1~F10) Added.</li><li>- PGM184Chime Bell Attribute(F1~4) Added</li><li>- PGM113-F11 Mute Ring SVC Added</li><li>- PGM322-F3 GateKeeper Usage Added</li><li>- Member FWD was added in HUNT Group Attribute(CIR/TRM, UCD, RING type only)</li><li>- PGM341 GateKeeper(F01~22) added</li></ul>	<i>PC:3.5Aa</i> <i>MP:3.5Aa(ipLDK20,3.0Ab)</i>
<i>ISSUE 3.5.2</i>	<i>MAY/2005</i>	<ul style="list-style-type: none"><li>- PGM181-F LCO Connect Tmr(Added)</li><li>- PGM142-F16 DISA/DID Delay Timer(Added)</li></ul>	<i>PC : 3.5Ab</i> <i>MP : 3.5Ab(ipLDK20, 3,0Aa)</i>
<i>ISSUE 3.5.3</i>	<i>SEP/2005</i>	<ul style="list-style-type: none"><li>- Warning message was added with USB SIO convertor.</li></ul>	

Issue	Date	Description of Changes	S/W Version
ISSUE 3.6.1	SEP/2005	<ul style="list-style-type: none"><li>- PGM11-F23 SIP User BIN was added</li><li>- PGM140, On-demand case was added</li><li>- PGM181-F19 LCO CPT Detect Timer was added</li><li>- PGM191-UCD DND Ring timer was added</li><li>- SIP Attributes 1, 2 were added.</li><li>- PGM340 added below items. Firewall IP Address VOIB Mode DSP Use Silence Detection DSP Use echo Canceler SIP DTMF mode SIP Jitter Buffer Voice monitor</li><li>- PGM341 deleted below items. Out Band DTMF CNG Silence Detection Echo Cancel Voice Monitor Jitter Buffer Length</li></ul>	MP : 3.6Aa PC : 3.6Aa
ISSUE 3.6.2	NOV/2005	<ul style="list-style-type: none"><li>- Music Source range was changed(PGM190, Station Group)</li><li>- G.729 was added in PGM382</li><li>- Emergency Intrusion(PGM109)</li><li>- Emergency Supervisor(PGM112-F24)</li><li>- LCR Dial Tone Detect(PGM161-F22)</li></ul>	
ISSUE 3.6.3	JAN/2006	<ul style="list-style-type: none"><li>- Hotel Feature was added in the manual.(Including ipLDK20 Hotel)</li></ul>	MP : 3.6Aa PC : 3.6Ba
ISSUE 3.6.4	APR/2006	<ul style="list-style-type: none"><li>- ARIA SOHO system is added</li><li>- USB Interface is added(Only for ARIA SOHO system)</li></ul>	
ISSUE 3.6.5	MAY/2006	<ul style="list-style-type: none"><li>- Local Code Table was added (PGM204,ARIA SOHO CIS Only)</li><li>- CO CIDU Attribute was added(PGM147, ARIA SOHO CIS Only)</li><li>- Slot Configuration : Added(PGM101-103)</li></ul>	ARIA SOHO 3.6Af

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## 1. General Description

### 1.1 Introduction to *ipLDK PC Admin*

- *ipLDK 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 NT/2000/XP.

### 1.2 Hardware/Software Requirements

- 1. *ipLDK*
- *ipLDK 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 : *ipLDK-300/100/300E/20/ARIA SOHO Office/Hotel(Except ARIA SOHO)* system.
- 2. PC
- Pentium Celleron 233MHz CPU or higher(Celleron 333 or more high performance CPU is recommended)
- 256 color Super VGA (800 X 600), or higher(Recommended : 1024 X 768)
- One or more Serial Port: Mouse that has two or more buttons
- At least **64MB** RAM (**128MB** or more RAM is recommended)
- MS-Windows **NT/2000/XP**
- NIC(Network Interface Card) for LAN connection and ability to connect the network(Optional)
- ISDN Card for ISDN Connection (Option)
- MODEM for PSTN connection (Option)
- USB Port for USB connection(ARIA SOHO System only)
- Cable

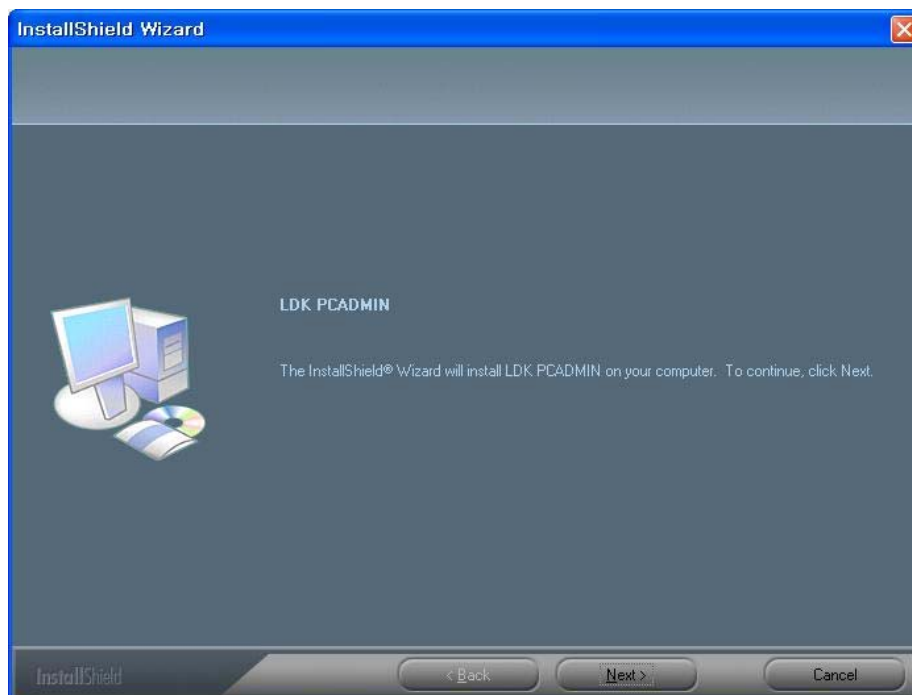
- RS-232C Type Cable for connecting PC and *ipLDK* system: Two connectors are needed for this connection. One connector should be a 9-pin female connector that is to be connected to *ipLDK*, and the other one should fit the serial port of the PC. There are three required lines that should be connected for the communication between PC and 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.
- UTP cable is used for LAN connection.
- ISDN Connection Cable
- USB cable for USB connection.(ARIA SOHO Only)

#### **4. Environments for LAN connection**

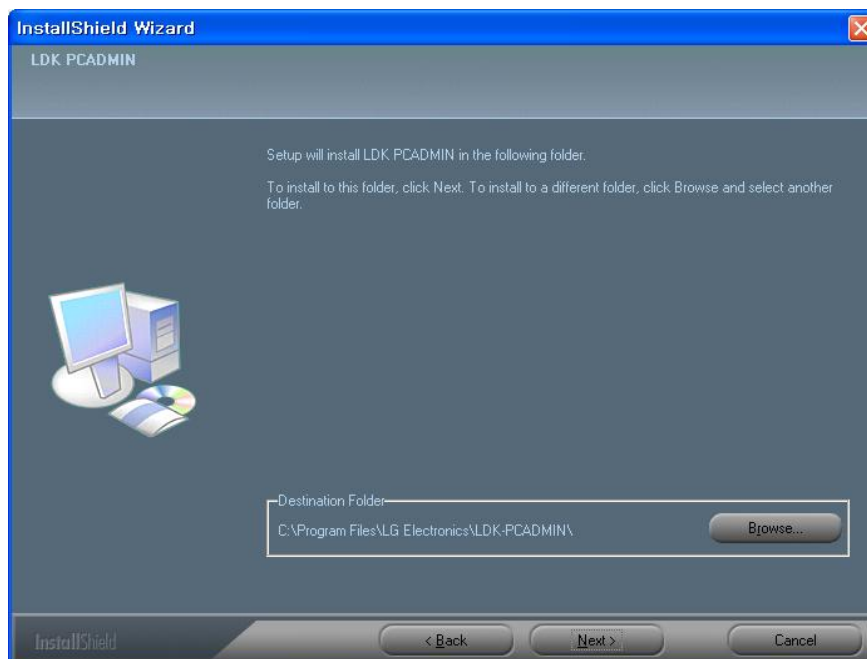
- *ipLDK* system should have one IP address and it has to be set in MPB using Admin PGM108 – Flex button 2.
- If your site uses the firewall or NAT(Network Address Translation)/PAT(Port Address Translation) for security, you have to need help from network administrator to use the PC Admin software for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

### **1.3 Installation of *ipLDK*-PC Admin Software**

- Put the CD-ROM into your PC or run setup.exe file.
- Run Explorer in your PC and search setup.exe in the CD-ROM of first floppy diskette.
- If you find the setup.exe file, execute “*setup.exe*”. Then you can find the initial screen of installation of PC Admin as like below.(It is not needed for user to explore your computer if you get this software as files.

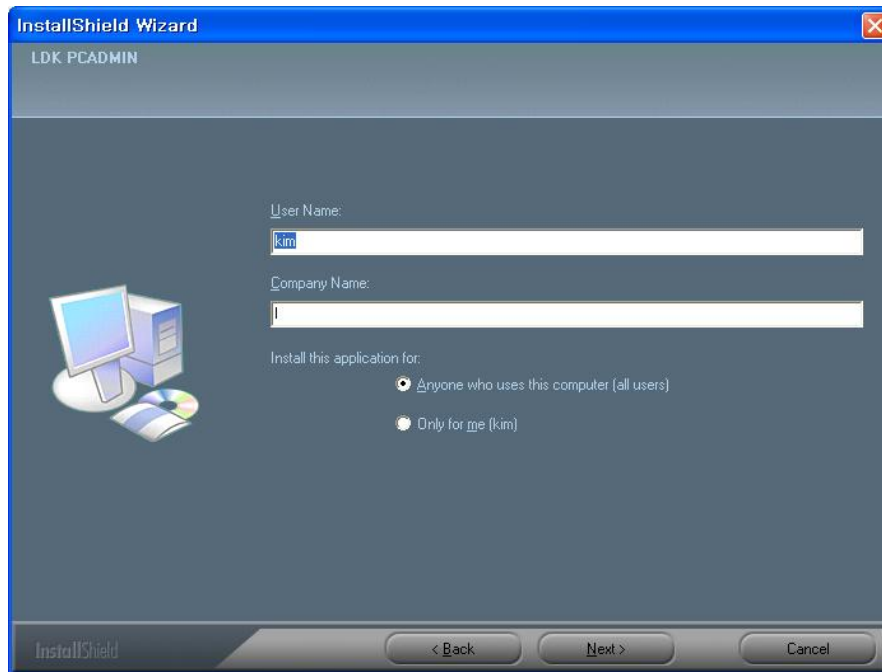


- [Figure 1-1] Start Screen
- Press [**Next**] for install process. If you press [**Cancel**] button, install process will be stopped.
- Next step is selecting location for installation.



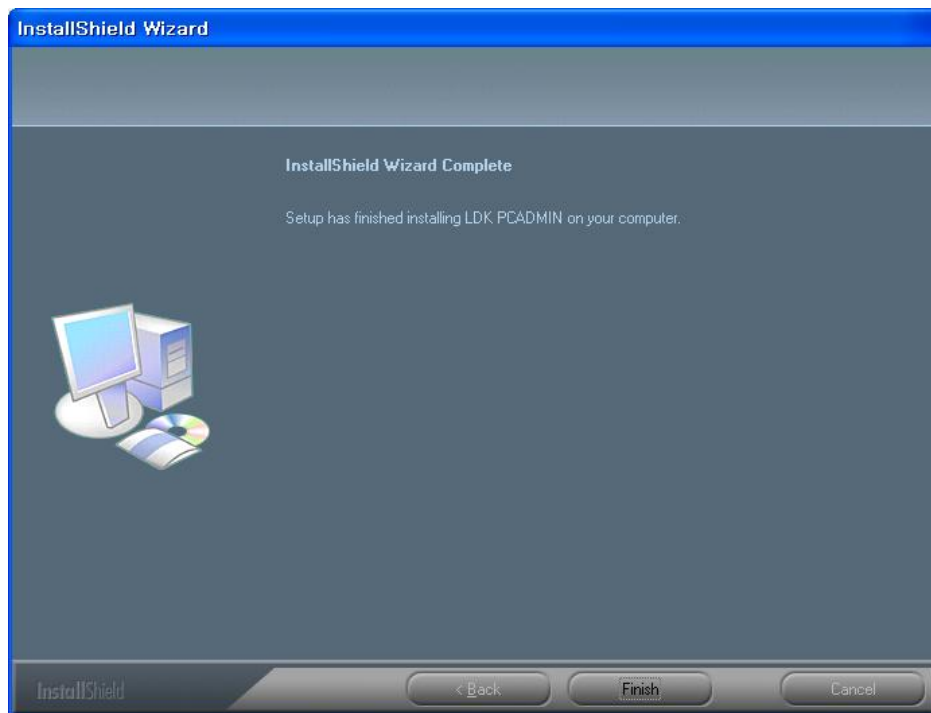
[Figure 1-2] Select install directory

- You can change the install directory if you want. Default install directory is like below.
- Next step is displayed below.



[Figure 1-3] Display the user information

- Next step will copy the files into install directory that you have decided previous step.
- After coping the files, Next step is the final step to complete the installation.
- Below screen is the final step for installation.



[Figure 1-4] Finish notification screen

## **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 ipLDK*** 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 ipLDK***).

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 ipLDK*) 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 ipLDK*) 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 ipLDK* 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 ipLDK*) after installing ISDN S-Card drivers. Keep this information in your mind.!!**

## 3) Recommended procedure

- So, we recommend the 1<sup>st</sup> case(ISDN S-Card installation → PC Admin installation) procedure.

- If you choose the 2<sup>nd</sup> 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 admin program is structured in a tree shape. It has 14 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 *ipLDK* system automatically, and controls the available feature. For example, if the *ipLDK* system is *ipLDK-300* Office system, PC admin will disable to programming Hotel feature.
- It is possible to use for all *ipLDK* systems except NeXer. WEB Admin maintains NeXer.

## 1.6 Password

As you execute ipLDK PC Admin application, you will see the box below to enter a user Id and password. You should assign the user ID, access level and password for each engineer.

This password is not related with PGM162. This is a multi level management for user and it is the pure feature of only PC Admin. (Default ID : administrator , Password : 0000 )

### Operation

1. When you execute PCADM software, you will see the below logon dialog box. You should enter the user ID and password and this information will be programmed only when you logon with administrator. Administrator has highest priority and level. So, only administrator can program the user ID and password.
2. User should enter the user name and password whenever they want to logon. But if user uses the same ID, user can enable the **User ID Save** field. Then user don't need to enter the user name again. But if another user want to logon, he/she should enter his/her own user ID.
3. Press the [OK] button after entering user ID and password.
4. Follow the instruction in Connection Type Setup. It will be described in next section.



[Figure 1-5] Password Input Window

## 1.7 Connection Type

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

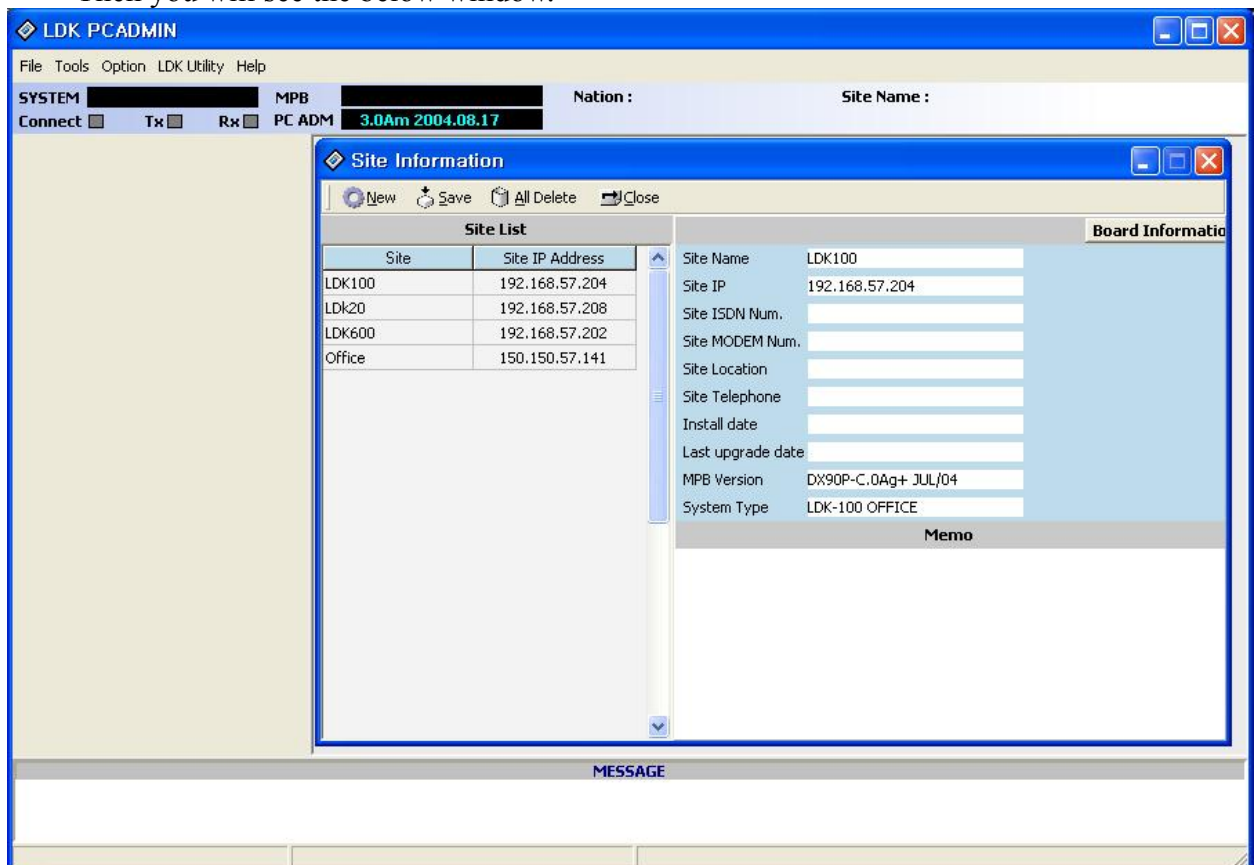
## 1.8 Site Management tool

PC Admin can save simple information for sites and you can connect to the site directly with this list. So, if you save site information, it will be very helpful to you.

### Operation

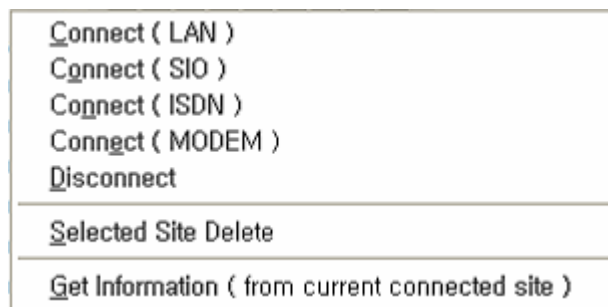
#### 1) [Tools] → [Site Information]

Then you will see the below window.



[Figure 1-6] Site Information Window

- 2) Press [**New**] button to add site information. Then you will see small dialog box for each information with below order.  
**Site Name / IP Address / ISDN Phone number / Modem phone number / Location / Telephone number for customer / Install Date / Last Upgrade Date.**
- 3) telephone number for customer, install data and last upgrade date are for additional information for engineer..
  - After setting each field, press [**Save**] button to save changes.
  - To connect some site, move the mouse to the site that you want to connect and click right button of mouse. Then you will see below selection menu.



[Figure 1-7] Selecting connection type

4) With this selection, you can select the type of connection.

- You can use the “**Get Information (From current connected site)**” to save basic configuration of the site. If you select this menu during your connection, PCADM will read the basic slot configuration and will save the data. If you save this data, you can see this information without connecting to the site.

## 2)[File] → [Connect]

- This menu is for fast connection to the site that you have visited before.
- If you select this menu, PCADM software can remember the type of connection and connection number(IP address or telephone number). So, if you want to connect again the last visited site, select this menu instead of selecting site information.
- Then you can make fast connection.

## 1.9 Basic information

### - Connect LED

If connection is established between PC Admin and *ipLDK* system, connect light will be turned on with LED. The Tool Bar shows all the menu items including connection and disconnection to the system, Reload, Debug Window, and Item Window.

### - Tx/Rx LED

This LED will be turned on when PCADM send or receive data from *ipLDK* system.

### - Nation Code and Site name

This information will be displayed when connection is established between PC Admin and *ipLDK* system.

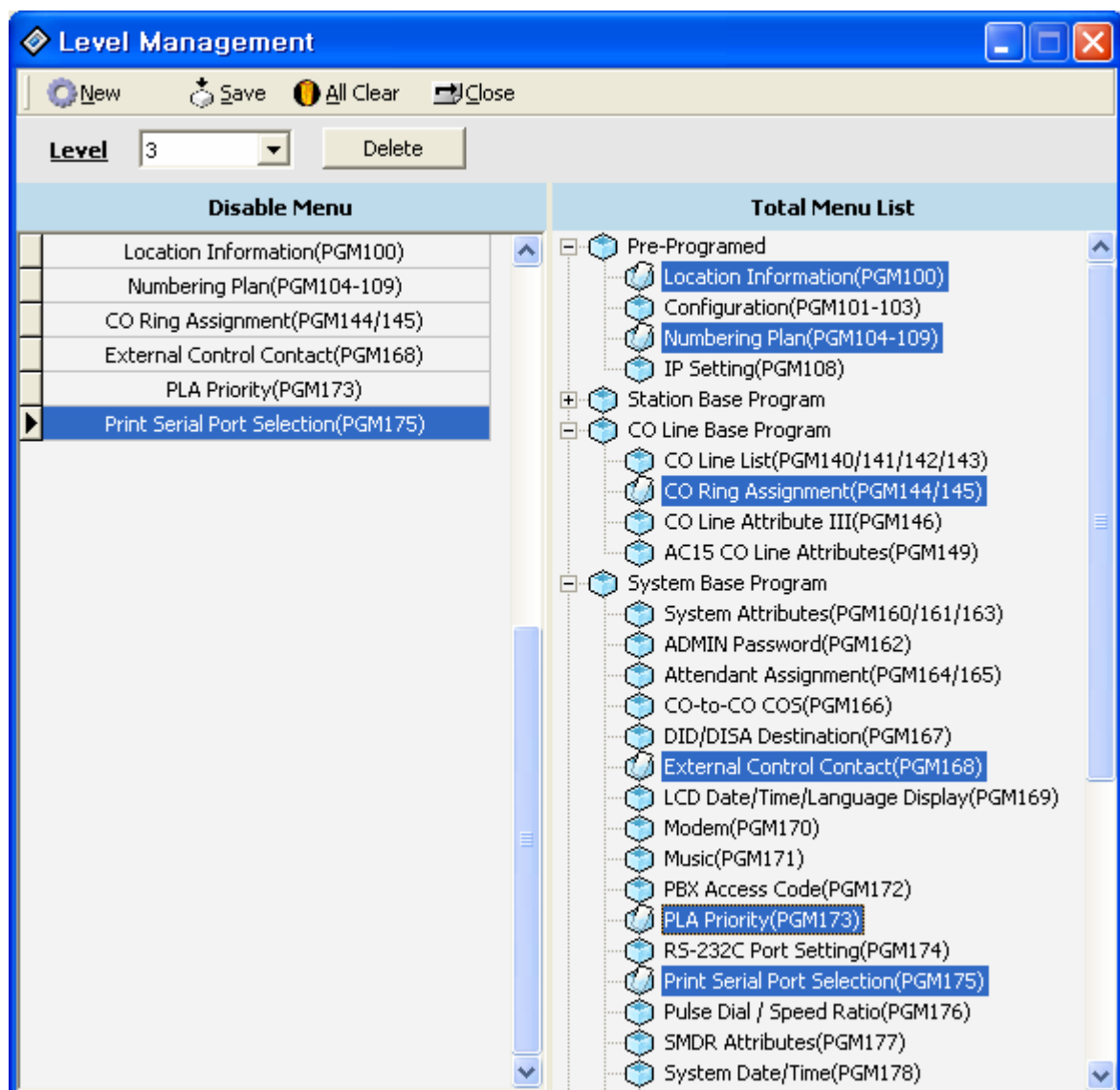
## **1.10 Level management – Administrator only**

### **A. Description and how to program**

PC Admin supports multi level of users. Administrator has highest priority and can assign levels to each user. Refer to below description for level management.

#### **1) [Tools] → [Level Management]**

- Then you will see below window for level management. (Only administrator can see this window. Other user can not see this menu in menu bar)
- Press **[New]** button to assign new level
- Enter the level that you want to add. At this time, duplicated level is not allowed.
- After entering level, you can select the features that you want to disable with assigned level. If you disable some menu, the user who has this level can not see the menu in menu list.
- It is possible to select the menu by medium category. ( For example, PGM108,111,141 etc). You cannot assign the main category as like **“Preprogrammed”** or **“Station Base programming”**.
- After configuration, you should press **[save]** button to save changes.
- Only **“administrator”** can control the level management.
- **2) [All clear]** will be used when you want to clear the whole level data.
- **3)[Delete]** can be used when you want to delete one.



[Figure 1-8] Level management

### B. Tip for backup level database

- If you want to back up or assign the defined level to every customer site, refer to below description.
- To backup and restore the level database, search two files. One is **Lmaster.cds** and another is **Ldetail.cds** in installation directory.
- If you backup these two files, it will be very helpful for emergency case.
- Case 1 : When you want restore the database after installing the PCADM again.
- Case 2 : When you want to setup the same level data to various customer. In other words, you can fix several levels and apply this configuration to all customer. Refer to below instruction.

- - Install the PCADM software in some PC and configure the level/menu with a few level.
- - Backup the ***Lmaster.cds*** and ***Ldetail.cds*** to your mobile storage (Ex:Floppy Diskette,
  - USB-memory, CD-ROM for your working, etc)
- - If you go to the site to install PCADM, install the PCADM package.
- - After installation, copy your preprogrammed DB file(***Lmaster.cds*** and ***Ldetail.cds***) to
  - installation directory(Default : C:\Program files\LG Electronics\ipLDK PCADM\Data).
- Then these two files will be overwritten and user can use the PCADM with fixed level
- information that you have programmed.
- So, you don't need to program for level information whenever you install the PCADM
- package with this tips. If you keep this backup or preprogrammed file, you can copy
- these files easily.

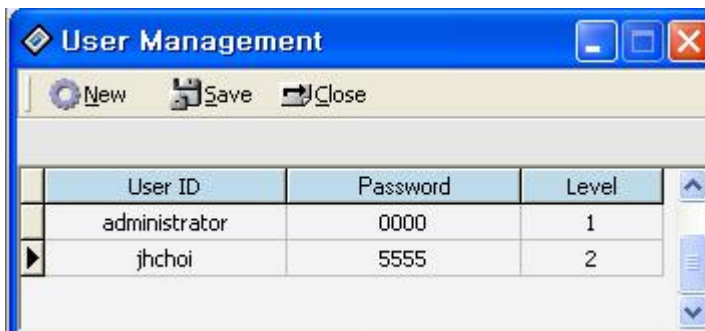
## 1.11 User management – Administrator only

### Description and how to program

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

#### 1) [Tools] → [User Management]

- Then you will see below window for level management. (Only administrator can see this window. Other user can not see this menu in menu bar)
- Press [New] button to add user. Then you will see some dialog box with below order.
- → User Name / Password / Level
- After entering above 3 items, you should press [Save] button to save changes.
- Only “**administrator**” can control the user management. So, this menu will be displayed *only for administrator*.



[Figure 1-9] User management

### Tip for backup and restore user database

- If you want to back up or assign the defined level to every customer site, refer to below description. To backup and restore the level database, search two files. The name of file is **attribute.cds**.
- If you backup this file, it will be very helpful for emergency case.
- Summary
- If you want to backup the data for level and user, backup the three files
- → Lmaster.cds, Ldetail.cds, Attribute.cds



## 1.12 *ip*LDK Utilities

### Description and how to program

PC Admin includes some utilities. User can download the database of MPB using this utility. Detail information is described in user guide. In this section, some information will be explained for connection type.

### Included Utilities

- *ip*LDK DB download / Upload software
- *ip*LDK remote upgrade software.
- *ip*LDK Remote diagnostic software
- *ip*LDK Speed editor
- Other utilities are linked with PC Admin software directly because they have strong relation ship with PCADM. So, user just selects the menu to use them. But Speed Editor has different characteristic. Some user doesn't want to use this utility and some user want to use it. So. *ip*LDK PC Admin supports option for this speed editor. If user want to link speed editor with PCADM, select [***ip*LDK Utility**] → [***ip*LDK Speed Editor Path**] to link program. Then you can link the path of which speed editor was installed. After assigning path, you just select the menu [***ip*LDK Utility**] → [***ip*LDK Speed Editor**] to run the software.
- If user want to change the path, use the [***ip*LDK Utility**] → [***ip*LDK Speed Editor Path**] menu again.
- How to upgrade these utilities?
- - Only speed editor will be released alone. So, if speed editor is released for update, you just overwrite the new one with old one. Then user can use updated speed editor without additional configuration. But in case of other three utilizes, they will be released with PCADM package normally. But in some special case, each software may be released one by one. (***This is very special case and you don't need afraid for this case.***) Though each software may be released, you just copy the new one with old one.

## 1.13 USB Driver Installation

### Description and how to program

PC Admin can be connected by USB connection to ARIA SOHO system. ARIA SOHO system support USB V1.1 and PCADM can be connected USB cable from PC to the system. If user installs PCADM V3.6Cx, .our USB driver will be copied into Admin directory in PCADM installed directory. When Microsoft Window ask the location of device driver, user should select the location with Admin directory in PCADM installed directory. Then Windows will install our USB driver. Then name are *aria\_soho.inf* and *aria\_soho.sys* and they will be used for USB connection for ARIA SOHO system and PCADM.

### Included driver files

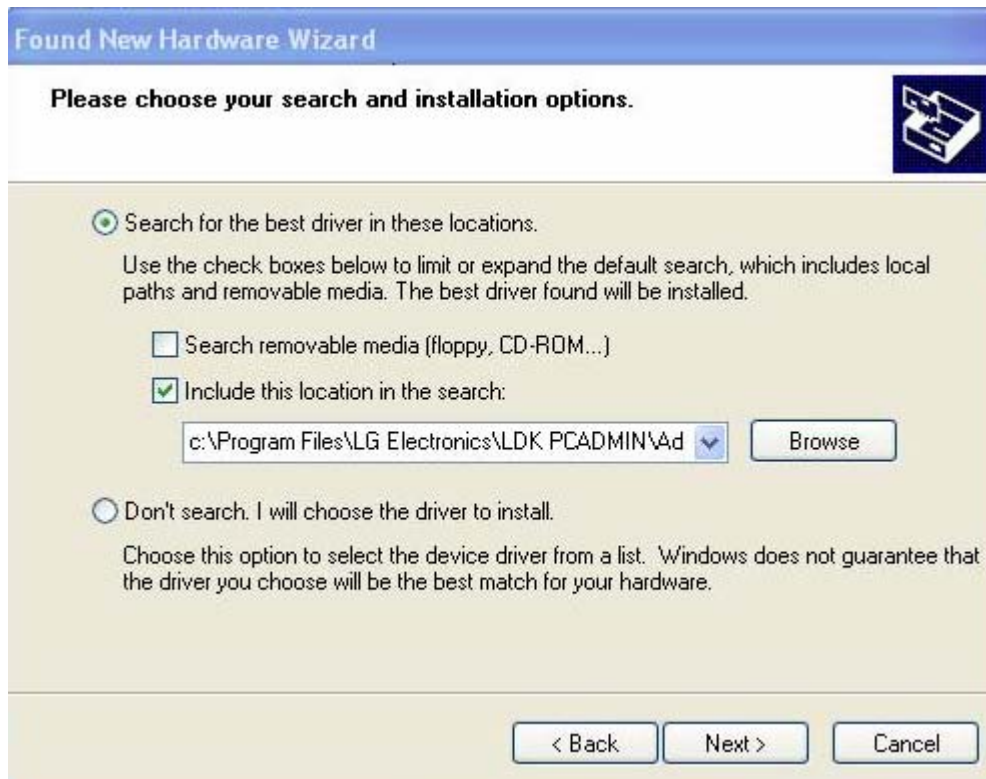
- Aria\_soho.inf
- Aria\_soho.sys
- To install USB device driver, select [Control Panel → System → Hardware → Device Manager].

