

# Administration & Programming Manual

Please read this manual carefully before operating System. Retain it for future reference. iPECS is an Ericsson-LG Brand



# **Revision History**

ISSUE	DATE	DESCRIPTION OF CHANGES
1.0	Sep., 2013	Initial Release
1.1	Dec., 2013	Changed Ericsson-LG to Ericsson-LG Enterprise

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# **1. INTRODUCTION**

## **1.1 Manual Application**

This document provides detailed information covering the configuration of the eMG80 database and maintenance of the eMG80. The manual also details the power-up and initialization routines and the Station Web Portal.

The manual is written for the experienced installer with knowledge of telephony terms, and functions of small and mid-sized business telecommunications systems.

# **1.2 Manual Organization**

This manual is organized in ten (10) major sections including:

- Section 1 Introduction: This section introduces the content and organization of the manual.
- Section 2 System & Admin Information: In this section general information on System capacities, power-up routines and the system initialization process are detailed. Also, this section discusses the process for registration of IP and softphones with the eMG80 system.
- Section 3 Station Administration: This section provides details on configuring the system employing a station allowed administrative access. Step by step procedures are given along with brief but concise descriptions of the various configuration parameters and available settings.
- Section 4 Web Administration: Similar to the Station Administration section, the Web Administration section gives step by step procedures and descriptions for the configuration parameters and settings available using a Web browser.
  - Section 4.5 Maintenance: The Maintenance section provides details on managing the eMG80 including database upload and download, software upgrade, and user access management using the Web browser interface.
  - **Section 4.6 Station Program**: This section discusses the configuration of the features and functions available in the portal.
- Appendix A: The Station and Attendant Station User Program codes are listed with the associated function. These fixed codes are available at the iPECS IP or LDP phones to configure basic functions such as ring tones, activate features and assign features and functions to Flex buttons.
- **Appendix B**: A complete listing of the eight basic Flexible Numbering Plans. One is selected as the system's Flexible Numbering Plan. Each of the basic Numbering Plans includes all feature and resource access codes, and any individual code can be changed.
- Appendix C: This Appendix includes a detailed listing of all the configurable

parameters by Program group and includes the default values for each parameter. It is only for Station Administration.

# 1.3 S/W & H/W Terminology

The core system software is employed with the hardware of several iPECS systems, each with their own hardware designations. The software employs terms that may differ from the Hardware and Feature manuals as indicated in the below list.

- VSF or VSF Gateway, referring to the integrated AA/VM built into the KSU Main board and the VVMU
- CO/IP or CO/IP Line, referring to external network connections, outside Lines

# 2. SYSTEM & ADMIN INFORMATION

### 2.1 System capacities

The iPECS eMG80 is available in several hardware configurations based on the Main board of the KSU. Upon initialization, the software will structure a database for the maximum possible station and CO/IP Line configurations. Thus, the software port count capacities will differ from the hardware count however, the hardware limitations always apply. The total System ports supported by the software include the Station ports, CO/IP Line ports and ports for various options including the integrated AA/VM, Miscellaneous ports, etc. Other than the Station and CO/IP Line ports, the hardware and software capacities are the same. The capacities relative to the software are provided in the table below.

_	
Item	Capacity
CO/Trunk lines	Max. 74
Stations	Max. 140
Attendants	4
LAN port	2(1 each, KSU and VVMU)
Modem Channel	1(MODU)
Serial Port(RS-232C)	1
USB(2.0) Host port	1
Alarm/Doorbell input	2 (1 per KSU)
External Control Relays	2 (1 per KSU)
	1 Internal: select one of 13 melodies
Musia Source Inpute	1 External source input
Music Source Inputs	5 SLT ports
	3 VSF announcements
Power Fail Circuit	Max. 6 (1 per KSU, EKSU, CH204, CH408, CS416)
VSF Device 1: Built-in AA/VM	4 channels(2 channels by default, 1 channel by license), 1 hour
w/MEMU (VMU)	15 hours(by license)
VSF Device 2 (VVMU)	1 hour(by default), 4 channels and 15 hours(by license)
Conference channels	148, 3-13 party or unlimited 3-party
WTIB	1
DECT Phones	48
Built-in VoIP channels	8(2 channels by default, 6 channels by license)
VVMU (VMIB) VoIP channels	8(by license)
IP Stations and SIP Trunks	48 port (32 Stations+16 SIP Trunks)
External Page	1 port
Internal Page	35 zones
System Speed Dial	3000 numbers, 23 digits each
System Speed Dial Zones (Groups)	10 zones
Station Speed Dial	100 per station, 23 digits each
Station Speed Dial	(max. 4000 numbers)
Last Number Redial	10 numbers, 23 digits each
Save Number Redial	1 number of 23 digits

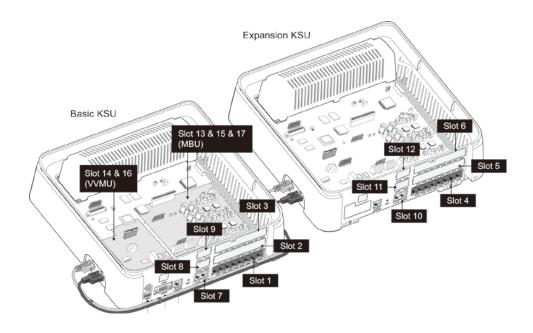
Issue	1	.1
	•	•••

Item	Capacity
Call Log(Outgoing/Incoming/Missed	15 ~ 50, 23 digits (programmable)
Call)	
DSS Consoles per Station	3
SMDR buffer	5000
CO Line Groups	20
Station & Hunt Groups	40
Station & Hunt Group Members	70
Pickup Group	50
Pickup Group Member	140
Conference Groups - System	40
Conference Groups - Station	20 per station
Executive/Secretary pairs	36
Authorization Codes	500 (Station: 140, System: 360)

# 2.2 Slot configuration

The built-in interface ports, ports of the optional Interface boards and the optional Function boards are organized into Slots. For the built-in and optional board interfaces two Slots are defined, a Slot for the Stations and a Slot for the CO/IP Lines. The Function boards use a single Slot to identify the board location. The Slots are used during the initialization routines, refer to section 2.3, to identify the installed equipment and establish the numbering for the Stations, CO/IP lines, and Function board channels. An additional Slot (Slot 18) is used by the software to identify the Conferencing channels as a virtual board.

The figure below depicts the Slot locations and Table 2.2-1 & 2.2-2 lists the Slots, the hardware designation for boards applicable for the Slot and the software reference for the type of interfaces.



Slot	KSU	H/W Reference	S/W Reference
		Built-in KSU Station interface group	
1	KSU	KSUA and KSUI: 1-DKT & 7-Hybrid	HYIB8
		KSUAD & KSUID: 8-DKT &-4 SLT	DSIB12
		CH204 or BH104	HYIB4
		CH408, BH208 or HYB8	HYIB8
2	KSU	CS416 or SLIB16	SLIB16
		WTIB4	WTIB4
		CH204 or BH104	HYIB4
2	KOU	CH408, BH208 or HYB8	HYIB8
3	KSU	CS416 or SLIB16	SLIB16
		WTIB4	WTIB4
4	FKOU	Built-in EKSU Station interface group	
4	EKSU	8-Hybrid	HYIB8
		CH204	HYIB4
5	EKSU	CH408 or HYB8	HYIB8
		CS416 or SLIB16	SLIB16
		CH204	HYIB4
6	EKSU	CH408 or HYB8	HYIB8
		CS416 or SLIB16	SLIB16
		Built-in KSU Station interface group	
7	KSU	KSUA and KSUAD: 4-CO Line	LCOB4
1	NOU	KSUI & KSUID w/PRIU:	PRIB
		KSUI & KSUID w/BRIU2	BRIB2
		CH204	LCOB2
8	KSU	CH408 or CS416	LCOB4
U	Ree	BH104	BRIB1
		BH208	BRIB2
		CH204	LCOB2
9	KSU	CH408 or CS416	LCOB4
J		BH104	BRIB1
		BH208	BRIB2
10	EKSU	Built-in EKSU Station interface group	
		4-CO Line	LCOB4
11	EKSU	CH204	LCOB2
		CH409 or CS416	LCOB4
12	EKSU	CH204	LCOB2
		CH408 or CS416	LCOB4
13	KSU	Built-in KSU VoIP channels	VOIU
14	KSU	VVMU VoIP channels	VOIB
15	KSU	Built-in 4-port 1-Hour AA/VM	VMIU
16	KSU	VVMU 4-port, 15-hour AA/VM	VMIB
17		Miscellaneous connections	MISU
18	KSU	Virtual Slot for Conferencing channels	

Table 2.2-1 eMG80 Slot Configuration (Standard)

Slot	KSU	H/W Reference	S/W Reference
		Built-in KSU Station interface group	
1	KSU	KSUAD & KSUID: 8-DKT &-4 SLT	DSIB12
		CH204	HYIB4
		CH408, HYB8	HYIB8
2	KSU	CS416 or SLIB16	SLIB16
		WTIB4	WTIB4
		DTIB8 or CD408	DTIB8
		CH204	HYIB4
		CH408 or HYB8	HYIB8
3	KSU	CS416 or SLIB16	SLIB16
		WTIB4	WTIB4
		DTIB8 or CD408	DTIB8
	FICOLI	Built-in EKSU Station interface group	
4	EKSU	8-Hybrid	HYIB8
		CH204	HYIB4
F	FKOL	CH408, HYB8	HYIB8
5	EKSU	CS416 or SLIB16	SLIB16
		DTIB8 or CD408	DTIB8
		CH204	HYIB4
0	FKOU	CH408 or HYB8	HYIB8
6	EKSU	CS416 or SLIB16	SLIB16
		DTIB8 or CD408	DTIB8
		Built-in KSU Station interface group	
7	KSU	KSUAD: 4-CO Line	LCOB4
		KSUID w/PRIU:	PRIB
8	KSU	CH204	LCOB2
0	NSU	CH408, CS416 or CD408	LCOB4
9	KSU	CH204	LCOB2
9	K3U	CH408, CS416 or CD408	LCOB4
10	EKSU	Built-in EKSU Station interface group	
10	EKSU	4-CO Line	LCOB4
11	EKSU	CH204	LCOB2
11	ENOU	CH408, CS416 or CD408	LCOB4
12	EKSU	CH204	LCOB2
12	ENOU	CH408, CS416 or CD408	LCOB4
13	KSU	Built-in KSU VoIP channels	VOIU
14	KSU	VVMU VoIP channels	VOIB
15	KSU	Built-in 4-port 1-Hour AA/VM	VMIU
16	KSU	VVMU 4-port, 15-hour AA/VM	VMIB
17		Miscellaneous connections	MISU
18	KSU	Virtual Slot for Conferencing channels	

# 2.3 Initialization

The system should be initialized before starting the configuration to assure a known starting point and automatically register installed boards. Also, if the Nation Code requires modification, the system will be initialized in the process so as to establish tones and gains appropriate for the region. You can initialize the system using the Initialization switch (Dip-switch SW1, pole-2) in the KSU or using the software Initialization PGM 450. Note the former must be used to change the Nation Code as detailed section 3.3.1.

### 2.3.1 Basic Power-Up Routine

When the KSU power switch is turned On or the KSU Reset button is pressed with power ON, the system will initiate the "Power-up" routine. During the Power-Up routine the system checks the Initialization switch and, if the switch is in the Off position, the system will perform the basic Power-up routine; clear all scratch-pad memory, load run-time programs, establish communications with each registered Interface board, Function board, iPECS IP Phone and LDP Phone, send Restart commands and load appropriate settings to the boards and terminals. The KSU also will attempt to communicate and register the EKSU. If a registered board or terminal does not respond after several attempts, the system places the device in an out-of-service mode but maintains the configuration of the device. Once the Power-up routine is complete, the system will conduct normal operations.

### 2.3.2 Registration of Boards

If the Initialization switch is in the ON position, in addition to the Power-Up routine, the system will perform the full Initialization procedure. During initialization, the system attempts to communicate with the board in each Slot, starting with Slot 1 and progressing sequentially through the slots, to determine the installed equipment. If the board is installed, the Slot number ("Sequence Number") is registered, an "Order number" is determined and the MPB MAC and IP address are assigned. Using "Order number", which is the order that devices of the same type (CO/IP Line, Station, VSF device, etc.) register, the system assigns the Station numbers and CO/IP Line numbers.

An exception to the above is the MAC and IP address of the VOIB which covers the VoIP channels on the VVMU. The VOIB has a separate MAC address and the IP address is assigned from the system. Note this IP address can be modified at a later time.

Once the system is operational and the database configured, the system can be expanded manually by registering the optional boards as detailed in PGM 235, Registration Table.

### 2.3.3 Initial Station and CO Numbering

The default Station Numbering Plan assigns a Three-digit number to each station port. Starting at the first (left) port of Slot 1, the system assigns the Station Numbers beginning at "100". The Station number increments for each port in the slot, moving to the right until reaching the last port. The process is repeated for each Station slot (1 to 6) in sequence assigning consecutive Station Numbers.

Note the Station Number Plan can be two to four digits and the Station Number for each port can be modified individually.

Slots 7 to 14 are then registered and, since they are CO/IP Lines, the Order numbers 1 to 8 are used to number the CO/IP Lines. The process is repeated for each device type.

### 2.3.4 IP Phone Registration

Unregistered iPECS IP Phones attempt to discover and register with a local (on the same LAN) iPECS system, in this case the eMG80. The phone will send a registration request to the MPB IP address. If no response is received, the phone will send a multi-cast request. With the request, the phone will send the MAC address. This address must be assigned in the PGM 235.