### Install process with screen capture



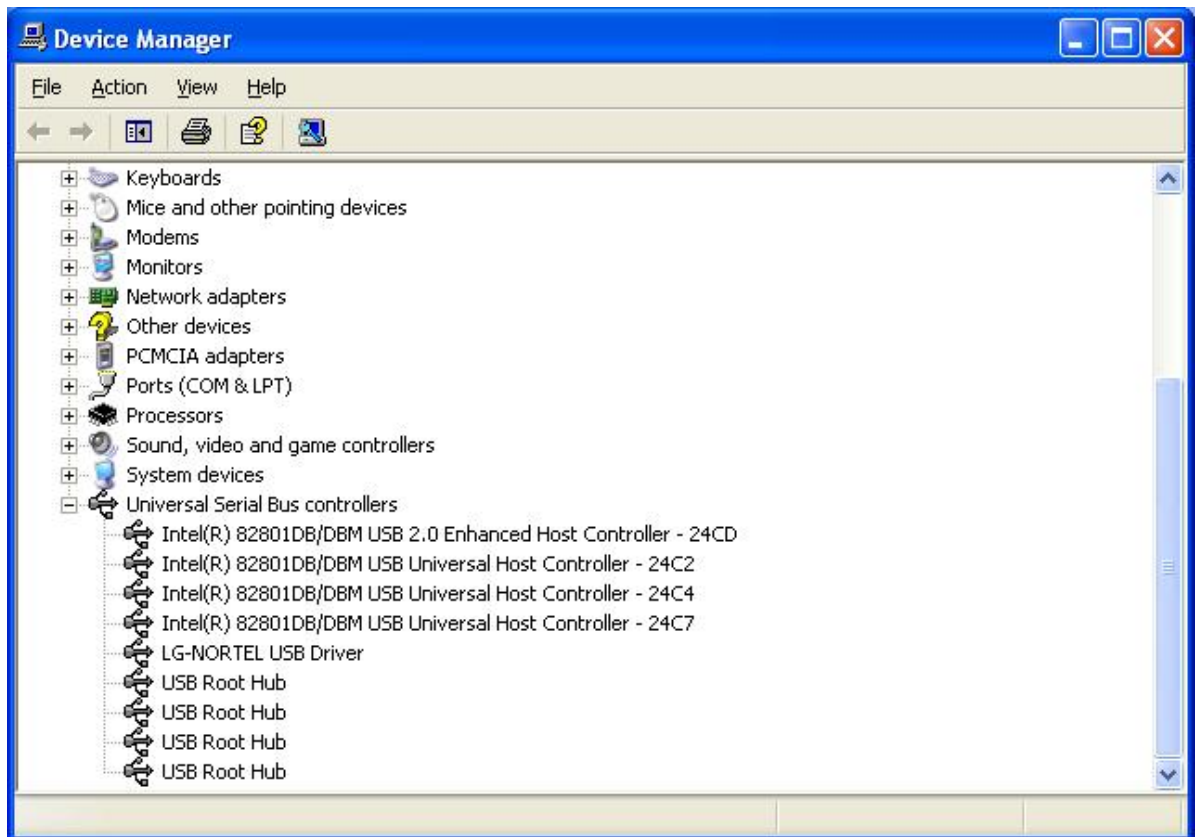
[Figure 1-10] Select kind of installation method.

- In above dialog box, user should select second item “Install from a list or specific location(Advanced)” because user assign the location of driver directly.



[Figure 1-11] Assign the location of USB driver by pressing [**Browse**] button.

- At this time, the location should be the “Admin” directory that is a sub directory in PCADMIN package was installed.



[Figure 1-12] Completed screen of [Device Manager] in the control panel.

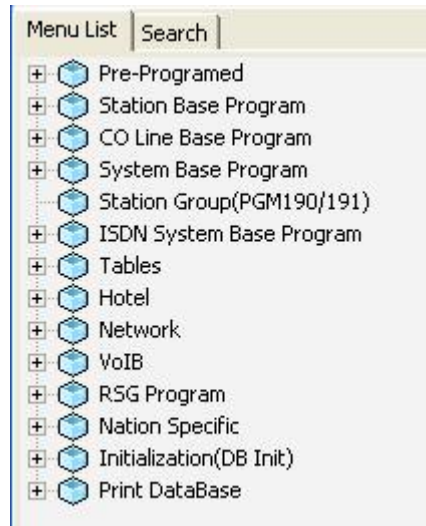
- As you see in above picture, there will be “LG-NORTEL USB Driver” in [Universal Serial Bus Controllers] field. If you see above screen, you can use USB connection with PCADM software.
- Trouble Shooting Guide to USB connection – *Important Information*  
If you encounter the hang up during PCADM usage with USB connection, disconnect the USB cable. Then you will see the message box with “USB Device was disconnected. Check your USB Port...”. If you press [OK] button, PCADM will be initialized.

## <Important Notice>

*This is only for trouble shooting guide with abnormal case. The USB specification doesn't recommend direct disconnection because it may produce unexpected error with OS. So, you should this process with abnormal case only.*

## 2. Pre-Programmed

The ipLDK 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)

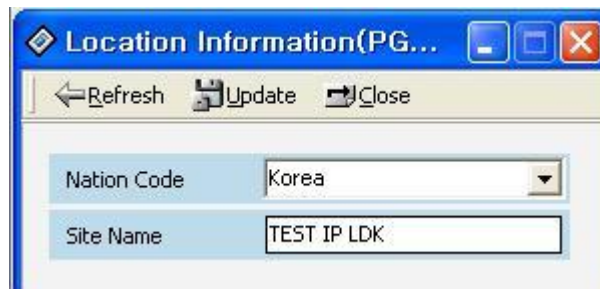
Set up the Nation Code and Customer Site Name. Name code is the same as long distance telephone code. And the site name is the name of your site. This information will be displayed menu title bar automatically when you connected to ipLDK system.



[Figure 2-2] Mainframe window for basic information

## Operation

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



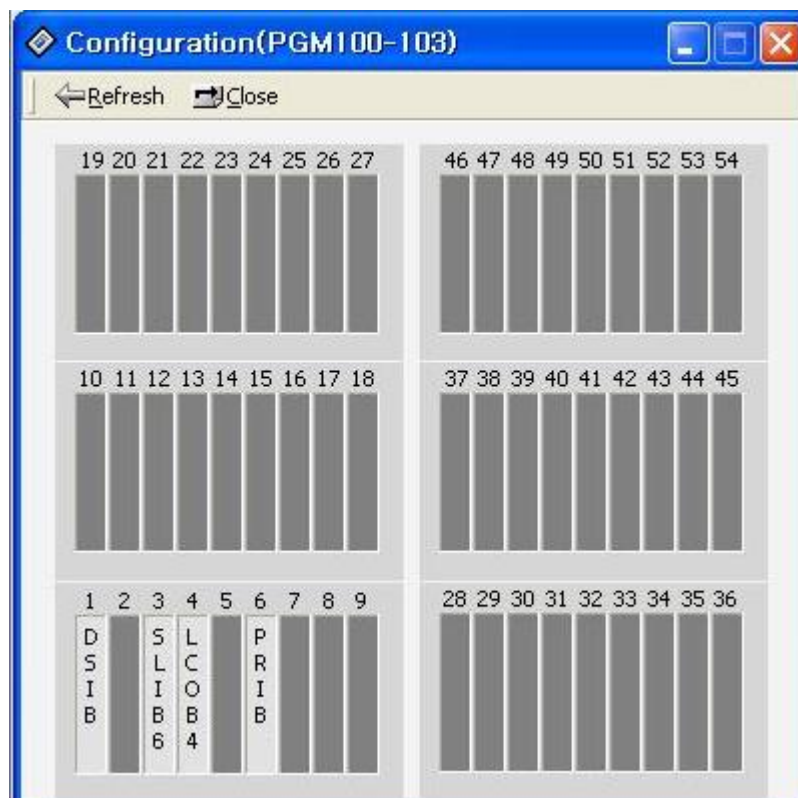
[Figure 2-3] Location Information Setting Window

2. Korea is the default value of Nation Code. You can change the code.
3. ***Before changing Nation Code, you should check the DB Protected by DIP8(4: ipLDK20). If DB Protected is enabled, nation code will not be changed.***
4. After changing the nation code, you have to reset the system. At that time Dip S/W 8 should be located for database protected.
5. You can put any name in [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)

ipLDK system supports 54(ipLDK300E)/27(ipLDK300)/12(ipLDK100)/9(ipLDK20/ARIA SOHO) slots with 6(ipLDK300E) / 3(ipLDK300)/2(ipLDK100)/1(ipLDK20/ARIA SOHO) lacks. (*This screen will not be displayed when you are connecting to ARIA SOHO system.*)

This program assigns each slot to one type of the boards. Slot Assignment is possible by the system automatically, or by the PC Admin program manually. If the Dipswitch is off, the system automatically senses the board. If the Dipswitch is on, you have to assign each board to which slot it is placed. And reset the system. The PC Admin software shows the same shape GUI type for slot configuration. Below is the example of ipLDK-300E system.

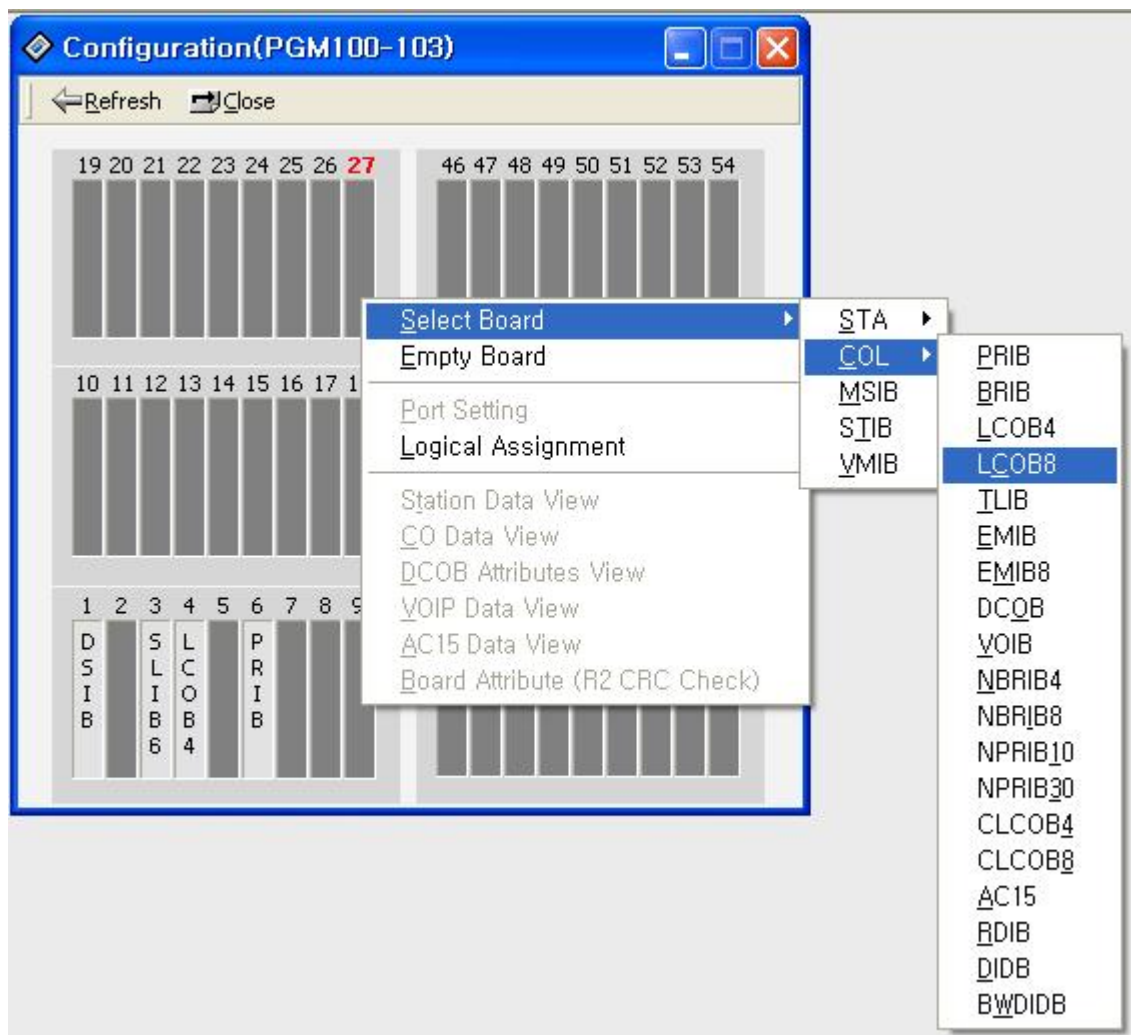


[Figure 2-4] Configuration Window(Ex: ipLDK300E)

### Operation

1. Click [**Configuration**] with popup menu. Then you can find the small window like above. The window is GUI type and will be displayed with correct slot number automatically.
2. With this window, you can add/delete slots by GUI screen and mouse operation. If you want to add or delete slot, click right button of mouse. Then you will see sub menu like below.





[Figure 2-5] Rack Slot Assignment Setting Window

3. The dialog above shows DSIB 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.
4. *When you use this feature, you can't modify the logical port number except PRIB.*
5. *When you assign the PRIB, you can select the logical port number that you want. But it has range from 0 to 30 ports.*
6. *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.*
7. And if you want to see attribute of installed slot, you can select the "View" menu in above window.
8. *From V3.0Ba, When user select [Empty board] confirmation window will be displayed and will ask once more avoiding mistake.*



## **2.3 WTIB Port number Assign(PGM102)–Not available with *ip*LDK20 and ARIASOHO**

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(*ip*LDK300/600) / 80 (*ip*LDK100)**

You can configure WTIB port with the **[port setting]** menu in slot configuration screen.

### **Operation**

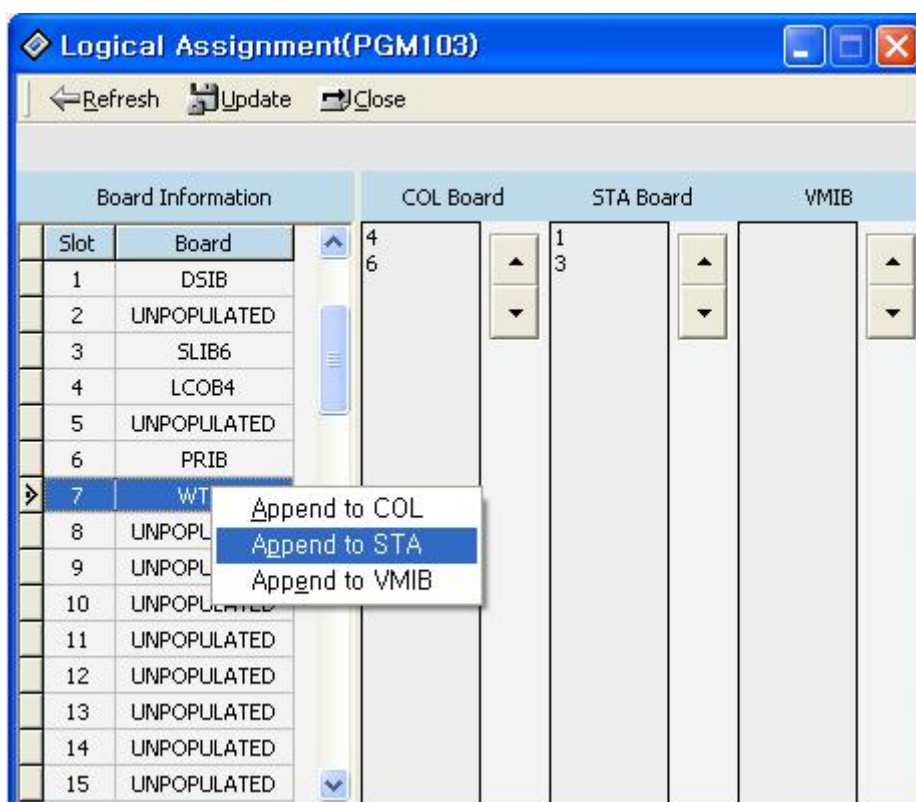
1. Select the WTIB slot in configuration window.
2. Click **[Port Setting]**. Then you will see the port information with another small dialog box. With that window, you can select the port that you want to install.
3. You can register up to **192(*ip*LDK300/600) / 80(*ip*LDK100)** DECT handset. (The number is always a multiple of 8)
4. It is available via combo box list. So, you have to do select the number in the list and press the Apply button.
5. In this feature, you can't edit the port number. It is fixed values.

## **2.4 Logical Slot Assignment (PGM 103) – Not available with ARIA SOHO**

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 Dipswitch 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 dipswitch status.

## Operation

1. Select the **[Logical Assignment]** in Rack Slot Assignment Setting Window (Figure 2-3-1). If any board is preset automatically by the system, it shows the boards on the dialog box.
2. Add the slot to location if right side. If you select the Station board, you should enter the slot to station window.
3. If you want to change the order of slots, use **[Up]** and **[Down]** button to change the order of the boards
4. After editing, press **[Update]** button to save change values.
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.*
7. *In the case of VOIBE, if you select VOIBE slot into any type of COL/STA type, it will be added in the other slot type. For example, suppose that you have selected a VOIBE slot in COL board type, the PC Admin software will add the VOIBE slot in STA board type automatically.(From V3 only)*



[Figure 2-6] Logical Slot Assignment Setting Window in ipLDK300

ITEM	DEFAULT	REMARK
COL Board	-	DIP ON: Manually DIP OFF: Automatically
STA Board	-	DIP ON: Manually DIP OFF: Automatically
VMIB	-	DIP ON: Manually DIP OFF: Automatically

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

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

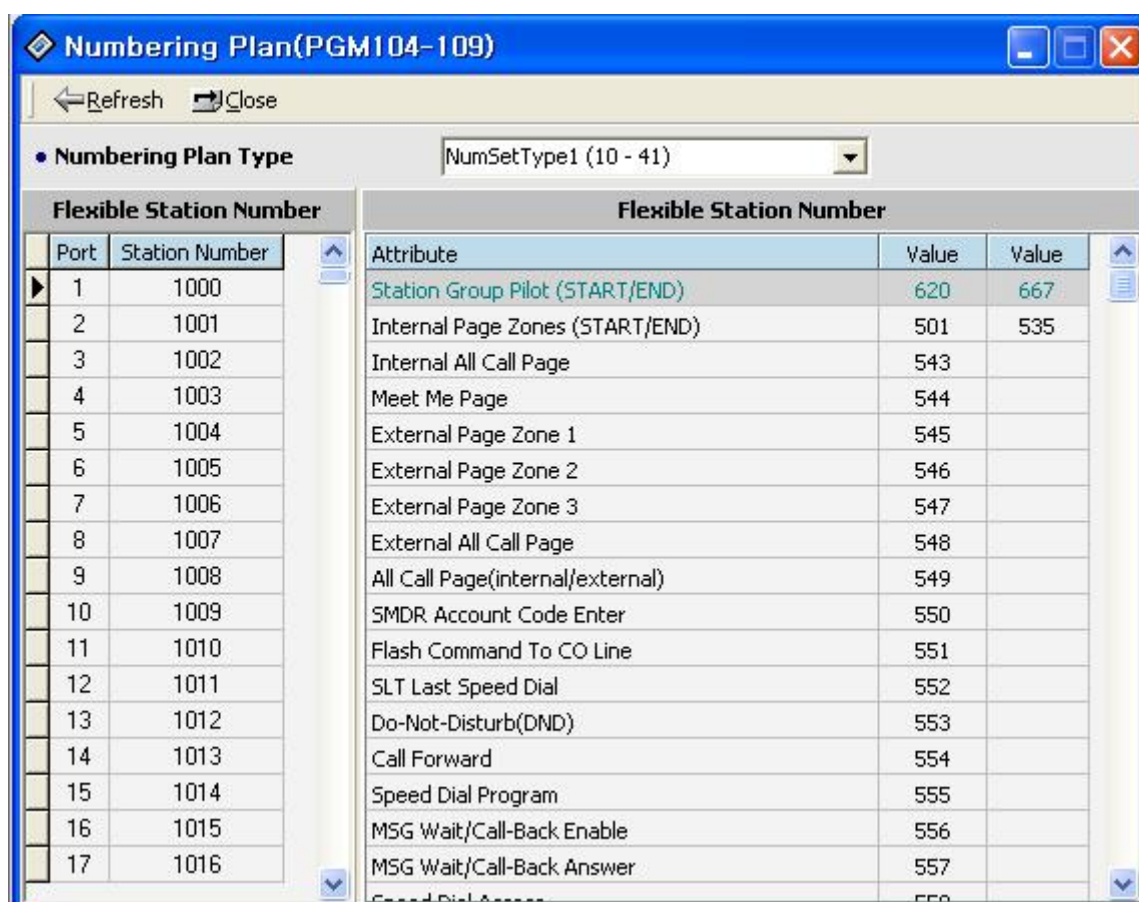
The default range of the station number is from 100 to **599**(ipLDK300E) / **399**(ipLDK300) / **227**(ipLDK100) / **28**(ipLDK20) / **151**(ARIA SOHO). You can change the range according to the nation or your style. But there is information that you have to remember.

< 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 misoperation in checking the range.*

### Operation

1. Click [Numbering Plan] menu in left main menu. Then you will see the below screen.
2. With this window, you can program all kind of numbering plan.
3. User can change the station range from any position.(From PCADM V3)
4. *From V3.0Ba, when user select [All Station Delete] confirmation window will be displayed and will ask once more avoiding mistake.*



[Figure 2-7] Numbering Plan type Setting Window

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

ITEM	INTERCOM RANGE	DEFAULT	REMARK
Number Set Type 1	1000 – 1599( <i>ipLDK600</i> ) 100 – 399( <i>ipLDK300</i> ) 100 – 227( <i>ipLDK100</i> ) 10 – 37( <i>ipLDK20</i> ) 100 – 151( <i>ARIA SOHO</i> )	Yes	As the basic type, the 1 <sup>st</sup> digit of station number should be 1 – 4.
Number Set Type 2	1000 – 1599( <i>ipLDK600</i> ) 100 – 399( <i>ipLDK300</i> ) 100 – 227( <i>ipLDK100</i> ) (100 – 799) 10 – 37( <i>ipLDK20</i> ) 100 – 151( <i>ARIA SOHO</i> )	No	The station number can be changed within 799.
Number Set Type 3	1000 – 1599( <i>ipLDK600</i> ) 100 – 399( <i>ipLDK300</i> ) 100 – 227( <i>ipLDK100</i> ) 10 – 37( <i>ipLDK20</i> ) 100 – 151( <i>ARIA SOHO</i> )	No3	Australia Default
Number Set Type 4	7000 – 7599( <i>ipLDK600</i> ) 700 – 999( <i>ipLDK300</i> ) 700 – 827( <i>ipLDK100</i> ) 700 – 727( <i>ipLDK20</i> ) 700 – 751( <i>ARIA SOHO</i> )	No	New Zealand Default
Number Set Type 5	2000 – 2599( <i>ipLDK600</i> ) 200 – 499( <i>ipLDK300</i> ) 200 – 295( <i>ipLDK100</i> ) 200 – 227( <i>ipLDK20</i> ) 200 – 251( <i>ARIA SOHO</i> )	No	Italy Default
Number Set Type 6	10 – 79 ( <i>ipLDK600/300/100</i> ) 10 – 37( <i>ipLDK20</i> ) 10 – 61( <i>ARIA SOHO</i> )	No	Max Station Ports:60 Station above max ports will be displayed "****"
Number Set Type 7	1000 – 1299( <i>ipLDK600</i> ) 100 – 299( <i>ipLDK300</i> ) 100 – 227( <i>ipLDK100</i> ) 100 – 127( <i>ipLDK20</i> ) 100 - 151( <i>ARIA SOHO</i> )	No	Max Station Ports:200 Station above max ports will be displayed "****"
Number Set Type 8	1000 – 1599( <i>ipLDK600</i> ) 100 – 399( <i>ipLDK300</i> ) 100 – 227( <i>ipLDK100</i> ) (100 – 999) 10 – 37( <i>ipLDK20</i> ) 100 – 151( <i>ARIA SOHO</i> )	No	The station number can be changed within 999.

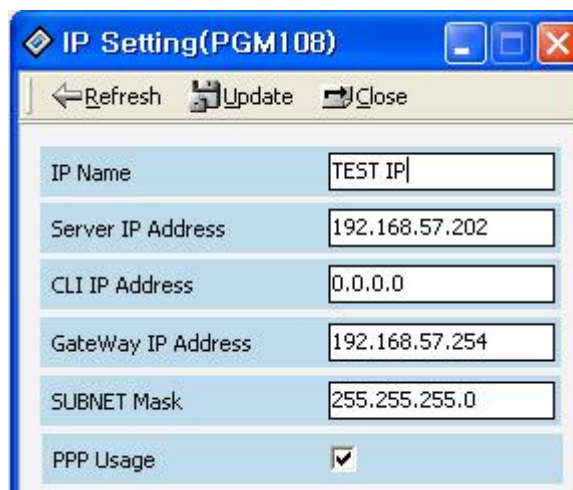
[Table 2-2] Flexible Numbering Plan for *ipLDK* (PGM 104)

## 2.6 IP Setting (PGM 108)

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

### Operation

1. Select [IP Setting]. Default values are displayed.
2. IP Name has no meaning at all. You put it within 15 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 ipLDK-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 ipLDK-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.



[Figure 2-8] 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 ipLDK system using PC Admin software from remote site(not your network) without network administrator's help.*

## **2.7 Board Attributes (PGM 155) – Not available with *ip*LDK20 and ARIA SOHO**

You can program the board attributes of equipped board  
**Operation**

1. **[Configuration] → [Select slot] → [Board Attribute(R2 CRC Check)]**.
2. If you select the slot number, then R2 CRC Check data will be displayed.
3. If selected board is not DCOB12, there will be displayed message box that says “The selected slot is not DCOB12.”. And there will not be displayed anything. (*From PCADM 3.1Aa*)

### 3. Station Base Program

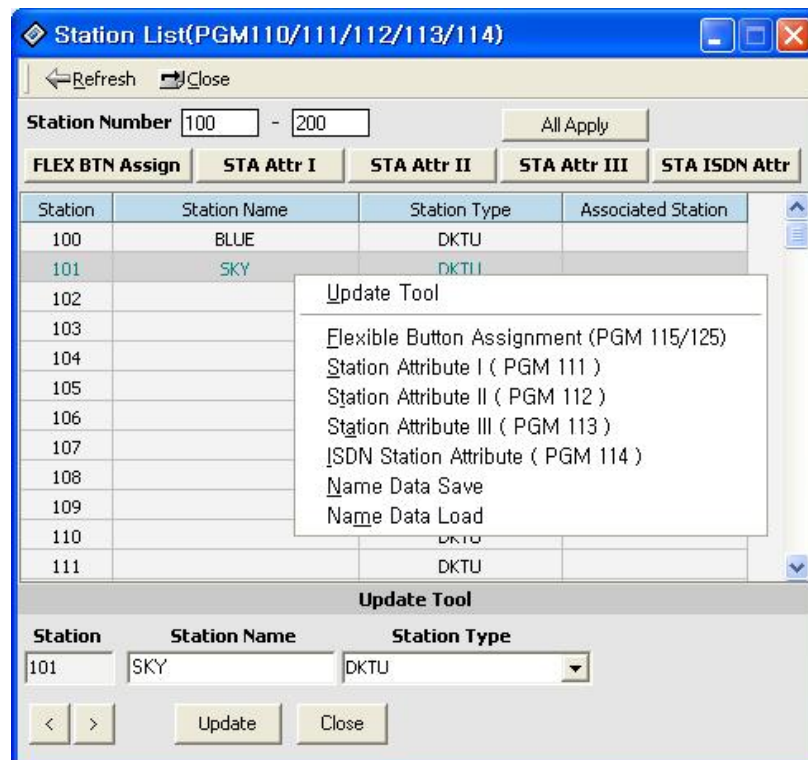
Use Station Base Program to change any station related function. Station Base Program items are from PGM 110 to PGM 124. When you use station base program items, you should enter the station range same as keyset admin.

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

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

##### Operation

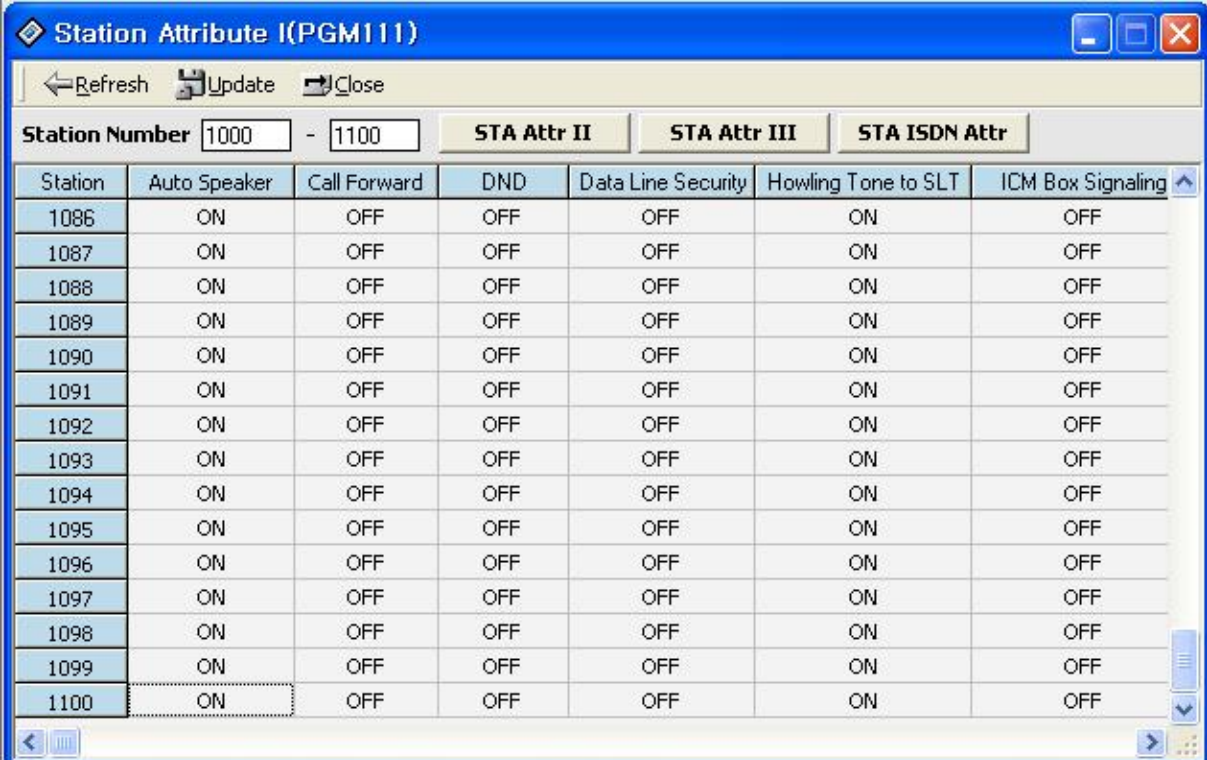
1. Click [Station List].



[Figure 3-1] Station List Window

2. Click right button for other programming.
3. Select the menu that you want to change. Then you will see each different window for menu that you selected.
4. For example, below window displays station attribute I (PGM111).
5. [All Apply] can be used when you want to all update.
6. [Name Data Save] can be used when you want to save. ('Station Name')
7. [Name Data Load] can be used when you want to load from saved file.( The file should be created by calling the [Name Data Save] feature ).

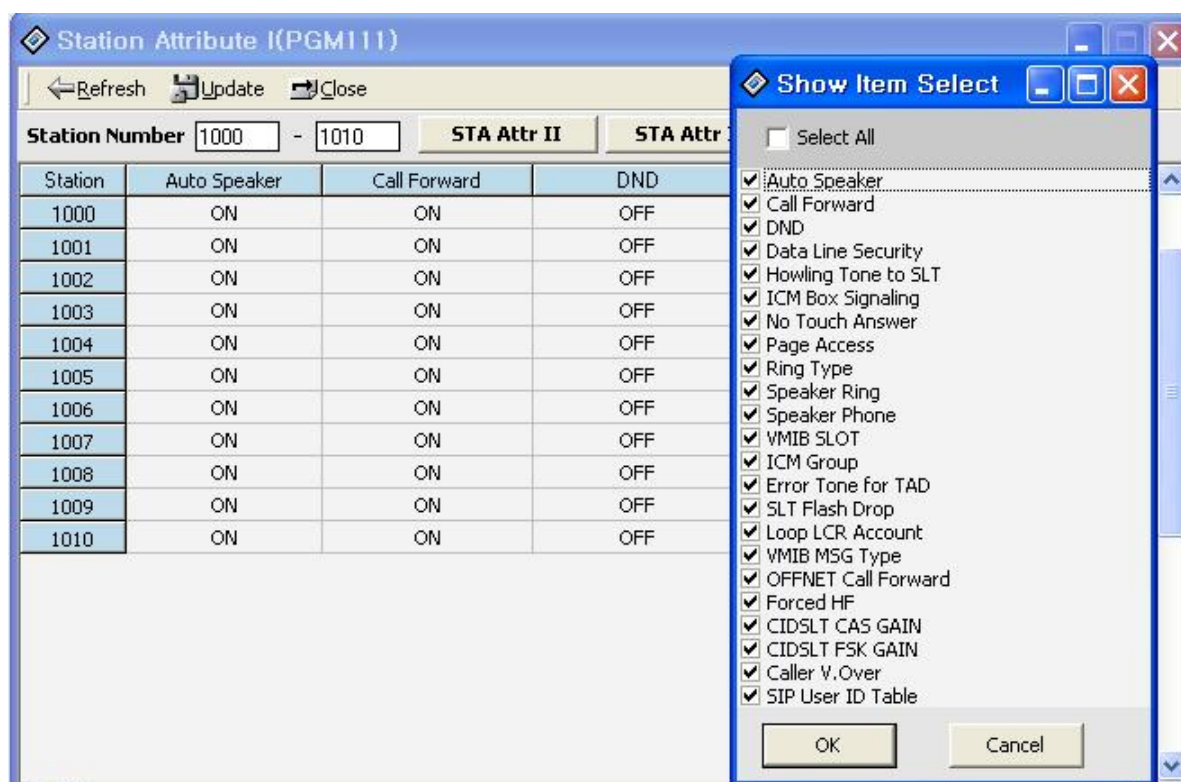




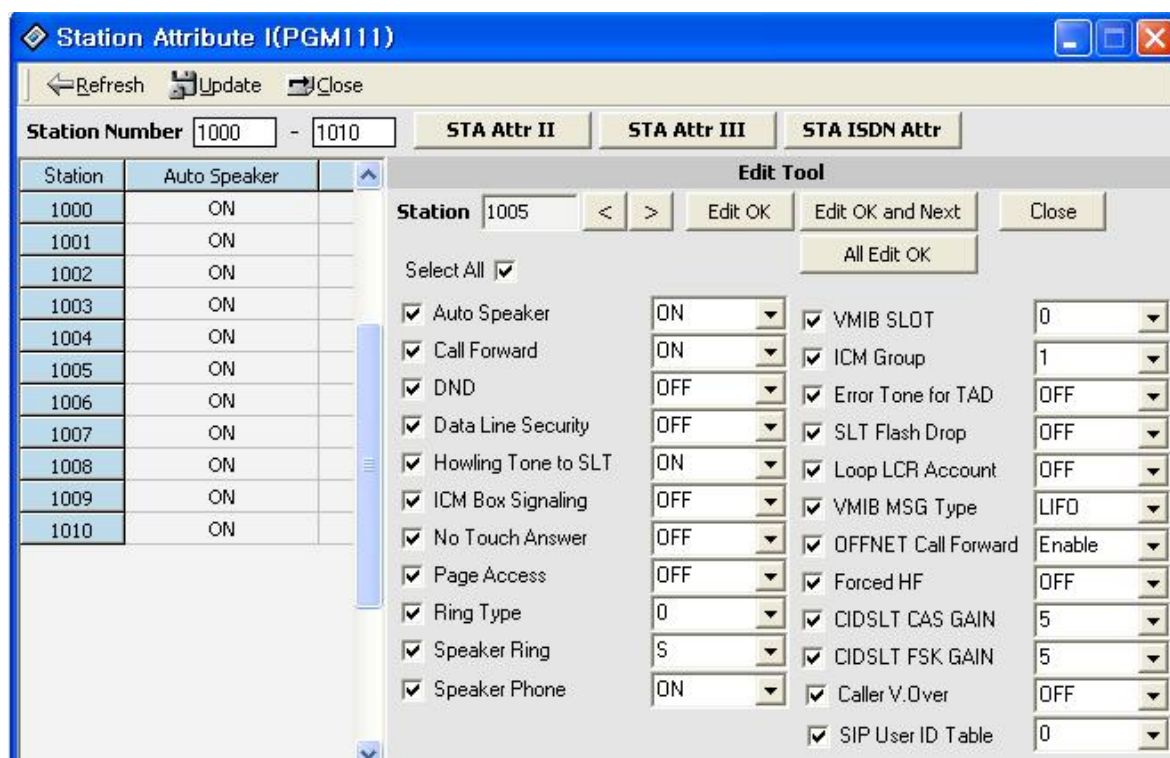
Station	Auto Speaker	Call Forward	DND	Data Line Security	Howling Tone to SLT	ICM Box Signaling
1086	ON	OFF	OFF	OFF	ON	OFF
1087	ON	OFF	OFF	OFF	ON	OFF
1088	ON	OFF	OFF	OFF	ON	OFF
1089	ON	OFF	OFF	OFF	ON	OFF
1090	ON	OFF	OFF	OFF	ON	OFF
1091	ON	OFF	OFF	OFF	ON	OFF
1092	ON	OFF	OFF	OFF	ON	OFF
1093	ON	OFF	OFF	OFF	ON	OFF
1094	ON	OFF	OFF	OFF	ON	OFF
1095	ON	OFF	OFF	OFF	ON	OFF
1096	ON	OFF	OFF	OFF	ON	OFF
1097	ON	OFF	OFF	OFF	ON	OFF
1098	ON	OFF	OFF	OFF	ON	OFF
1099	ON	OFF	OFF	OFF	ON	OFF
1100	ON	OFF	OFF	OFF	ON	OFF

[Figure 3-2] Station Attribute Display Window

8. You can see all attributes by pressing **[STA Attr II]**, **[STA Attr III]**, **[STA ISDN Attr II]** buttons for your purpose. And you can select the items that you want to see.
9. If you click right button of mouse, then you will see the view option window like below. If you want to see, check the check box in this window. Then PC Admin will display attributes that you have selected.
10. To edit the attribute, click the right button of mouse and select the **[Edit]** menu. Then you will see the edit window and you can edit the attributes.
11. After editing, press **[Update]** button for saving the changed values.



[Figure 3-3] Station Attributes and view option window



[Figure 3-4] Station Attributes and update window

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	0 – 4	0	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. <b>Not used in ipLDK20 and ARIA SOHO</b>
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
Loop LCR Account Code	ON/OFF	OFF	Check Account Code at Loop LCR <b>(Except AUS_TELSTRA)</b>
VMIB Message Type	FIFO/LIFO	LIFO	Priority to play VMIB message
Off-net Call Forward	EN/DIS	EN	The possibility to enable/disable Off-net call forward
Forced HF	ON/OFF	OFF	Forced Handfree configuration (from V3)
CIDSLT CAS Gain	0-20	0	CIDSLT CAS Gain setting(0~20), <b>Not used in ipLDK20 and ARIA SOHO</b>
CIDSLT FSK Gain	0-20	0	CIDSLT CAS Gain setting(0~20), <b>Not used in ipLDK20 and ARIA SOHO</b>
Caller V.Over	ON/OFF	OFF	Caller Voice Over option(ON/OFF) from V3.2Aa <b>from V2.1Aa in ipLDK20</b>
SIP User Bin	00	0~32	Added from ipLDK V3.6, PCADM V3.6 <b>Not used in ARIA SOHO</b>

[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 Call Mode	EXT/ALL	ALL	ALL : Internal Offnet Call Fwd and External Offnet Call Fwd are allowed. EXT: External Offnet Call Fwd is only allowed
UCD Service Grp	ON/OFF	OFF	When DID/DISA call destination is STA, ON: ring to UCD Grp which the station belongs to. OFF: ring to the station.
Ring Service Grp	ON/OFF	OFF	When DID/DISA call destination is STA, ON: ring to Ring Grp which the station belongs to. OFF: ring to the station.
Stop Camp On Tone	ON/OFF	OFF	Make Camp on Tone not to be heard.
Line Length	SHORT / LONG / FAR	SHORT	Line Lench . (TELKOM only) (From MPB 2.0As, PC ADM : 2.0Ba)
MSG SCRL SPD	0 – 7	3	Scroll speed when a broadcasting message is displayed. (Only for LKD-30DH, Korea only)
Block Back Call	ON/OFF	OFF	To prevent unattended recalling, 1 <sup>st</sup> CO line will be disconnected if SLT seize 2 <sup>nd</sup> CO line with FLASH.
I-Time RST	ON/OFF	OFF	Internal RST
Stn Auth Chk	ON/OFF	OFF	Station authentication check(SA Only)
CID Type 2	ON/OFF	OFF	CID Type check (from V3)
Door Open	ON/OFF	OFF	Door open enable (from V3)
Dummy Stn	ON/OFF	OFF	Dummy Station Usage(from V3)
Emergency Supervisor	ON/OFF	OFF	Italy Request, V3.6

[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(ipLDK-300)</b> <b>Alarm MPB(ipLDK-100)</b> <b>Alarm BKSU(ARIA SOHO)</b>
	Flex BTN 2 ON/OFF	OFF	<b>Alarm RAU 1(ipLDK-300)</b> <b>Alarm MISB(ipLDK-100)</b> <b>Alarm EKSU(ARIA SOHO)</b>
	Flex BTN 3 ON/OFF	OFF	Alarm RAU 2(Only for ipLDK-300)
	ON/OFF	OFF	<b>Mute Ring Service configuration.(From V3.5)</b>
	ON/OFF	ON	<b>If the timer is expired, call is released and user hears disconnect tone.</b> <b>(Only for ARIA SOHO)</b>
Mute Ring Service Call Cut Off Timer			
Barge In Mode	0- 2(OFF/Monitor/ Speech)	0(OFF)	<b>Monitor Mode:</b> <b>The intruding extension can listen to the existing conversation but cannot participate.</b> <b>Speech Mode:</b> <b>The intruding extension can listen to and join to the existing conversation.</b> <b>(Only for ARIA SOHO)</b>

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

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. 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. 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 (Except ARIA SOHO)
KEYPAD FACILITY	KEYPAD /DTMF	DTMF	This field determines that ISDN station sends digit in DTMF or keypad facility after connected. (Except ARIA SOHO)
LONG/SHORT	LONG /SHORT	SHORT	This field determines that ISDN station acts in Short passive mode or not.. (Except ARIA SOHO)
CPN TYPE	0-2	0	This field indicates how the CPN IE is filled in SETUP message. 0: Do not sent CPN(Called Party Number) to S0. In this case, all S0 STA of the S port will be ringing. 1: Send station number as CPN 2: Bypass the CPN from the network. (In the case of 1 & 2, only one specific STA will be ringing) (Except ARIA SOHO)
S0 SUB ADDRESS	0-2	0	This field indicates how the sub-address used in SETUP message. 0: Station sub-address not used. 1: Sub-address is filled in the CPN field of SETUP message. 2: Sub-address is filled in the CPSN(Called Party Sub-address Number) field of SETUP. (Except ARIA SOHO)
TEI Type	AUTO/FIXED	FIXED	To Select TEI Type Fixed, Automatic (Except ARIA SOHO)
DISA Restriction	ON/OFF	OFF	If this value is set to ON, the station is restricted to receive the DISA incoming call.
CLI NAME DISPLAY	ON/OFF	OFF	If this field is ON, the system check whether the received CLI is matched with the speed dial data or not. If they are matched, the speed dial name is displayed.



ITEM	RANGE	DEFAULT	REMARK
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. (Except ARIA SOHO)
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. (Except ARIA SOHO)
ISDN CLIR	ON/OFF	OFF	If this field is ON, does not send CLI Information and restrict PX send it. (Except ARIA SOHO)
ISDN COLR	ON/OFF	OFF	If this field is ON, does not send CLI Information and restrict PX send it. (Except ARIA SOHO)
DID Restriction	ON/OFF	OFF	Restrict the DID Call (Except ARIA SOHO)
DID Call Wait	ON/OFF	OFF	New DID Call waiting indicate (Except ARIA SOHO)
CLI Type	LNG/SRT	SRT	<b>Long:</b> Use station CLI with PGM114-BTN19. (max 12) <b>Short:</b> Use station CLI with PGM114-BTN12 (max 4) (Except ARIA SOHO)
Long Station CLI	Max 12 digit	Logical STA No.	If outgoing CLI is active and CLI type is EXT, this field used when making outgoing CLI. (Except ARIA SOHO)
MSN Wait	ON/OFF	OFF	New virtual MSN call waiting enable. (Except ARIA SOHO)
Long CLI 1	Max 16 digit	Long CLI 1	<i>ipLDK</i> :Added from V3.2Ab(MP), 3.2Aa(PC) <i>ipLDK20</i> : Added from V2.1Aa(MP),3.2Ba(PC) (Except ARIA SOHO)
Long CLI 2	Max 16 digit	Long CLI 2	Added from V3.2Ab(MP), 3.2Aa(PC) <i>ipLDK20</i> : Added from V2.1Aa(MP),3.2Ba(PC) (Except ARIA SOHO)

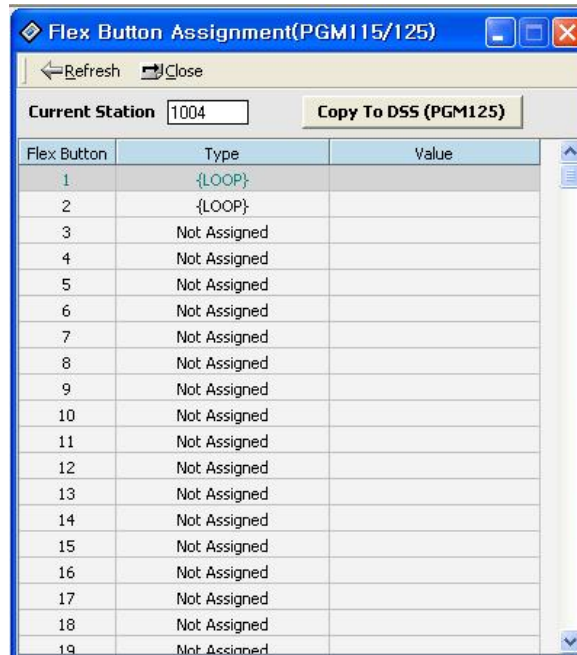
[Table 3-4] ISDN Station Attributes (PGM 114)

### 3.2 Flex Buttons Assignment (PGM 115)

This feature is to enable programming flexible button and copy feature(PGM 125). If you select the [Flexible button assignment] from popup menu, you can see the configuration window.

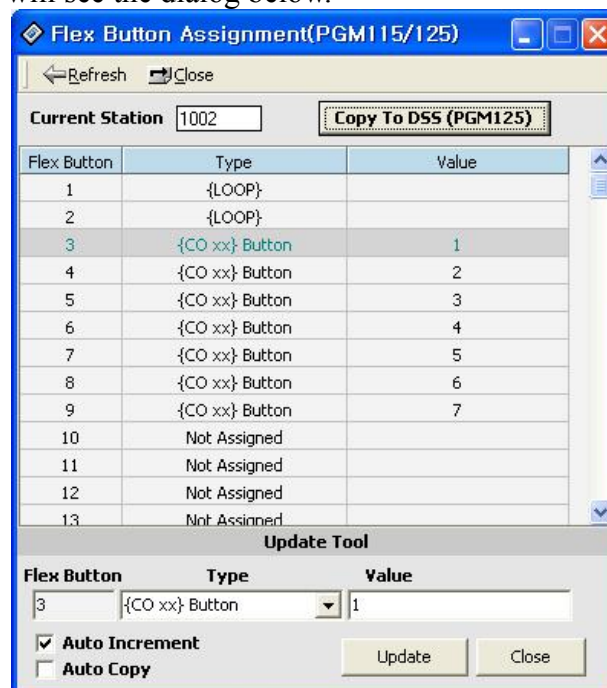
#### Operation

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



[Figure 3-5] Flexible button 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 3-6] Flexible button assignment Window(Updating)



4. Refer to the table below, and select the type and data in the update tool. Pressing [Update], 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.**
6. [Auto Increment] means that user don't need select next index. If this field is enabled and user press [Update] button, PCADM will increase the Flex button index automatically. So, user can continue the button PGM without moving cursor to next index.(From V3 Only)
7. [Auto Copy] :If this field is enabled, user can copy of some button to another button without deleting and reprogramming same data. For example, suppose that BTN10 has station 1000 and user want to move this PGM to BTN 11. Then select Flex Button 10 and press [Update] button with enabled [Auto Copy]. Then PCADM and MPB will delete the Flex Button 10 and save same data in Flex Button 11. Duplication will be available with some PGM(Ex:Loop button) and some PGM will not be allowed because the decision is depend on MPB validation.
8. [Auto Increment] and [Auto Copy] are exclusive. So, user can select only one at one time.

No.	Type	RANGE					REMARK
		<i>ip</i> LDK-300E	<i>ip</i> LDK-300	<i>ip</i> LDK-100	<i>ip</i> LDK-20	ARIA SOHO	
1	User Button						User can program by button programming procedure. (empty)
2	{CO xx} Button	001 – 400	001 – 200	01 – 40	01 – 12	01 - 12	CO Line
3	{CO Grp xx}	01 – 72	01 – 72	01 – 24	01 – 08	01 - 08	CO Group
4	{LOOP}	Loop Button					
5	{STAxxxx}	1000 – 1599	100 – 399	100 – 227	10 – 37	100 - 151	Station No.
6	STA PGM Button	11 – 99					
7	{STA SPDxx}	00 – 99	00 – 99	00 – 99			Station Speed Bin
8	{SYS SPDxxxx}	2000 –6999	2000 –4999	2000 –3499			System Speed Bin
9	Num Pln Button	Num Plan Code					
10	Net DSS Button	Net DSS number checked by MPB					When using Networking feature
11	MSN Button	MSN Number is programmed by PGM202					MSN Number that is registered in PGM202.

[Table 3-5] Available Information for Flex Button Assignment

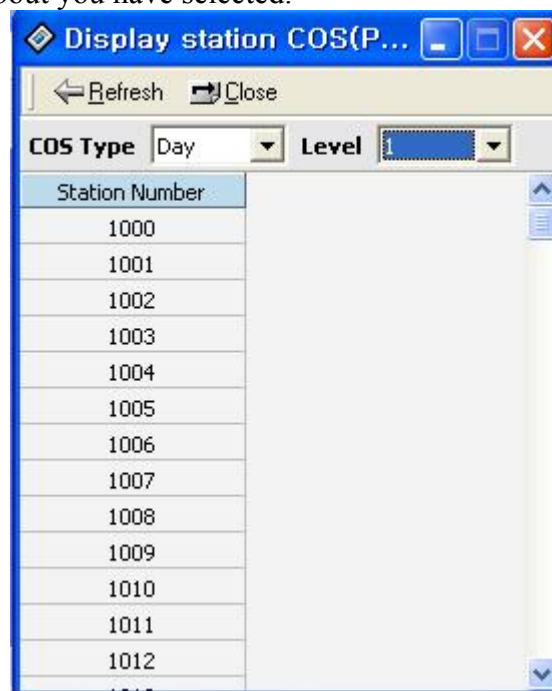
## 3.3 Station COS (PGM 116)

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 1 for the day and night operation. The weekend COS is same as night COS.

### Operation

1. Click **[Display Station COS]**.
2. For day and Night you select a station COS, and press [Refresh] button. You can see the COS information about you have selected.



[Figure 3-7] Station COS Assignment Window and update window.

3. To update the COS level, select [update] button in popup menu. Then you see the below window for changing value.
4. With this window, you can edit one station or station range. After entering the values, press [Update] button to save the changes.

The screenshot shows a window titled "Display station COS(P...)" with a "Refresh" button and a "Close" button. Below these are two dropdown menus: "COS Type" set to "Day" and "Level" set to "1". A table lists station numbers from 1000 to 1012. To the right of the table is an "Update Tool" panel. This panel contains a "Station" text field, two "Day COS" and "Night COS" dropdown menus, an "Update" button, and another set of "Start", "End", "Day COS", and "Night COS" fields at the bottom.

Station Number
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1012

**Update Tool**

Station:

Day COS:  Night COS:

Update:

Start:  End:

Day COS:  Night COS:

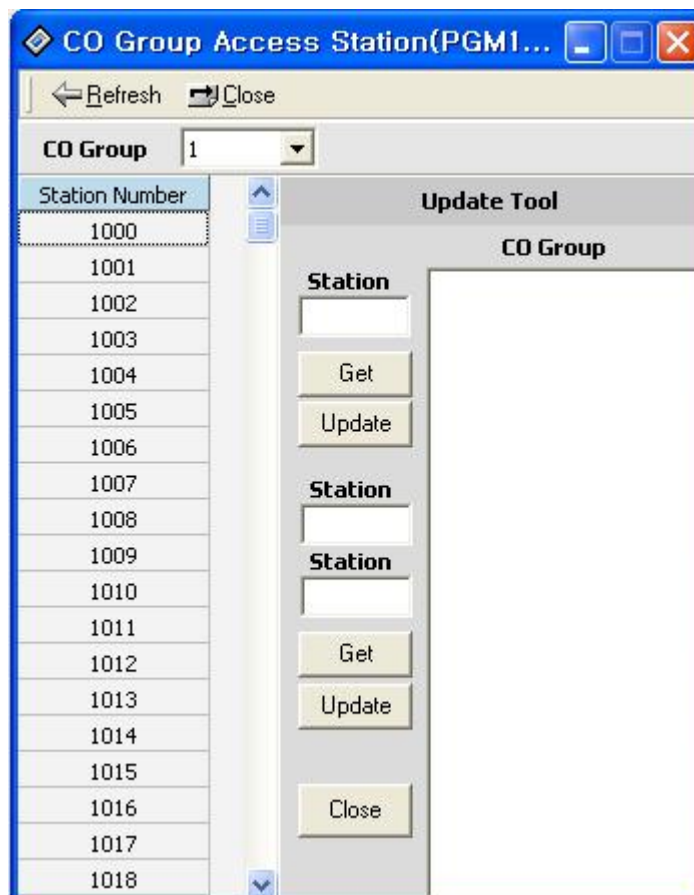
[Figure 3-8] Display Station COS

### 3.4 CO Group Access Station (PGM 117)

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

#### Operation

1. Click [CO Group Access Station]
2. This feature has same operation with Station COS. User can see the accessible group base station list. If user wants to see the stations which is accessible to group 1, select the 1 in group number and press [Refresh] button. Then stations that can access CO group 1 will be displayed. *This feature is added from ipLDK V3.*



[Figure 3-9] CO Line Group Access Setting Window

## **3.5 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 *ipLDK-300/600* system it supports 30 internal paging zones and in *ipLDK-100* system it supports 10 internal paging zones. In ARIA SOHO, it supports 5 internal page zones.

### **Operation**

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

## **3.6 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 *ipLDK-600/300/100* and ARIA SOHO system it supports total 5 conference paging zones.

### **Operation**

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

### 3.7 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 ipLDK-600/300 system, 15 ICM Tenancy Group may exist, so does attendant. In ARIA SOH, 5 ICM Tenancy Group may exist.

#### Operation

1. Click [**ICM Tenancy Group**] then all ICM tenancy group information will be displayed in one screen.
2. Select an ICM Tenancy Group that you want to change and select [**Update**] button in pop menu.

Group	ATD Station	Access Group														
Group	ATD Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		V														
2			V													
3				V												
4					V											
5						V										
6																
7																
8																
9																

Group	ATD Station	<input checked="" type="checkbox"/> Acc Grp 1	<input type="checkbox"/> Acc Grp 6	<input type="checkbox"/> Acc Grp 11
1		<input type="checkbox"/> Acc Grp 2	<input type="checkbox"/> Acc Grp 7	<input type="checkbox"/> Acc Grp 12
		<input type="checkbox"/> Acc Grp 3	<input type="checkbox"/> Acc Grp 8	<input type="checkbox"/> Acc Grp 13
		<input type="checkbox"/> Acc Grp 4	<input type="checkbox"/> Acc Grp 9	<input type="checkbox"/> Acc Grp 14
		<input type="checkbox"/> Acc Grp 5	<input type="checkbox"/> Acc Grp 10	<input type="checkbox"/> Acc Grp 15

[Figure 3-10] ICM Tenancy Group Setting Window

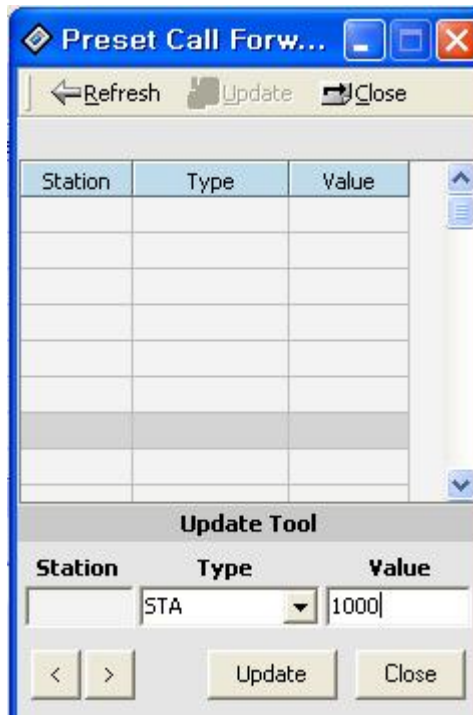
3. Put an attendant station number for the ICM Tenancy Group you have just selected.
4. Click each ICM group check box that you want to access.
5. After all changes press [**Update**] button to save changes.

## 3.8 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**]. Then programmed preset call forward pair will be displayed.
2. If there is no pair data, the window will not display anything.



[Figure 3-11] Preset Call Forward Setting Window

3. To edit the preset forward pair, select [**Update**] menu in popup menu.
4. After entering all data, press [**Update**] button on Update Tool panel.

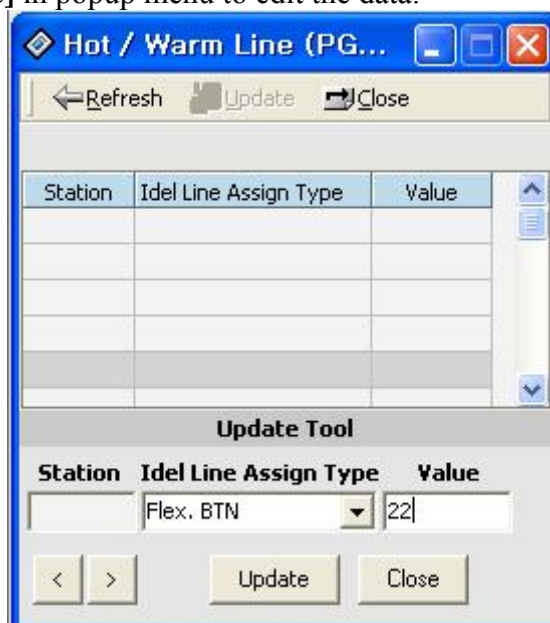
### 3.9 Hot/Warm Line Selection (PGM 122)

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]** then you will see the list of Hot/Warm line programming.
2. If there is no data, the table will display nothing.
3. Select the **[Update]** in popup menu to edit the data.



[Figure 3-12] Hot/Warm Line Selection Setting Window

4. After setting data, press **[Update]** button for saving changes.

ITEM	RANGE	REMARK
Flex. BTN	01 – 48	To activate a feature on a flex button as if pressed.
CO Line	001 – 400( <i>ipLDK600</i> ) 001 – 200( <i>ipLDK300</i> ) 01 – 40( <i>ipLDK100/50</i> ) 01-16( <i>ipLDK20</i> ) 01 – 12( <i>ARIA SOHO</i> )	To seize a CO Line 3.4 <i>ipLDK20</i> : 01~12 Until version 1.0Xx, but 01~16 from version 2.0Aa.
CO Group	01 – 72( <i>ipLDK600/300</i> ) 01 – 24( <i>ipLDK100/50</i> ) 01 – 08( <i>ipLDK20</i> ) 01 – 08( <i>ARIA SOHO</i> )	To seize a CO Line Group
Station	1000 – 1599( <i>ipLDK600</i> ) 100 – 399( <i>ipLDK300</i> ) 100 – 227( <i>ipLDK100/50</i> ) 10 – 37( <i>ipLDK20</i> ) 100 – 151( <i>ARIA SOHO</i> )	To call an another station

[Table 3-6] Available Information for Hot/Warm Line Selection in *ipLDK*

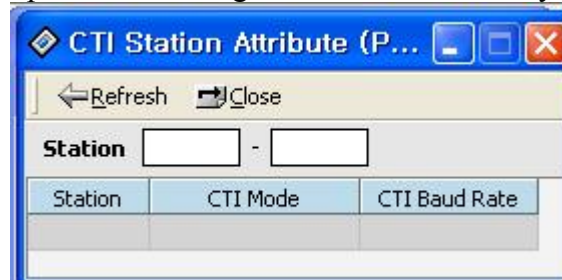


### 3.10 CTI Attribute (PGM 123) – Not available with ipLDK20 and ARIA SOHO

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 3-13] CTI Station Attribute Setting Window

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

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

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

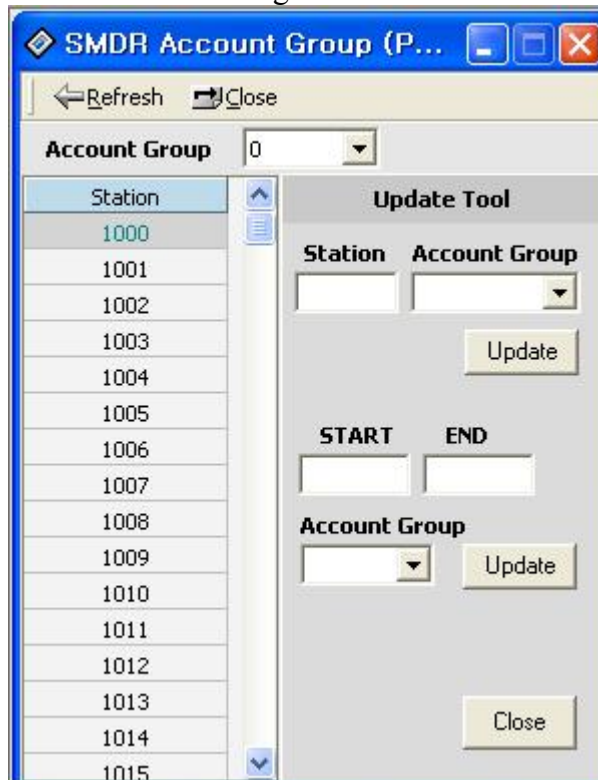
### 3.11 SMDR Account Group (PGM 124)

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** (ipLDK600 / 300) / **24** (ipLDK100 / ipLDK20 / ARIA SOHO) 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 3-14] SMDR Account Group Setting Window

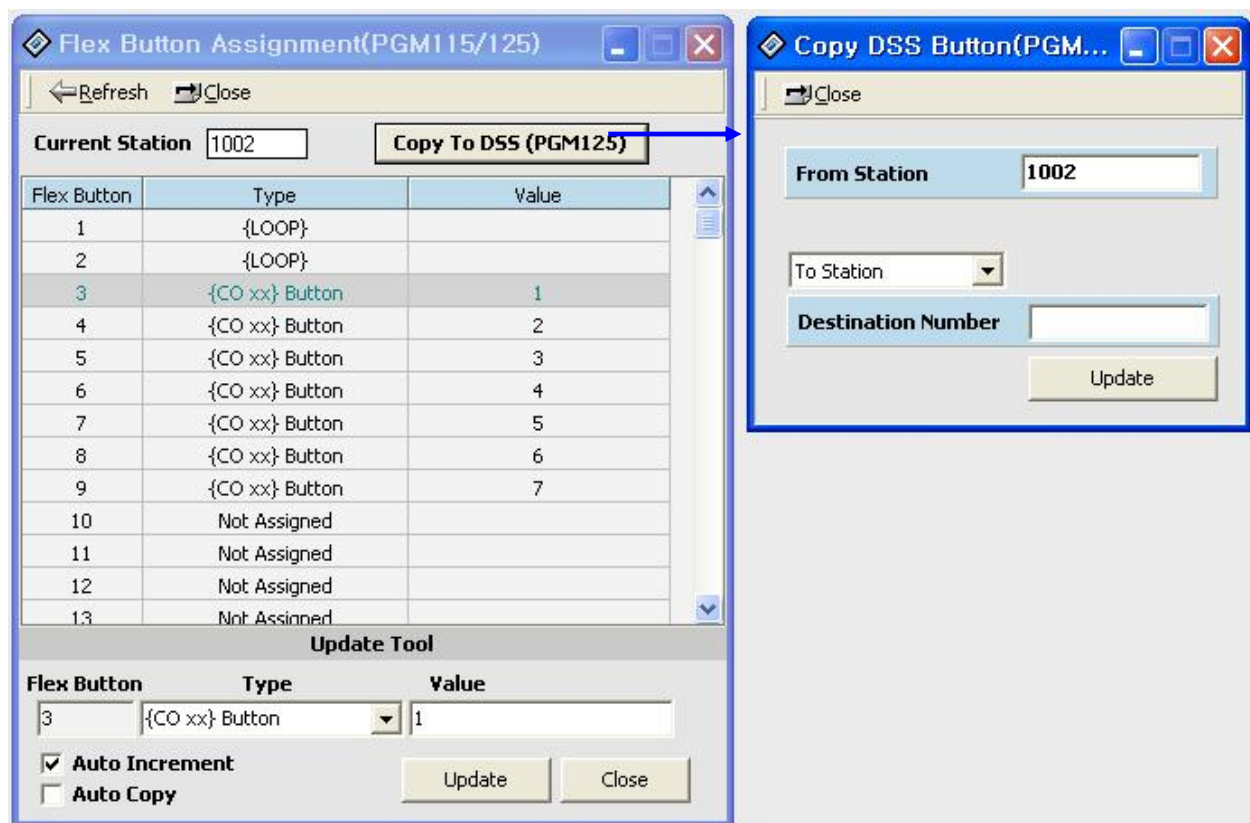
3. Select an account group.