When the system receives the request, the MAC address received is compared to the Registration table and, if matched, the phone is registered, it is given the next available sequence number starting at "19", and assigned the next available Station Number.

If the iPECS IP Phone is configured as a remote device, it will send a registration request to the iPECS system at the configured IP address. When the system receives the request, it is processed normally except the MAC address must be assigned in PGM 442 Remote Device Register.

### 2.3.5 Default Database

Based on the installed equipment, the system populates the database with the default values, refer to Appendix C. Once the database is set to default, the system will conduct normal operations.

## 2.4 Virtual LANs

iPECS devices (modules and terminals) support the IEEE 802.1p/Q standard for Virtual LAN operation. The VLAN priority and ID (tag) are assigned in the Web Admin of each module and terminal. For the MPB, assign VLAN parameters using the command line maintenance interface through the RS-232 port or a TCP/IP connection with the following commands:

maint> vlanset pri [value] maint> vlanset id [value] maint> vlan start // priority from 0 to 7 // vlan id value (0 to 4094) // start.

## 2.5 General Admin and Menu Structure

The iPECS eMG80 can be configured to meet each customer's individual needs. System configuration may be accomplished by entering the "Program mode" at an assigned Admin Station or by pointing a Web Browser at the IP address of the, MPB. Section 3 provides a description for data entry using the Admin Station. Section 4 discusses configuration employing the Web browser. Note that some parameters are available through Web Admin and not the Keyset Admin.

Configurable items are organized as "Data" groups with a common affect, i.e. station, system, numbering plan, etc. Items are further grouped into "Programs" forming a multi-layered menu structure as the following list. Each of the Program groups is assigned a three digit "Program" (PGM) code used to access the group from an Admin Keyset. The top level Data groups include:

- System ID & Numbering Plans
- Station Data
- Board Based Data
- CO/IP Line Data
- System Data
- Station Groups Data
- ISDN Line Data
- SIP Data
- Tables Data
- Networking Data
- Zone Data
- Device Login
- DECT Data
- Green Mode
- Initialization

The default and range of values for each configurable parameter are provided in Appendix C. The index and charts are helpful references when entering data into the system's database.

Issue 1.1

# 3. STATION ADMIN PROGRAMMING

# 3.1 General

### 3.1.1 LCD & Button Functions

While in the Program mode, the Liquid Crystal Display (LCD) and Flex button LEDs of an Admin Station are used to guide and indicate status of the feature. The dial-pad is most often used to enter data after selecting a data item using the Flex buttons. In some cases, pressing a Flex button will toggle the entry with the Flex button LED indicating the status (On/Off).

For Programs with multiple Flex button selections, the volume controls (**[VOL UP]** and **[VOL DOWN]** buttons) may be used to select the next or previous item. The **[SPEED]** button is generally employed as a delete button to erase existing entries. However, where noted, it may be used to confirm a range input. Pressing the **[CONF]** button, returns to the 1<sup>st</sup> step of the data entry procedure for the Program without storing unsaved entries.

The **[Save]** button is used to store data after entry. If there are no conflicts in the entered data, confirmation tone will be received and the data stored. If a conflict exists, error tone is provided and newly entered data are not saved. Generally, corrected data may be entered and stored without restarting the entry procedure from the 1st step.

### 3.1.2 Alphanumeric Data Entries

In some cases, an alphanumeric entry is required. Two (2) dial-pad digits represent each character of an alphanumeric entry, as shown in Table 3.1.2–1 below. Use the Table to determine the two digits that must be entered from the dial-pad for each character.

5.	1.Z <sup>.</sup>		1Ar	NUMER	IC L	JIAL-PAD E
	1	Q – 11	2	A - 21	3	D - 31
		Z – 12		B - 22		E - 32
		. – 13		C - 23		F - 33
		1 – 10		2 - 20		3 - 30
	4	G – 41	5	J - 51	6	M - 61
		H - 42		K - 52		N - 62
		I - 43		L - 53		O - 63
		4 - 40		5 - 50		6 - 60
	7	P - 71	8	T - 81	9	W - 91
		R - 72		U - 82		X - 92
		S - 73		V - 83		Y - 93
		Q - 7*		8 - 80		Z - 9#
		7 - 70				9 - 90
	*	Blank -	0	0-00	#	#
		*1				
		: - *2				
		, - *3				

Table 3.1.2-1 ALPHANUMERIC DIAL-PAD ENTRIES

# 3.2 Data Entry Mode

All data entry is accomplished from an Admin Station or station assigned for data entry (Station Attributes III PGM 113, Flex button 1). After initialization and registration, any iPECS IP or LDP Phone may access the system database. In addition, as default, there is no Station Admin password defined. To enter the Program mode from the Admin Station follow the procedure below. In the left column of the chart are the LCD displays and in the right column are step-by-step instructions to modify database items.

PROCEDURE:	
STATION 100 (T) 04 SEP 01 02:49 PM	1. Press the [PGM] button. Dial '*' and '#'.
ENTER ADMIN PASSWORD	Enter the Admin password. Confirmation tone is received. As a default there is no password and this step is skipped.
ADMIN PROGRAM START	
ENTER PGM NUMBER	To select a program, use the instructions in the following sections, starting with "Press the <b>[PGM]</b> button" and dial the specified Admin Program code.

### **3.3 Procedure for Data Entry**

The following sections provide specific instructions for entering data from the Admin Station once in the Program mode. Each section provides descriptive information, step-by-step instructions and Tables for determining appropriate entries.

### 3.3.1 System ID — PGM 100

Under System ID, the country is identified using the international dial codes (NATION CODE). If the NATION code requires changing, the system must be initialized to restructure memory and create the country specific defaults, gain, frequencies and other system characteristics specific to the country and regional regulatory requirements.

To change the NATION Code on eMG80:

- Set the KSU MPB Dip-switch 1 pole 2 to the On position,
- Follow the procedure below to modify the NATION code
- Press the reset button on the KSU, power the system Off and On, or use PGM 450 to initialize the system.
- After initialization, reset switches as needed, Dip-switch 1 pole 2 should be OFF.

A twenty-four (24) character SITE NAME and the local Area Code are also defined in this program. The SITE NAME is primarily useful for the installer/programmer as a reference to the customer.

In addition, under this program the system can be programmed to select one of eight (8) Flexible Number Plans, refer to Appendix B. Individual items from the selected Numbering Plan can be changed under Flexible Numbering Plan part A to D - PGM 106 to 109- in section 3.3.2.5.

PROCEDURE:	
SYSTEM ID PRESS FLEX KEY (1-6)	1. Press the <b>[PGM]</b> button and dial 100.
	Select the desired Flex button (1~5), refer to Table 3.3.1-1. For COUNTRY CODE, refer to Table 3.3.1-2 for appropriate entries.
	Use the dial-pad to enter desired System Id data. For System Reset, button 5, press <b>[Save]</b> to reset the System Id to default.
	To store the System Id data press the <b>[Save]</b> button.

#### Table 3.3.1-1 SYSTEM ID (PGM 100)

BTN	- DISPLAY REMARK		RANGE	DEFAULT
1	COUNTRY CODE 1	Refer to Table 3.3.1-2 below. Note system must be re-initialized if changed.	4 digits	1

BTN	- DISPLAY	REMARK	RANGE	DEFAULT
2	CUSTOMER SITE NAME	Refer to Table 3.1.2-1 for alphanumeric dial-pad entries.	24 character	
3	MY MULTI AREA CODE ENTER TABLE NO(00-40)	Enter the area code of the installed site.	6 digits	
4	NUMBERING PLAN (1-8) 1	Refer to Appendix B for details of Numbering Plan selection.	1-8	1
5	PREFIX USAGE (1:ON/0:OFF) : OFF	Enable/Disable 8-digit Station Numbering Plan. Assign the Prefix codes in the 8- Digit Numbering Table (PGM238).	0: OFF 1: ON	OFF
6	SYSTEM ID SYSTEM RESET	Returns the System Id to default.		

#### Table 3.3.1-1 SYSTEM ID (PGM 100)

#### Table 3.3.1-2 COUNTRY CODES

COUNTRY	CODE	COUNTRY	CODE	COUNTRY	CODE
America	1	Argentina	54	Australia	61
Bahrain	973	Bangladesh	880	Belgium	32
Bolivia	591	Brazil	55	Brunei	673
Burma	95	Cameroon	237	Chile	56
China (Taiwan)	886	CIS	7	Colombia	57
Costa Rica	506	Cyprus	357	Czech	42
Denmark	45	Ecuador	593	Egypt	20
El Salvador	503	Ethiopia	251	Fiji	679
Finland	358	France	33	Gabon	241
Germany	49	Ghana	233	Greece	30
Guam	671	Guatemala	502	Guyana	592
Haiti	509	Honduras	504	Hong Kong	852
India	91	Indonesia	62	Iran	98
Iraq	964	Ireland	353	Israel	972
Italy	39	Japan	81	Jordan	962
Kenya	254	Korea	82	Kuwait	965
Liberia	231	Libya	218	Malta	356
Luxembourg	352	Malaysia	60	Morocco	212
Mexico	52	Monaco	377	Nigeria	234
Netherlands	31	New Zealand	64	Pakistan	92
Norway	47	Oman	968	Paraguay	595
Panama	507	P.N.G	675	Portugal	351
Peru	51	Philippines	63	Senegal	221
Qatar	974	Saudi Arabia	966	Spain	34
Singapore	65	South Africa	27	Sweden	46
Sri Lanka	94	Swaziland	268	Tunisia	216
Switzerland	41	Thailand	66	United Kingdom	44
Turkey	90	U.A.E.	971	Y.A.R.	967
Uruguay	598	Venezuela	58		

### 3.3.2 NUMBERING PLANS DATA — PGM 102 to 109

#### 3.3.2.1 System IP Address Plan — PGM 102

The System IP Address Plan sets several IP addresses including the KSU LAN port IP address (MPB IP Address) required for external VoIP calls, the IP address for the router, and the system's internal private IP address Plan. Note that the MPB and Router addresses and sub-net mask must be a routable IP address for access to an external VoIP network, remote access by a gateway/board or terminal and remote Web access. The VOIB must also have a routable IP address for access to/from an external VoIP network or remote user.

When Automatic IP Assignment, button 7, is enabled, the system will assign IP addresses to each local terminal and the VOIB (VoIP channel of the VVMU) using the assigned System IP address range. These addresses are used for communications between the system and the VOIB and terminals.

The system may be connected to a LAN that is segmented by two separate private IP address schemes. This segmenting technique is often used to separate voice and data devices. However, with this segmenting technique, the system would normally treat the segmented Terminals such as iPECS Soft Phones, as remote devices, using valuable WAN bandwidth. Assigning the "Second Sys IP address" with valid IP address from the second segment permits the system to communicate with the devices directly over the LAN.

iPECS can be installed behind a NAPT server, if the NAPT server provides fixed address translation and port forwarding to the system. In this case, the system will employ the "Firewall IP address", button 10, as the fixed public IP address for communication with remote devices. This address must be assigned as the "MFIM" address in the remote device.

PROCEDURE:	
SYSTEM IP ADDRESS PLAN PRESS FLEX KEY (01-19)	1. Press the <b>[PGM]</b> button and dial 102.
	Select the desired button $1 \sim 19$ , refer to Table 3.3.2.1-1.
	Use the dial-pad to enter desired IP addresses. Use an "*" to enter a dot (".")
	Press the [Save] button to store IP address entries.

#### Table 3.3.2.1-1 SYSTEM IP ADDRESS PLAN (PGM 102)

BTN	DISPLAY	DEFAULT	REMARK
1	MPB IP ADDRESS 10 .10 .10 .2	10.10.10.2	This is the IP address of the KSU LAN port A. A Public IP Address is required for remote user and external VoIP network access. IPv4 format.
2	MPB SUB NET MASK 255.255.255.0	255.255.0.0	
3	ROUTER IP ADDRESS 10 .10 .10 .1	10.10.10.1	IP Address of router for external network (WAN) access. Required for shared voice and data LAN, external VoIP and remote Web access.
4	SYSTEM START IP ADDRESS 10.10.10.10	10.10.10.10	Start of range for private IP addresses assigned by the system to Modules/Terminals.

BTN	DISPLAY	DEFAULT	REMARK
5	SYSTEM END IP ADDRESS 10.10.10.254	10.10.10.254	End of range for private IP addresses assigned by the system to Modules/Terminals.
6	SYSTEM SUB NET MASK 255.255.255.0	255.255.0.0	
7	AUTOMATIC IP ASSIGN (1:ON/0:OFF): ON	ON	The system will automatically assign IP addresses to modules and terminals (ON) or, when OFF, IP addresses are assigned manually in PGM 103 Device IP Address Plan.
8	SECOND SYS IP ADDRESS 0 .0 .0 .0	0.0.0.0	When devices are located on a different private address on the same net, enter the MPB IP address for the second LAN.
9	SECOND SYS SUB NET MASK 255.255.255 .0	255.255.255.0	
10	FIREWALL IP ADDRESS 0 .0 .0 .0	0.0.0.0	When the system is installed behind a NAPT server, the fixed IP Address provided by the NAPT server must be assigned in this field. Also, use this IP address for the MPB address in remote devices.
11	FIRST START MAC ADDR 000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the start address of the first range.
12	FIRST END MAC ADDR 000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the end address of the first range.
13	SECOND START MAC ADDR 000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the start address of the second range.
14	SECOND END MAC ADDR 000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the end address of the second range.
15	SYSTEM IP ADDRESS PLAN SYSTEM RESET		Returns System IP Address Plan to default values.
16	UNUSED		Unused.
17	UNUSED		Unused.
18	MPB DNS IP ADDR 0 .0 .0 .0	0.0.0.0	IP Address of Domain Name Server, which iPECS will use to resolve URL to an IP address. The DNS provides the resolution after receiving the name from iPECS.
19	MPB DHCP (1:ON/0:OFF) : OFF	OFF	Enable/Disable DHCP client function for the MPB.