### 3.12 Copy DSS Button (PGM 125) – Added from V2.2

The assigned DSS button of DKTU can be copied to another station or ICM group, and it is not apply to DSS BOX

#### Operation

1. Click [Copy DSS Button].
2. Enter station number , and select the type of destination
3. You can select the two type of destination. One is station and the other is ICM Group.
4. After enter whole data, press [Apply] button to save the data.



[Figure 3-15] Copy DSS Button

### 3.13 Display Station with COS (PGM 130) – Added from V2.2

This feature is linked Station COS PGM116 from ipLDK V3. Refer to PGM116 Station COS Display.

### 3.14 CO Group Access Station (PGM 131) – Added from V2.2

This feature is linked Station COS PGM117 from ipLDK V3. Refer to PGM116 CO Group Access Display.

## 3.15 Station IP List for CTI – Available with only ipLDK20 and ARIA SOHO

This feature is available with only ipLDK20 and ARIA SOHO. ipLDK20 and ARIA SOHO do not support CTIU for CTI link. Instead of CTIU, user can make CTI connection with LAN connection. To use this feature, user should enter the IP address of PC that user want to use CTI. For example, if user uses station 10 and IP address of his is 10.0.0.5 then you should enter the this table with station 10 and IP Address 10.0.0.5.

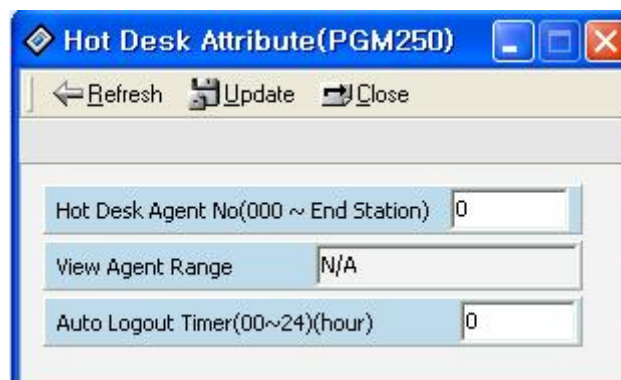
User can enter this mapped table up to max station number of ipLDK20 or ARIA SOHO. But the limitation is depends on the lock key that is installed on ipLDK20 or ARIA SOHO. ***This feature was enabled from Ver.1.0Da.(In ipLDK20)***

## 3.16 Hot Desk Attribute (PGM 250)

This is for configuration of Hot desk that is added from V3.

### Operation

1. [Station Base Program] → [Hot Desk Attribute].
2. User can change only two items in the screen. One is Hot Desk Agent Number and another is AutoLogout Timer. View Agent Range will only display the assigned range by first item. The assigned range will be started from last station.



[Figure 3-16] Hot Desk Programming

## 4. CO Line Base Program

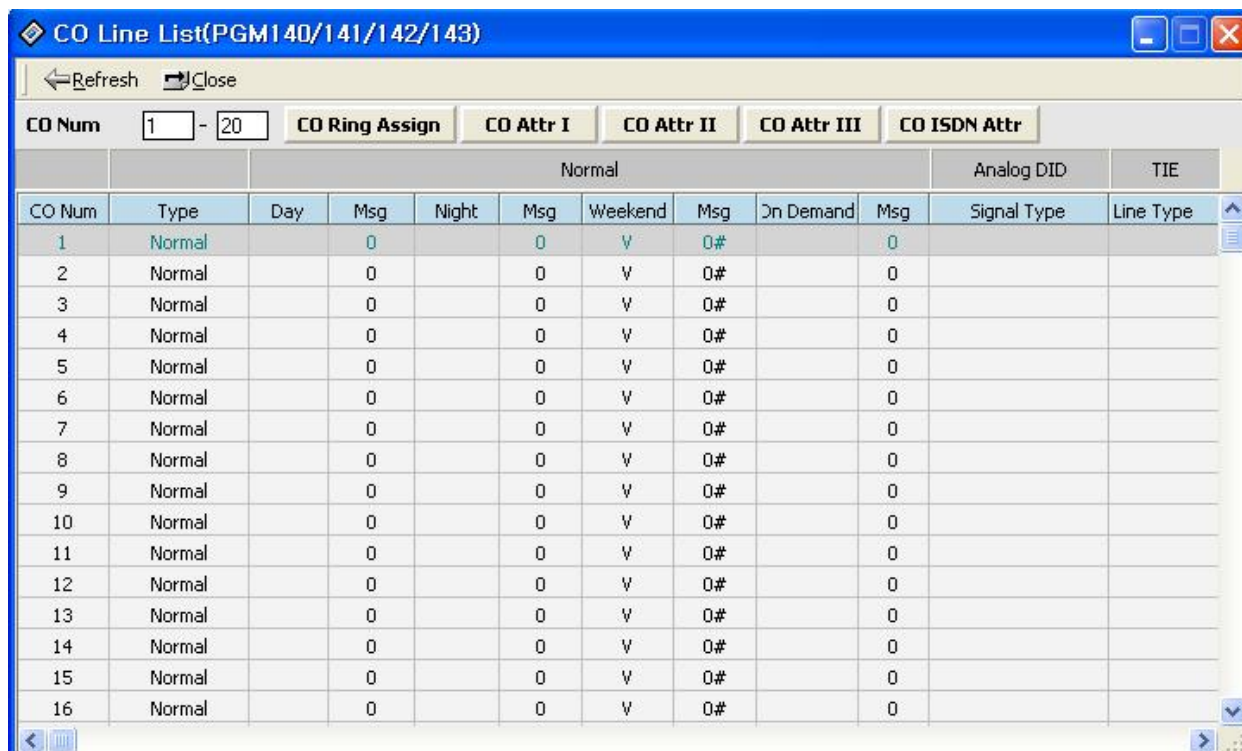
Use this CO Line Base Program to change CO Line features. The program number is from PGM140 TO PGM147.

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

This PC Admin link various feature that is related each other. So, you can move to another programming with popup menu. It is very helpful to you.

#### Operation

1. Select [**CO Line List**]. Then you will see below window that displays CO line basic information. (PGM140).
2. If you want to check some range, enter the range in index field. Then you will see the information for selected range.
3. Otherwise you may press the [**Refresh**] button. Then PC Admin will search and display information for all CO range.(1 ~ NO\_OF\_COLS).



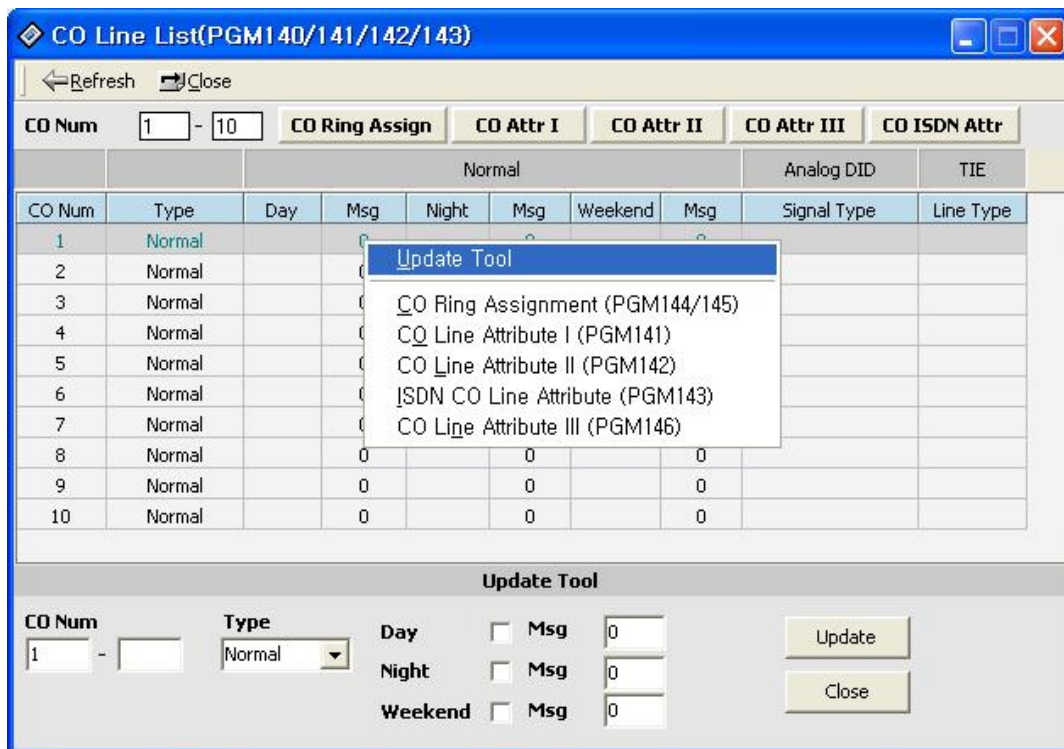
The screenshot shows a window titled "CO Line List(PGM140/141/142/143)". It has a "Refresh" button and a "Close" button. Below the buttons are tabs for "CO Ring Assign", "CO Attr I", "CO Attr II", "CO Attr III", and "CO ISDN Attr". The main area is a table with columns: CO Num, Type, Day, Msg, Night, Msg, Weekend, Msg, On Demand, Msg, Signal Type, and Line Type. The table contains 16 rows of data, all with "Normal" type and "0" values for most fields, except for the "Weekend" field which has a "V" and "0#" for the first row.

CO Num	Type	Day	Msg	Night	Msg	Weekend	Msg	On Demand	Msg	Signal Type	Line Type
1	Normal		0		0	V	0#		0		
2	Normal		0		0	V	0#		0		
3	Normal		0		0	V	0#		0		
4	Normal		0		0	V	0#		0		
5	Normal		0		0	V	0#		0		
6	Normal		0		0	V	0#		0		
7	Normal		0		0	V	0#		0		
8	Normal		0		0	V	0#		0		
9	Normal		0		0	V	0#		0		
10	Normal		0		0	V	0#		0		
11	Normal		0		0	V	0#		0		
12	Normal		0		0	V	0#		0		
13	Normal		0		0	V	0#		0		
14	Normal		0		0	V	0#		0		
15	Normal		0		0	V	0#		0		
16	Normal		0		0	V	0#		0		

[Figure 4-1] CO Information Display

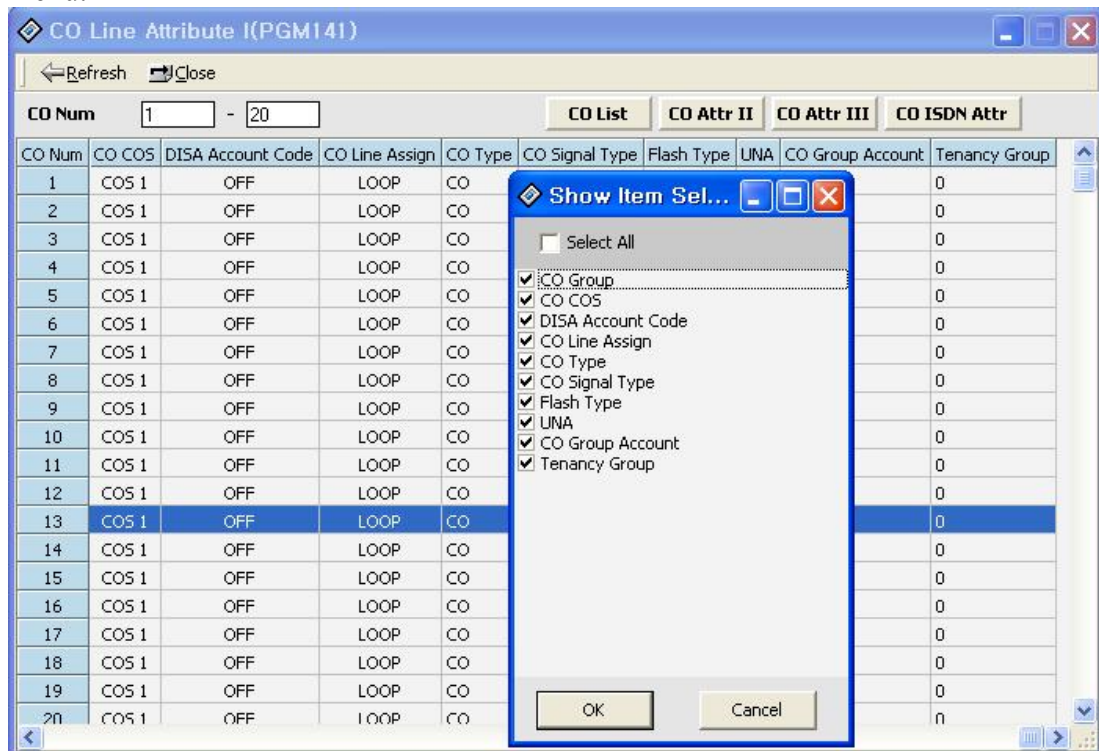
4. With this window, you can select some linked menu by selecting popup menu.

5. In case of selecting update menu.



[Figure 4-2] CO line Attributes and Update window

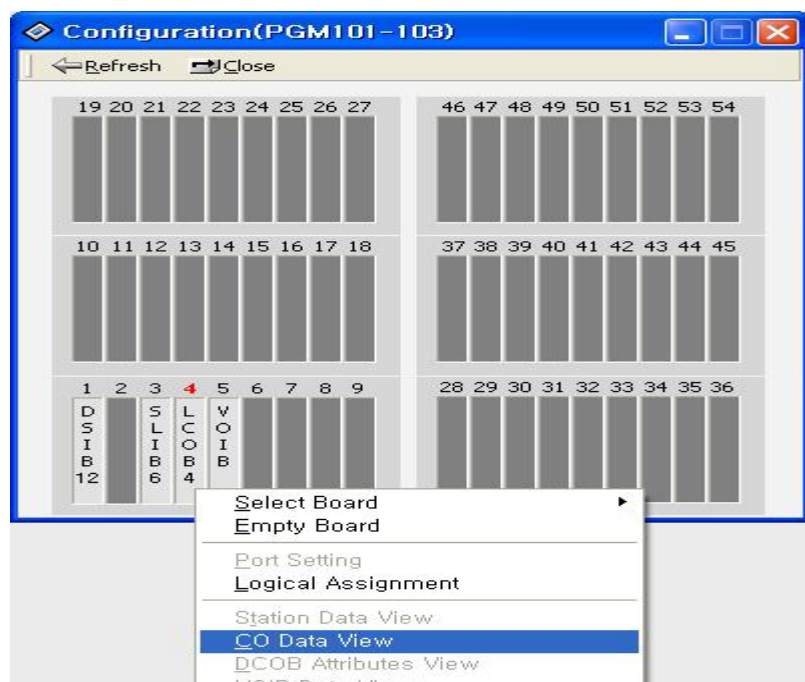
6. Below case is the window when you select the CO Attribute 1 menu in popup menu.



[Figure4-3] CO line attributes and view option window



7. User can select the attributes that he wants to check with view menu.
8. This is same architecture for PGM 142/143/146/147
9. User also reviews the CO data without entering the CO range. It can be done from **[configuration]** menu directly. If you select the CO board and select **[CO data view]** menu of popup menu as like below figure.
10. Then PC Admin will read the data for selected board range automatically. So, you don't need to enter the range manually. **(From MPB V3 Only)**



[Figure 4-4] CO Data view from configuration

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>- Each DISA type(BTN 1-3) has sub-attributes</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> <p><b>- BTN 4 was added from ipLDK V3.6, On demand type.</b></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> <p>3.5 1(Immediate Start) / 2 (Wink Start) / 3 (Delayed Dial Start)</p> <p>(BTN 1-3 are exclusive)</p>
ISDN DID/ MSN	
TIE	<p>TIE line types are as follows;</p> <p>3.6 1 (RD) / 2 (LD) / 3 (EM-C) / 4 (EM-D) / 5(EM-I)</p>
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)

ITEM	RANGE	DEFAULT	REMARK
CO Line Group	<b>00-73(ipLDK600/300)</b> <b>00-25(ipLDK100)</b> <b>0-9(ipLDK20)</b> <b>0-9(ARIA SOHO)</b>	01	Groups should be assigned according to CO type and Class-Of-Service. (00:private 73/25/9:not_used)
CO COS	1-5	1	<p>-CO COS 1: no restriction</p> <p>-CO COS 2: Exception Table A governs</p> <p>-CO COS 3: Exception Table B governs</p> <p>-CO COS 4: restricts Long Distance Code</p> <p>-CO COS 5: overrides STA. COS 2,3,4 and 5, 6.</p>
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	
CO Tenancy Group	<b>01-15(ipLDK-300/600)</b> <b>01-05(ipLDK-100/20/ARIA SOHO)</b>	<b>01</b>	<b>Tenancy Group of CO line.</b> <b>(From MPB 2.0Ba, PCADM 2.0Ba)</b>

[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: - 0 : None - 1 : 50 Hz - 2 : 12 KHz - 3 : 16 KHz - 4 : Singular Polarity Reverse (SPR) - 5 : Plural Polarity Reverse (PPR) - 6 : No Polarity Reverse (NPR)
Line Drop using CPT	ON/OFF	OFF	If this field set to ON, CPT checks the incoming CO line when answered and if CPT detects dial tone, then 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(ipLDK600/300)</b> <b>0-12(ipLDK100)</b> <b>0-9(ipLDK20/ARIA SOHO)</b>	1	0: Not assigned by this field. 1: Internal Music 2~4: External Music 5~7: VMIB MOH 8-12: SLT MOH 13: Hold Tone
PABX CO Dial Tone	YES/NO	YES	YES: In this case, PX or PABX provides dial tone. 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.). YES: PX, NO: System
PABX CO Error Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that error tone is provided by PX.). YES: PX, NO: System
PABX CO Busy Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that busy tone is provided by PX.). YES: PX, NO: System
PABX CO Announce Tone	YES/NO	NO	If R2 PX which does not give us tone for called party status exists, then the system provides tone according to cause value (This field is only when Cause means that announcement is provided by PX, but the system provides only error tone.). YES: PX, NO: System
CO Flash Timer	000 – 300	005	10 msec base
Open Loop Detect Timer	00 – 20	00	100 msec base
Line Length	SHORT/LONG	SHORT	Line Length of CO.(TELKOM only.)
Disa Answer timer	1 – 9	5	Disa Answer timer
<b>DISA/DID Delay Tmr</b>	<b>1 - 9</b>	<b>2</b>	<b>DID/DISA Delay Timer(From 3.5Ab)</b>

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

ITEM	RANGE	DEFAULT	REMARK
COLP Table Index	00 - 50	Not Assigned	To make called party number with assigned COLP Table entry. (PGM 201) 00~49: PGM 201 Bin No. / 50: PGM 11-BTN 5
CLIP Table Index	00 - 50	Not Assigned	To make calling party number with assigned CLIP Table entry. (PGM 201) 00~49: PGM 201 Bin No. / 50: PGM 11-BTN 5
Call Type	0 - 4	2	0: Unknown 1: International 2: National 3: Not used 4: Subscriber
DID CONV Type	0 - 2	0	0: convert digits by DID Dgt Conversion (PGM230) 1: call to the valid extension. 2: convert digits by Flex DID Table (PGM231)
DID Remove No.	00 - 99	Not Assigned	Remove received digits from the left as to the assigned #
ISDN Enblock Send	ON/OFF	OFF	ON: Enblock Sending Mode OFF: Overlap Sending Mode
CLI Transit	ORI(1)/C FW(0)	CFW(0)	ORI : Send CLI as the originate caller's CLI. CFW : Send CLI as the call forwarded station's CLI.
Numbering Plan Id	0 - 7	0	<b>F1 : Calling NPI / F2 : Called NPI</b>
ISDN Call Deflection	Enable/ Disable	Disable	<b>ISDN call deflection service usage. Norway only.</b>
ISDN 1 Digit Remove	ON/OFF	OFF	<b>If ISDN incoming CPN type is unknown-unknown type, then the first digit is removed. Italy only.</b>
CLI Type	0~2	0(Normal)	<b>0 : Normal, 1 : Long CLI 1, 2 : Long CLI 2(V3.2Aa)</b> <b>ipLDK20 : Added from V2.1Aa(MP),3.2Ba(PC)</b>

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

## 4.2 CO Ring Assignment (PGM 144/145)

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

### Operation

1. Select the [CO Ring Assignment].
2. Select CO Number in [CO Num] field to read the data.
3. If you want to change some data, select [Update] menu in popup menu. After change each destination and delay, press [Update] button to save changes.

CO Ring Assignment(PGM145)

Refresh Close

CO Num 1

Day		Night		Weekend		On Demand	
Destination	Delay	Destination	Delay	Destination	Delay	Destination	Delay
Station 1001	0	Station 1001	0	Station 1001	0	Station 1001	0

Update Tool

Start End

CO Num 1

Mode Type Number

Update Close

[Figure 4-5] CO Ring Assignment Setting Window

4. Select a CO Ring Assignment, above picture will be showed. With this screen, user can assign the incoming ring and check.

### 4.3 AC15 CO Line Attributes (PGM 149) – Not available with *ip*LDK20 and ARIA SOHO

This PGM can program AC15 CO Attributes. This program is only for AC15 CO Board.

#### Operation

1. Click [AC15 CO Line Attributes].
2. Enter the CO range that you want to program AC15 CO attributes. Then current values will be displayed.
3. Select or enter each field and press the [Update] button to save data.

CO Num	Delay Dial	Preset Pause Timer
1		8
2		8
3		8
4		8
5		8
6		8
7		8
8		8
9		8

**Update Tool**

CO Num 1  
Delay Dial ☐  
Preset Pause Timer 8 (02~32)

CO Num  -   
Delay Dial ☐  
Preset Pause Timer  (02~32)

[Figure 4-6] AC15 CO Attributes (PGM 149)

#### 4.4 CO CID Attributes (PGM 147) – Available with only ARIA SOHO(Russia Federal only)

This PGM is only for ARIA SOHO system. If user connect to other ipLDK series, user can not see this feature. User can assign some attributes related with CID setting. Some field was moved from PGM185.

##### Operation

1. Click [CO CIDU Attribute].
2. Enter the CO range that you want to program CID attributes. Then current values will be displayed.
3. Select or enter each field and press the [Update] button to save data.
4. This menu was linked in other CO programming field.

The screenshot shows the 'CO CIDU Attribute (PGM 147)' window. It has a title bar with standard window controls. Below the title bar is a toolbar with 'Refresh' and 'Close' buttons. The main area is divided into three tabs: 'CO List', 'CO Attr I', and 'CO Attr II'. The 'CO List' tab is active, displaying a table with the following data:

CO Num	CID Mode Select	CID Name Display	Russia CID Detect	Russia CID Request	Russia CID Req. Timer	Russia CID Virtual Ans. Timer(s)	Russia C
1	Auto	NAME	All	Auto	10	5	4
2	FSK	TEL	All	Auto	12	3	4
3	FSK	TEL	All	Auto	20	30	10
4	FSK	TEL	All	Auto	20	30	10
5	FSK	TEL	All	Auto	20	30	10
6	FSK	TEL	All	Auto	20	30	10
7	FSK	TEL	All	Auto	20	30	10
8	FSK	TEL	All	Auto	20	30	10
9	FSK	TEL	All	Auto	20	30	10

Below the table is the 'Update Tool' section. It contains a 'CO Num' field with a value of '1', a 'Select All' checkbox which is checked, and a list of attributes with checkboxes and dropdown menus:

- ☒ CID Mode Select: Auto
- ☒ CID Name Display: NAME
- ☒ Russia CID Detect: All
- ☒ Russia CID Request: Auto
- ☒ Russia CID Req. Timer: 10
- ☒ Russia CID Virtual Ans. Timer(s): 5
- ☒ Russia CID DGT5 Number(4-12): 4

There are 'Update' and 'Close' buttons to the right of the attribute list.

[Figure 4-7] CO CIDU Attribute (PGM 147)

ITEM	RANGE	DEFAULT	REMARK
CID Mode Select	0 - 3	FSK	User can select CID type (0 : OFF, 1:FSK , 2:RUSSIA CID, 3:AUTO)
CID Name Display	TEL / NAME	TEL	Analog CO line CLI carries the caller's telephone number and name. According to this ADMIN program value, LCD displayed data can be selected. If this value is set to NAME, the caller's name will be displayed on LCD. If this value is set to TELEPHONE NUMBER, the caller's telephone number will be displayed on LCD. 0:Name, 1:TEL
Russia CID Detect	LOCAL /ALL	ALL	Russia CID Detect Mode 0:Local , 1 : All
Russia CID Request	USER / AUTO	AUTO	Russia CID Request mode 0 : User , 1 : Auto
Russia CID Request Timer(10ms)	10 - 150	20	Russia CID First Request Timer
Russia CID VIRAN Timer(s)	1 – 300	30	When the system automatically answers CO ring for Russia CID detection in Russia CID mode, this timer starts to run. If CO call is not answered while this timer runs, this CO call will be dropped.
Russia Digit number	4 – 10	10	If this value determines the number of valid CID digits to receive.

[Table 4-5] CO CIDU Attribute (PGM 147)

## 5. System Base Program

Use this System Base Program to change any system features.

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

It changes system attribute.

#### Operation

1. Select System Attributes in main menu.
2. Then System Attribute 1 window will be displayed and you can select the attribute II or III by pressing each button.
3. Then you can view the current setting and update each field.
4. After editing, press the **[Update]** button to save the changes.



Attribute I	Attribute II	Attribute III
ATD Call Queuing Ring-Back Tone	MOH	
Camp-On MOH / Ring-Back Tone	MOH	
CO Line Choice	LAST	
DISA Retry Count	3	
ICM Continuous Dial Tone	CONT	
CO Dial Tone Detect	<input type="checkbox"/>	
External Night Ring	<input type="checkbox"/>	
Hold Preference	System	
Multi-line Conference	<input checked="" type="checkbox"/>	
SMDR Print LCR Convert	<input type="checkbox"/>	
Conference Warning Tone	<input checked="" type="checkbox"/>	
Offnet Prompt Usage	<input checked="" type="checkbox"/>	
Offnet DTMF Tone	<input checked="" type="checkbox"/>	
CO Voice Path Connect	DGT	
Transter Tone	RBT	

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

## 5. Refer to the tables below, and change the values.

ITEM	RANGE	DEFAULT	REMARK
Attendant Call Queuing Ringback Tone	ON/OFF	OFF	ON: The station will be present ring back tone when calling busy attendant station. 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 or Ringback tone is heard in camp-on.
CO Line Choice	LAST/ROUND	LAST	The method of a CO line seizing on CO Line Groups access.
DISA Retry Counter	0-9	3	When the DISA user fails to call Station or access 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 Dial-Tone	CONT/DISCONT	CONT	This field set whether ICM dial tone is continuous or not.
CO Dial-Tone Detect	ON/OFF	OFF	When the speed dial is activated, system detect dial tone using CPT instead of pause timer.
External Night Ring	ON/OFF	OFF	When CO lines are marked to UNA, ringing will be sent to LBC1 when an incoming call occurs on those lines during night service.
Hold Preference	SYS/EXEC	SYS	System hold or exclusive hold
Multi-line Conference	ON/OFF	ON	The system allows a conference with multi-CO lines.
Prt LCR Conv Dgt	ON/OFF	OFF	Print dialed digits or LCR conversed digits in LCD, <b>(Except AUS_TELSTRA)</b>
Conference Warning Tone	ON / OFF	ON	When entering conference, members will be heard warning Tone
Offnet Prompt 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 Tone	ON / OFF	ON	In case of Offnet call forward, DTMF Tone will be heard.(It is only applied to CO-to-CO Transfer)
<b>CO Voice Path Connect</b>	<b>IMM/DGT</b>	<b>DGT</b>	<b>Option to connect voice path after seizing CO line. Immediately. (CIS and Korea only)</b>
<b>Transfer Tone</b>	<b>RBT/MOH</b>	<b>MOH</b>	<b>Option to provide ring-back tone or MOH during transferring CO line.</b>
<b>CO to CO Xfer CPT Check</b>	<b>OFF/ON</b>	<b>OFF</b>	
<b>ACD Pacage Usage</b>	<b>ON/OFF</b>	<b>OFF</b>	If this value is set to ON, ACD Information is printable. Not in ARIA SOHO
<b>CO – CO UC Timer Extend</b>	<b>ON/OFF</b>	<b>OFF</b>	If this value is set to on, the conference call user can extend the Unsupervised Conference Timer by dialing the UC TIMER EXTEND Code.
<b>Call Log List Num</b>	<b>15~20</b>	<b>15</b>	<b>Number of call log. From V3.1Aa ipLDK20 : Added from V2.1Aa(MP),3.2Ba(PC)</b>

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



ITEM	RANGE	DEFAULT	REMARK
Network Time/Date Setting <i>PX Time/ Day /Month (ARIASOHO)</i>	ON/OFF	OFF	If this field is ON, the system time/date are set by the network time/date.
Off-Hook Ring Type	MUTE/BURST	MUTE	The system 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, ICM: 1sec on/ 4sec off CO : 0.4s on/ 0.2s off/ 0.4s on/ 4sec off In case of YES, a cadence is the reverse.
WTU Auto Release	ON/OFF	OFF	Enable or disable auto release of WTU Not in ARIA SOHO
ACD Print Enable	1:ON(10s unit) / 0:OFF	OFF	Enable or disable ACD Print features
ACD Print Timer	001 –255 (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.
<b>VM with CLI Info</b>	<b>ON / OFF</b>	<b>OFF</b>	<b>When Voice Mail information printed through RS232 port by SMDI, if this is 'ON', CLI is added.</b>
<b>ACD Print Timer Unit</b>	<b>HOURL(1)/ SEC(0)</b>	<b>SEC</b>	<b>Determines the unit of ACD Print timer of Flex Btn 10 (1 hour or 10 seconds).</b>
<b>Set VM SMDI Type</b>	<b>TYPE II/ TYPE I</b>	<b>TYPE I</b>	<b>Set VM SMDI type (Refer RS232 Spec).</b>
<b>Incoming Toll Check</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>Enable or disable to toll check for incoming call</b>
<b>DSS Indication</b>	<b>ON/OFF</b>	<b>ON</b>	<b>Enable or disable LED of CO button while ringing for incoming, transfer and recalling. It is not applied for direct ringing such as DID/DISA.</b>
<b>UK Billing Mode</b>	<b>ON/OFF</b>	<b>OFF</b>	If this value is set to ON, UK Billing Mode is applied. (UK only)

<b>COS 7 When Auth Fail</b>	<b>ON/OFF</b>	<b>ON</b>	<b>If authorization is failed with PGM227, COS will be COS 7 or not with this setting. From <i>ipLDK 3.3Aa</i>, <i>PCADM 3.3Aa</i></b>
<b>Auto Fax Transfer CO</b>	<b>01 – 12(ARIA SOHO)</b>		If Auto FAX CO line is programmed, the system answers and detects the FAX calling tone (1100Hz, 0.5sec ON/3sec OFF repeat tone) from an incoming analog CO line. The system will route this call to the last SLT port on BKSU) when tone is detected within programmed time.
<b>LCR Dial Tone Detect</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>Added from V3.6</b>

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

<b>ITEM</b>	<b>RANGE</b>	<b>DEFAULT</b>	<b>REMARK</b>
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)

## 5.2 Admin Password (PGM 162)

Password is not assigned as default.