### Table 3.3.2.1-1 SYSTEM IP ADDRESS PLAN (PGM 102)

### 3.3.2.2 Device IP Address Plan -PGM 103

TDM board is registered with own slot number. It is registered automatically without any configuration.

To register an IP device:

As IP gateway/board and terminals register to the iPECS, a logical slot number is assigned, which indicates the order of registration. Also, based on the type of device (CO/IP gateway/board, Terminal) the system assigns a logical Sequence Number. Thus, Sequence Numbers for CO gateway/board, Terminals are independently assigned based on the type of gateway/board. These Sequence Numbers are employed to provide a relationship between the physical MAC address and the logical port numbers of the device.

The system may assign a default private IP address to each Sequence Number. If desired, this program may be used to modify the assigned IP address for each gateway/board and iPECS Phone.

Each local gateway/board and terminal can be assigned for "Direct Send". With Direct Send enabled, the system will employ the Ethernet MAC address, layer 2 switching to eliminate the need for IP traffic overhead, reducing overall LAN traffic.

The system normally employs IP multi-cast protocol to respond to a registration request from a gateway/board or terminal. When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the "Local Device" assignment.

When disabled (Off), the system will send an IP uni-cast message to the device in response to a registration request.

PROCEDURE:	
DEVICE IP ADDRESS PLAN PRESS FLEX KEY (1-7)	1. Press the <b>[PGM]</b> button and dial 103.
	Select the desired Flex button.
	Button 1: CO & VOIP Gateway/Board
	Button 2: Stations
	Button 3: MISU
	Button 4: VMIU, VMIB
	Button 5: MCIB
	Button 6: SYSTEM RESET
	Button 7: WTIB
	Use the <b>[VOL UP]</b> and <b>[VOL DOWN]</b> buttons to see next/
	previous IP Address. Refer to Table 3.3.2.2-1 for display
	information.

PROCEDURE:	
	Press Flex 1~6 to select the Sub-menu item desired. See Table 3.3.2.2-1.
	Button 1: IP address
	Button 2: MAC address
	Button 3: ARP
	Button 4: REGISTRATION
	Button 5: CPU Type
	Button 6: Device (Board) ID
	Use the dial-pad to enter desired data. For IP and MAC addresses, an "*" is used to enter a dot (".")
	Press the <b>[Save]</b> button to store the data entry.

BTN	DISPLAY	FEATURE	DEFAULT
1	001-001 :B40EDCBF5606 VOIP 1 :10 .10 .10 .2	LCD shows: Line 1 Sequence Number, 2 or 3 digits MAC Address, 12 digits Line 2 Module Type, 4 characters First Logical port number IP Address, 7~12 digits	CO & VoIP board IP address set sequentially, from the range in PGM 102.
1–1	SET IP ADDRESS VOIP 1 : 10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
1–2	SET MAC ADDRESS 001-001 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address in the system memory.	None
1–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
1–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
1–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
1–6	DEVICE(BOARD) ID PRIB	Flex button 6 displays the Board type designation.	
2	001-001 : B40EDCBF5606 KTU 100 :10.10.10.10	LCD shows: Line 1 Sequence Number, 3 digits MAC Address, 12 digits Line 2 Station Type, 3 characters Station Number, 2~4 digits IP Address, 7~12 digits	Station IP address set sequentially, from the range in PGM 102.
2–1	SET IP ADDRESS KTU 100 :10.10.10.10	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254

BTN	DISPLAY	FEATURE	DEFAULT
2–2	SET MAC ADDRESS 001-001 : B40EDCBF5606	Use Flex 2 button to enter the device's MAC address into system memory.	None
2–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
2–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
2–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
2–6	DEVICE(BOARD) ID HYIB	Flex button 6 displays the terminal type designation.	
3	001-017 : B40EDCBF5606 MISU :10.10.10.2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 "MISU" IP Address, 7~12 digits.	IP address of MISU. Functions in the system's MPB set automatically,
3–1	SET IP ADDRESS MISU :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
3–2	SET MAC ADDRESS 001-003 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address into system memory.	None
3–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
3–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
3–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
3–6	DEVICE(BOARD) ID MISU	Flex button 6 displays the MISU type designation.	
4	001-015 : B40EDCBF5606 VMIU :10.10.10.2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 device type and IP address.	
4–1	SET IP ADDRESS VMIU :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254

BTN	DISPLAY	FEATURE	DEFAULT
4–2	SET MAC ADDRESS 001-015 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address into system memory.	None
4–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
4–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
4–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
4–6	DEVICE(BOARD) ID VMIU	Flex button 6 displays the type designation.	
5	001-018 : FFFF0000FFFF MCIB : 10 .10 .10 .2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 device type and IP address.	
5–1	SET IP ADDRESS MCIB :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
5–2	SET MAC ADDRESS 001-018 : FFFF0000FFFF	Use Flex button 2 to enter the device's MAC address into system memory.	None
5–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
5–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
5–5	CPU TYPE MS828	Flex button 5 displays the type of CPU employed in the device.	
5–6	DEVICE(BOARD) ID MCIB_V	Flex button 6 displays the type designation, MCIB_V.	
6	DEVICE IP ADDRESS PLAN SYSTEM RESET	If the <b>[Save]</b> button is pressed, the system will reset and restart.	
7	001-003 : 00405A142C67 WTIB : 10:10:10:14	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 "WTI4" and IP Address, 7~12 digits.	
7–1	SET IP ADDRESS WTIB :10.10.10.14	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254

BTN	DISPLAY	FEATURE	DEFAULT
7–2	SET MAC ADDRESS 001-003 : 00405A142C67	Use Flex button 2 to enter the device's MAC address into system memory.	None
7–3	ARP (0:ON/1:OFF): OFF	Use Flex button 3 to enable/disable ARP, ARP OFF enables Direct Send, which employs layer 2 switching to local devices.	OFF
7–4	REGISTRATION (0:UCAST/1:MCAST):MCAST	Use Flex button 4 to disable/enable Local Device Mode, which defines the device as on a common LAN with the system. MCAST enables Local Device Mode.	MCAST
7–5	CPU TYPE MS828	Flex button 5 displays the type of CPU employed in the device.	
7–6	DEVICE(BOARD) ID WTIB	Flex button 6 displays the type designation, WTIB.	

### 3.3.2.3 CO Device Sequence Number -PGM 104

The system uses the Sequence Number to assign logical (software) port numbers. This Sequence Number relates the hardware and software port numbers for each device.

PROCEDURE:	
001 002 003 004 005 006 009 007 008 013 014	1. Press the <b>[PGM]</b> button and dial 104.
001 002 003 004 005 006 009 007 008 013 014	Press the Flex button (1~6) for the desired Sequence Number, use the <b>[VOL UP]</b> and <b>[VOL DOWN]</b> buttons for the next/previous set of six Sequence Numbers.
001 002 003 004 005 006 009 007 008 013 014	Using the dial pad, enter new slot numbers. Note slot numbers cannot be duplicated and duplicates will cause an error. The <b>[SPEED]</b> button may be used to erase the slot number associated with the selected Sequence Number.
	Press the [Save] button to store the new Slot data.

### 3.3.2.4 Flexible Station Numbering Plan -PGM 105

Each LDP Phone, iPECS IP Phone and SLT is assigned a Sequence Number during the registration process. The station Sequence Number is a 3-digit number starting at 001, which is incremented as each terminal device is registered. At registration, station numbers increment sequentially with the Sequence Number and are assigned starting at station 100 for Sequence Number 001. The Station Numbering Plan allows the station numbers to be Three (3) to eight (8) digits in length.

PROCEDURE:	
001 002 003 004 100 101 102 103	1. Press the <b>[PGM]</b> button and dial 105.
	Use either of the two methods below to change the station number associated with a Sequence Number. Note pressing the <b>[SPEED]</b> button twice clears all station number assignments. The <b>[VOL UP] / [VOL DOWN]</b> buttons are used to view the next/previous 2 station Sequence Numbers.
	Range entry: Using the dial-pad, enter a station number range (first & last station number). The two station numbers must be of the same length, 2~8 digits. The range assignment begins with the first station number shown by the LCD and continues to the end of the entered range.
	<ul> <li>Single entry:</li> <li>4.1 Press Flex button 1~4 to select the desired Sequence Number from the two shown by the LCD.</li> <li>4.2 Dial new station number.</li> <li>Press the [Save] button to store the new station numbers.</li> </ul>

#### 3.3.2.5 Flexible Numbering Plan part A to D - PGM 106 to 109

Feature dial codes for the system can be assigned using the system's Flexible Numbering Plan. Feature codes should be one (1) to four (4) digits in length and must not conflict. For example, Feature dial codes 53 and 536 represent a conflict. The system will generate error tone and will not update the database. Table 3.3.2.5-1 to Table 3.3.2.5-4 below show the defaults for the 1st base Numbering Plan. Appendix B provides the default values for each of the eight base Numbering Plans, select the base Numbering Plan in PGM 100.

PROCEDURE:	
FLEX NUMBERING PLAN A PRESS FLEX KEY (01-24)	<ol> <li>Press the <b>[PGM]</b> button and dial: 106 for part A 107 for part B 108 for part C 109 for part D.</li> </ol>
	Select the desired button (01~24); refer to Table 3.3.2.5-1 to Table 3.3.2.5-4 for <b>PGM</b> 106 to 109 respectively.
	Use the dial-pad to enter desired data. Where a range is required, input the first and last numbers in the range.
	Press the <b>[Save]</b> button to store the new Numbering Plan data.

#### Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

BTN	DISPLAY	FEATURE	DEFAULT
1	INT PAGE ZONES START& END:301-335	Internal Page Zone access codes.	301~335
2	INT ALL CALL ENTER NEW #:543	Internal All Call Page access code.	543
3	MEET ME PAGE ENTER NEW #:544	Meet-Me-Page answer code.	544
4	EXT PAGE ZONE 1 ENTER NEW #:545	External Page Zone 1 access code.	545
5	UNUSED		
6	EXT ALL CALL ENTER NEW #:548	External All Call Page access code.	548
7	ALL CALL PAGE ENTER NEW #:549	All Call Page access code.	549

BTN	DISPLAY	FEATURE	DEFAULT
8	SMDR ACT CODE ENTER ENTER NEW #:550	Dial code to signify the start of an SMDR Account Code.	550
9	FLASH CMD TO CO ENTER NEW #:551	Dial code to generate a Flash on the active CO Line.	551
10	SLT LAST SPD DIAL ENTER NEW #:552	SLT Last Number Redial feature access code.	552
11	DND ENTER NEW #:553	Dial code to activate Do-Not-Disturb.	553
12	CALL FWD ENTER NEW #:554	Dial code to activate Call Forward.	554
13	SPD DIAL PGM ENTER NEW #:555	Speed Dial programming access dial code for SLTs.	555
14	MSG WAIT ENABLE ENTER NEW #:556	Dial code to activate a Message Wait/Call Back.	556
15	MSG WAIT RETURN ENTER NEW #:557	Dial code to return a Message Wait/Call Back.	557
16	SPD DIAL ACCESS ENTER NEW #:558	SLT Speed Dial access code.	558
17	DND/FWD CANCEL ENTER NEW #:559	Dial code to cancel DND/FWD/MSG Wait.	559
18	CO SYS HOLD ENTER NEW #:560	Dial code to place a CO call on System Hold.	560
19	SLT PGM MODE ENTER ENTER NEW #:561	User program mode entry dial code for SLTs.	561
20	ATTD UNAVAILABLE ENTER NEW #:562	Dial code to place attendant in the "unavailable" mode, attendant only.	562
21	ALARM RESET ENTER NEW #:565	Dial code to terminate Alarm contact signal.	565
22	GROUP CALL PICK-UP ENTER NEW #:566	Group Call Pick-up dial code.	566
23	UNIVERSAL ANSWER ENTER NEW #:567	Universal Night Answer dial code.	567

#### Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

BTN	DISPLAY	FEATURE	DEFAULT
24	ACCNT CODE WITH BIN ENTER NEW #:568	Dial code for entering an Account code.	568

#### Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

### Table 3.3.2.5-2 FLEXIBLE NUMBERING PLAN PART B (PGM 107)

BTN	DISPLAY	FEATURE	DEFAULT
1	WALKING COS ENTER NEW #:569	Dial code to activate Walking Class-of- Service.	569
2	ACD AGENT ON/OFF DUTY ENTER NEW #:571	Dial code to toggle ACD Agent or Supervisor ON and OFF duty.	571
3	ACD SUPERVISOR LOGIN ENTER NEW #:572	Supervisor login dial code.	572
4	ACD SUPERVISOR LOGOUT ENTER NEW #:573	Supervisor logout dial code.	573
5	ACD HELP CODE ENTER NEW #:574	Agent code requesting Supervisor help and Supervisor Help request Response code.	574
6	ACD CALLS IN QUEUE ENTER NEW #:575	Dial code to display calls in queue.	575
7	ACD SUPERVISOR STATUS ENTER NEW #:576	Dial code to display group status.	576
8	ACD SUPERVISOR MONITOR ENTER NEW #:577	Dial code to activate Supervisor monitor.	577
9	ACD REROUTE QCALL ANS ENTER NEW #:578	Dial code to reroute call after answer.	578
10	ACD REROUTE QCALL NO AN ENTER NEW #:579	Dial code to reroute call prior to answer.	579
11	CAMP-ON ANSWER ENTER NEW #:621	Dial code to answer a Camped On call.	621
12	CALL PARK LOCATIONS START#:#601-#619	Dial code to place/retrieve a call in a Park location.	#601~#619
13	STA GRP PILOT NUMBER START #:401-440	Station group pilot numbers.	401~440

BTN	DISPLAY	FEATURE	DEFAULT
14	STA USER VSF FEATURES ENTER NEW #:*66	VSF feature access code.	*66
15	CALL COVERAGE RING ENTER NEW #:76	Code for Call Coverage button.	76
16	DIRECT CALL PICK-UP ENTER NEW #:*77	Dial code to activate Directed Call Pick- up.	*77
17	ACCESS CO GROUP FEAT ENTER NEW #:89	Dial code to access a CO Line or IP channel from a CO/IP group.	89
18	ACCESS IND CO/IP FEAT ENTER NEW #:88	Dial code to access a specific CO Line.	88
19	ACCESS HELD CO/IP FEAT ENTER NEW #:8*	Dial code to access last held CO Line or IP channel from Hold.	8*
20	ACCESS HELD IND CO/IP ENTER NEW #:8#	Dial code to access a specific CO Line/IP channel from Hold.	8#
21	ACCESS CO IN 1ST CO GRP ENTER NEW #:9	Dial code to access the 1st available CO Line in any accessible group.	9
22	ATTENDANT CALL ENTER NEW #:0	Dial code to call an Attendant.	0
23	VM MSG WAIT ENABLE ENTER NEW #:*8	Dial code for external Voice mail to activate Message Wait indication.	*8
24	VM MSG WAIT CANCEL ENTER NEW #:*9	Dial code for external Voice Mail to deactivate Message Wait indications.	*9

### Table 3.3.2.5-2 FLEXIBLE NUMBERING PLAN PART B (PGM 107)

### Table 3.3.2.5-3 FLEXIBLE NUMBERING PLAN PART C (PGM 108)

BTN	DISPLAY	FEATURE	DEFAULT
1	DOOR OPEN 1 ENTER NEW #:#*1	Dial code to activate Door 1 contact (open door 1)	#*1
2	DOOR OPEN 2 ENTER NEW #:#*2	Dial code to activate Door 2 contact (open door 2).	#*2

BTN	DISPLAY	FEATURE	DEFAULT
1	MCID REQUEST ENTER NEW #:*0	Dial code to activate Malicious Call ID Request in ISDN Supplementary service. Not available in USA version.	*0
2	AME FEATURE ENTER NEW #: 564	Dial code to assign an Answering Machine Emulation Flex button.	564
3	US-CONF TMR EXTENSION ENTER NEW #:##	Dial code to extend Unsupervised conference time.	##
4	PTT GROUP LOGIN/OUT ENTER NEW #:#0	Push-To-Talk group login and logout dial code. The station must have a PTT button for proper operation.	#0
5	ACD AGENT P LOGIN ENTER NEW #:581	ACD Agent Primary Login code.	581
6	ACD AGENT P LOGOUT ENTER NEW #:582	ACD Agent Primary Logout code.	582
7	ACD AGENT S LOGIN ENTER NEW #:583	ACD Agent Secondary Login code.	583
8	ACD AGENT S LOGOUT ENTER NEW #:584	ACD Agent Secondary Logout code.	584
9	ACD AGENT WRAPUP END ENTER NEW #:585	ACD Agent wrap-up end code.	585
10	TNET CM LOGIN/OUT ENTER NEW #:586	When Central Control networking (TNET) is employed, a station can be manually logged in or out of the Central system using this code.	586
11	ENTER INTO CONF-ROOM ENTER NEW #:59	Code for a station to enter a conference room.	59
12	ENTER INTO CONF-GROUP ENTER NEW #:68	Code to open a conference group.	68
13	STATION ICR ENTER NEW #:587	Code to activate Station ICR.	587
14	PICK UP GROUP PICK-UP ENTER NEW #:588	Pick Up Group Call Pick-up dials code.	588
15	EMERGENCY PAGE ENTER NEW #:589	Code for emergency page.	589
16	REMOTE MEX CONTROL ENTER NEW #:580	Code to control the mobile extension settings remotely.	580

Table 3.3.2.5-4 FLEXIBLE NUMBERING PLAN PART D (PGI	M 109)
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BTN	DISPLAY	FEATURE	DEFAULT
17	ALL GR AGENT ON/OFF DUT ENTER NEW #:58*	Code to change the state of the Agent ON/Off duty in all hunt groups.	58*
18	SLT ACNR CODE ENTER NEW #:58#	In SLT, user can ACNR feature by using this numbering plan.	58#
19	ACD SUPERVISOR RING MODE ENTER NEW #:570	Code to check and change ACD group Ring mode by ACD group supervisor.	570
20	COMPANY DIRECTORY NAME ENTER NEW #:563	Code to check and change recording station subscribe name of Company Directory feature. (USA Only)	563
21	ISDN SUPP HOLD ENTER NEW #:57*	ISDN Supplementary Service for HOLD.	57*
22	ISDN SUPP CONF ENTER NEW #:57#	ISND Supplementary Service for Conference (Not supported).	57#
23	FORCED SEIZE BUSY STN/CO ENTER NEW #:56*	Busy Station / CO can be connected with entering this Code.	56*
24	ADDED FLEX NUMBER PLAN PRESS FLEX KEY (1-4)		
24-1	OVERRIDE DND/CFW ENTER NEW #:56#	[56#] + Station number, then the station's DND or CFW setting will be overridden.	56#
24-2	CANCEL CALL BACK ENTER NEW #:	It is used to cancel call back.	
24-3	XFER TO VSF ANNC NO ENTER NEW #:55*	When a station is talking over a CO line User, [Transfer] + [55*] + Valid system announcement (01-70), then Outside user can hear system announcement, and system starts DISA service.	55*
24-4	CCR ENTER NEW #:#2	It is used in digit conversion.	#2

### 3.3.2.6 8-Digit Table

We can support it more 4 digits for station number. Station numbering should not conflict with numbering plan. It is consist of prefix digits and add digits. Prefix digits can have up to 4 digits and Add digits can have up to 4 digits.

PROCEDURE:	
DIGIT 8 TBL ENTER TBL NO(01-10)	1. Press the <b>[PGM]</b> button and dial 238.
Digit 8 TBL 1 : Empty	Use the dial-pad to enter the desired table number.
	Press the desired Flex button; refer to Table 3.3.2.6-1.
	Use the dial-pad to enter the required data.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.2.6-1 8-Digit Table (PGM 238)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TBL 1 : SET 8 digit 8 Digit 1 :	The user may be allowed to enter the prefix digits using character assign method. (ex : $4+0 \rightarrow 4$ )	Up to 4 digits	N/A
2	TBL 1: SET ADD DIGIT ADD DIGIT : 0	The user can be allowed to add digits. (ex: if it's set 3, prefix digits + xxx)	Up to 4 digits	0

# 3.3.3 Station Data – PGM 110-125

### 3.3.3.1 Station Type -PGM 110

Each station is assigned a type, which is used by the system to recognize the station's capabilities and default Flex button configuration. In addition, for the iPECS DSS/BLF Consoles, the associated station number is identified here. Note that the maximum of three (3) DSS Consoles(LIP DSS & LDP DSS) can be associated and connected to a station.

PROCEDURE:	
STATION TYPE ASSIGN ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 110.
100-110 F1:TY F2:ASC IPKTU	Use the dial-pad to enter a station range (Ex 100~110). For a single station, enter the same number twice; use this procedure for an iPECS DSS Console.
	Select Flex button 1, to set the station type and, for iPECS DSS Consoles (types 2~4), Flex button 2 assigns the associated station.
100-110 F1:TY F2:ASC IPKTU	Use the dial-pad to enter desired data: 4-1. For Flex button 1 (TYPE), enter the station TYPE; refer to Table 3.3.3.1–1.
111-111 F1:TYPE F2 :ASC DSS MAP2 : STA	4-2. For Flex button 2 (Associated station), enter the number of the station used with the console. Flex button 2 is only available for iPECS DSS Consoles (Types 2~4), see Table 3.3.3.1-2 for default configurations.
	Press the [Save] button to store the data entries.

### Table 3.3.3.1-1 STATION TYPE ASSIGNMENT — (PGM 110)

TYPE	DESCRIPTION	
1	IP KEYSET	
2	DSS MAP 1	
3	DSS MAP 2	
4	DSS MAP 3	
5	SLT (DTMF)	
6	SLT (DTMF) – Voltage Message lamp	
7	SLT (DTMF) – FSK Message lamp	
8	SLT (DTMF) – Polarity Reversal Message lamp	

MAP	DEFAULT CONSOLE BUTTON CONFIGURATION			
MAP 1	Button 1: Intrusion	Button 2: All Call Page		
	Button 3: Call Park 1	Button 4: Station Group 1		
	Button 5: Camp-On	5: Camp-On Button 6: Internal All Call Page		
	Button 7: Call Park 2	7: Call Park 2 Button 8: Station Group 2		
	Button 9: [Release]	Button 10: Ext. All Call Page		
	Button 11: Call Park 3	Button 12: Station Group 3		
	Buttons 13 ~ 48: Station Ports 10	Buttons 13 ~ 48: Station Ports 100 ~ 135		
MAP 2	Station Ports 136 ~ 183			
MAP 3	Station Ports 184 ~ 231			

#### Table 3.3.3.1-2 CONSOLE BUTTON CONFIGURATION (PGM 110)

### 3.3.3.2 Station Attributes I to III - PGM 111-113

Station Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 3.3.3.2-1 to Table 3.3.3.2-3 for a description of the features and the input required.

PROCEDURE:	
STATION ATT 1	1. Press the <b>[PGM]</b> button and dial:
ENTER STA RANGE	111 for Station Attributes I
	112 for Station Attributes II
	113 for Station Attributes III
100-110 STATION ATT 1 PRESS FLEX_KEY (01-24)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.3.2-1 to Table 3.3.3.2-3.
	Use the dial-pad to enter desired data for the attribute setting, refer to Table 3.3.3.2-1 to Table 3.3.3.2-3.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 AUTO SPKR (1:ON/0:OFF) : ON	Enables <b>[SPEAKER]</b> activation when a CO/IP, DSS or other feature button is pressed, no need to lift handset.	0: OFF 1: ON	ON
2	100-110 CALL FWD (1:ON/0:OFF) : OFF	Enables Call Forward activation by the station.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	100-110 DND (0-3) : 0(OFF)	Enables DND activation by the station.	0: OFF 1: ALL 2:ICM call only 3:CO call only	OFF
4	100-110 DATA SECURITY (1:ON/0:OFF) : OFF	Disables override and camp-on tones to the station when busy.	0: OFF 1: ON	OFF
5	100-110 HOWLING TONE (1:ON/0:OFF) : ON	Permits Howler tone to be sent to a SLT when left off-hook.	0: OFF 1: ON	ON
6	100-110 NO TCH ANS (1:ON/0:OFF) : OFF	Enables No-touch answer; this will automatically connect transferred calls to the station's speakerphone.	0: OFF 1: ON	OFF
7	100-110 PAGE ACCESS (1:ON/0:OFF) : OFF	Allows station to access paging.	0: OFF 1: ON	OFF
8	100-110 HEADSET RING (1:S/2:H/3:BOTH) : SPKR	This item selects device to receive incoming ring signals, Speaker, Headset or Both.	1: Speaker 2: Headset 3: Both	SPKR
9	100-110 SPKR/HEAD (1:SPKR/0:HEAD): SPKR	Selects Speakerphone mode or Headset mode	0: Headset 1: Speaker	SPKR
10	100-110 LCD DISP LED (1:RING/0:MWI): MWI	The LCD LED, upper left of LCD, may be used for Intercom Call ring Indication or Message Wait Indication.	0: MWI 1: Ring	MWI
11	100-110 LOOP LCR ACCT (1:ON/0:OFF) : OFF	Station based LOOP LCR authorization; this is used for LOOP LCR operation.	0: OFF 1: ON	OFF
12	100-110 CALL COVERAGE (1:ON/0:OFF) : OFF	The Call Coverage feature permits an iPECS Phone user to receive ring and answer calls to other stations.	0: OFF 1: ON	OFF
13	100-110 CALL COVERAGE DELAY RING: 0	When a covered station rings, the <b>{CALL COVERAGE}</b> button LED will flash at the covering station and will receive ring (immediate or delayed, 0 to 9 ring cycles).	0~9	0
14	100-110 OFFNET FWD (1:DIS/0:EN):ENABLE	A station must be allowed Off Net Fwd to forward external incoming calls outside the system or otherwise establish a CO-to-CO connection (Unsupervised Conference). (Except USA version)	0: Enable 1: Disable	Enable
15	100-110 FORCED ICM (1:ON/0:OFF) : OFF	When placing an intercom call, a user can change the ICM signaling mode, Tone Ring to Hands free answer mode or HF Answer to Tone Ring.	0: OFF 1: ON	OFF