### Operation

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



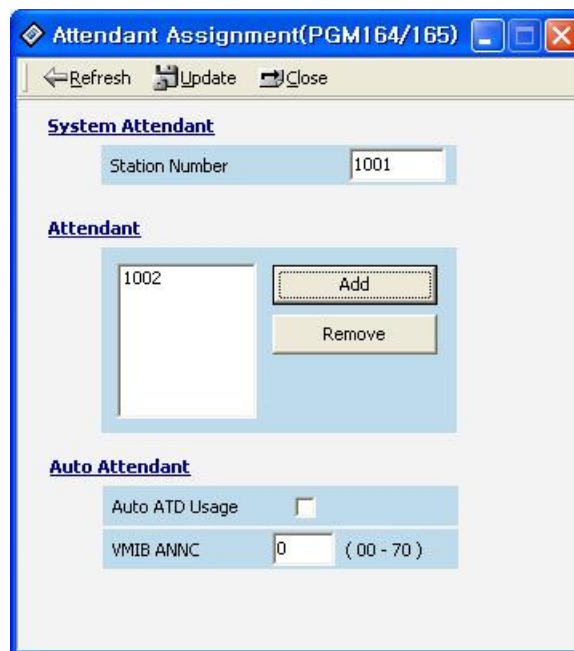
[Figure 5-2] Administration Password Setting Window

## 5.3 Attendant Assignment and DVU annnc.#(PGM 164/165)

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



The window titled "Attendant Assignment(PGM164/165)" contains three sections. The "System Attendant" section has a "Station Number" field with the value "1001". The "Attendant" section features a list box containing "1002", with "Add" and "Remove" buttons to its right. The "Auto Attendant" section includes an "Auto ATD Usage" checkbox (unchecked) and a "VMIB ANNC" field with the value "0" and a range "( 00 - 70 )".

[Figure 5-3] Alarm Attributes Setting Window

## 5.4 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].



The window titled "CO-to-CO COS(P...)" contains two dropdown menus. The "Day COS" dropdown is set to "1", and the "Night / Weekend COS" dropdown is also set to "1".

[Figure 5-4] CO-to-CO Setting Window

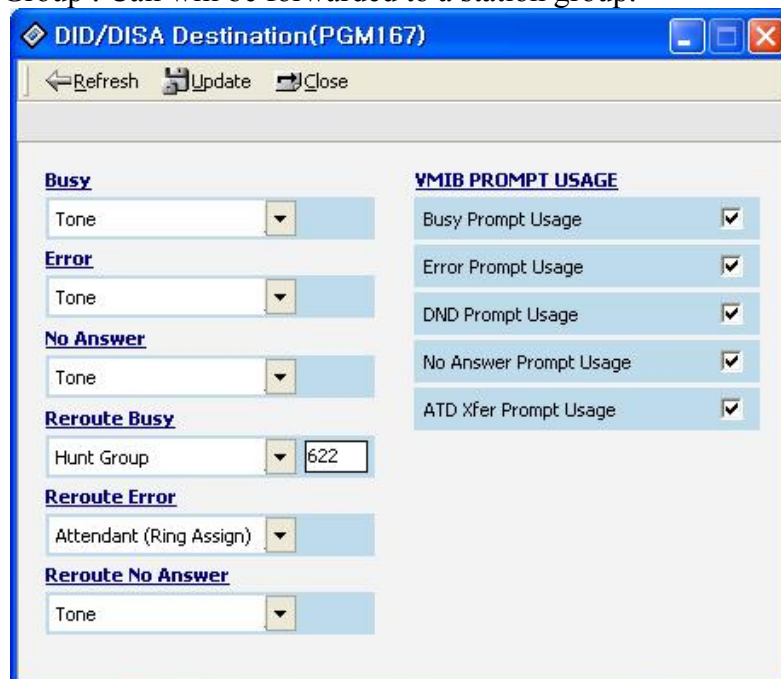
2. Put the numbers in.

## 5.5 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.



[Figure 5-5] DID/DISA Destination Setting Window

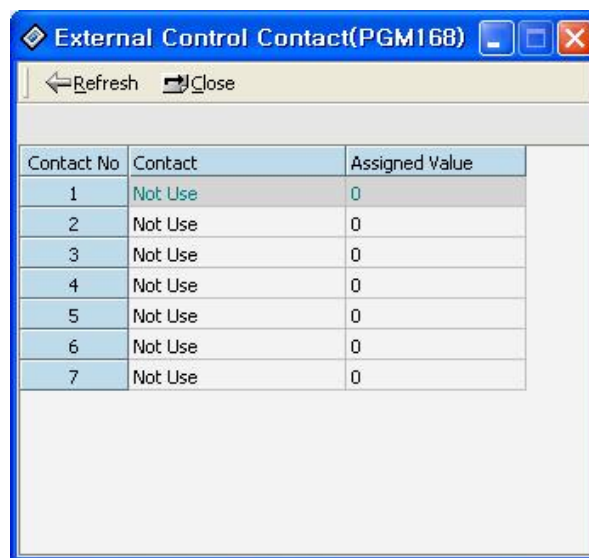
5. VMIB Prompt Usage is added in version **1.0Ba**. So, this feature is available in **1.0Ba(PC software) and 1.0Dd(MPB software) or later**.

## 5.6 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(*ipLDK300/300E*). A default value is not assigned.

### Operation

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



Contact No	Contact	Assigned Value
1	Not Use	0
2	Not Use	0
3	Not Use	0
4	Not Use	0
5	Not Use	0
6	Not Use	0
7	Not Use	0

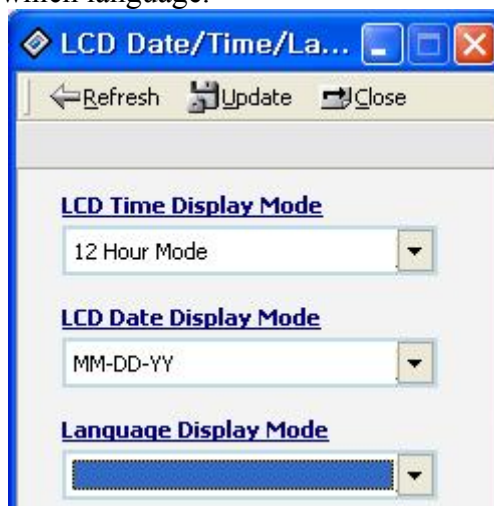
[Figure 5-6] External Control Contact Setting Window in *ipLDK600/300*

## 5.7 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 5-7] LCD Date Display format Change Window

## 5.8 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 1000~1599(ipLDK600 / 100~399(ipLDK300) / 100 ~ 227(ipLDK100) / 10 – 37(ipLDK20) / 100 – 151(ARIA SOHO), and Co Line is 1~400(ipLDK600) / 1~200(ipLDK300) / 1~40(ipLDK100) / 1~12(ipLDK20, 16 is max co number from version 2.0Aa) / 1~12(ARIA SOHO).



[Figure 5-8] Modem Setting Window

## 5.9 Music (PGM 171)

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

### Operation

1. Click [Music].

The screenshot shows a window titled "Music(PGM171)" with a toolbar containing "Refresh", "Update", and "Close" buttons. The main area is divided into two columns. The left column contains three sections, each with a dropdown menu:

- BGM Type**: Dropdown menu showing "INT MUSIC".
- MOH Type**: Dropdown menu showing "INT MUSIC".
- ICM Box Music Channel**: Dropdown menu showing "INT MUSIC".

The right column is titled "Assign SLT MOH 1 - 5" and contains five input fields for "SLT MOH 1 STA Number" through "SLT MOH 5 STA Number". Below these are two dropdown menus:

- Dial Tone SRC**: Dropdown menu showing "Not Assign".
- ICM Ring Back Tone Src**: Dropdown menu showing "Not Assign".

[Figure 5-9] 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      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            13: Hold Tone
ICM Box Music Channel	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
Assign SLT MOH	-	Flex. 1-5 (+ SLT STA No.)	SLT MOH 1-5
Dial Tone Source	0~5	0(N/A)	Source for Dial Tone, V3.1Aa <i>ipLDK20 : Added from V2.1Aa(MP),3.2Ba(PC)</i>
ICM Ring Back Tone Src	0~5	0(N/A)	Source for ICM Ring Back Tone, V3.1Aa <i>ipLDK20 : Added from V2.1Aa(MP),3.2Ba(PC)</i>
CO Ring Back Tone Src	0~5	0(N/A)	Source for ICM Ring Back Tone, V3.1Aa <i>ipLDK20 : Added from V2.1Aa(MP),3.2Ba(PC)</i>

[Table 5-4] Reference for Music (PGM 171) in *ipLDK600/300*

ITEM	RANGE	DEFAULT	REMARK
BGM Type	00-11	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: SLT 1 08: SLT 2              09: SLT 3 10: SLT 4              11: SLT 5
MOH Type	00-12	01	00: NOT_ASG      01: Internal Music 02: External Music 1    03: External Music 2 04: External Music 3    05: VMIB BGM 1 06: VMIB BGM 2      07: SLT 1 08: SLT 2              09: SLT 3 10: SLT 4              11: SLT 5 12: Hold Tone
ICM Box Music Channel	00-11	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: SLT 1 08: SLT 2              09: SLT 3 10: SLT 4              11: SLT 5
Assign SLT MOH	-	Flex. 1-5 (+ SLT STA No.)	SLT MOH 1-5
Dial Tone Source	0~5	0(N/A)	Source for Dial Tone, V3.1Aa <i>ipLDK20</i> : Added from V2.1Aa(MP),3.2Ba(PC)
ICM Ring Back Tone Src	0~5	0(N/A)	Source for ICM Ring Back Tone, V3.1Aa <i>ipLDK20</i> : Added from V2.1Aa(MP),3.2Ba(PC)
ICM Ring Back Tone Src	0~5	0(N/A)	Source for ICM Ring Back Tone, V3.1Aa <i>ipLDK20</i> : Added from V2.1Aa(MP),3.2Ba(PC)

[Table 5-5] Reference for Music (PGM 171) in *ipLDK100*

- In case of *ipLDK20*, there are special notification in above table. Refer to the table for *ipLDK20*.

ITEM	RANGE	DEFAULT	REMARK
BGM Type	00-08	01	00: No BGM      01: Internal Music 02: External Music      03: Reserved 04: SLT 1      05: SLT 2 06: SLT 3      07: SLT 4 08: SLT 5
MOH Type	00-09	01	00: NOT_ASG      01: Internal Music 02: External Music      03: Reserved 04: SLT 1      05: SLT 2 06: SLT 3      07: SLT 4 08: SLT 5      09: Hold Tone
ICM Box Music Channel	00-08	01	00: No BGM      01: Internal Music 02: External Music      03: Reserved 04: SLT 1      05: SLT 2 06: SLT 3      07: SLT 4 08: SLT 5
Assign SLT MOH	-	Flex. 1-5 (+ SLT STA No.)	SLT MOH 1-5
Dial Tone Source	0~5	0(N/A)	Source for Dial Tone
ICM Ring Back Tone Src	0~5	0(N/A)	Source for ICM Ring Back Tone
ICM Ring Back Tone Src	0~5	0(N/A)	Source for ICM Ring Back Tone
INT MOH TYPE	0~12	0	0: ROMANCE

[Table 5-6] Reference for Music (PGM 171) in ARIA SOHO

## 5.10 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. Enter 1 or 2 digits code in the below window. If you want to delete code, leave blank.
2. Press [**Update**] button to save the changes.



Code	Value
PBX Access Code 1	12
PBX Access Code 2	33
PBX Access Code 3	
PBX Access Code 4	

Max 2 digit ( include '\*' and '#' )

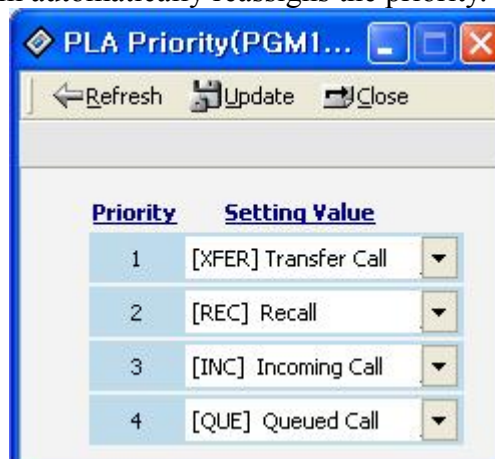
[Figure 5-10] PBX Access Code Setting Window

## 5.11 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 can not assign a duplicated number. If you assign a duplicated number and click **[Update]**, the program automatically reassigns the priority.



[Figure 5-11] PLA Priority Setting Window

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

You can set up RS-232C port configuration.

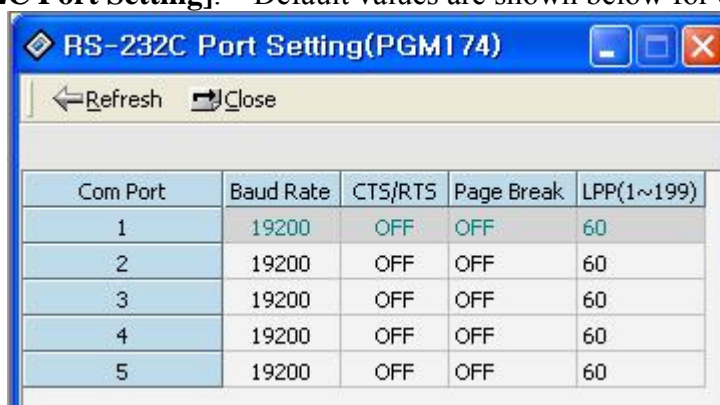
<NOTICE>

*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.




Com Port	Baud Rate	CTS/RTS	Page Break	LPP(1~199)
1	19200	OFF	OFF	60
2	19200	OFF	OFF	60
3	19200	OFF	OFF	60
4	19200	OFF	OFF	60
5	19200	OFF	OFF	60

[Figure 5-12] RS-232C Port Display Window in ipLDK-600/300

*[Notice 1 ] In ipLDK-100, COM4 and COM5 are not available.*

*[Notice 2 ] In ipLDK-200/ARIA SOHO, COM3/ COM4 and COM5 are not available.  
COM2 is used for MODU device.*

2. Press [Update] in popup menu, and change the values.



Com Port	Baud Rate	CTS/RTS	Page Break	LPP(1~199)
1	19200	OFF	OFF	60
2	19200	OFF	OFF	60
3	19200	OFF	OFF	60
4	19200	OFF	OFF	60
5	19200	OFF	OFF	60

**Update Tool**

Baud Rate: 19200 (dropdown)      Page Break: OFF (dropdown)

CTS/RTS: OFF (dropdown)      LPP(1-199): 60 (text input)

Update      Close

[Figure 5-13] RS-232C Port Attributes Setting Window

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

[Table 5-6] Reference for COM Port Setting (PGM 174)

## 5.13 Print Serial Port Selection (PGM 175)

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

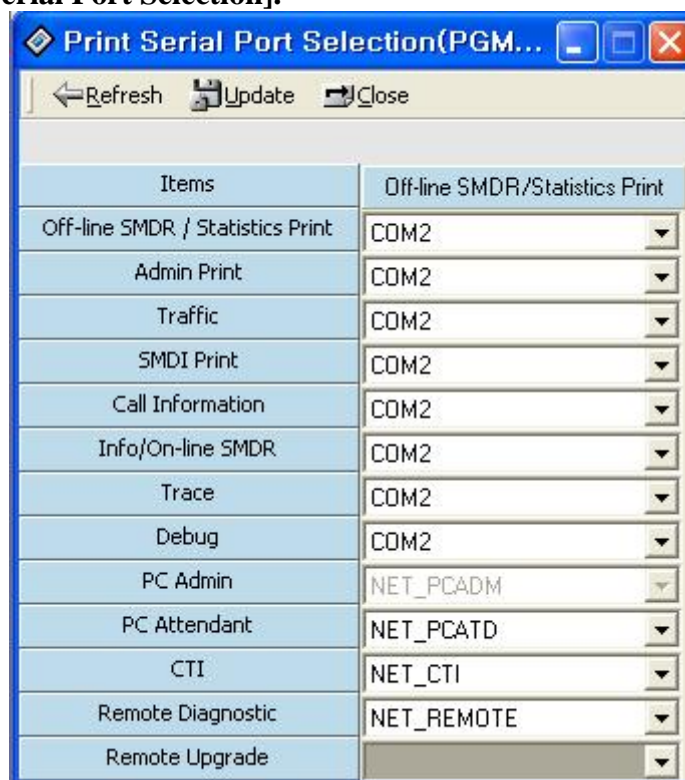
### <NOTICE>

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

*If the PC Admin port is COM1~COM5(ipLDK300) / COM3(ipLDK100) for PC application(PC Admin, PC Attendant, CTI), you can't use those ports (COM1~COM5 (ipLDK300)/COM3(ipLDK100)) 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 values, system may produce some problems.*

### Operation

1. Click [Print Serial Port Selection].



[Figure 5-14] Print Serial Port Selection Window

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

ITEM	RANGE	DEFAULT	REMARK
Off-line SMDR/Statistics Print	01-13/11/10	COM2 (02)	01: COM1 02: COM2
ADMIN Print	01-13/11/10	COM2 (02)	03: COM3 – MODU
TRAFFIC	01-13/11/10	COM2 (02)	04: COM4 – MISB(Only for ipLDK300)
SMDI Print	01-13/11/10	COM2 (02)	→ Not Available in ipLDK100
Call Information	01-13/11/10	COM2 (02)	05: COM5 – MISB(Only for ipLDK300)
Info/On-line SMDR	01-13/11/10	COM2 (02)	→ Not Available in ipLDK100
Trace	01-13/11/10	COM2 (02)	06: TELNET 1 (04 in ipLDK 100)
Debug	01-13/11/10	COM2 (02)	07: TELNET 2 (05 in ipLDK 100)
PC Admin	01-13/11/10	NET_PCADM (10)	08: TELNET 3 (06 in ipLDK 100)
PC Attendant	01-13/11/10	NET_PCATD (11)	09: ISDN (07 in ipLDK 100)
CTI	01-13/11/10	NET_CTI (12)	10: NET_PCADM (08 in ipLDK 100)
Remote Diagnostic	01-13/11/10	NET_REMOTE (13)	11: NET_PCATD (09 in ipLDK 100) 12: NET_CTI (10 in ipLDK 100) 13: NET_REMOTE (11 in ipLDK 100)

[Table 5-7] Print Serial Port Selection (PGM 175)

[Notice 1] In ipLDK 100, [RANGE] is from 01 to 11.

[Notice 2] In ipLDK 20, [RANGE] is from 01 to 10.

<Important Notice>

*If you select the 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.*

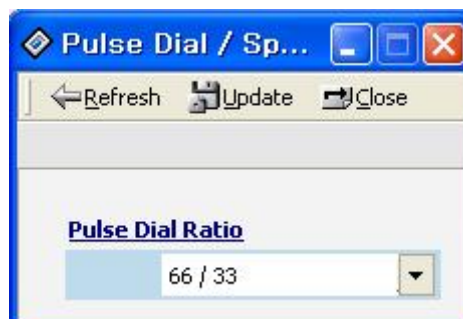
## 5.14 Pulse Dial / Speed Ratio (PGM 176)

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

In ipLDK-600/300, pulse dial speed ratio is set for only 10 PPS.

### Operation

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



[Figure 5-15] Pulse Dial / Speed Ration Setting Window



## 5.15 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].

[Figure 5-16] 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. BTN 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>
<b>MSN Print On SMDR</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>Enable or Disable printing MSN on SMDR</b>
<b>Print Caller Number</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>From : 2.1Aa(ipLDK20), 3.1Ab(Other ipLDKs),</b>
<b>SMDR Interface Service</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>Enable or Disable printing Caller Number</b>
<b>I-SMDR Connection Type</b>	<b>SIO/LAN</b>	<b>SIO</b>	<b>From : 2.1Aa(ipLDK20), 3.1Ab(Other ipLDKs),</b>
			<b>From : ipLDK V4, ARIA SOHO Initial version.</b>
			<b>From : ipLDK V4, ARIA SOHO Initial version.</b>

[Table 5-8] Reference for SMDR Attributes (PGM 177)

## 5.16 System Date / Time (PGM 178)

You can set up the system date/time.

### Operation

1. Click [System Date/Time].



[Figure 5-17] System Date Setting Window

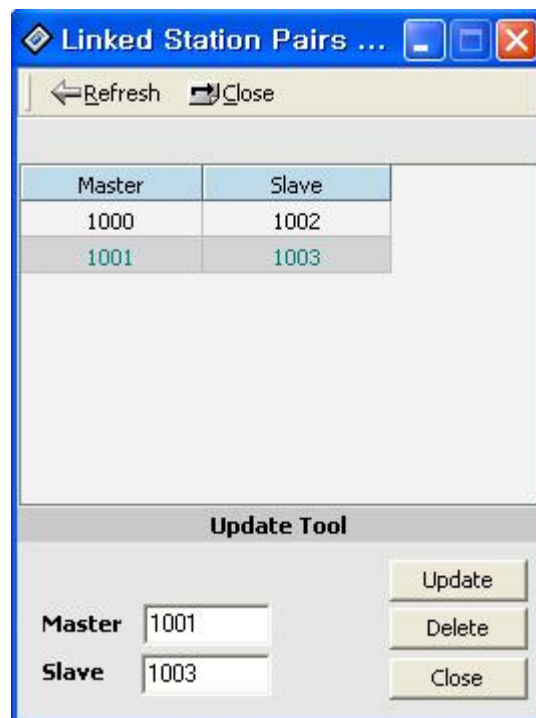
2. Set the values and click [**Update**] Button. Then the changed values will be displayed on the LCD screen of your keyset right now.

## 5.17 Linked Station Pairs Table (PGM 179)

You can link two stations in a pair, possible to make 64(14 : ipLDK20, 24 : ARIA SOHO) pairs in maximum.

### Operation

1. Select [**Update Tool**] for add or delete station pair. And enter a station number to be linked with or delete.
2. To delete a pair, erase slave area or pres [**Delete**] button. After changing data, press [**Update**] button to save changes.
3. **From V3.0B**, there is a modification with GUI. In previous version, table showed all index whether there is a linked station or not. And user couldn't distinguish master and slave station.
4. From V3.0B, there will be displayed a station that has slave station. And slave station will not be displayed in master field. So, user doesn't need to be confused with this list.
5. In below example, there are two lists in the table and other area does not display anything that is not used.



[Figure 5-18] Linked Station Pair Setting Window

## 5.18 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 Timers**], select an item to be altered, and click [**Update Tool**] to change some value.

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

**Update Tool**

No : 14 Timer : Automatic CO Release Timer

Range

Update Close

[Figure 5-19] System Timer I Setting Window

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

## 6. Refer to the table below for each timer.

ITEM	RANGE	DEFAULT	REMARK
Attendant Recall Timer	00 - 60 (2 Digits)	01 (min)	Determines the amount of time before system disconnects the call.
Call Park Recall Timer	000 - 600 (3 Digits)	120 (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 (3 Digits)	030 (sec)	If a station transfers to busy station and hang up, this recall timer is assigned.
Exclusive Hold Recall Timer	000 - 300 (3 Digits)	060 (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 (3 Digits)	030 (sec)	Determines the amount of time before a call recalls the attendant.
Sys Hold Recall Timer	000 - 300 (3 Digits)	030 (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 (3 Digits)	030 (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 (3 Digits)	030 (sec)	When ACNR Pause Timer expires and there is no available CO Line in the group, this timer is invoked. When ACNR Delay Timer expired, - Invoke ACNR Pause Timer if is no available CO line Still, ACNR is activated.
ACNR No Answer Timer	10 - 50 (2 Digits)	30 (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 (3 Digits)	030 (sec)	When expired, ACNR is activated. (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. (For CIS : 1-9)
ACNR Retry No Tone	1 - 9 (1digit)	1 (5sec)	1 means 5 seconds, ipLDK will wait this value to decide NO TONE. 3 means 15 seconds. (Only for CIS)
ACNR Tone Detect Timert	000 - 300 (3 Digits)	030 (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 (3 Digits)	030 (sec)	Uncompleted CO call will be automatically released after this timer.
CCR Inter-Digit Timer	000 - 255 (3 Digits)	030 (100ms)	This field is used for the CCR inter-digit timer in the DISA/DID CO line. In DID type 2, it is used for DID inter-digit timer.
CO Call Drop Warning Timer	00 - 99 (2 Digits)	10 (sec)	If prepaid money is going to expire during a CO conversation, give warning tone and after this time the call will be disconnected. This timer also used for Call Restriction, Unsupervised Conference.
CO Call Restriction Timer	00-99 (2Digits) )	0 (min)	Outgoing CO call time is allowed for this time.
CO Dial Delay Timer	00 - 99 (2 Digits)	01 (100ms)	Voice connection to the outside party will be made after this timer. This can be used to prevent illegal dialing in case of slow response from the Central Office Line or PBX.
CO Release Guard Timer	001 - 150 (3 Digits)	020 (100ms)	The CO Release Guard Timer controls the time necessary to guarantee idle loop state when the line is released.
CO Ring Off Timer	010 - 150 (3 Digits)	060 (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.

ITEM	RANGE	DEFAULT	REMARK
CO Ring On Timer	1 - 9 (1 Digit)	2 (100ms)	The CO Ring On Timer controls the time necessary to detect an outside line as ringing into the system.
CO Warning Tone Timer	060 - 900 (3 Digits)	180 (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 5-9] System Timers - I (PGM 180)

ITEM	RANGE	DEFAULT	REMARK
Call FWD No Answer Timer	000 - 255 (3 Digits)	015(sec)	The Call forward busy/no answer feature will take place using this timer. If this timer has a non-zero value and 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 (2 Digits)	20(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 (3 Digits)	20(sec)	The time duration of VMIB user greeting.
VMIB Valid User Message Timer	0 - 9 (1 Digits)	4(sec)	The time duration of valid VMIB user message.
Door Open Timer	05 - 99 (2 Digits)	20(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 (2 Digits)	30(sec)	Determines the amount of time programmed stations will ring when ICM box user presses the [CALL] button.
ICM Dial Tone Timer	01 - 20 (2 Digits)	10(sec)	If action is not taken within ICM dial tone timer, user will hear error-tone.
Inter Digit Timer	01 - 20 (2 Digits)	05	The time between digits cannot exceed Inter-digit timer, or error tone is received.
MSG Wait Reminder Tone Timer	00 - 60 (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 (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 (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 (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.
SLT DTMF Release Timer	00 - 20 (2 Digits)	00	
3Soft Auto Release Timer	01 - 30	05	
VM PAUSE Timer	01 - 90	30	
Transit Connect Timer	01 - 30	04	
VMIB MSG Rewind	01-99	05	<b>VMIB MSG Rewind timer</b> <b>From ipLDK V3. ipLDK20 2.1Aa</b>
LCO Connect Timer	01 - 20	5	<b>LCO Connect Timer(From 3.5Aa)</b>
LCO CPT detect timer	1-20	0	<b>LCO CPT Detect Timer(From IPipLDK V3.6, PCADM V3.6)</b>

[Table 5-10] System Timers - II (PGM 181)



ITEM	RANGE	DEFAULT	REMARK
SLT Hook Switch Bounce Timer	01-25 (2 Digits)	01 (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 (2 Digits)	05 (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 (3 Digits)	020 (10ms)	The minimum bound time that system considers as hook flash for SLT.
SLT Ring Phase Timer	2 - 5 (1 Digit)	5 (sec)	Determines the ring phase of SLT . (5 SEC : 1SEC ON / 4SEC OFF)
Station Auto Release Timer	020 - 300 (3 Digits)	060 (sec)	If a station hears ring back tone and no action is taken, this timer is assigned. When this timer is expired the station is released.
Unsupervised Conference Timer	00 - 99 (2 Digits)	10 (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 (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 (2 Digits)	05 (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 (3 Digits)	010 (10ms)	The Time Duration of Seize Acknowledge Signal to DID line.
Enblock Dgt timer	01-20	15 (sec)	After timer is expired, Setup is sent Not in ARIA SOHO
CCR Time Out Timer	000-300	015 (sec)	When this timer is expired, CCR is activated (1 sec base)
DID Inter Digit Timer	01 - 20	03	In DID type2, used as digit number Not in ARIA SOHO
<b>FAX Tone Detect Timer</b>	<b>01-10</b>	<b>05</b>	<b>Fax Tone Detect Timer setting.</b> <b>From : 2.1Aa(ipLDK20), V3(Other ipLDKs), V3(PCADM)</b>
<b>FAX Co call Timer(min)</b>	<b>1-5</b>	<b>1</b>	<b>Fax CO Call Timer setting.</b> <b>From : 2.1Aa(ipLDK20), V3(Other ipLDKs), V3(PCADM)</b>

[Table 5-11] System Timers - III (PGM 182)



## 5.19 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). In ARIA SOHO system, this PGM is moved to PGM147 CO CIDU Attributes.*

Port No.	CO Number
0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0

[Figure 5-20] CIDU Setting(PGM185)

### Operation

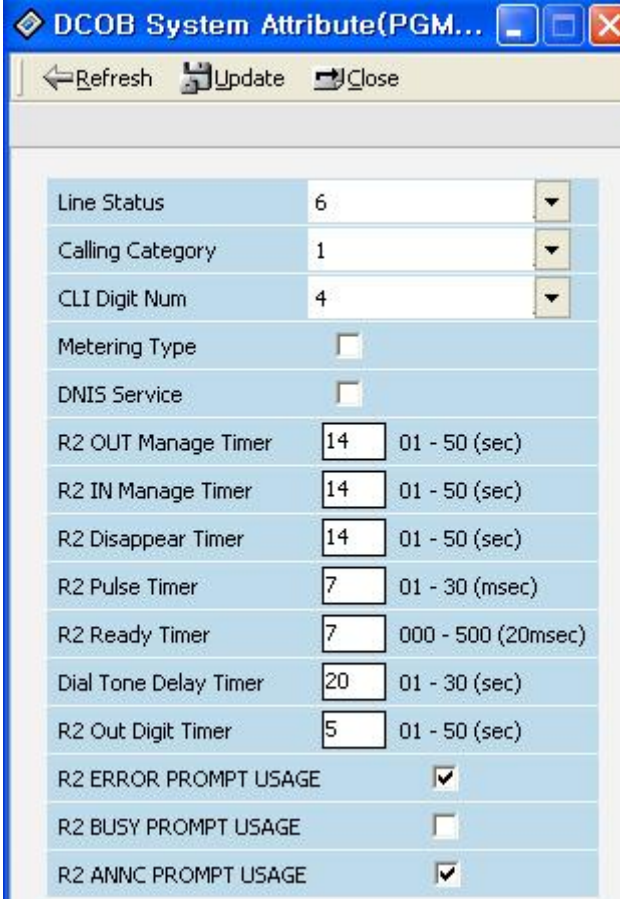
1. Select the PGM185 CIDU Setting. Then PC Admin will read the MPB setting value. If you want to change the CIDU Usage, CID Name Display, Serial Port Selection, select the value in the COMBO Box.
2. If you want to change the CIDU Map, select [Update Tool] in popup menu. Then you will see the update part as like above. Select port number and CO number or range. After enter data, press [Edit OK] button. After all changing, press [Update] button to save the changes. If you don't press [Update] button, changed data will not be saved.