Table 3.3.3.2-1 STATION ATTRIBUTES I (PGM 111)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	100-110 ACT PTT GRP ACTIVE PTT GROUP: .	A station can be assigned to a PTT group and the group enabled so the station can place and receive PTT announcements for the group.	0~9	
17	100-110 ICM GROUP (01-15): 01	Assigns station to an ICM Tenancy Group, refer to PGM 125.	1~15	1
18	100-100 VMIU/VMIB BOARD USE 1ST VMIU/VMIB	Assigns the VMIU or VMIB where messages for the station are stored.	Sequence no	
19	100-110 SIP UID TBL (000-140) : 000	Index to SIP User ID table, PGM 126, for the station. Note PGM 126 is accessible by Web only.	000-140	000
20	100-110 CAMP ON TONE (1:ON/0:OFF) : ON	Permits camp on tone to be sent to a station when the station receives camp-on request.	0: OFF 1: ON	ON
21	100-110 SERIAL DSS (1:EN/0:DIS):ENABLE	Assigns Serial DSS usage authority.	0: Disable 1: Enable	Enable
22	100-110 DLTN (00-10) DIAL TONE (00)	Each station can choose one of eleven dial tone sources	00: dial tone 01: INT music 02: EXT music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10:VSF MOH3	dial tone
23	100-110 RBTN (00-10) RING BACK TONE (00)	Each station can choose one of eleven ring back tone sources	00: ring back tone 01: INT music 02: EXT music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10:VSF MOH3	ring back tone
24	100-110 ATTACH MSG (1:ON/0:OFF) : ON	When e-mail notification of a new VSF message is enabled, (PGM 236-button 7) the e-mail may include the voice mail as a wav file attachment. VSF mail server IP (PGM 113-button18) & VSF Mail Address (PGM 113- button19) are required for proper operation.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 CALL TIME TN (1:ON/0:OFF) : OFF	A tone can be sent periodically indicating the elapsed time of an outgoing CO/IP call. The Elapsed Call Timer (PGM 180-button 19) determines the period between tones.	0: OFF 1: ON	OFF
2	100-110 AUTO HOLD (1:ON/0:OFF) : OFF	Enables Auto Hold for the station. With Auto Hold enabled, the system will place an active external call on hold if the user presses a CO/IP or DSS button.	0: OFF(Others) 1: ON(ATD)	OFF
3	100-110 TIME RESTRICT (1:ON/0:OFF) : OFF	The system can automatically disconnect outgoing calls at expiration of the Call Restrict timer (PGM 180- button 14).	0: OFF 1: ON	OFF
4	100-110 IND CO ACCESS (1:EN/0:DIS) : ENABLE	Permits stations to use dial codes to access individual CO Lines.	0: Disable 1: Enable	Enable
5	100-110 CO/IP QUEUING (1:EN/0:DIS): ENABLE	Permits the station to queue for the next available Line when an All Lines Busy signal is received.	0: Disable 1: Enable	Enable
6	100-110 CO PGM (1:EN/0:DIS): DISABLE	A station can be permitted to change the CO Line numbers (ports) associated with a CO Line button.	0: Disable 1: Enable	Disable
7	100-110 RING LINE PRE (1:EN/0:DIS) : ENABLE	Enables Ringing Line Preference for the station. Calls that ring the telephone are answered by going off- hook.	0: Disable 1: Enable	Enable
8	100-110 SPD ACCESS (1:EN/0:DIS) : ENABLE	Allows the station access to System Speed Dial bins.	0: Disable 1: Enable	Enable
9	100-110 UCD GRP SVC (1:ON/0:OFF) : OFF	When unavailable, DID/DISA calls to the station can be routed to the ACD Group to which the station is a member.	0: OFF 1: ON	OFF
10	100-110 RING GRP SVC (1:ON/0:OFF) : OFF	When unavailable, DID/DISA calls to the station can be routed to the Ring Group to which the station is a member.	0: OFF 1: ON	OFF
11	100-110 TWO WAY RECD (1:ON/0:OFF) : OFF	When allowed, the station can activate the Two-way record feature to record a conversation.	0: OFF 1: ON	OFF
12	100-110 MSG SCRL SPD (0 - 7) : 3	Select message scroll speed for IP phone (Not presently used).	0 ~ 7	3
13	100-110 HOT DESK STA (1:ON/0:OFF) : OFF	A station can be assigned as a Hot Desk phone. Users and agents can login and use resources of the system through the Hot Desk phone.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
14	100-110 PREFER CO/GRP 	The system will seize this CO Line or CO group number when the station dials '9' (First available CO access code).	CO # or CO Group #	
15	100-110 SEND SLT CLI (1:ON/0:OFF) : ON	When allowed, system will send CLI information to the SLT.	0: OFF 1: ON	ON
16	100-110 UCD PRIORITY (0-9) : 0	ACD Group members may be assigned a priority, 0-9. Members with the highest priority are sent calls ahead of lower priority members. This field is the same as PGM 191-button 19 for ACD Groups.	0~9	0
17	100-110 EZ PWD LOGIN (1:ON/0:OFF	For ez ATD. Enables/disables required Auth code use.	0: OFF 1: ON	OFF
18	100-110 EMERGENCY CO	This field defines the CO Line or Group employed by the system to place Emergency Assistance calls.	CO #, CO Group #, Transit-out	Any CO
19	100-110 STA ACCOUNT (1:ON/O:OFF) : OFF	When ON, the station user must enter an authorization code to access CO Lines.	0: OFF 1: ON	OFF
20	100-110 AUTO CALL REC (0:OFF/1:ALL/2:CO): OFF	This field enables unconditional recording of all calls placed/received by the station. Recordings, in .wav format, are stored at the Phontage/UCS Client or Recording Server (IPCR or 3rd party) defined under button 21. Station and CO calls are recorded with ALL. Only CO calls are recorded with CO.	0: OFF 1: ALL 2: CO	OFF
21	100-110 CALL REC DEST	When Unconditional Call recording is enabled as above, the recording Phontage or UCS Client station number is defined here.	station	
22	100-110 VSF BK DEL (1:ON/0:OFF) : OFF	A Phontage or UCS Client may monitor voice messages for another station as a backup. The Phontage or UCS Client will include the message count for the station in the Voice message count. When enabled here, the Phontage/UCS Client may delete messages for the station.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
23	100-110 VSF BK STA 	A Phontage or UCS Client may monitor voice messages for another station as a backup. The Phontage or UCS Client will include the message count for the station in the Voice message count. This field defines the Phontage or UCS Client station number that will be used as the VMIU/VMIB back up.	station	
24	100-110 VSF BK PROM (1:ON/0:OFF) : OFF	Enables a Phontage or UCS Client to backup VSF Prompts.	0: OFF 1: ON	OFF

# Table 3.3.3.2-2 STATION ATTRIBUTES II (PGM 112)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 ADMIN (1:EN/0:DIS) : ENABLE	Enables station access to the System Database.	0: Disable 1: Enable	Enable
2	100-110 VSF ACCESS (1:EN/0:DIS) : ENABLE	Permits station access to the built-in AA/VM.	0: Disable 1: Enable	Enable
3	100-110 GROUP LISTEN (1:EN/0:DIS) : DISABLE	Enables Group Listen feature, audio is sent to both the handset and speaker with the handset microphone active and speakerphone microphone OFF.	0: Disable 1: Enable	Disable
4	100-110 OVERRIDE (1:EN/0:DIS) : DISABLE	Enables intrusion to gain access to an active CO/IP call.	0: Disable 1: Enable	Disable
5	100-110 SMDR HIDE (1:EN/0:DIS) : DISABLE	Enables hiding dialed digits in SMDR output.	0: Disable 1: Enable	Disable
6	100-110 VOICE OVER (1:EN/0:DIS) : ENABLE	Enables use of Voice Over by station.	0: Disable 1: Enable	Enable
7	100-110 PRIME LINE (1:HOT/0:WARM) : WARM	Enables Delayed Prime Line (Idle Line) activation, see PGM 121, Idle Line Selection and PGM 182-button 6 for Prime Line timer.	0: WARM 1: HOT	WARM
8	100-110 ALARM/DOORBEL (1:EN/0:DIS) : DISABLE	Assigns station to receive Alarm/Doorbell signal.	0: Disable 1: Enable	Disable

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	100-110 DID DISA WAIT (1:ON/0:OFF ) : ON	When a busy station receives a DID / DISA call, the call may queue to the station instead of receiving busy tone. With DID / DISA Call Wait, the caller will hear Ring-back and the user sees the CO line LED flash. If this option is set to a station, and a co-line is ring assigned to the station, second ring assigned call CLI will show in the station's LCD.	0: OFF 1: ON	ON
10	100-110 LEFT MSG EXEC (1:ON/0:OFF): ON	When a call is forward to the Secretary of an Executive/Secretary pair, messages can be left for the Executive (ON) or Secretary (OFF).	0: OFF 1: ON	ON
11	100-110 E&MIC HEADSET (1:ON/0:OFF): OFF	Select E&MIC Headset mode.	0: OFF 1: ON	OFF
12	100-110 ENBLOCK MODE (1:ON/0:OFF): OFF	When On, the user-dialed digits are stored at iPECS IP or LDP Phones until explicitly sent by the user. When sent, all dialed digits are sent to the system in a block. En-block mode is only available to iPECS IP and LDP Phones with 3-Soft keys.	0: OFF 1: ON	OFF
13	100-110 MSG RETRIEVE (1:FIFO/0:LIFO) : LIFO	Messages stored in the VSF may be retrieved in either a FIFO (first-in-first- out) or LIFO (last-in-first-out) order based on this entry.	1: FIFO 0: LIFO	LIFO
14	100-110 VMID NUMBER 100	When using an adjunct VM, the system can translate the Mailbox number from the user's station number to the assigned VMID. The system sends the station number or VMID to the VM (in-band or SMDI) in order to identify the appropriate Voice Mailbox.	0000-9999	Station #
15	100-110 AUTO ACD-DND ([SPD],0-9,*,#):	If an Agent does not answer an ACD call in the ACD No Answer timer, the Agent enters an Unavailable state with the Reason code entered here. The reason code is sent in the ACD Event message.	0: None #, * 1 ~ 9	None
16	100-110 FWD IF OOS (1:ON/0:OFF) : OFF	If a station is Out-of-Service and has previously forwarded calls, the system will forward the calls, if enabled here.	0: OFF 1: ON	OFF
17	100-110 BACK LIGHT (O:OFF/1:BUSY/2:ON): 1	The backlight of the LIP phones is assigned to stay off, light only when the station is busy, or light constantly.	0: OFF 1: Busy 2: ON	Busy

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
18	100-110 VSF MailSvrIP	The VMIB includes notification of new messages to the user's e-mail. This field displays the user's e-mail mail server for the notification. Use Web Admin PGM 132 to modify this value.	IP v4 address Or Mail server name	
19	100-110 VSF Mail Addr	The VMIB includes notification of new messages to the user's e-mail. This field displays the e-mail address to notify when a new message is received at the VMIB. Use Web Admin to modify this value.	e-mail address	
20	100-110 BLOCK B-CALL (1:ON/0:OFF) : OFF	When an SLT extension tries to transfer a CO call to a CO line it is blocked and the call is released.	0 : OFF 1 : ON	OFF
21	100-110 BY PASS DTMF (1:ON/0:OFF) : OFF	When detected, DTMF from an SLT may be regenerated by the analog CO line ports, the SLT port can by-pass detection so DTMF is not detected.	0 : OFF 1 : ON	OFF
22	100-110 PROCTOR MONIT (1:ON/0:OFF) : OFF	Enables use of PABX ANI Link device for E-911 support, Only an SLT can be used for this feature.	0 : OFF 1 : ON	OFF
23	100-110 VSF MailSvrID	The VMIU and VMIB include notification of new messages to the user's voice mail. This field defines the user's ID to notify when a new message is received at the VMIU or VMIB.		
24	ADDED STATION ATT3 PRESS FLEX KEY (01-24)		01-24	
24-1	100-110 VSF MailSvrPW	Unified Mail server password		
24-2	100-110 DOOR OPEN (1:EN/0:DIS) : ENABLE	Enables use of Door open feature by station - Default value : Australia : Disable except for port 1or2 Otherwise : Enable	0: Disable 1: Enable	Enable
24-3	100-110 VSF MSG DD/TM (1:ON/0:OFF) : ON	When ON, play the date/time stamp of VSF message.	0 : OFF 1 : ON	ON
24-4	100-110 OGM DEST NOT ASSIGNED	Assign Mail box destination. When a user dial attendant code ('0' or '9'), if it is assigned then the call will be delivered to assigned mail box destination instead of attendant. If it is not assigned then the call will be delivered to attendant.		NOT ASSIGNED
24-5	100-110 VSF DEL MSG (1:ON/0:OFF) : OFF	When ON, delete VSF messages when send UMS e-mail notification.	0 : OFF 1 : ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-6	100-110 VM PWD CHECK (0-2) : STN&PWD	When ON, check password when a user access to the VSF messages.	0 : No Password 1 : PWD only 2: station number and Password	2: station number and Password
24-7	100-110 BARGE IN MODE (0-2) : DISABLE	Barge in permits an authorized extension to intrude into other existing outside/internal calls or to disconnect existing call forcedly. If 0, Barge In is disabled. If 1, Barge In monitors other conversation. If 2, Barge In monitor join and Forced Disconnect.	0: Disable 1: Monitor 2:Monitor&Join & Disconnect	Disable
24-8	100 – 110 SLT FLASH MODE (0-3) : FLASH TRANSFER	<ul> <li>SLT Flash works as following option.</li> <li>O: Flash Transfer – Flash detected, then the line is held and the line goes to waiting state.</li> <li>1: Flash Drop - Flash detected and Line is disconnected.</li> <li>2: Flash Ignore – Flash detected, but Ignored.</li> <li>3: Hold Release – Flash detected, then the line is held and the line goes to waiting state.</li> <li>And the SLT user goes on-hook, then the held line is disconnected, not recalling.</li> </ul>	0: Transfer 1: Drop 2: Ignore 3: Hold Release	Transfer
24-9	100 – 110 RLS COST DISP (1:ON/0:OFF) : OFF	When CO line is released, according to admin option, call-cost or disconnection-cause can be displayed to user LCD.	0 : OFF 1 : ON	OFF
24-10	100 – 110 LDT TBL INDEX (00-10) : 01	LCR will be operated with this LDT table index	No. of LDT Table	1
24-11	100 – 110 WEB CALL BACK (1:EN/0:DIS) : DISABLE	Enable Web call back service. When enabled, call back service on station web admin could be used.	0: Disable 1: Enable	Disable
24-12	100 – 110 VSF SMTP SECU (0-2) : NO SECUTIRY	Security for VSF mail sending can be chosen.	0: No Security 1: SSL 2: TSL	No Security
24-13	100 – 110 VSF SMTP PORT (00001-65535) : 00025	When VSF mail sending, SMTP port can be program.	00001 – 65535	25
24-14	100 – 110 VSF S-MAILADDR	When VSF mail sending, Sender Mail Address can be program.		

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-15	100 – 110 PREPAID CALL (1:ON/0:OFF) : OFF	Enable prepaid call service.	0: OFF 1: ON	OFF
24-16	100 – 110 PREPAID MONEY 000000	Prepaid Money can be entered. By Call Metering signal, pre-paid money can be calculated.	000000 - 9999999	0
24-17	100 – 110 DEFAULT VM NO 	Default VM group number used when users press the <b>[Msg/Call Back]</b> button and there is no message.		
24-18	100 – 110 SLT MODE (0-3) : DEFAULT	SLT configuration mode. It is used only for South Africa. SLT gain is changed cording to this configuration.	0: Default 1: Short 2: Long 3: Far	Default (0)
24-19	100 – 110 OFF HOOK RING (0-3) : REFER TO SYS	Off hook ring type could be selected by station base.	0: BURST 1: MUTE 2: SYSTEM 3:SILENCE	Refer to System (2)
24-20	100 – 110 SIP COLOR RING 	Color ring is provided from assigned SIP VM (UMS). SIP extension number that is connected to SIP VM (UMS) server should be assigned.		
24-21	100 – 110 FORCED ACNT (1:ON/0:OFF) : OFF	User should enter an Account Code prior to placing an outgoing call when this value has "ON".	0: OFF 1: ON	OFF
24-22	100 – 110 FLEX BTN PGM (1:ON/0:OFF) : ON	A user can program Flex buttons at station.	0: OFF 1: ON	ON
24-23	100 – 110 STNWEB_LEVEL (1-3) : LEVEL 1	There are 3 access levels that can be assigned to station. The station with level 1 can view/access all programs in station web. The station with level 2/3 follows Station Web Authorization menu (System Data -> Station Web Authorization).	LEVEL 1 ~ LEVEL 3	LEVEL 1
24-24	100 – 110 HEADSET PAGE (1:S/2:H/3:BOTH): SPKR	Paging is provided on selected device (SPEAKER/HEADSET/Both) while in the headset mode.	1~3 (SPKR/ HEADSET/ Both)	1: SPKR

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

### 3.3.3.3 Station Attributes IV -PGM 114

When a station uses an ISDN Line, various parameters relating to ISDN Calling Line Identification and Connected Line Identification can be assigned for each station. In addition, when the station is an SLT, several parameters must be set to indicate the capabilities related to the station, such as 3.1 KHz audio for ISDN use. Refer to Table 3.3.3.1 for a description of the attributes and the inputs available.

PROCEDURE:	
STATION ATT 4 ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 114.
100-110 STATION ATT4 PRESS FLEX_KEY (01-24)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.3.3-1.
	Use the dial-pad to enter desired data for the attribute, refer to Table 3.3.3.3-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 CLIP DISPLAY (1:ON/0:OFF ) : OFF	CLIP (Calling Line Identification Presentation), an ISDN service, sends the number of the calling party to the system in the call SETUP message. If enabled here, the number will be shown in the iPECS Phone LCD.	0: OFF 1: ON	OFF
2	100-110 COLP DISPLAY (1:ON/0:OFF ) : OFF	COLP (Connected Line Id Presentation), an ISDN service, sends the number of the answering party to the system in the call CONNECT message. If enabled here, the number will be shown in the iPECS Phone LCD.	0: OFF 1: ON	OFF
3	100-110 PROGRESS IND (1:ON/0:OFF ) : OFF	When employing a non-ISDN terminal, specifically a modem or analog FAX, the ISDN call SETUP message must include this message and the Progress Indication parameter should be set to "ON".	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
4	100-11- CLIR SERVICE (1:ON/0:OFF ) : OFF	CLIR (Calling Line Identification Restriction), an ISDN service, removes calling party Id sent from the PSTN to the called party with a RESTRICT instruction in the SETUP message. If enabled here, the system will send the RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	0: OFF 1: ON	OFF
5	100-110 COLR SERVICE (1:ON/0:OFF ) : OFF	COLR (Connected Line Id Restriction), an ISDN service, removes connected party Id sent from the PSTN to the calling party with a RESTRICT instruction in the CONNECT message. If enabled here, the system will send the restrict instruction to the PSTN when the station answers an ISDN call.	0: OFF 1: ON	OFF
6	100-110 STN CLI 1 100	When not restricted (button 4 & 5 above) and entry 00 of the CLIP/CLOP Table is selected in PGM 143-button 1& 2, this entry is added to the number sent in the ISDN call SETUP or CONNECT message in place of the station number.	12 digits	Station number
7	100-110 3.1 kHz AUDIO (1:ON/0:OFF ) : OFF	When an analog device (SLT or FAX) uses an ISDN Line in the system, the Information Element of the ISDN SETUP message must indicate it only has 3.1 KHz audio capabilities. If a SLT or analog FAX will be allowed access to the ISDN Lines, this parameter must be "ON".	0: OFF 1: ON	OFF
8	100-110 CLI NAME DISP (1:ON/0:OFF): OFF	When the CLI data from the PSTN in the call SETUP message matches a number in Speed Dial, the system can display the name associated with the Speed Dial bin, if set to ON.	0: OFF 1: ON	OFF
9	100-110 CLI/REDIRECT (1:RED/0:CLI) : CLI	When an incoming ISDN call is Redirected by the ISDN, the call SETUP message will contain an original and redirected CLI. This selection determines if the iPECS Phone will display the original or redirected number.	0: CLI 1: Redirect	CLI

# Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	100-110 CLI MSG-WAIT (1:ON/0:OFF): OFF	A log of caller identification can be maintained for the user, permitting the user to call back the identified party. System-wide, up to 1000 entries can be maintained in the log.	0: OFF 1: ON	OFF
11	100-110 EXT OR ATD (1:ATD/0:EXT ) : EXT	When the system sends a station number with CLIP or COLP, the number can be either the Attendant number or the number of the station.	0: EXT 1: ATD	EXT
12	100-110 MSN WAIT (1:ON/0:OFF ) : OFF	When a call that is corresponding to a MSN Telephone Number comes in to system, the call is basically routed to idle stations that have free MSN button that is assigned for the corresponding Telephone Number. And also the call can be routed to busy stations in the following condition. OFF : if a keyset is in a busy status, cannot receive incoming MSN Telephone Number corresponding call even though it has a free(idle) corresponding MSN LOOP Button ON : if a keyset is in a busy status, can receive incoming MSN Telephone Number corresponding call if it has a free(idle) corresponding Call if it has a free(idle) corresponding MSN LOOP Button	0: OFF 1: ON	OFF
13	100-110 UNUSED			
14	100-110 DID RESTRICT (1:ON/0:OFF ) : OFF	Enable station receive DID call.	0: OFF 1: ON	OFF
15	100-110 DISA RESTRICT (1:ON/0:OFF ) : OFF	Enable station receive DISA call.	0: OFF 1: ON	OFF
16	100-110 UNUSED			
17	100-110 MODEM ENABLE (1:ON/0:OFF ) : OFF	It is used to set modem attributes.	0: OFF 1: ON	OFF
18	100-110 FAST XFER CLI (1:ORI/0:TRN ) : TRN	If a user transfers a CO call with CLI to SLT or DECT, CO CLI can be seen instead of station number when this option is set to ORI.	0: TRN 1: ORI	TRN
19	100-110 UNUSED			

### Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
20	100-110 PICKUP BY BTN (1:ON/0:OFF ) : ON	It is used to set pick up by flex button.	0: OFF 1: ON	ON
21	100-110 MULTI LANG (1-6):PROMPT1 U.S	Selected language prompt is played to the user when accessing the VMIU or VMIB.	1~6 (1: US 2:KOREA 3:TURKIYE 4:RUSSIA 5:AUTRALIA 6:GERMANY)	1
22	100-110 P-MSG DND (1:ON/0:OFF) : OFF	If it is ON, the pre-selected station doesn't receive the ring and the caller hears DND tone.	0: OFF 1: ON	OFF
23	100-110 P-MSG LANG (1-6):PROMPT1 U.S	Select voice enabled preselected message for a station playing toward an incoming CO call	1~6 (1: US 2:KOREA 3:TURKIYE 4:RUSSIA 5:AUTRALIA 6:GERMANY)	1
24	ADDED STATION ATT4 PRESS FLEX KEY (01-12)			
24-1	100-110 STN CLI 2	Station CLI 2 can be programmed. If a CO line is set to Station CLI 2, then this CLI is used for outgoing CLI.	16 Chars	None
24-2	100-110 STN CLI 3	Station CLI 3 can be programmed. If a CO line is set to Station CLI 3, then this CLI is used for outgoing CLI.	16 Chars	None
24-3	100-110 STN CLI 4	Station CLI 4 can be programmed. If a CO line is set to Station CLI 4, then this CLI is used for outgoing CLI.	16 Chars	None
24-4	100-110 STN CLI 5	Station CLI 5 can be programmed. If a CO line is set to Station CLI 5, then this CLI is used for outgoing CLI.	16 Chars	None
24-5	100-110 SLT CID TYPE (0:FSK./1:DTMF) : FSK	SLT can send CID by programming options.	(0:FSK./1:DT MF)	FSK
24-6	100-110 WAKEUP ANNC 00	Wakeup Announce can be programmed.	0-70	0
24-7	100-110 CAMP ON ENABLE (1:ON/0:OFF ) : ON	If it is ON (enabled) then this station will receive camp on. But if it is OFF (Disabled) then this station will not receive camp on by other person.	0: OFF 1: ON	ON
24-8	100-110 GAIN TBL (1-3) : 1	TDM gain table can be programmed.	1-3	1

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-9	100-110 TONE TBL (1-5) : 1	Tone table can be programmed.	1-5	1
24-10	100-110 RESERVED			
24-11	100-110 VIDEO ON CALLING (1:ON/0:OFF ) : OFF	Video show to called party when calling (ex. IP Video Door Phone)	0: OFF 1: ON	OFF
24-12	100-110 E.164 CLI TO (1:ON/0:OFF ) : OFF	Send CLI with E.164 format if it is ON.	0: OFF 1: ON	OFF

#### Table 3.3.3.3-1 STATION ISDN ATTRIBUTES (PGM 114)

#### 3.3.3.4 Flexible button Assignment -PGM 115

Each Flex button for each iPECS IP and LDP Phone, and DSS Console is assigned a function (Type) and an associated Value as shown in Table 3.3.3.4-1.

For assignments to an DSS Console, the **[VOL UP]/[VOL DOWN]** buttons shift the Flex button appearance on the Admin station to the next or previous group of 24 buttons as they appear on the iPECS DSS Console. When multiple DSS Consoles are associated with a station, **[VOL UP]/[VOL DOWN]** are used to access and assign a function to the console buttons. Each console contains entries for 48 buttons even though the console may only have 12 buttons. In this case, assignments for buttons 13 to 48 are ignored.

Table 3.3.3.4-2 shows the default button assignments for the iPECS IP and LDP Phones and Table 3.3.3.4-3 and Table 3.3.3.4-6 provides default assignment for the various DSS Console button maps.

PROCEDURE:	
FLEX BUTTON ASSIGN ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 115.
100-110 BTN ASSIGN PRESS FLEX_KEY (1-24)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button (1~24).
	Use the dial-pad to enter the desired button TYPE (1~6) and value, if required. Refer to Table 3.3.3.4-1 for types and value range. Defaults for the iPECS IP and LDP Phones are shown in Table 3.3.3.4-2, for DSS Console defaults refer to Table 3.3.3.4-3. In addition, for the DSS Console, use <b>[VOL UP]/[VOL DOWN]</b> buttons to access the next/previous 24 flex buttons.
	Press the [Save] button to store the Flex button data entry.

TYPE	DESCRIPTION	Remarks		
1	Empty Button	Empty (unassigned) button, may be defined by the user.		
2	User Program Fixed Numbering Plan	Assigns button to perform a User Program function from the Fixed		
2		Numbering Plan, Appendix A.		
3	{[SPEED] XXX}	Station or System Speed Dial bin.		
4	Flexible Numbering Plan Code	Assigns button to dial a code from the Flexible Numbering Plan,		
4		see Appendix B.		
5	Station or Network Station Assign network station number from network table.			
6	MSN	Enter desired MSN Table index.		