BIN	ITEM	RANGE	DEFAULT	REMARK
1	CID Usage	ON / OFF (Except ARIA SOHO) OFF / FSK / RCID / AUTO (ARIA SOHO)	OFF FSK(ARIA SOHO)	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 ( <i>ip</i> LDK-300) 1-2 ( <i>ip</i> LDK-100)	-	Set the serial port for CIDU connection. Not in ARIA SOHO
4	CID/CO Line Port Mapping	000-063	-	Set the CIDU port and the analog CO line port mapping. Not in ARIA SOHO
5	Initialize CID Data			Initialize the CIDU admin. Not in ARIA SOHO
6	<b>CID type II Usage</b>	<b>ON / OFF</b>	<b>OFF</b>	<b>Set the CID type II usage</b> <b>(From MPB 2.0Ba, PC Adm 2.0Ba)</b>
7	<b>Fast CID Mode</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>Enable/Disable fast CID mode</b> <b>From V3.1Aa(Other <i>ip</i>LDKs),</b> <b>V2.1Aa(<i>ip</i>LDK20)</b>

[Table 5.9] CIDU Setting (PGM 185)

## 5.20 DCOB System Attributes (PGM 186) – Not available with ARIA SOHO

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. *This menu is used in special country (KOREA, AUSTRALIA)*



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

[Figure 5-21] DCOB System Attributes

### Operation

1. Select [DCOB System Attributes]. Then current programmed data will be displayed. If you want to change some value, you can change this window. After changing, press the **[Update]** button to save the changes.
2. This feature may not be applied for some countries.

BTN	ITEM	RANGE	DEFAULT	REMARK
1	DCOB CO Type	0-2	2	0:Sweden/Cyprus 1:Italy 2:Korea/Australia
2	Metering Type	0-1	0	0:Not used 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	
13	<b>R2 Out digits Timer</b>	<b>1-50</b>	<b>5</b>	R2 Out Digits Timer Setting(V3.1Aa)
14	<b>R2 Error Prompt Usage</b>	<b>ON/OFF</b>	<b>OFF</b>	R2 Error Prompt Usage, V3.1Aa
15	<b>R2 Busy Prompt Usage</b>	<b>ON/OFF</b>	<b>OFF</b>	R2 Error Prompt Usage, V3.1Aa
16	<b>R2 Annc Prompt Usage</b>	<b>ON/OFF</b>	<b>OFF</b>	R2 Error Prompt Usage, V3.1Aa

[Table 5-10] DCOB System Attribute 1 (PGM 186)

## 5.21 DCOB CO Line Attributes(PGM187) – Not available with ARIS SOHO

This feature is for R2(DCOB) programming.

Start CO Num  End CO Num

CO Num	IN Digit Type	OUT Digit Type	No of Digits	DCOB CO Type	Send S-Block Cmd
1	R2MFC	R2MFC	10	2(Korea)	OFF
2	R2MFC	R2MFC	10	2(Korea)	OFF
3	R2MFC	R2MFC	10	2(Korea)	OFF
4	R2MFC	R2MFC	10	2(Korea)	OFF
5	R2MFC	R2MFC	10	2(Korea)	OFF
6	R2MFC	R2MFC	10	2(Korea)	OFF
7	R2MFC	R2MFC	10	2(Korea)	OFF
8	R2MFC	R2MFC	10	2(Korea)	OFF
9	R2MFC	R2MFC	10	2(Korea)	OFF
10	R2MFC	R2MFC	10	2(Korea)	OFF

**Update Tool**

CO Number  -

IN Digit Type  No of Digits  1 - 15 ☐ Send S-Block Cmd

OUT Digit Type  DCOB CO Type

[Figure 5 – 22] DCOB CO Line Programming

BTN	ITEM	RANGE	DEFAULT	REMARK
1	IN Digit Type	0-2	2	Default: R2MFC (2) To set type. [0 : PULSE, 1 : DTMF, 2 : RFC]
2	OUT Digit Type	0-2	2	Default: R2MFC(2) To set type. [0 : PULSE, 1 : DTMF, 2 : RFC]
3	Number of CLI Digits	1-15	10	
4	DCOB Type	0-2	-	0 : Cyprus, 1 : Italy, 2 : Korea
5	Send S-Block Cmd	ON/OFF	OFF	Send S-Block Command, from V3.1Aa

[Table 5-11] DCOB Co line Attribute (PGM 187)

## 5.22 In Room Indication (PGM 183, From V3.5)

This window will assign **Room Indication** data. This window is consist of supervisor and various members.

Supervisor cannot be assigned as normal member. If supervisor and member are duplicated, PCADM will display warning window. So, you should check message. And when user leave the *supervisor* field, it means user want to delete the data. So, PCADM will delete data with selected bin number.

Index	Supervisor
1	100
2	102
3	120
4	130
5	
6	
7	
8	
9	
10	

Members
100
101
103

**Update Tool**

Index: 1 Supervisor: 100

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

>

100  
101  
103

Update Delete Close

[Figure 5 – 23] In Room Indication

### 5.23 Chime Bell Attribute (PGM 184, From V3.5)

This window will assign **Chime bell attributes**. Master and slave are the extension number and relay should be assigned with each bin number. But Bell timer and Tone frequency will be adapted in common. So, you should use the *separated* **[Update]** button to save these values. *Below* **[Update]** button is used only for table data.

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

Bin No.	Master	Slave	Relay
2	101	103	3

[Figure 5 – 24] Chime Bell Attribute

## 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 190/191)

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

System	<i>ip</i> LDK - 600/300	<i>ip</i> LDK – 100	<i>ip</i> LDK – 20/ARIA SOHO
No. of Group	48	15	<b>10</b>
STA No. in a Group	64	32	<b>26</b>

[Table 6-1] Available Range for Station Group

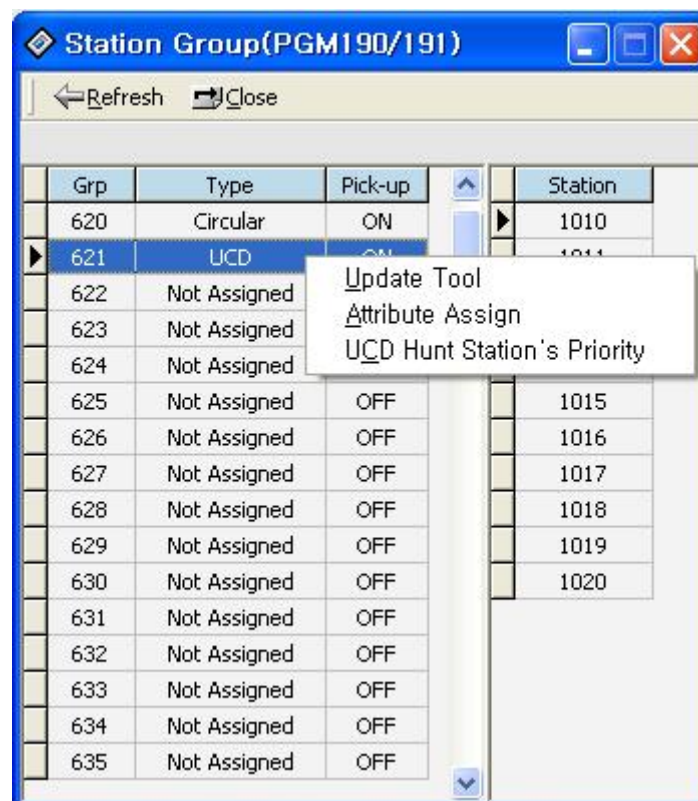
A station can belong to any number of Pickup groups, but can only belong to one Station Hunt group, Voice mail group or Ring group.

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.

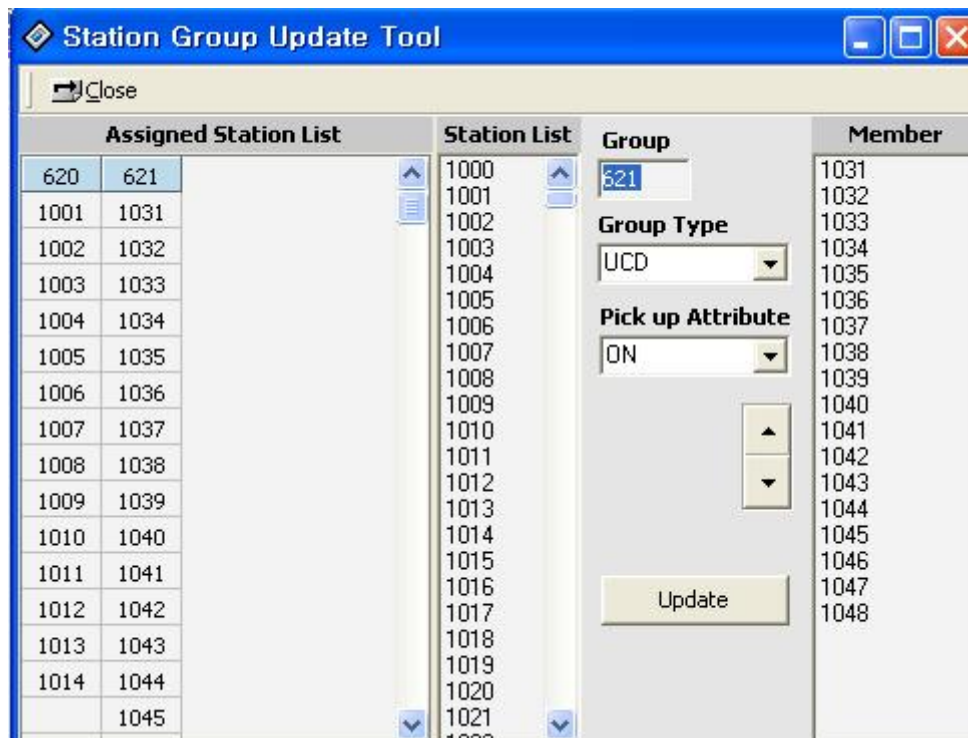
#### Operation

1. Click [**Station Group**], select a group and press [**Update**] button(*will be displayed by clicking right button of mouse*) to add or modify members.
2. There are two parts in window. One part is the assigned group number list and second is the member configuration part.
3. If you select one station group in left field, the station that is a member of the group will be displayed automatically.
4. This is the new feature with V3 of PC Admin software and with this automation, user check each station group easily.
5. If you want to add or edit the station group, select the [**Update**] button in popup menu.
6. Then second window will be displayed for editing or adding station group data.
7. This is very simple administration for user and it will be very helpful to manager of the system.
8. Also, you can assign the attributes of each group with [**Assign attributes**] menu of popup menu. This window is displayed next page.





[Figure 6-1] Station Group main Window



[Figure 6-2] Station Group Add/Edit Window

**Station Group Attribute Assign(PGM191)**

← Refresh    Update    Close

**Group : 620    Type : Circular    Pick up Attribute : OFF**

VMIB Announce 1 Timer	<input type="text" value="15"/> 0 - 999	Overflow Timer	<input type="text" value="180"/> 0 - 600
VMIB Announce 2 Timer	<input type="text" value="0"/> 0 - 999	Wrap-Up Timer	<input type="text" value="2"/> 2 - 999
VMIB Announce 1 Location	<input type="text" value="0"/> 0 - 70( # )	No Answer Timer	<input type="text" value="15"/> 0 - 99
VMIB Announce 2 Location	<input type="text" value="0"/> 0 - 70( # )	Pilot Hunt	<input checked="" type="checkbox"/>
VMIB Announce 2 Repeat Use	<input type="checkbox"/>	ALT if No Member	<input type="checkbox"/>
VMIB Announce 2 Repeat Timer	<input type="text" value="0"/> 0 - 999	Music Source	<input type="text" value="0"/> 0 - 11
Overflow Destination <input type="text" value="Not Assigned"/>		Alternate Destination <input type="text" value="Not Assigned"/>	
		Max Queued Call Count	<input type="text" value="99"/> 0 - 99

[Figure 6-3] Station Group Attributes assign.

9. You use [**Assign attributes**] button to change the data that is already in.
10. If you want to change the detail information of registered hunt group, use [**Assign attributes**] button in [Fig.6-1]. Setting button is used when you first programming. After that time, you should use the [**Assign attributes**] button when you change.
11. You can change the location of group member using Up/Down key. Then PCADM will send the changed order of stations to MPB and MPB will save with sent order of station. This feature was added from 2.2Bd(PCADM) version.

ITEM	RANGE	DEFAULT	REMARK
Group Type	0-6	0	0:NOT ASGN 1: Circular 2: Terminal 3: UCD 4: Ring 5: VM 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)

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 #./ HUNT #./ VMIB #/ SYS SPD #		The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group/VMIB.
Overflow Timer	000-600	180 (sec)	If this timer expires after a call comes 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</b> <i>(ipLDK600/300)</i> <b>00-11(ipLDK100)</b> <b>00-08(ipLDK20)</b> <b>From V3.6</b> <b>00-13</b> <i>(ipLDK600/300)</i> <b>00-12(ipLDK100)</b> <b>00-</b> <b>09(ipLDK20/ARI</b> <b>A SOHO)</b>	00(Not Assigned)	If music source is assigned, calling user will be heard music instead of ring back tone. 00: Not Assigned      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
Alternate destination	Sta No/ 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. From V3.1Aa <i>ipLDK20 : Added from V2.1Aa(MP),3.2Ba(PC)</i>
Max Q Call Cnt	00 – 99	00	<i>ipLDK20 : Added from V2.1Aa(MP),3.2Ba(PC)</i>
MBR FWD	ON/OFF	OFF	If this is enabled, members will be forwarded. (From MPB/PC V3.5)
Q Count Display	ON/OFF	OFF	From VER 3.6( <i>ipLDK-300/300E/100</i> ), <i>ipLDK20/ARIA SOHO</i>

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

ITEM	RANGE	DEFAULT	REMARK
VMIB Announce 1 Timer	000 – 999 (3 Digits)	015 (sec)	If all stations in the group are busy when a call is received for the group, the call may continue to wait (queue) for an available station in the group. If queued, the call may be sent to a UCD announcement when the queue period exceeds the 1st announcement Timer. If the timer is set to 0 the call will receive the full first announcement prior to the hunting process (guaranteed announcement).
VMIB Announce 2 Timer	000 - 999 (3 Digits)	000 (sec)	The second announcement can be provided if the call continues to wait beyond the 2nd announcement timer.
VMIB Announce Location 1	00-70	00 (Not Assigned)	Each Station Hunt Group can be assigned an announcement, which is played when the call is first received. The announcement may be assigned as VMIB.
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 #./ HUNT #./ VMIB #/ SYS SPD #		The queued call may be taken out of the group and directed to an overflow station.
Overflow Timer	000 - 600 (3 Digits)	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 (3 Digits)	002 (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</b> <b>(ipLDK600/300)</b> <b>00-</b> <b>11(ipLDK100)</b> <b>00-08(ipLDK20)</b>  <b>From V3.6</b> <b>00-13</b> <b>(ipLDK600/300)</b> <b>00-</b> <b>12(ipLDK100)</b> <b>00-</b> <b>09(ipLDK20/AR</b> <b>IA SOHO)</b>	00	If music source is assigned, calling user will be heard music instead of ring back tone. 00: No Asgn                      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
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/ 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.

ITEM	RANGE	DEFAULT	REMARK
Supervisor Timer	000 – 999 (3 Digits)	030 (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 (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 (1 Digit)	0	Ucd group member's Priority
Max Queued Call Cnt	00 – 99	00	
<b>MBR FWD</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>If this is enabled, members will be forwarded. (From MPB/PC V3.5)</b>
<b>UCD DND Ring Timer</b>	<b>00</b>	<b>0~999</b>	<b>Added from ipLDK V3.6, PCADM V3.6</b>

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

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 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 #./ HUNT #./ VMIB #/ SYS SPD #		The call to a station in the group will continue to route until answered or each station in the group has been tried. The call will remain at the last station in the group or will be passed to this overflow station/group.
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 (3 digits)	002 (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</b> (ipLDK600/300) <b>00-11</b> (ipLDK100) <b>00-08</b> (ipLDK20)  <b>From V3.6</b> <b>00-13</b> (ipLDK600/300) <b>00-12</b> (ipLDK100) <b>00-09</b> (ipLDK20/AR IA SOHO)	00	If music source is assigned, calling user will be heard music instead of ring back tone. 00: No Asgn            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
Max Queued Call Cnt	00 – 99	00	
Supervisor			
<b>MBR FWD</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>If this is enabled, members will be forwarded. (From MPB/PC V3.5)</b>
<b>Queue Count Display</b>	<b>ON/OFF</b>	<b>OFF</b>	

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

ITEM	RANGE	DEFAULT	REMARK
Wrap-Up Timer	002-999 (3 Digits)	002 (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 /TERM	TERM	1: Circular Hunt Group 0: Terminal Hunt Group
SMDI Port	01-13	02(COM2)	<b>(01~11) in <i>ipLDK100</i></b>
Overflow Timer	000 –600 (3 Digits)	180 (sec)	If this timer expires after a call comes in the group, the call is routed to the overflow destination.
Overflow Destination	Sta #./ HUNT #./ VMIB #/ SYS SPD #		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. (Station/Hunt group/VMIB/System Speed bin)

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

ITEM	RANGE	DEFAULT (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. 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(Except ARIA SOHO)

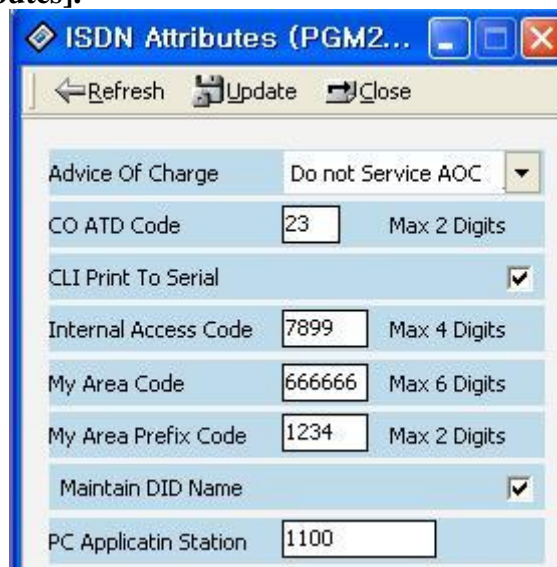
To change the ISDN related features you use this program. (PGM200~PGM202)

### 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].



Advice Of Charge	Do not Service AOC	
CO ATD Code	23	Max 2 Digits
CLI Print To Serial	<input checked="" type="checkbox"/>	
Internal Access Code	7899	Max 4 Digits
My Area Code	666666	Max 6 Digits
My Area Prefix Code	1234	Max 2 Digits
Maintain DID Name	<input checked="" type="checkbox"/>	
PC Applicatin Station	1100	

[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 1: Italy and Spain 2: Finland 3: Australia 4: Belgium 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/ A-Law	A-Law (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.
<b>Maintain DID Name</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>The ability to show DID name of a connected Call</b>
<b>PC Application Station</b>	<b>Station Range</b>	<b>1st Station</b>	

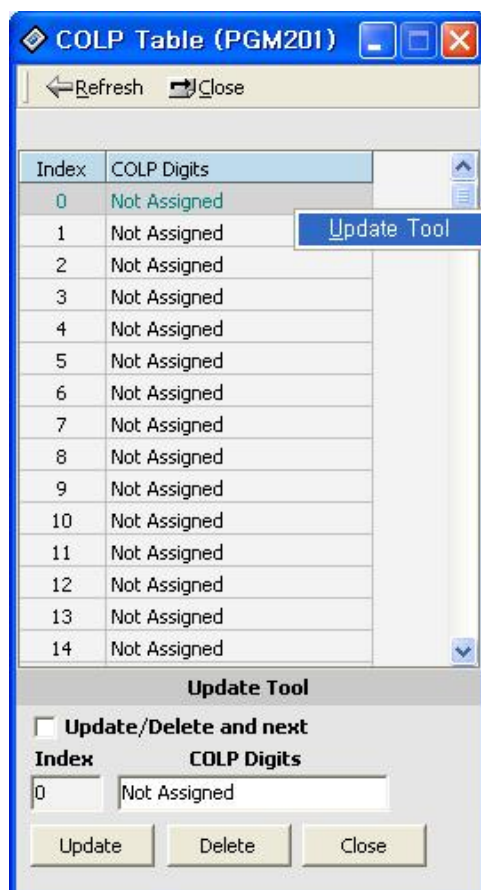
[Table 7-1] ISDN Attributes (PGM 200)

## 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 [Update Tool].
- 2.



[Figure 7-2] COLP Table Index Window

### 7.3 MSN Table (PGM 202)

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

#### Operation

1. Click [MSN Table].

Index	CO Start	CO End	Flex Did Table Index	Sub Number	MSN Number
0	1	20	23	4	426546
1	2	5	234	1	345463443
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

Index	CO Start	CO End	Flex Did Table Index	Sub Number	MSN Number
1	2	5	234	1	345463443

Update    Delete    Close

[Figure 7-3] MSN Table Display Window

1. Click **[Update Tool]**, refer to the table below, and enter the numbers

ITEM	RANGE	DEFAULT	REMARK
CO Line No.	001-400 ( <b>ipLDK600</b> ) 001-200 ( <b>ipLDK300</b> ) 01-40 ( <b>ipLDK100</b> ) 01-12/16 ( <b>ipLDK20</b> )	None	- <i>ipLDK20</i> → Before version 2.0Aa, max co line is 12. → From version 2.0Aa, max co line is 16
Index of Flexible 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.
<b>Block Same MSN Incoming</b>	<b>ON/OFF</b>	<b>OFF</b>	<b>Disconnect the duplicated MSN incoming call.</b>

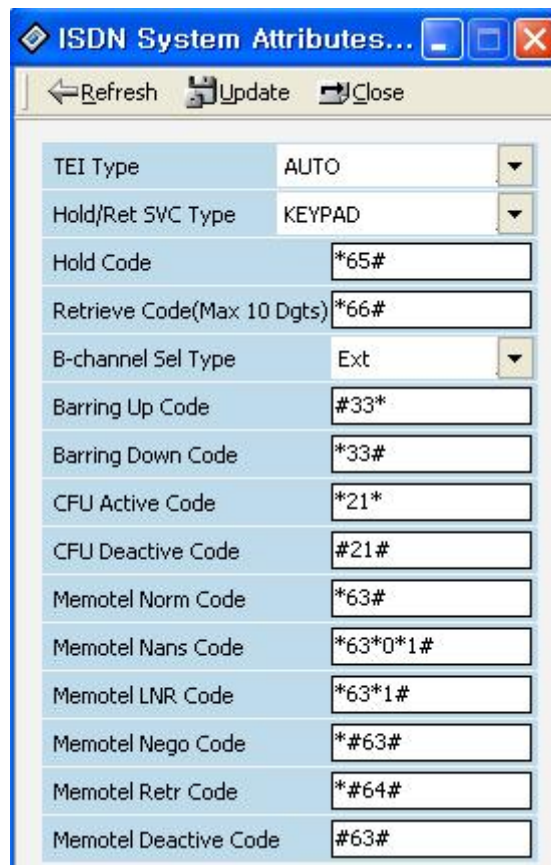
[Table 7-2] MSN Table (PGM 202)

## 7.4 ISDN System Attribute (PGM 203) – ipLDK 20 Only

When user want to change and review the ISDN attribute of the system, this PGM will be used. This feature is only for ipLDK20 system. Other systems are not related with this feature.

### Operation

1. Click **[ISDN System Attribute]**. Then below window will be displayed.
2. After changing some fields, press **[Update]** button to save the changes.



The screenshot shows a window titled "ISDN System Attributes..." with a toolbar containing "Refresh", "Update", and "Close" buttons. The window contains a list of fields for configuration:

TEI Type	AUTO
Hold/Ret SVC Type	KEYPAD
Hold Code	*65#
Retrieve Code(Max 10 Dgts)	*66#
B-channel Sel Type	Ext
Barring Up Code	#33*
Barring Down Code	*33#
CFU Active Code	*21*
CFU Deactive Code	#21#
Memotel Norm Code	*63#
Memotel Nans Code	*63*0*1#
Memotel LNR Code	*63*1#
Memotel Nego Code	*#63#
Memotel Retr Code	*#64#
Memotel Deactive Code	#63#

[Figure 7-4] ISDN System Attribute

ITEM	RANGE	Default	ETC
TEI type	Fixed/Auto	Auto	
Service Type	Keypad/Functiona l	Keypad	
Hold Code	Max. 10 digits	*75#	
Retrieve Code	Max. 10 digits	*76#	
B-Channel Select Type	EXC/PREF	EXC	
Barring Up Code	Max. 10 digits	#33*	
Barring Down Code	Max. 10 digits	*33#	
CFU Activate Code	Max. 10 digits	*21*	
CFU Deactivate Code	Max. 10 digits	#21#	
MEMOTEL NORM Code	Max. 10 digits	*63#	
MEMOTEL No ANS Code	Max. 10 digits	*630*1#	
MEMOTEL LNR Code	Max. 10 digits	*63*1#	
MEMOTEL NEGO Code	Max. 10 digits	*#63#	
MEMOTEL RETR Code	Max. 10 digits	*#64#	
MEMOTEL Deactivate Code	Max. 10 digits	#63#	

[Table 7-3] ISDN System Attribute (PGM 203)

## 8. Tables

### 8.1 LCR Assignment (PGM 220) - (Except AUS\_TELSTRA)

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, select "Zone 2" in SAT combo box.
4. For each day zone, you set up time-of-day. The time also can't be duplicated for each day zone.
5. After programming, press [Update] button to save the changes/

**LCR Assignment (PGM220)**

Refresh Update Close

**LCR Access Mode**

M00 / Disable LCR

**Day Zone**

MON Zone 2 TUE Zone 1 WED Zone 2 THU Zone 1

FRI Zone 3 SAT Zone 3 SUN Zone 3

**Time Zone 1**

Zone 1 0 - 8 Zone 2 9 - 17 Zone 3 18 - 24

**Time Zone 2**

Zone 1 1 - 8 Zone 2 9 - 17 Zone 3 18 -

**Time Zone 3**

Zone 1 1 - 8 Zone 2 9 - 17 Zone 3 18 - 24

[Figure 8-1] LCR Assignment Display Window

ITEM	RANGE	DEFAULT	REMARK
LCR Access	M00, M01, M02, M11, M12 M13	Disable (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 Day : 1 - 7	Belongs to Zone 1	First, select day and choose zone.
Time Zone	Time : 00 - 24	Belongs to Zone 1	<p>ipLDK accepts it as same value for 00 and 24 and changes to “00”, if input is 24 as starting value and vice versa.</p> <p><i>*Note</i> : The time not belonging to any zone will be considered as zone 1</p> <p><i>*Note</i> : 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) – (Except AUS\_TELSTRA)

PGM 221 is for Leading Digit Table.

### Operation

1. Click [**LCR-LDT Table**]. Select a LDT number.(0 ~ 249)
2. Click [**Update tool**] of pop menu that is opened by clicking right button of mouse.

Index	LCR Type	Compared Digits Max 12 Digits Include *, #	DMT 1			DMT 2			DMT 3			Check Password
			D1	D2	D3	D1	D2	D3	D1	D2	D3	
00	BOTH	12	00	02	04	06	13	24	19	25	43	OFF
01	BOTH											OFF
02	BOTH											OFF
03	BOTH											OFF
04	BOTH											OFF
05	BOTH											OFF
06	BOTH											OFF
07	BOTH											OFF
08	BOTH											OFF
09	BOTH											OFF

**Update Tool**

Index: 00    Compared Digits: 12    LCR Type: BOTH    ☐ Check Password

DMT 1 D1: 00    D2: 02    D3: 04  
 DMT 2 D1: 06    D2: 13    D3: 24  
 DMT 3 D1: 19    D2: 25    D3: 43

Update    Delete    Close

[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 DMT Index with combo box. *You should setup DMT1 field. Others may be left blank.*

ITEM	RANGE	DEFAULT	REMARK
LCR Type	Digit (1)INT (2)COL (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) - (Except AUS\_TELSTRA)

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 [Update Tool]

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

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

Update    Delete    Close

[Figure 8-3] 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.( ipLDK600/300 : 1~72. ipLDK100 : 1~24, ipLDK20 : 1~8).
9. Alternative DMT index : If there is no CO group to select, Select alternative DMT index to be used.(0~99)

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 [DND/FOR]: Dial-tone-detection instead of pause [FLASH]: Billing code (Extension Number)
Removal Position	01-12	01	Index to CD stream in Lead table to be removed
Number of digits to be removed	00-12	00	Remove digits in CD stream up to this count
Add Position	01-13	01	Determine the position of CD stream after removal, where the stream will be inserted.
CO Group	01-72 <i>(ipLDK600/300)</i> 01-24 <i>(ipLDK100)</i> 01 – 08 <i>(ipLDK20)</i>	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.

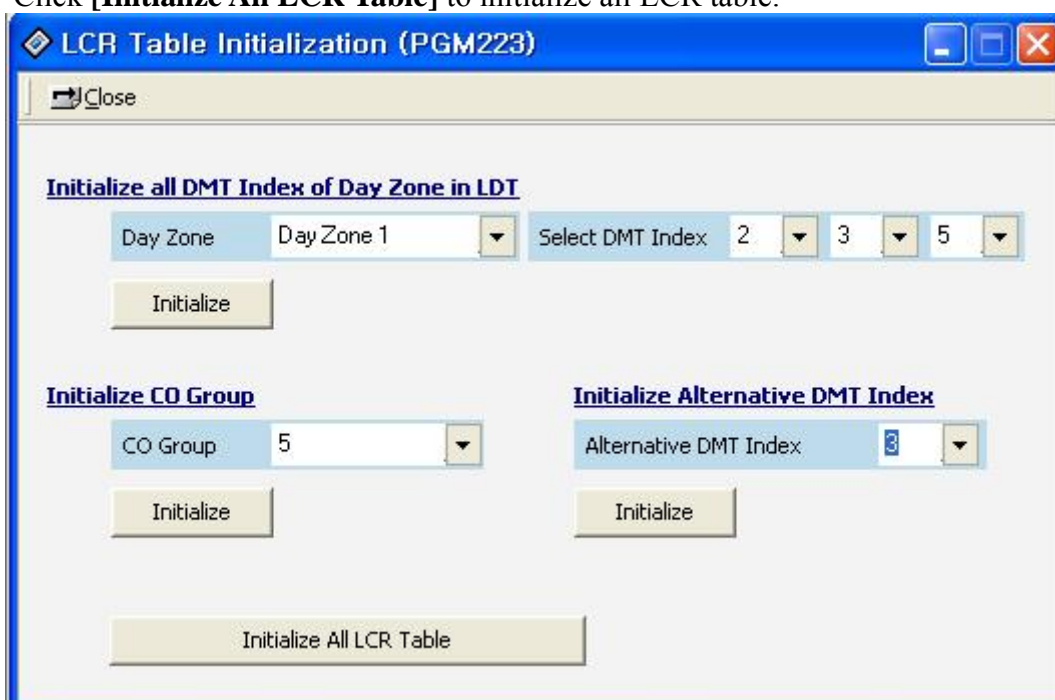
[Table 8-3] Digit Modification Table (PGM222)

## 8.4 LCR Table Initialization (PGM 223) - (Except AUS\_TELSTRA)

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 (*ipLDK600/300* : 1~72, *ipLDK100* : 1~24, *ipLDK20* : 1~8), and Click [**Initialize**] button that is located below Initialize CO Group area .
3. Select alternative DMT index (1~99), and click [**Initialize**] button of Initialize Alternative DMT Index area.
4. Click [**Initialize All LCR Table**] to initialize all LCR table.



[Figure 8-4] 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:

If the tables have no entries, no restriction is applied.

If entries are made in the allow table and only there, then only those numbers are allowed.

If entries are made in the deny table and only there, then only those numbers are denied.

If there are entries in both tables, the allow table is searched at first and if number is found, it is allowed. If not found, the deny table is searched and if number is found, it is denied.

If it is not found in either table, it is allowed.

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

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

### Operation

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

**Toll Exception Table (P...)**

Close

Allow A Allow B Allow C Allow D

Deny A Deny B Deny C Deny D

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

**Update Tool**

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

13

Update Delete Close

[Figure 8-5] Toll Exception Table Display Window

## 8.6 Canned Toll Table (PGM 225)

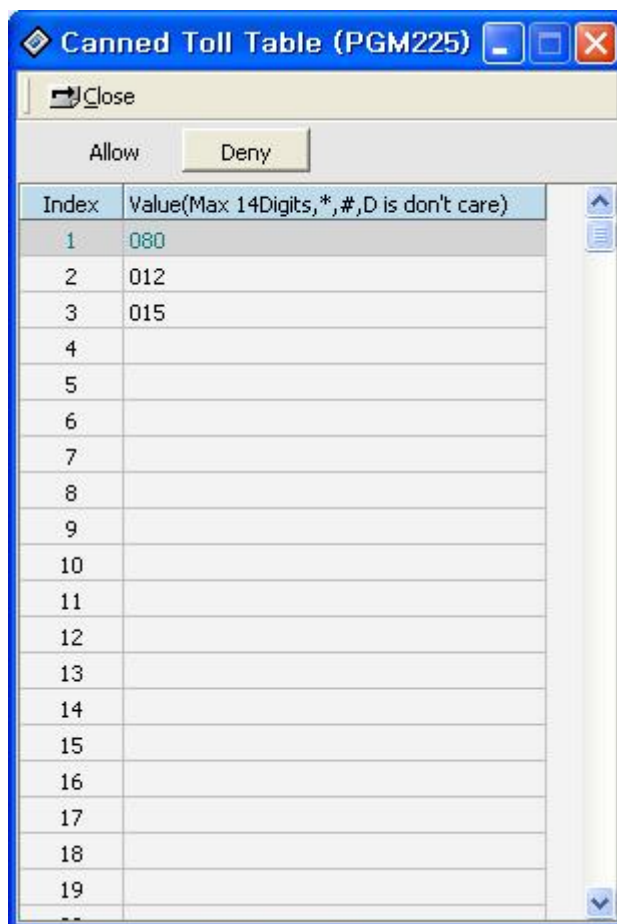
The Allow/Deny Tables are organized to support 2 different toll plans at one installed site. You can set the Allow/Deny table that is applied to station COS 5, 6. The number of entry in a table is 20, and 14 digits including any number 0-9, \*, # are possible in maximum.