#### Table 3.3.3.4-1 FLEX BUTTON TYPE & VALUE CODES (PGM 115)

### Table 3.3.3.4-2 iPECS IP & LDP PHONE BUTTON DEFAULT CONFIGURATION (PGM 115)

BTN			iPECS LI	OP Phone		
DIN	9030	9008	7004	7008	7016	7024
1	{CO 1}	{CO 1}	Trans/ Pgm*	Dnd	{CO 1}	{CO 1}
2	{CO 2}	{CO 2}	Speed*	Call Back	{CO 2}	{CO 2}
3	{CO 3}	{CO 3}	{LOOP}	{LOOP}	{CO 3}	{CO 3}
4	{CO 4}	{CO 4}	{LOOP}	{LOOP}	{CO 4}	{CO 4}
5	{CO 5}	{CO 5}		empty	{CO 5}	{CO 5}
6	{CO 6}	{CO 6}		empty	{CO 6}	{CO 6}
7	{CO 7}	{CO 7}		empty	{CO 7}	{CO 7}
8	{CO 8}	{LOOP}		empty	{CO 8}	{CO 8}
9	{CO 9}	empty			{CO 9}	{CO 9}
10	{CO 10}	empty			{CO 10}	{CO 10}
11	{LOOP}				{LOOP}	{LOOP}
12	{LOOP}				{LOOP}	{LOOP}
13	empty				empty	empty
14	empty				empty	empty
15	empty				empty	empty
16	empty				empty	empty
17	empty					empty
18	empty					empty
19	empty					empty
20	empty					empty
21	empty					empty
22	empty					empty
23	empty					empty
24	empty					empty

DTN	iPECS IP Phone (7000/8000/8000E series)								
BTN	8004	8008	8012	8024	8040	7004	7008	7016	7024
1	{CO 1}	{CO 1}	{CO 1}	{CO 1}	{CO 1}	Trans/ PGM*	DND	{LOOP}	{CO 1}
2	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{LOOP}	{LOOP}	empty	{CO 2}
3	{CO 3}	{CO 3}	{CO 3}	{CO 3}	{CO 3}	{LOOP}	{LOOP}	empty	{CO 3}
4	{CO 4}	{CO 4}	{CO 4}	{CO 4}	{CO 4}		empty	empty	{CO 4}
5		{CO 5}	{CO 5}	{CO 5}	{CO 5}		empty	empty	{CO 5}
6		{CO 6}	{CO 6}	{CO 6}	{CO 6}		empty	empty	{CO 6}
7		{CO 7}	{CO 7}	{CO 7}	{CO 7}		empty	empty	{CO 7}
8		{LOOP}	{CO 8}	{CO 8}	{CO 8}			empty	{CO 8}
9			{CO 9}	{CO 9}	{LOOP}			empty	{CO 9}
10			{CO 10}	{CO 10}	{LOOP}			empty	{CO 10}
11			{LOOP}	{LOOP}				empty	{LOOP}
12			{LOOP}	{LOOP}				empty	{LOOP}
13				empty				empty	empty
14				empty				empty	empty
15				empty				empty	empty
16				empty				empty	empty
17				empty					empty
18				empty					empty
19				empty					empty
20				empty					empty
21				empty					empty
22				empty					empty
23				empty					empty
24				empty					empty

### NOTE:

These button definitions cannot be changed.

Table 3	Table 3.3.3.4-3 IP CONSOLE BUTTON CONFIGURATION					
MAP	DEFAULT CONSOLE BUTTON CONFIGURATION					
MAP 1	Button 1: Intrusion	Button 2: All Call Page				
	Button 3: Call Park 1	Button 4: Station Group 1				
	Button 5: Camp-On Button 6: Internal All Call Page					
	Button 7: Call Park 2 Button 8: Station Group 2					
	Button 9: [Release]	Button 10: Ext. All Call Page				
	Button 11: Call Park 3	Button 12: Station Group 3				
	Buttons 13 ~ 48: Station Ports 100 ~ 135					
MAP 2	Station Ports 136 ~ 183					
MAP 3	Station Ports 184 ~ 231					

#### Table 3.3.3.4-3 IP CONSOLE BUTTON CONFIGURATION

### 3.3.3.5 Station Class-of-Service – PGM 116

All stations are assigned a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls, refer to Table 3.3.3.5-1. Separate COS assignments are made for Day, Timed and Night Mode system operation. As a default, all stations are assigned with a Station COS of 1, no restrictions for all three modes.

The station COS interacts with the CO Line COS to establish overall dialing or Toll restrictions. This interaction and the resulting restrictions are given in Table 3.3.3.5-2.

Long distance calls are determined by the 1st dialed digit ("0") and/or the number of digits dialed. If the 1st digit dialed is an LD code, default "0", or, if the number of digits dialed exceeds the assigned LD digit counter (SMDR Attributes PGM 177 button 4), the call is consider a Long Distance call and appropriate restrictions are applied.

PROCEDURE:		
STATION COS ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 116.	
100-110 STATION COS DAY=01 NIGHT=01 TIMED=01	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.	
	Press desired Flex button,	
	1: Day mode COS	
	2: Night mode COS	
	3: Timed mode COS	
	Use the dial-pad to enter desired data for the Station COS, refer to Table 3.3.3.5-1 & Table 3.3.3.5-2.	
	Press the <b>[Save]</b> button to store the data entry.	

#### Table 3.3.3.5-1 STATION CLASS-OF-SERVICE (PGM 116)

STATION COS	RESTRICTIONS
1	No restrictions are placed on dialing from the station.
2	The assignments in Exception Table A are monitored for allow and deny numbers.
3	The assignments in Exception Table B are monitored for allow and deny numbers.
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.
5	The leading digit dialed cannot be a Long Distance code, default "0", and further denied/allowed based on Exception Table C.
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 8 digits, and further denied/allowed based on Exception Table C.
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.
8	The assignments in the Exception Table D are monitored for allow and deny numbers.
9	The assignments in the Exception Table E are monitored for allow and deny numbers.
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 9	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction

### Table 3.3.3.5-2 STATION/CO LINE COS TOLL RESTRICTIONS (PGM 116)

## 3.3.3.6 CO/IP Group Access – PGM 117

Stations can be allowed or denied access to CO Lines and IP Channels by group, refer to CO Line Attributes, PGM 141, button 1. As a default, all stations are allowed access to all groups except Private Lines (group 00) and unused CO Lines. The CO Line of an RSGM is assigned as a Private Line by default.

PROCEDURE:	
CO/IP GROUP ACCESS ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 117.
100 – 110 CO/IP GRP PRESS FLEX KEY (01-20)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	The first 20 Flex button LEDs indicate group access for eMG80.
	Press the desired Flex button to toggle CO/IP Group access,
	LED on: group access allowed
	LED off: group access not allowed
	Press the [Save] button to store the data entry.

# 3.3.3.7 Internal Page Zone Access – PGM 118

Each iPECS IP and LDP Phone is assigned to receive announcements from each Internal Page Zone. A station can be assigned to any, all or no zones. Note a remote station or a station not assigned to any Internal Zone will not receive any page announcements including Internal All Call. As a default, all stations except remote stations are assigned to zone 1.

PROCEDURE:	
INTERNAL PAGE ZONE ENTER STA NUMBER	1. Press the <b>[PGM]</b> button and dial 118.
100-110 I-PAGE ZONE PRESS FLEX KEY (001-024)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	The LEDs indicate the status for Page Zones 1 to 24, Use the <b>[VOL UP]/[VOL DOWN]</b> button to display Page Zones 25 to 35.
	Press the desired Flex button to toggle Internal Page Zone assignments,
	LED On: station receives announcement
	LED Off: station does not receive announcement.
	Press the <b>[Save]</b> button to store the Page Zone data.

# 3.3.3.8 PTT (Push-To-Talk) Group Access – PGM 119

Each iPECS Phone is assigned to receive PTT announcements from any combination of the nine PTT groups. Note remote stations and stations not assigned to a group will not receive PTT page announcements including All PTT group page. As a default, all stations except remote stations are assigned to group 1.

PROCEDURE:		
PTT GROUP ACCESS ENTER STA NUMBER	1. Press the <b>[PGM]</b> button and dial 119.	
100-110 PTT GRP ACC PRESS FLEX_KEY (01-10)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.	
	The first 10 Flex button LEDs indicate assigned zones. Press the desired Flex button to toggle Push-To-Talk group assignments,	
	LED On: station receives announcement	
	LED Off: station does not receive PTT announcement	
	Flex button 10 assigns group 0, all groups.	
	Press the [Save] button to store the PTT group data.	

### 3.3.3.9 Preset Call Forward – PGM 120

This assignment allows an external or internal call to initially ring at a station and forward to a predetermined destination. Preset Call Forward can be assigned separately for internal and external calls forwarding for all calls (Unconditional), Internal Busy, No-Answer or DND, or External Busy, No-Answer or DND. Calls can set as Preset Forward to a Station, Hunt group, System Speed dial for Off-net, or Station ICR.

For the "Transfer to Mail-Box" enter the Station Group number of the Voice Mail group (external VM, VSF or Feature Server Voice Mail group). This will permit other iPECS IP Phone and LDP users to transfer a call directly to the desired user's Voice Mail-Box.

PROCEDURE:	
CALL FWD PRESET ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 120.
100 – 110 STA PRES FWD CONDITION CHOICE (F1 –F8)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
F1:S F2:H F3:SPD F4:ICR UNCONDITION :	Press Flex Button for the desired type of forward: 1. Unconditional 2. Internal Busy
	3. Internal No Answer
	4. External Busy
	5. External No Answer
	6. Transfer to Mailbox (destination must the VM Group).
	7. Internal DND
	8. External DND
ENTER FWD STA NO.	Select Flex button for the Destination type:
UNCONDITION : STA	1. Station
	2. Hunt Group
	3. System Speed Bin for Off-net
	4. Station ICR
	Use the dial pad to enter the value associated with the selected type:
	For Station & Net Station, enter station number,
	For Hunt Group, enter Station Group Number,
	For System Speed Bin for Off-Net enter Speed bin number.
	Press the <b>[Save]</b> button to store the data entry.

### 3.3.3.10 Idle Line Selection – PGM 121

When a station goes to an off-hook condition (lifts handset or presses **[SPEAKER]** button), the system normally provides intercom dial tone. In place of the dial tone, the station can be programmed to access a CO Line, CO/IP Group or call a Station or Station Group as described in Table 3.3.3.10-1. The Idle Line Selection (Prime Line) can be either immediate or delayed after going off-hook. The immediate/delay selection is based on the Hot/Warm assignment in Station Attributes III Prime Line PGM 113, button 7 and System timers PGM 182, button 6.

PROCEDURE:	
IDLE LINE SELECTION ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 121.
100-110 IDLE LINE NOT ASSIGNED (1-7)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Use the dial-pad to enter the type and value for the desired Idle Line selection, refer to Table 3.3.3.10-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.3.10-1 IDLE LINE SELECTION TYPE & VALUE (PGM 121)

TYPE	VALUE	DESCRIPTION
1	Flex button	Flex button, activates Flex Number as if dialed.
2	CO line	CO/IP path seizes CO line.
3	CO group	CO/IP Group seizes CO line from the CO/IP Group.
4	Station	Station, calls the assigned station
5	Hunt Group	Call to Hunt Group
6	Station Speed	Call to Station Speed
7	System Speed	Call to System Speed

### 3.3.3.11 Station IP Attributes – PGM 122

Stations are allowed access to the systems H.323 VoIP resources based on the Station IP Attributes. Refer to Table 3.3.3.11-1 for a description of the attributes and the inputs available.

PROCEDURE:	
STATION IP ATTRIBUTE ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 122.
100-110 STA IP ATT PRESS FLEX KEY (1)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.3.11-1.
	Use the dial-pad to enter desired data for the Station IP Attribute, refer to Table 3.3.3.11-1.
	Press the <b>[Save]</b> button to store the data entry.

### Table 3.3.3.11-1 STATION IP ATTRIBUTES (PGM 122)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 DTR IP CALL (1:EN/0:DIS) : ENABLE	Enables station to access an IP channel directly by dialing the IP Group access code to place H.323 or SIP VoIP calls.	0: Disable 1: Enable	Enable

000

### 3.3.3.12 Station Timers – PGM 123

1

Certain timers can be assigned on a station basis. Available timers, description and valid inputs are given in Table 3.3.3.12-1.

PROCEDURE:	
STATION TIMERS ENTER STA RANGE	1. Press the <b>[PGM]</b> button and dial 123.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button.
	Use the dial-pad to enter desired data for the Station IP Attribute, refer to Table 3.3.3.12-1.
	Press the <b>[Save]</b> button to store the data entry.

#### ATTRIBUTE/DISPLAY DESCRIPTION BTN RANGE DEFAULT This timer determines the 000-600 STA FWD NO ANS TMR (sec) duration the station will ring prior seconds

#### Table 3.3.3.12-1 STATION TIMERS (PGM 123)

	(000-600) : 000	to Ring-No-Answer Forward. This setting affects both manual and Preset Call Forward and overrides the System Ring No Answer timer PGM 181-button		
2	CUT OFF (Min) (00-99) : 00	Allowed length of CO/IP calls when station is assigned Call Time restriction in Station Attributes II, PGM 112, button 3	00-99 minutes	00

### 3.3.3.13 Linked Station Table – PGM 124

A station can be linked to another station so that the two stations effectively act as a single station with the attributes of the primary station number. An unregistered or registered station may be linked to a primary station. When unregistered station linking is used, the linked station does not reduce the system's capacity. However, in this case, either the linked station must be an iPECS Phone, Phontage, UCS Client or an SLT connected to an SLTM2. Unregistered linking of stations connected to other modules is not allowed. When an SLT phone attached to the second port of an SLIB is to be linked, in step 3 below, press flex button 4 and select Flex button 2, dial 1 and press **[Save]** button.