### Operation

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

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

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



Index	Value(Max 14Digits, *, #, D is don't care)
1	080
2	012
3	015
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

[Figure 8-6] 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

Click [Emergency Code Table].

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

Index	Value(Max 14Digits,*,#,D is don't care)
1	

Update   Delete   Close

[Figure 8-7] Emergency Code Table Display Window

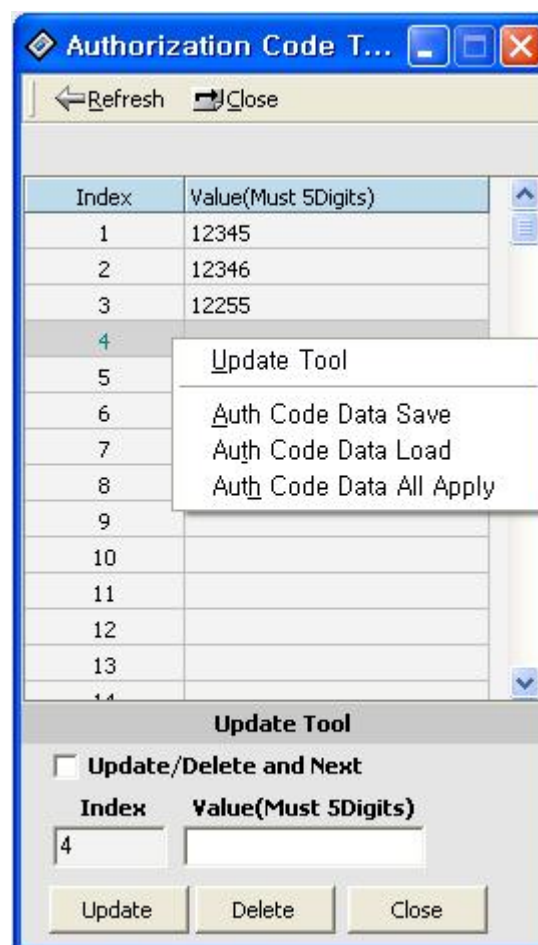


## 8.8 Authorization Code Table (PGM 227)

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. Stations or admin programming can enter the authorization codes. 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 ipLDK-300, the total number of Authorization Codes in system is 600 entries.

### Operation

1. Click [**Authorization Code Table**]. If a auth code is registered already it will be shown.
3. After editing, press [**Update**] button to save changes.
4. From *PCADM V3.0B*, user can save and reload these codes as a file. If user want to save or reload data base file, click update menu and select menu.
5. [**Auth Code Data Save**] : Save the data as a file.
6. [**Auth Code Data Load**] : Load the data as a file.
7. [**Auth Code Data Save**] : Write loaded data to MPB from start to end by automatically. At this time, user don't need to do something. PCADM will operate all process automatically until empty bin was found.
8. The file that is used by this feature can not be opened or edited by another software. The type of this file is specialized to PCADM. So, other software can not handle this file.
9. *From V3.3Aa, Auth code range was changed from 3 digits to 11 digits. And COS will be displayed. From index 1 to maximum station number, Day / Night COS will be displayed and user cannot change them. But other range of index, user can change the COS.*
10. *If user want to change the COS for station number, user should program PGM116.*



[Figure 8-8-1] Authorization Code Table Editing Window(until version 3.2xx)

Authorization Code Table(PGM227)

Refresh Close

Index	Value(3~11 Digits)	Day COS	Night CO
1	12312341235	1	1
2	4152351	1	1
3		1	1
4		1	1
5		1	1
6		1	1
7		1	1
8		1	1
9		1	1
10		1	1
11		1	1
12		1	1
13		1	1
14	123456789	1	1

Update Tool

☐ Update/Delete and Next

Index	Value(3~11 Digits)	Day COS	Night COS
11		1	1

Update Delete Close

[Figure 8-8-2] Authorization Code Table Editing Window(From version 3.3Aa)

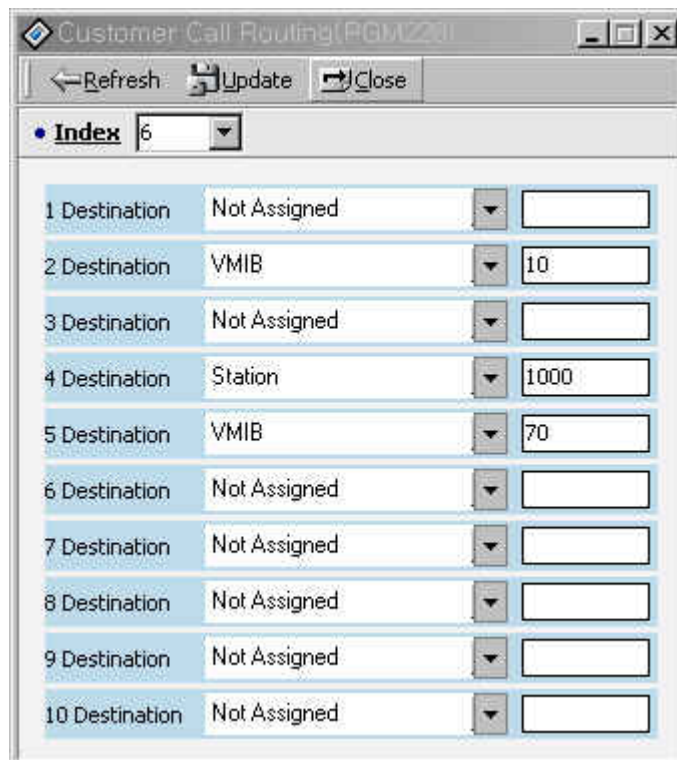
## 8.9 Customer Call Routing (PGM 228)

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

### Operation

Click [**Customer Call Routing**].

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



Index	Destination	Value
1	Not Assigned	
2	VMIB	10
3	Not Assigned	
4	Station	1000
5	VMIB	70
6	Not Assigned	
7	Not Assigned	
8	Not Assigned	
9	Not Assigned	
10	Not Assigned	

[Figure 8-9] Customer Call Routing Table 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>2000-6999</b> <i>(ipLDK-600)</i> <b>2000-4999</b> <i>(ipLDK-300)</i> <b>2000-3499</b> <i>(ipLDK-100)</i> <b>2000-2499(ARIA SOHO)</b>	-	
6	Internal Page	1 - 30	-	<b>ipLDK100/20, ARIA SOHO : 1 – 10</b>
7	External Page	1 - 3	-	ARIA SOHO : 1
8	All Call Page	1 - 3	-	1: INT All Page 2: EXT All Page 3: All Page
9	Net number	Valid Net number	-	The valid net number should be entered. Networking program should be done to use this field Not available in ARIA SOHO
10	Conference Room	1 - 9	-	

[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 ipLDK-300, system supports 36 Executive / Secretary pairs.

### Operation

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

Index	Executive	Secretary	CO Call To Sec	Call Exec if Sec DND	Sec Grade
1			OFF	OFF	1
2			OFF	OFF	1
3			OFF	OFF	1
4			OFF	OFF	1
5			OFF	OFF	1
6			OFF	OFF	1
7			OFF	OFF	1
8			OFF	OFF	1
9			OFF	OFF	1
10			OFF	OFF	1

Index	Executive	Secretary	CO Call To Sec	Call Exec if Sec DND	Sec Grade
1			OFF	OFF	1

Update   Delete   Close

[Figure 8-10] Executive/Secretary Table Display Window in ipLDK600/300

### Condition

- **From V3.5**, three field were added for customer request. Added fields are same as below.
- **CO Call To Sec** : This can make CO call to secretary.
- **Call Exec if Sec DND** : If this field is enabled and secretary is DND state, Call will be delivered to executive.
- **Sec Grade** : This field can be used when user assign the level of secretary.

## 8.11 DID Digit Conversion Table (PGM 230) – Not Used....

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

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

## 8.12 Flexible DID Table (PGM 231) (Except ARIA SOHO)

This table is for flexible DID table service.

### Operation

1. Click [Flexible DID Table],
3. User can select the range that user want to read. Until PCADM 3.0Ax, user can not select the range. So, user might have some problem because of long read operation with slow connection. At that time, if user use ISDN, Modem and serial connection, it took a lot of time to read the whole data because of more stable data exchange.
4. So, *from V3.0Ba*, there is a editable field and limit number is 50. So, user can select special range and can save waiting time.
5. Editing mechanism is same as before.

Flexible DID Table(PGM231)

Enter Table Range: 10 30 Refresh All Range Refresh

Index	Name	Day Type	Day Dest.	Night Type	Night Dest.	Weekend Type	Weekend Dest.	Reroute Type	Reroute Dest.
10	TEST10	Station	1010	Station	1001	Station	1001	Not Assigned	
11		Station	1011	Station	1001	Station	1001	Not Assigned	
12		Station	1012	Station	1001	Station	1001	Not Assigned	
13		Station	1013	Station	1001	Station	1001	Not Assigned	
14		Station	1014	Station	1001	Station	1001	Not Assigned	
15		Station	1015	Station	1001	Station	1001	Not Assigned	
16		Station	1016	Station	1001	Station	1001	Not Assigned	
17		Station	1017	Station	1001	Station	1001	Not Assigned	
18		Station	1018	Station	1001	Station	1001	Not Assigned	
19		Station	1019	Station	1001	Station	1001	Not Assigned	
20		Station	1020	Station	1001	Station	1001	Not Assigned	
21		Station	1021	Station	1001	Station	1001	Not Assigned	
22		Station	1022	Station	1001	Station	1001	Not Assigned	
23		Station	1023	Station	1001	Station	1001	Not Assigned	

Update Tool

Index: 10 Name: TEST10 [Update] [Delete] [All Initial] [All Delete] [Close]

Day Type: Station Day Dest.: 1010 Night Type: Station Night Dest.: 1001 Weekend Type: Station Weekend Dest.: 1001 Reroute Type: Not Assigned Reroute Dest.:

[Figure 8-11] Flexible DID Table Editing Window

ITEM	RANGE	DEFAULT	REMARK
DID Name	1 - 11 Chars	None	Max 11 characters
Day Destination	STA # / Hunt # / VMIB # VMIB # drop SPD  Int Page Ext Page All Page Net Number <b>Conf. Room</b>	Sta # Or NULL	00 - 70 (00: NOT_ASG) 00 - 70 (00: NOT_ASG) 2000-6999(ipLDK600), 2000-4999(ipLDK300), 2000 - 3499(ipLDK100) 2000-2499(ipLDK20) 1 - 30(ipLDK600/300), 1-10(ipLDK100/20) 1 - 3 1 - 3 Programmed valid Net number (In case of ipLDK20, from V2.1Aa) <b>1-9(From V3, In case of ipLDK20, from V2.1Aa)</b>
Night Destination	STA # / Hunt # / VMIB # VMIB # drop SPD Int Page  Ext Page All Page Net Number <b>Conf. Room</b>	Atd Sta#	00 - 70 (00: NOT_ASG) 00 - 70 (00: NOT_ASG) 2000-6999(ipLDK600), 2000 - 4999(ipLDK300), 2000-3499(ipLDK100) 2000-2499(ipLDK20) 1 - 30(ipLDK600/300), 1-10(ipLDK100) 1 - 3 1 - 3 Programmed valid net number(In case of LDK20, from V2.1Aa) <b>1-9(From V3, In case of ipLDK20, from V2.1Aa)</b>
Weekend Destination	STA # / Hunt # / VMIB # VMIB # drop SPD  Int Page Ext Page All Page Net number <b>Conf. Room</b>	Atd Sta#	00 - 70 (00: NOT_ASG) 00 - 70 (00: NOT_ASG) 2000-6999(ipLDK600), 2000-4999(ipLDK300), 2000 - 3499(ipLDK100) 2000-2499(ipLDK20) 1 - 30(ipLDK300), 1-10(ipLDK100) 1 - 3 1 - 3 Programmed net number(In case of ipLDK20, from V2.1Aa) <b>1-9(From V3, In case of ipLDK20, from V2.1Aa)</b>
Reroute Destination	STA # / Hunt # / VMIB # VMIB # drop SPD  Net number	Atd Sta#	00 - 70 (00: NOT_ASG) 00 - 70 (00: NOT_ASG) 2000-6999(ipLDK600), 2000-4999(ipLDK300), 2000 - 3499(ipLDK100) 2000-2499(ipLDK20) Programmed valid net number(In case of ipLDK20, from V2.1Aa)

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

**Notice)** When you use this feature, you will see the two results window. First one means the result of Day, Night and Weekend destination. And second result window displays the result of Reroute Destination and DID Name programming. So, you will check the reason of error with the result message box.

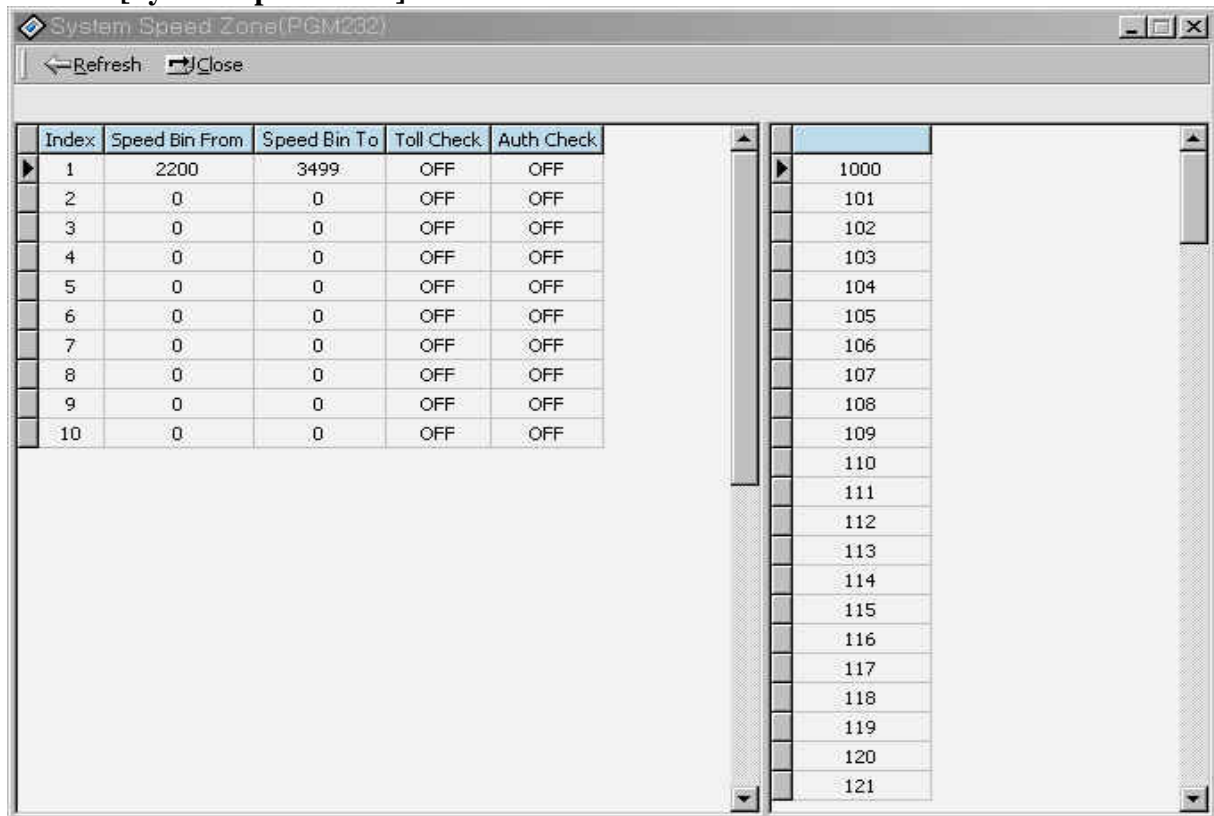


### 8.13 System Speed Zone (PGM 232)

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

Click [System Speed Zone].



[Figure 8-12] System Speed Zone Window

- Enter speed bin range in zone field. (2000~6999: ipLDK600, 2000~4999: ipLDK300, 2000~3499: ipLDK100, 2000~2499: ipLDK20 / ARIA SOHO)
- 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.
- Click [Update] button.

[Figure 8-13] System Speed Zone Editing Window

ITEM	RANGE	DEFAULT	REMARK
Speed Bin Range in Zone		<b>2200-6999</b> <i>(ipLDK600)</i> <b>2200 - 4999</b> <i>(ipLDK300)</i> <b>2200 - 3499</b> <i>(ipLDK100)</i> <b>2200 - 2499</b> <i>(ipLDK20 / ARIA SOHO)</i>	Each zone is exclusive (2000 - 2199: Toll Free Zone)
Station Range to Access Zone	STA No.	<b>1000-1599</b> <i>(ipLDK600)</i> <b>100 - 399</b> <i>(ipLDK300)</i> <b>100 - 227</b> <i>(ipLDK100)</i> <b>10 - 37</b> <i>(ipLDK20)</i> <b>100 - 151</b> <b>(ARIA SOHO)</b>	
Toll Checking	YES/NO	YES(ON)	
Auth Check	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. (ARIA SOHO: 6 entries)

### Operation

Click [**Weekly Time Table**], select a number (1 ~ 15).

Select the table index in combo box. If you select an index, data will be read. After editing, press [**Update**] button to save changes.

[Figure 8-14] Weekly Time Table 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].
- 2) Select [Update tool] in the popup menu by clicking right button of mouse.
- 3) After editing, press [Update] button to save the change.



[Figure 8-15] Voice-Mail Dialing Table Window

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

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

## 8.16 Tie Routing Table (PGM 235) – Except ipLDK20 and ARIA SOHO

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**].
- 2) Select [**Update tool**] in the popup menu by clicking right button of mouse.
- 3) After editing, press [**Update**] button to save the change.

[Figure 8-16] Tie-Routing Table Window

ITEM	RANGE	DEFAULT	REMARK
TIE ROUTING TABLE (1-30)	001 - 400	-	ForipLDK-600
TIE ROUTING TABLE (1-30)	001 - 200	-	ForipLDK-300
TIE ROUTING TABLE (1-30)	01 - 40	-	ForipLDK-100
TIE ROUTING TABLE (1-30)	01 – 12 01 – 16(from V2.0Aa)	-	ForipLDK-20

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

## 8.17 MOBILE EXTENSION TABLE (PGM 236) – (From V3) Except ARIA SOHO

Index	Enable	CO Grp	Tel Number	CLI
1	DISABLE	1	1234	567677
2	DISABLE	2		
3	DISABLE	1		
4	DISABLE	1		
5	DISABLE	1		
6	DISABLE	1		
7	DISABLE	1		
8	DISABLE	1		
9	DISABLE	1		

**Update Tool**

Index	Enable	CO Grp	Tel Number	CLI
1	<input type="checkbox"/>	1	1234	567677

Update Delete Close

[Figure 8-17] Mobile Extension Table Window

BTN	ITEM	DEFAULT	RANGE	REMARK
	Mobile Ext. Table Bin No		001– 600 001 – 300 001 – 128 001 – 028	(ipLDK-600) (ipLDK-300) (ipLDK-100) (ipLDK-20)
1	Mobile Ext. Enable	OFF	ON/OFF	
2	Mobile Ext. CO Grp.	N/A	1 – 72 1 – 24 1 – 8	(ipLDK-300/300E) (ipLDK-100) (ipLDK-20)
3	Mobile Ext. Tel No	N/A	Max 24	
4	CLI	N/A	Max 16 Digits	From V3.2Aa(PC)/3.2Ab(MP) ipLDK20: Added from V2.1Aa(MP),3.2Ba(PC)

[Table 8-13] Mobile Extension Table (PGM 236)

## 8.18 Local Code Table (PGM 204) – (ARIA SOHO-CIS Only)

This table is used for ARIA SOHO system and Nation code is CIS(Russia Federal). User can assign the local code table in this program. The local code which was entered by this table will be deleted in SMDR print. The telephone number with this code will not be recognized long distant call.

The available code value is number and digits(0~9, \*, #) and maximum length was limited by 5.



Bin	Code
Bin 1	12345
Bin 2	67890
Bin 3	****
Bin 4	####

[Figure 8-18] Local Code Table (ARIA SOHO, CIS Only)

## 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)

And initial version of *ipLDK20* Hotel is 3.6Ax and has same feature with another *ipLDK* Hotel system.

Operation flow is common with all PGMs as like below..

### Operation

- 1) Click Each Menu in left side of PCADM.
- 2) Select [**Update tool**] in the popup menu by clicking right button of mouse.
- 3) After editing, press [**Update**] button to save the change.

Each items are displayed below table.

### 9.1 HOTEL Attributes Setting (PGM 300)

This is admin feature for the basic attributes of hotel feature.

[Figure 9-1] Hotel Attributes setting



	ITEM	RANGE	DEFAULT	REMARK
1	Bath alarm timer	01-20 (2 digits)	05 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 (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	CHK-IN/OUT On-Line Print	0-1	ON	This field is a flag to print Chk-in/out msg through RS-232C or not. *Italy Default is OFF
4	Echo Mode	0-1	ON	This field is used for setting Echo Mode in PMS.
5	Toll Charge to Room	0-1	OFF	When room request to attendant (or front) for outgoing co call, at the time attendant transfer call to the room, the toll is charge to the room. (If this is 'ON') *NZ Default is ON
6	Method of payment	Bin 0 - 9 Max 7 chars	N/A	This is the methods of payment Each Bin can have max 7 name length

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

## **9.2 HOTEL ROOM Attributes Setting (PGM 301)**

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

## 9.4 Class of Room (PGM 303)

This screen is consist of 3 different PGMs. So, user can configure various items with one window as like below. In this screen, “**Index**” means the room number(Extension number).

Station	Type	Guest Name Display	Bath Alarm Ring	Service Station Name	Room Rate
10	NORMAL	V	V	LG-NORTEL	1
11	SERVICE			FRONT-DESK	N/A
12	NORMAL	V	V	TESET	5
13	NORMAL				N/A
14	NORMAL				N/A
15	NORMAL				N/A
16	NORMAL				N/A
17	NORMAL				N/A
18	NORMAL				N/A

**Update Tool**

Station: 12    Type: NORMAL

Guest Name Display: ☒    Bath Alarm Ring: ☒

Service Station Name: TESET (12 char)

Room Rate: 5 (0-19)

Update    Close

[Figure 9-2] Integrated Setting for PGM301,302,303

ITEM	RANGE	DEFAULT	REMARK
Guest Name Display	ON/OFF	OFF	When the name of Room is programmed, LCD shows the room's name with this flag.
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)

	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] Configuration for Hotel Service Station (PGM 302)

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)

Index	Room Type Cost ( Max 7 Digits)	Room Type Name ( Max 6 char )	Part Time Bin ( Range : 0 - 31 )					
			01	02	03	04	05	06
0	1243555	TEST	1	2	3	5	8	
1	0013405	SKYWAL	1	2	3	5	7	
2	0000000							
3	0000000							
4	0000000							
5	0000000							

**Update Tool**

Index 1

Room Type Cost: 0013405

Room Type Name: SKYWAL

Part Time Bin:

01	02	03	04	05	06
5	3	2	1	7	

Buttons: Update, Delete, Close

[Figure 9-3] Attributes for Room Rate

	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] Configuration for Hotel Room Type Attributes (PGM 304)

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

The screenshot shows a window titled "Attribute of Call Charge ...". It contains a table with the following data:

	( 000 - 999 % )	Max 6 char
Index	Percent of Charge	Charge Rate Name
0	10	TEST1
1	85	USER
2	44	OLD
3		
4		
5		

Below the table is an "Update Tool" section with the following fields:

Index: 2

Percent of Charge: 44

Charge Rate Name: OLD

Buttons: Update, Delete, Close

[Figure 9-4] Attributes of Call Charge Rate

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

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

## 9.7 Bar Product name (PGM 306)

Index	Name of Bar Item	Bin NO of Tax
0	COKE	1
1	PEPSI	4
2	BEER	4
3		0
4		0
5		0
6		0
7		0

**Update Tool**

Index 2

Name of Bar Item: BEER

Bin NO of Tax: 4

Update Delete Close

[Figure 9-5] |Bar Product Name

	ITEM	RANGE	DEFAULT	REMARK
1	Name of Bar Item	Max 12 character s	Null	
2	Bin no. Of Tax	0 – 4	00	

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

## 9.8 Tax Rate (PGM 307)

## 9.9 Fee for Part Time (PGM 308)

**TAX Rate**

BIN 0	12.54	(00.00 - 99.99)
BIN 1	04.55	(00.00 - 99.99)
BIN 2	22.00	(00.00 - 99.99)
BIN 3	25.25	(00.00 - 99.99)
BIN 4	40.11	(00.00 - 99.99)

**Fee for Part Time**

BIN NUM: 03 (0 - 31)

Part Time Range: 18 - 22

Bin No Of Tax: 45 (0-100 (%))

[Figure 9-6] Fee for Part Time

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)

	ITEM	RANGE	DEFAULT	REMARK
1	Part Time Range	00 – 24 Hours	N/A	Register range of part time
2	Bin no.. of Tax	000 – 100 (%)	N/A	This is used to calculate part time fee

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

## 10. VoIB Programing – Except ARIA SOHO

### 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 board number. If selected board number is not VOIB, PCADM will display error message. This program is valid only for VOIB.
2. After selecting board number, press **[Refresh]** button. Then the PC Admin will receive the information about select VoIB.
3. At first time, the whole data are default value. 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.
4. You should ask DNS address to network administrator. 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.
5. To save the data, press the **[Update]** button.
6. To erase the data, press the **[Update]** button with blank.

**Below features are supported from MPB 2.0Ba and PC Admin 2.0Ba.**

→ Default Codec, Default Gain, No Delay(TOS), Throughput(TOS), Reliability(TOS)

*\* In ipLDK20 system, VOIB Slot box will not be displayed because ipLDK20 has fixed slot number for VOIB. So, user cannot see and select the VOIB slot.*



## 10.2 Gate Keeper Programming (PGM 341, From V3.5)

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

[Figure 10-1] VoIB and Gate Keeper Programming Window

### Operation

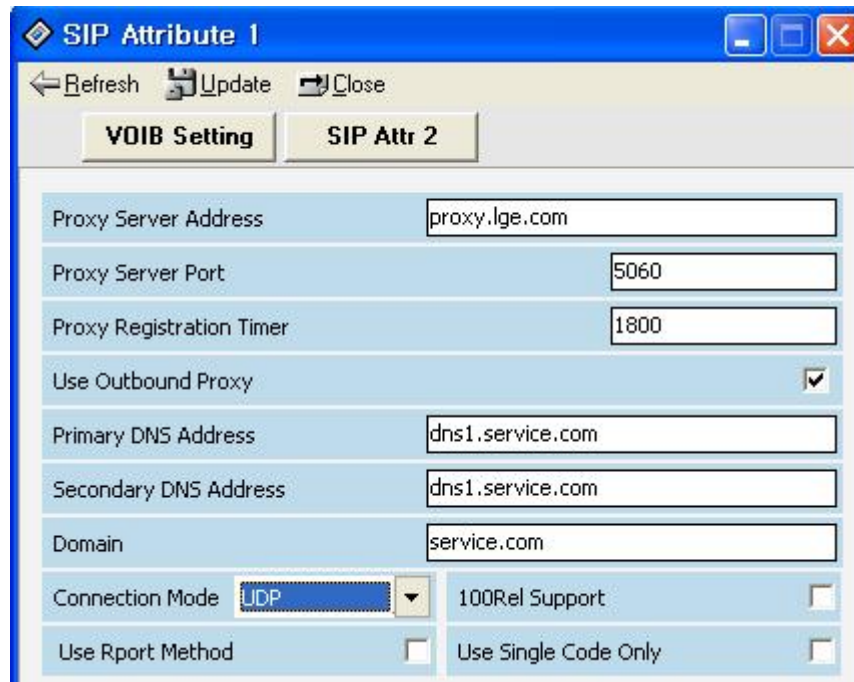
Select the VoIB board number. If selected board number is not VOIB, PCADM will display error message. This program is valid only for VOIB.

- 1) After selecting board number, press [**Refresh**] button. Then the PC Admin will receive the information about select VoIB.
- 2) At first time, the whole data are default value for gate keeper. For correct value, you should ask the network administrator about this information.
- 3) To save the data, press the [**Update**] button. Then changed data will be saved.
- 4) You should check the message area in PCADM. Message window will display the results of your operation. If you check the result, you should check each field.
- 5) This integrated screen is supported from V3.5 of *ipLDK* and PCADM. In case of *ipLDK20*, it is not supported with current software.
- 6) *SIP Attribute 1, 2 will be opened from this window from V3.6. SIP Attribute doesn't have PGM code. So, user cannot use SIP attributes with keyset.*



### 10.3 SIP Attributes 1,2 (From V3.6)

You can program SIP Attribute with V3.6. This features are not included in keyset admin item. So, if you want to change SIP Attributes, you should PCADM software with latest version.



[Figure 10-1] SIP Attribute 1

#### Operation

- 1) Proxy Server Address can be assigned text data or IP address. Maximum length of this field is 32 characters. You should enter the proxy server address if you are using proxy server in your SIP application.
- 2) Proxy port can be assigned from 0 to 9999.
- 3) Registration timer is available from 0 ~ 65535.
- 4) Primary and secondary DNS address can be entered same as proxy server address. You can enter IP address or text until 32 characters.
- 5) You can leave these fields empty.

The screenshot shows the 'SIP Attribute 2' window. It contains a table with columns: Index, User ID, Authentication User Name, Authentication User Password, Contact Number, User ID Registr., User ID Usage, and Asc Stn. The table lists 13 rows of data. Below the table is an 'Update Tool' section with input fields for Index (19), Contact Number (019), User ID Registration (Provision), User ID Usage (checked), and Asc Stn. There are also text input fields for User ID, Authentication User Name, Authentication User Password, and Authentication User Password Repeat. Buttons for 'Update' and 'Close' are present.

Index	User ID	Authentication User Name	Authentication User Password	Contact Number	User ID Registr.	User ID Usage	Asc Stn.
1	fasfasdf	sgezsdg	sdgsetv3w46gw54y6gw4e6gv3wv	5000	Register	ON	1001
2				002	Provision	OFF	
3				003	Provision	OFF	
4				004	Provision	OFF	
5				005	Provision	OFF	
6				006	Provision	OFF	
7				007	Provision	OFF	
8				008	Provision	OFF	
9				009	Provision	OFF	
10				010	Provision	OFF	
11				011	Provision	OFF	
12				012	Provision	OFF	
13				013	Provision	OFF	

Update Tool

Index: 19    Contact Number: 019    User ID Registration: Provision    ☒ User ID Usage    Asc Stn.:   

User ID:

Authentication User Name:

Authentication User Password:

Authentication User Password Repeat:

[Figure 10-1] SIP Attribute 2

- 6) **User ID, Authentication User name and Authentication User password** can be entered as text data and number. Maximum length of these fields is 64 characters.
- 7) The type of Contact Number should be number. Otherwise, PCADM will display error message.
- 8) **Authentication user password repeat** is used for confirming the user password. If there is no user password, this field should be empty. But if password is exist, you should enter the same value in this repeat field.

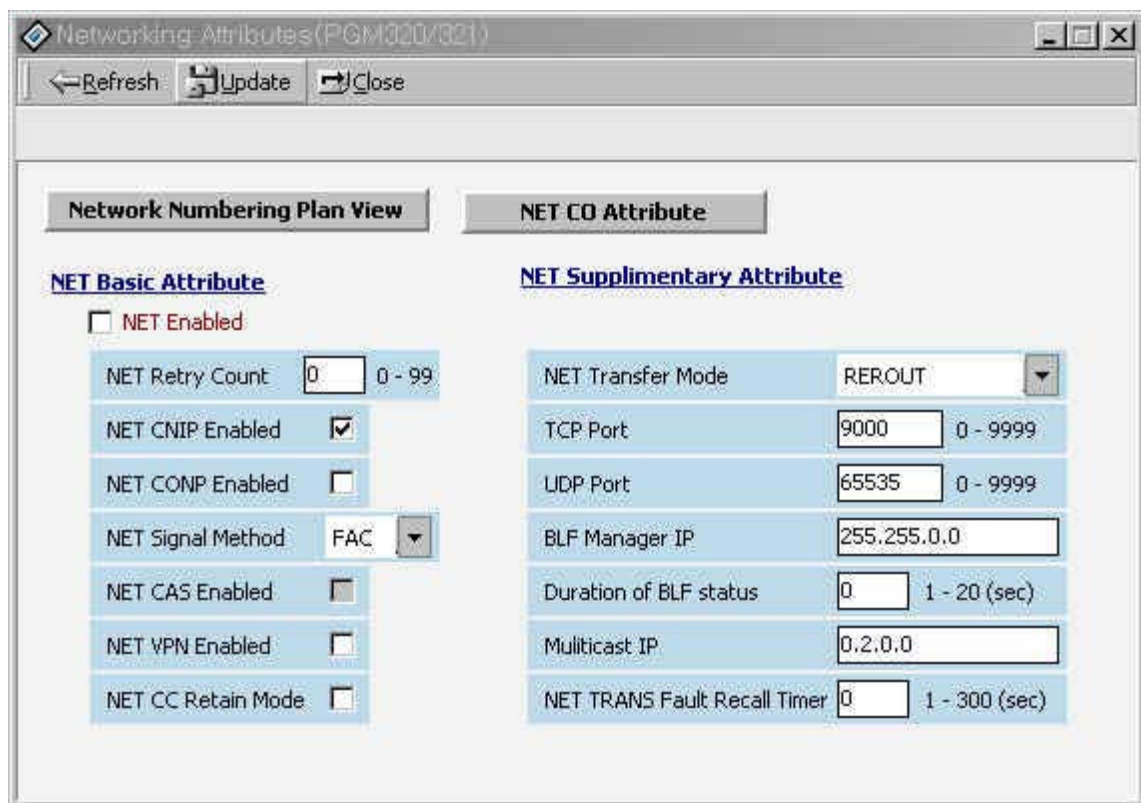
## 11. Networking Programming– Except ARIA SOHO

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

### 11.1 Networking Attributes (PGM 320/PGM321)

#### Operation

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



NET Basic Attribute		NET Supplementary Attribute	
<input type="checkbox"/> NET Enabled		NET Transfer Mode	REROUT
NET Retry Count	0 0 - 99	TCP Port	9000 0 - 9999
NET CNIP Enabled	<input checked="" type="checkbox"/>	UDP Port	65535 0 - 9999
NET CONP Enabled	<input type="checkbox"/>	BLF Manager IP	255.255.0.0
NET Signal Method	FAC	Duration of BLF status	0 1 - 20 (sec)
NET CAS Enabled	<input type="checkbox"/>	Multicast IP	0.2.0.0
NET VPN Enabled	<input type="checkbox"/>	NET TRANS Fault Recall Timer	0 1 - 300 (sec)
NET CC Retain Mode	<input type="checkbox"/>		

[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 <i>ip</i> 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 <i>ip</i> 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 In master system, CAS should be disabled.
7	VPN Enable	ON / OFF	OFF	Enable VPN function
8	<b>NET CC Retain Mode</b>	<b>ON/OFF</b>	<b>OFF</b>	

[Table 11.1] Networking Basic Attribute (PGM 320)

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)

## 11.2 Networking CO Line Attribute (PGM 322)

### Operation

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

[Figure 11.2] 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 Line Type	QSIG / PSTN	PSTN	
3	Gate Keeper Usage	ON/OFF	OFF	From V3.5(MPB, PCADM, Except ipLDK20)

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

### 11.3 Networking Basic Attribute (PGM 324)

#### Operation

- Click [Networking Numbering Plan Table]
- Click [Update Tool] to change attributes in popup menu. After changing each field, press [Update] button to save changes.
- Validation will be done by automatically.
- If user want to delete, press [Delete] button.

**Network Numbering Plan Table(PGM324)**

← Refresh    Close

Index	System Usage	NUM Plan Code	CPN/IP Info	NET CO Group	ALT SPD Bin	DEST MPB IP	Digit Repeat	CO ATD Code CLI
0	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
1	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
2	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
3	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
4	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
5	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
6	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
7	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
8	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
9	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
10	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
11	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF
12	NET		0.0.0.0 / 0.0.0.0 /			0.0.0.0	OFF	OFF

**Update Tool**

Index    5

System Usage	NET	NET CO Group	00 - 24	Update Delete Close
NUM Plan Code		ALT SPD Bin		
CPN		DEST MPB IP	0.0.0.0	
IP Info	1. 0.0.0.0    2. 0.0.0.0 3. 0.0.0.0    4. 0.0.0.0	Digit Repeat	OFF	
		CO ATD Code CLI	OFF	

[Figure 11.3] 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. 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 <b>Max 4 VOIB IP address can be programmed.</b>
5	Alternate Dial Bin	2000 – 6999 (ipLDK-600) 2000 - 4999 (ipLDK-300) 2000 - 3499 (ipLDK-100) 2000 – 2499 (ipLDK-20)	-	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.
7	Digit Repeat	YES/NO	NO	<b>If this PSTN number is not connected with PSTN line directly but connected by another networking system, make 'Digit Repeat' to YES.</b>
8	CO Atd Code CLI	ON/OFF	OFF	Use CO Attendant Code for CLI or Use NET CLI

[TABLE 11.4] Network Numbering Plan Table (PGM 324)



## 12. RSG/IP Phone Programming – from V3, *ip*LDK20 is available from V2.1Aa. Except ARIA SOHO

### 12.1 VOIB SLOT ASSIGNMENT for RSG/IP Phone (PGM 380)

### 12.2 RSG/IP Phone Port Number ASSIGNMENT (PGM 381)

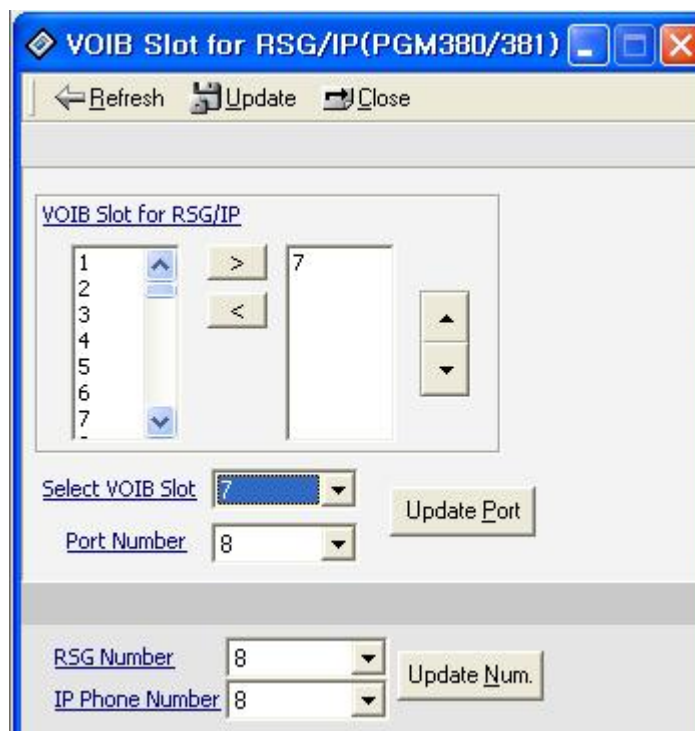
*The RSG/IP Phone receives call service through VOIB.*

*Then the VOIB for RSG/IP can be assigned.*

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

#### Operation

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



[Figure 12.1] VOIB Slot Assignment for RSG/IP Phone (PGM 380)



BTN	ITEM	RANGE	DEFAULT	REMARK
1	VOIB SLOT for RSG/IP Phone		-	VOIB slot assignment for RSG/IP Phone
2	RSG/IP CHANNEL ASSIGN		N/A	ASSIGN VOIB SLOT NO

[TABLE 12.1] VOIB Slot Assignment for RSG/IP Phone(PGM 380)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	RSG NO	0~96 : <i>ip</i> LDK300/300E 0-32 : <i>ip</i> LDK100 <b>0-8: <i>ip</i>LDK20</b>	008 (08)	The RSG number to be serviced from system
2	IP PHONE NO	0~96 : <i>ip</i> LDK300/300E 0-64 ; <i>ip</i> LDK100 <b>0-16<i>ip</i>LDK20</b>	000 (00)	The IP Phone number to be serviced from system

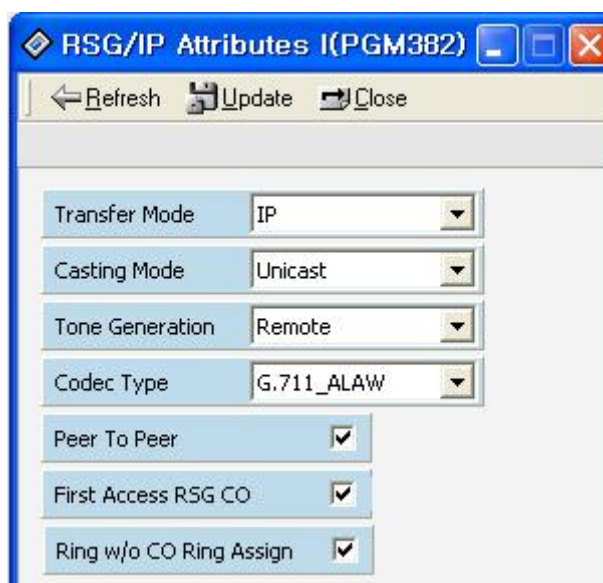
[TABLE 12.2] Port Number Assignment for RSG/ IP Phone (PGM 381)

## 12.3 RSG / IP Phone ATTRIBUTE (PGM 382)

The following is the attributes of RSG/IP Phone.

### Operation

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



[Figure 12.2] RSG/IP Phone Attribute (PGM 382)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	Transfer Mode	IP or MAC	IP	
2	Casting Mode	Unicast or Multicast	Unicast	
3	Tone Generation	<i>ip</i> LDK or Remote(RSGM/IP Phone)	Remote	
4	Peer to Peer	ON/OFF	ON	
5	Codec Type	G.711_ALAW(0)/G.711_UL AW(1)/ G.723.1(2) / G.729(3)	G.711_ALAW(0)	G.729 was added from V3.6
6	First Access RSG CO	ON/OFF	ON	If the field is set, the station on RSG can access a CO line on his RSG by dialing CO Line access code in the 1 <sup>st</sup> available CO group (ex> 9).
7	RING w/o CO Ring Assign	ON/OFF	ON	If the field is set, stations on RSG will receive the incoming CO ring even though the CO ring is not assigned.

[TABLE 12.3] RSG/IP Phone Attributes 1 (PGM 382)

## 12.4 RSG ATTRIBUTE (PGM 383/384)

The following is the attributes of RSG.

### Operation

1. Click [RSG/IP Phone Attribute

**RSG Attributes I/II(PGM383/384)**

Refresh Close

				RSG Attr I		RSG Attr II	
Bin No	MAC Address	IP Address	Port View	Port Num	NAT IP Addr.	NAT Port No.	STUN Enable
1	93:5C:DD:5B:B9:BA	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
2	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
3	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
4	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
5	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
6	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
7	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
8	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
9	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
10	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
11	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
12	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
13	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
14	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None
15	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None

**Update Tool**

Bin No.	MAC Address	IP Address	Port View	Port Num	NAT IP Addr.	NAT Port No.	STUN Enable
8	00:00:00:00:00:00	0.0.0.0	D:0,S:0,C:0	0	0.0.0.0	0	None

Update Delete Close

[Figure 12.3] RSG Attributes (PGM 383/384)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	SET MAC ADDRESS		00-00-00-00-00-00	[*] : A / [#] : B [CB] : C / [MUTE] : D [DND] : E / [FLASH] : F
2	IP Address DISPLAY		0.0.0.0	
3	PORT VIEW		D(...)S(...)C(...)	
4	PORT NUM			
5	NAT IP ADDR DISPLAY		0.0.0.0	
6	NAT PORT NUM		0	
7	STUN ENABLED		NONE	

[TABLE 12.4] RSG Attributes (PGM 383)

BTN	ITEM	RANGE	DEFAULT	REMARK
1	RTP Port number of Internal MOH		8186	
2	RTP Port number of External MOH		8188	
3	MOH Type	MUSIC/Hold Tone	Hole Tone	
4	Music Source	EXT1/INT	INT	
5	External Contact 1	LBC/Door Open	Not Assigned	
6	External Contact 2	LBC/Door Open	Not Assigned	
7	Alarm Enable	ON/OFF	OFF	
8	Alarm Contact Type	Close/Open	Close	
9	Alarm/Door Bell Mode	Alarm/Door Bell	Alarm	
10	Alarm Signal	RPT/ONCE	RPT	From V3.0Ba
11	CTI PORT	0-2	NOT_USED	
12	IP SEC Usage	On/Off	Off	

[TABLE 12.5] RSG Attributes (PGM 384)

## 12.5 RSG ALARM ASSIGNMENT (PGM 385)

The station can receive the alarm ring when the alarm on RSG is detected.

[Figure 12.4] RSG ALARM Assignment (PGM 385)

BTN	RANGE	DEFAULT	REMARK
1	RSG 01~24	None	
2	RSG 25~48	None	
3	RSG 49~72	None	
4	RSG 73~96	None	

[TABLE 12.5] RSG ALARM Assignment (PGM 385)

## 12.6 IP Phone ATTRIBUTE (PGM 386)

The following is the attributes of RSG.

### Operation

1. Click **[IP Phone Attribute]**. Then whole data will be read.
2. Select index that you want to edit and press **[Update Tool]** in popup menu. Then update tool will be activated.
3. User can edit only two fields.(MAC Address and CTI IP Address). Others will not be changed by manually.
4. After editing, press **[Update]** button to save changes.

Bin No.	MAC Address	IP Address	Port View	Port Num	NAT IP Address	NAT Port No.	STUN Enable	CTI IP Address
1	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
2	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
3	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
4	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
5	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
6	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
7	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
8	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
9	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
10	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
11	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0
12	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0

Bin No.	MAC Address	IP Address	Port View	Port Num	NAT IP Address	NAT Port No.	STUN Enable	CTI IP Address
1	00:00:00:00:00:00	0.0.0.0	0	0	0.0.0.0	0	None	0.0.0.0

Update    Delete    Close

[Figure 12.5] IP Phone Attribute (PGM 386)

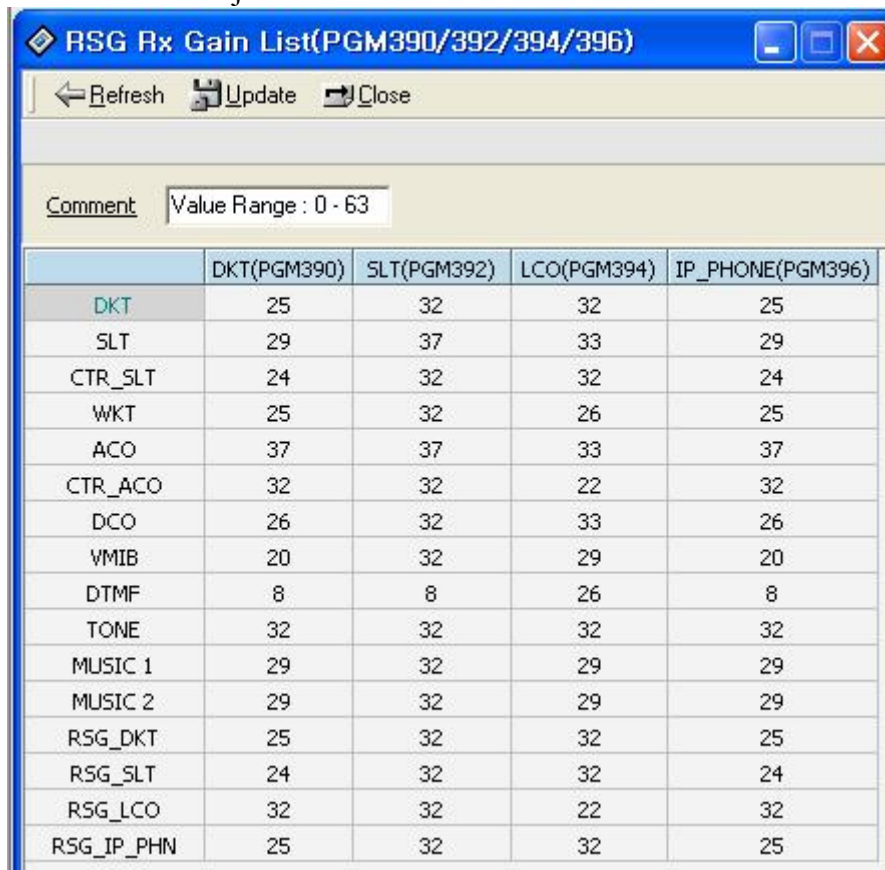
The following is the attributes of IP Phone Attribute.

BTN	ITEM	RANGE	DEFAULT	REMARK
1	SET MAC ADDR		00-00-00-00-00-00	[*] : A / [#] : B [CB] : C / [MUTE] : D [DND] : E / [FLASH] : F
2	IP Address DISPLAY		0.0.0.0	Display Only
3	PORT VIEW		N/A	Display Only
4	PORT NUM		N/A	Display Only
5	NAT IP ADDR DISPLAY		0.0.0.0	Display Only
6	NAT PORT NUM		0	Display Only
7	STUN ENABLED		NONE	Display Only
8	CTI IP ADDR(SKIP : #)		0.0.0.0	
9	IP SEC Usage	On/Off	Off	From V3.0Ba

[TABLE 12.6] IP Phone Attribute (PGM 386)

## 12.7 RSG RX GAIN CONTROL (PGM 390/392/394/396)

The RX gain on RSG can be adjusted.



**RSG Rx Gain List(PGM390/392/394/396)**

Refresh Update Close

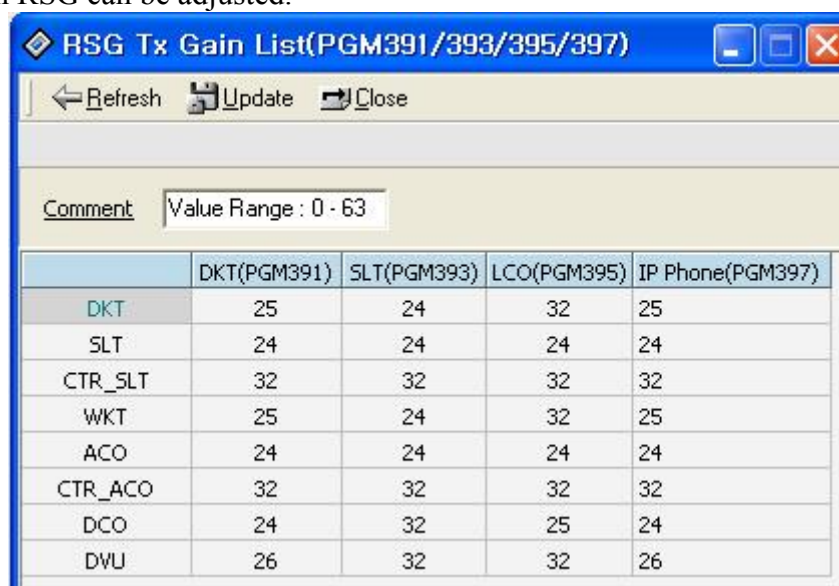
Comment Value Range : 0 - 63

	DKT(PGM390)	SLT(PGM392)	LCO(PGM394)	IP_PHONE(PGM396)
DKT	25	32	32	25
SLT	29	37	33	29
CTR_SLT	24	32	32	24
WKT	25	32	26	25
ACO	37	37	33	37
CTR_ACO	32	32	22	32
DCO	26	32	33	26
VMIB	20	32	29	20
DTMF	8	8	26	8
TOE	32	32	32	32
MUSIC 1	29	32	29	29
MUSIC 2	29	32	29	29
RSG_DKT	25	32	32	25
RSG_SLT	24	32	32	24
RSG_LCO	32	32	22	32
RSG_IP_PHN	25	32	32	25

[Figure 12.6] RSG RX Gain Control

## 12.8 RSG TX GAIN CONTROL (PGM 391/393/395/397)

The TX gain on RSG can be adjusted.



**RSG Tx Gain List(PGM391/393/395/397)**

Refresh Update Close

Comment Value Range : 0 - 63

	DKT(PGM391)	SLT(PGM393)	LCO(PGM395)	IP Phone(PGM397)
DKT	25	24	32	25
SLT	24	24	24	24
CTR_SLT	32	32	32	32
WKT	25	24	32	25
ACO	24	24	24	24
CTR_ACO	32	32	32	32
DCO	24	32	25	24
DVU	26	32	32	26

[Figure 12.7] RSG TX Gain Control



## 13. 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*.

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

### 13.2 SLIB Rx Gain Control (PGM 401)

### 13.3 SLIB12 Rx Gain Control (PGM 402)

### 13.4 WTIB Rx Gain Control (PGM 403)

### 13.5 ACOB Rx Gain Control (PGM 404)

### 13.6 ACOB8 Rx Gain Control (PGM 405)

### 13.7 DCOB Rx Gain Control (PGM 406)

### 13.8 VMIB Rx Gain Control (PGM 407)

### 13.9 DTRU Rx Gain Control (PGM 408)

### 13.10 EXT Page Rx Gain Control (PGM 409)

### 13.11 CPTU Rx Gain Control (PGM 410)

### 13.12 MODU Rx Gain Control (PGM 411)

#### Operation

1. Click [All Rx Gain Control].
2. Enter the values of gain control.
3. "N/A" means "Not used" with the system. And such field will not be changed automatically.

	DTIB	SLIB	WTIB	ACOB	DCOB	VMIB	DTMF	TONE	Music 1	Music 2	Music 3	Modem	CTR SL	CTR CO
From DTIB	25	29	25	37	26	20	8	32	29	29	29	N/A	24	32
From SLIB	24	29	24	29	24	24	8	24	24	24	24	N/A	24	24
From CTR SLI	32	37	32	37	32	32	8	32	32	32	32	N/A	32	32
From WTIB	25	29	25	37	26	20	8	32	29	29	29	N/A	24	32
From ACOB	24	29	24	29	24	24	24	24	24	24	24	24	24	24
From CTR AC	32	37	32	37	32	32	32	32	32	32	32	32	32	32
From DCOB	24	37	24	30	32	32	32	32	32	32	32	32	32	25
From VMIB	26	37	26	37	32	N/A	N/A	N/A	32	32	N/A	N/A	32	32
From DTRU	N/A	25	N/A	18	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	13
From EXT PAC	32	37	32	41	37	37	N/A	N/A	37	37	37	N/A	32	36
From CPTU	N/A	N/A	N/A	18	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13
From MODU	N/A	N/A	N/A	25	32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20

[Figure 13 -1] All Rx Gain Control Display Window



### 13.13 Other Gain Table (PGM 412 – SAF only)

This is available from MPB 2.0As and PC Admin 2.0Ba.

#### Operation

- Click [Other Gain Table].
- Edit each field in the dialog box. In this one window, there are 5 PGM features.(PGM412~416)
- So, you can edit these fields at one time.
- From V3.3Aa, PGM424 was added.

**Other Gain Table(PGM412/413/414/415/416/417)**

Refresh Update Close

**Short SLIB Gain(PGM 412)**

SSLIB / S ACO 11 SSLIB / L ACO 12

**Long SLIB Gain(PGM 413)**

LSLIB / S ACO 13 LSLIB / L ACO 14

**Far SLIB Gain(PGM 414)**

F SLIB / S ACO 15 FSLIB / L ACO 16

**Short ACO Gain(PGM 415)**

SACO / S SLIB 22 SACO / L SLIB 23

SACO / F SLIB 24 SACO / DKT 25

**Long ACO Gain(PGM 416)**

LACO / S SLIB 7 LACO / L SLIB 26

LACO / F SLIB 27 LACO / DKT 22

**DCO R2 Gain Table(PGM417)**

DCO Gain / R2 10 R2 Gain / DCO 32

**DTIB Gain Table (PGM 424)**

DKT / S ACO 12 DKT / L ACO 33

[Figure 13 -2] Other Gain table summary (PGM412 ~ 417)

### 13.14 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.

The screenshot shows a window titled "SYSTEM Tone Frequency" with a toolbar containing "Refresh", "Update", and "Close" buttons. The main area is titled "System Tone Frequency" and contains a list of tone settings, each with a label, a frequency value, and a dropdown arrow:

Tone Type	Frequency
Dial Tone : T1	425 Hz
Dial Tone : T2	0 Hz
Ring Back Tone : T1	425 Hz
Ring Back Tone : T2	0 Hz
Busy Tone : T1	425 Hz
Busy Tone : T2	0 Hz
Error Tone : T1	620 Hz
Error Tone : T2	0 Hz
Dummy Dial Tone : T1	350 Hz
Dummy Dial Tone : T2	440 Hz

[Figure 13 -3] System Tone Frequency Display Window

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

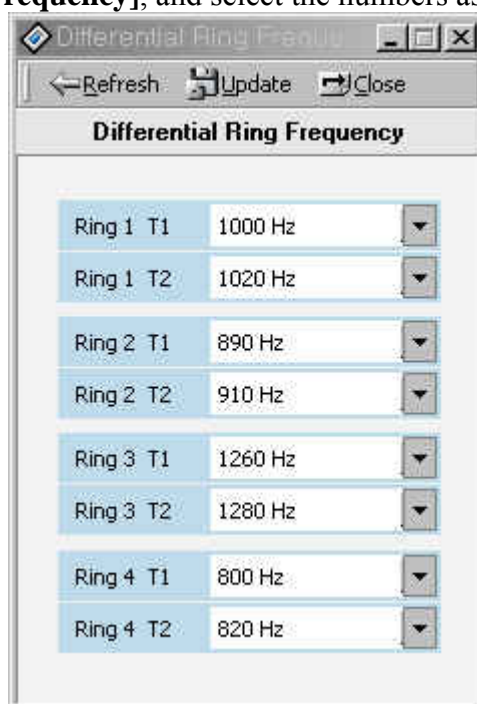
[Table 13-1] System Tone Frequency (PGM 420)

### 13.15 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 13-4] Differential Ring Frequency Display Window

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

[table 13-2] Differential Ring Frequency (PGM 421)

### 13.16 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.

Ring	T1	T2
Ring 1	480 Hz	0 Hz
Ring 2	400 Hz	0 Hz
Ring 3	620 Hz	0 Hz
Ring 4	770 Hz	0 Hz

[Figure 13-5] Distinct CO Ring Frequency Display Window

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

[Table 13-3] Distinct Ring Frequency (PGM 422)

### 13.17 ACNR Tone Cadence (PGM 423)

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

#### Operation

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

Label	Value	Range
Ring Back Tone T1 / ON	50	0 - 255
Ring Back Tone T2 / OFF	100	0 - 255
Busy Tone T1 / ON	25	0 - 255
Busy Tone T2 / OFF	25	0 - 255
Error Tone T1 / ON	12	0 - 255
Error Tone T2 / OFF	12	0 - 255
S-Dial Tone T1 / ON	70	0 - 255
S-Dial Tone T2 / OFF	0	0 - 255

[Figure 13 -6] 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 13 -4] ACNR Cadence

## 14. Initialization(DB Init)

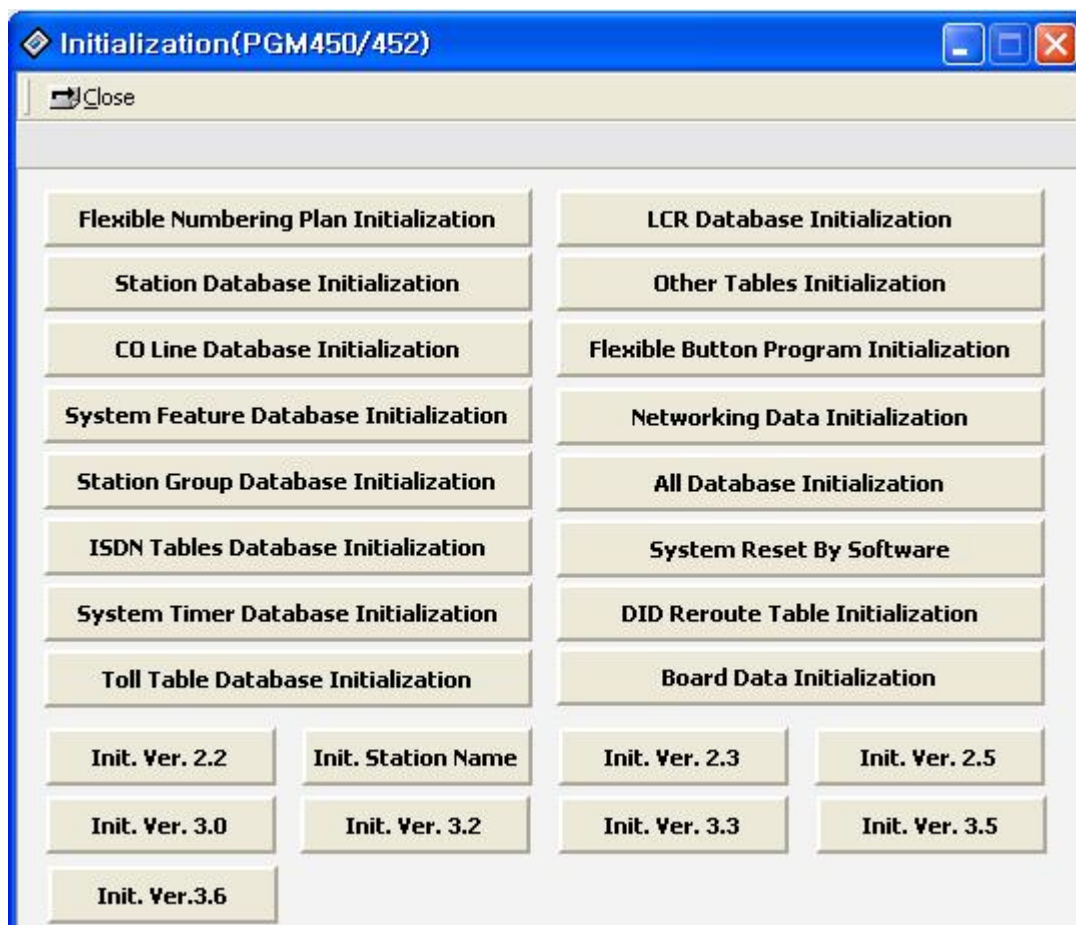
The system has been pre-programmed with default data. These features are loaded into memory when the system is initialized. The system should be always initialized when installed or at any time the database has been corrupted. To initialize the system to the default values, proceed as follows.

### Operation

- Click [**Initialization**].
- Press one of the buttons shown below to initialize.
- *From V3.0Ba, 5 initialization for special purposes were added.(Items in PGM452).*
- *From V3.3Aa, user should enter the range for station or CO that you want to initialize for Station and CO initialization.*
- *With this operation, we would like to recommend not using USB-Serial converter. It may produce communication error between ipLDK and PC.*

*“LCR Database Initialization” is not available with nation code “\*61 : AUS\_TELSTRA)*

- *In ARIA SOHO system, Initialize button with each version will not be displayed.*
- *In ARIA SOHO system, Networking Data Initialization button with each version will not be displayed.*
- *In ARIA SOHO system, ISDN table database Initialization button with each version will not be displayed.*



[Figure 14 -1] Initialize Menu Display Window

## 15. Print DataBase

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

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

#### Operation

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



[Figure 15 -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			<i>Not available with ARIA SOHO System</i>
System Timer Database Print			
Toll Table Database Print			
LCR Database Print			<i>(Not available for Nation Code *61(AUS_TELSTRA))</i>
Other Tables Print			
Nation Specific Database Print			
Flexible Button Program Print	STA_R		
All Database Print			
LCD Message Print			
Networking Data			<i>Not available with ARIA SOHO System</i>
Print Quit			

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