When a pre-registered station is to be linked to the primary station, it maintains its database except that the station number is the same as the primary station. In this case, the linked station will reduce the system capacity by one.

When a station is linked, characteristics of the connection to the MPB can be defined such as local device connection and codec type.

Only LIP, Phontage, UCS, WIT-400HE phone can use link pair on eMG80 system.

PROCEDURE:	
LINKED STA TABLE ENTER STA NUMBER	1. Press the <b>[PGM]</b> button and dial 124.
STA 110 IS LINKED PAIR PRESS FLEX KEY (1-3)	Use the dial-pad to enter primary station number for the Linked pair (Ex. 110).
	Press the desired Flex button. For Flex button 5, after selection press Flex 1~3, as appropriate, refer to Table 3.3.3.13-1.
	Use the dial-pad to enter desired data, refer to Table 3.3.3.13-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.3.13-1 LINKED STATION ATTRIBUTES (PGM 124)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SET IP ADDRESS IP: IP NOT ASSIGNED	IP Address of the linked station not required.		
2	ROUTER IP ADDRESS IP: ROUTER IP NOT ASSIGN	Set Router IP address associated with linked station.		
3	STA 110 : SET MAC ADDR MAC: NOT ASSIGNED	Set MAC address of linked un-registered station, required data. Note the secondary station must not be registered in the system prior to linking. If needed, delete the device from the system.		

### 3.3.3.14 ICM Tenancy Group – PGM 125

Stations can be assigned to an ICM Tenancy group under Station Attributes II PGM 111, button 17. Up to 15 Tenant groups can be defined. Each group is configured to allow or deny placing intercom calls to stations in other groups and an Attendant station can be defined for each group. The Attendant will receive "dial 0" calls and controls Day/Night mode for the Group.

PROCEDURE:		
ICM TENANCY GROUP ENTER GRP NUMBER (01-15)	1. Press the <b>[PGM]</b> button and dial 125.	
ICM TENANCY GRP 01 F1:ATD F2:ACCESS	Use the dial-pad to enter the group number (Ex. 01)	
	Press the desired Flex button; refer to Table 3.3.3.14-1.	
	For Attendant assignment, use the dial-pad to enter the station number of the Group Attendant.	
	To assign accessible ICM Tenancy groups for the group, the Flex button indicates the current Tenant group access. Press the Flex.	
	Buttons to toggle Group access settings.	
	LED ON: group access allowed	
	LED OFF: group access denied	
Press the [Save] button to store the data entry.		

#### Table 3.3.3.14-1 ICM TENANCY GROUP ATTRIBUTES (PGM 125)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ICM TENANCY GRP 01 ATD:	Attendant station for the ICM tenancy group. ATD. Receives dial '0' calls and controls Day/Night mode.	STA No	-
2	ICM TENANCY GRP 01 PRESS ACCESS GRP(1-15)	ICM Tenancy groups allowed access to the selected group.	Flex 01-15	GROUP 1

### 3.3.3.15 Station VM Attributes – PGM 127

Voice Mail attributes can be assigned on a station basis. The description and valid inputs are given in Table 3.3.3.15-1.

PROCEDURE:	
ENTER PGM NUMBER	1. Press the <b>[PGM]</b> button and dial 127.
STATION VM ATT ENTER STA RANGE	Enter Station Range.
100-110 STA VM ATT PRESS FLEX KEY (01-11)	Press the desired Flex button.
	Use the dial-pad to enter desired data, refer to Table 3.3.3.15-1.
	Press the <b>[Save]</b> button to store the data entry.

BTN	– ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT	
1	VM COS (1-5) : 1	Voice Mail COS (Grade) can be set on each station. Each COS attributes can be set at PGM 253.	1-5	1	
2	ADMINISTRATOR MAILBOX (1:EN/0:DIS):DISABLE	If this option is set to ON, Administrator Voice Mail feature can be accessed.	0: Disable 1: Enable	Disable	
3	ANNC. ONLY MAILBOX (1 :EN/0 :DIS) :DISABLE	If this option is set to ON, no message can be left and only the greeting is played.	0: Disable 1: Enable	Disable	
4	ANNC. ONLY OPTION (0-1):PREVIOUS MENU	This option is available only ANNC. ONLY MAIL BOX is set to ON. If Previous Menu, after greeting message is played, go to previous menu. If Hang Up, after greeting message is played, call is hanged up.	0: Previous 1: Hang Up	Previous menu	
5	COMPANY DIR FIRST NAME	This field is first name of a station for Company Directory feature.	Max 12 Char	N/A	
6	COMPANY DIR LAST NAME	This field is last name of a station for Company Directory feature.	Max 12 Char	N/A	

#### Table 3.3.3.15-1 STATION VM Attributes (PGM 127)

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	CASCADE MAILBOX	Message cascading is a feature that copies messages left for the originating mailbox to another mailbox. This field is destination mail box station.		N/A
8	CASCADE TYPE (0-4):OFF	Message cascading type can be set. 1: Copy-immediate 2: Copy-urgent 3: Move-immediate 4: Move-urgent	0: OFF 1: Copy-Imm 2: Copy-Urg 3: Move-Imm 4: Move-Urg	OFF
9	USER-MSG RW/FF TIME (03-99):04 Sec	User Message Rewind / Fast Forward are supported by this time.	03-99	04
10	NOTIFY RETRY COUNT (00-99) : 03	It is used to transfer call to attendant if retry count is over this for VM notification.	00-99	03
11	NOTIFY DIAL TIME (00-99) : 15 Sec	It is dial waiting time after provide VMIU/VMIB announcement for VM notification.	00-99 (seconds)	15

# Table 3.3.3.15-1 STATION VM Attributes (PGM 127)

### 3.3.3.16 Station CCR Table – PGM 128

CCR Table can be assigned on a station basis. The description and valid inputs are given in Table 3.3.3.16-1.

PROCEDURE:	
ENTER PGM NUMBER	1. Press the <b>[PGM]</b> button and dial 128.
STATION CCR ENTER STA RANGE	Enter Station Range (Ex. 100~110).
100-110 STA CCR PRESS FLEX KEY (01-14)	Press the desired Flex button.
	Press the desired Flex button; refer to Table 3.3.3.16-1.

### Table 3.3.3.16-1 STATION CCR Table (PGM 128)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1-10	101 – 110 STA CCR INPUT 0 : NOT ASSIGNED	Button 1 to 10 means outside user press 1 to 0. This dialing is matched with this table destination. The destination is 14 kinds.		NA
11	101 – 110 CCR TBLUSAGE (1:ON/0:OFF) : OFF	If this option is set to ON, this CCR table is worked. If this option is set to OFF, this CCR table is not worked, instead of that, outside caller's dialed digit can be regarded as DISA dialing.	0: OFF 1: ON	OFF
12	101 – 110 CCR 1 DGT ONLY (1:ON/0:OFF) : OFF	If this option is set to ON, one digit only is activated. If this option is set to off, one digit is not worked.	0: OFF 1: ON	OFF
13	101 – 110 * USED AS (0-3) : NUMBERING PLAN	<ul> <li>* can be used as the following:</li> <li>System Numbering Plan</li> <li>Replay Greeting</li> <li>Access Mailbox</li> <li>Leave Message Immediate</li> </ul>	Refer to Description	System Numbering Plan
14	101 – 110 # USED AS (0-3) : NUMBERING PLAN	<ul> <li># can be used as the following:</li> <li>System Numbering Plan</li> <li>Replay Greeting</li> <li>Access Mailbox</li> <li>Leave Message Immediate</li> </ul>	System Refer to Description	System Numbering Plan

TYPE	DESCRIPTION		
1	Route to a Station		
2	Route to a Hunt Group		
3	Route with System Speed Dial		
4	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)		
5	Route to VSF Announcement		
6	Route to VSF Announcement and disconnect		
7	Route to Networked Station		
8	Conference Room		
9	Internal Page		
10	External page		
11	All Call Page		
12	Route to voice mail (Hunt group/station number)		
13	Company Directory (USA Only)		
14	Record VM Greeting (USA Only)		

## 3.3.3.17 LSS Label Edit – PGM 129

The LIP-8012 LSS 12 button DSS Console incorporates an LCD used to label the function of each button. The label, which can be up to 12 characters, is assigned in this program.

PROCEDURE:	
LSS LABEL EDIT ENTER STA NUMBER	1. Press the <b>[PGM]</b> button and dial 129.
STA 100 LSS LABEL ENTER LSS IDX(1-4)	Use the dial-pad to enter the station number associated with the console (Ex. 100).
STA 100 LSS 1 ENTER BTN NO (01 – 12)	Consoles are indexed, allowing multiple consoles to be associated with a station. Use the dial-pad to enter the index of the LSS console $(1 \sim 4)$ .
STA 100 LSS 1 BTN 1 LABEL IS EMPTY	Use the dial-pad to enter the desired LSS console button number (1 ~ 12).
	Edit the label referring to Table 2.1.2-1 Alpha-numeric Entry Chart.
	Press the <b>[Save]</b> button to store the data entry.

# 3.3.4 BOARD DATA - PGM 130 to 132

#### 3.3.4.1 H.323 VoIP Attributes - PGM 130

The VOIP channels are used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned. The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

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

This PGM also allows setting the IP TOS bit for Diffserv, a commonly recognized packet prioritization protocol. Higher priority packets are given priority in the Router or Layer 3 Switch queue. However, they are the first to be discarded in the event of long queue delays, which may cause excess packet loss and poor voice quality.

PROCEDURE:	
H323 VOIP ATTRIBUTE ENTER SEQ NO(001-262)	1. Press the <b>[PGM]</b> button and dial 130.
001 H323 VOIP ATTR PRESS FLEX KEY (01-24)	Use the dial pad to enter the VoIP board sequence number.
	Press the desired Flex button; refer to Table 3.3.4.1-1.
	Use the dial pad to enter the desired data, refer to Table 3.3.4.1-1.
	Press the <b>[Save]</b> button to store the data entry.

Refer to Table 3.3.4.1-1 for a description of the features and the input required.

#### Table 3.3.4.1-1 H.323 VOIP ATTRIBUTES (PGM 130)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	H.323 SETUP MODE (1:FAST/0:NORM): FAST	H.323 IP calls can be set-up using the H.323 normal or Fast Start mode.	0: Fast 1: Norm	Fast
2	H.323 TUNNEL MODE (1:ON/0:OFF) : ON	H.323 IP calls can be set-up using the H.245 encapsulation (Tunneling).	0: OFF 1: ON	ON
3	H.323 DTMF PATH (0:IN/1:OUT/2:2833): 0	During a connection, DTMF Digits can be sent in-band or out of band (H.245).	0: In band 1: Out band 2: 2833	0
4	DIFFSERV PRETAG TAG (00-63) : 04	Diffserv pre-tagging for Voice packet. Note high values may cause high packet discard levels.	0~63	4

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	RAS USAGE (1:ON/0:OFF) : OFF	Determine whether VOIU/VOIB Board will be used as a Gatekeeper.	0: OFF 1: ON	OFF
6	RAS MULTICAST IP 224.0.1.41	Multi-cast IP address for RAS Information of Gatekeeper.	IP Address	224.0.1.41
7	RAS MULTICAST PORT (00001-65535): 01718	Multi-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1718
8	RAS UNICAST IP 82.134.80.2	Uni-cast IP address for RAS Information of Gatekeeper.	IP Address	82.134.80.2
9	RAS UNICAST PORT (00001-65535): 01719	Uni-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1719
10	RAS KEEP_ALIVE TM (001-999) : 120 (sec)	The time between exchange of RAS Information between GK and VOIB/VOIU.	001-999 (SEC)	120
11	RAS NUM PLAN PREFIX 9	The numbering plan for Calling Number in RAS Setup.	Number (24 digits)	9
12	RAS GATEWAY ID ONLY POSSIBLE BY WEB ADM	The Gatekeeper ID (This can be programmed only via WEB Admin).	128 Character	
13	RAS LIGHT RRQ (1:ON/0:OFF) : OFF	The system can be assigned to use the simple RRQ (Registration Request) message (ON) or the full RRQ message (OFF).	0: OFF 1: ON	OFF
14	TCP KEEP ALIVE (1:ON/0:OFF) : ON	The system will send a polling message every 75 seconds to assure the status of the TCP connection.	0: OFF 1: ON	ON
15	FAIL OVER USAGE (1:ON/0:OFF) : OFF	The H.323 call will be failover to another line (FAIL OVER USAG: ON).	0: OFF 1: ON	OFF
16	FAIL OVER TIME(sec) (03-10) : 05	The H.323 call will be failover. The time will be set.	03-10 (Sec.)	5
17	FAIL OVER CO GRP (01-21) :	If the H.323 call will be failover, assign another CO group.	01-21	
18	Q931 START PORT (00001-65535) : 02048	IP-Binding H.323 signaling option: Q.931 TCP Start Port in case of outgoing call.	00001-65535	2048
19	Q931 END PORT (00001-65535) : 02559	IP-Binding H.323 signaling option: Q.931 TCP End port in case of outgoing call.	00001-65535	2559

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
20	H245 START PORT (00001-65535) : 02560	P-Binding H.323 signaling option: H.245 TCP Start Port.	00001-65535	2560
21	H245 END PORT (00001-65535) : 03071	IP-Binding H.323 signaling option: H.245 TCP End Port.	00001-65535	3071
22	RAS START PORT (00001-65535) : 02048	IP-Binding H.323 signaling option: RAS UDP Start Port.	00001-65535	2048
23	RAS END PORT (00001-65535) : 03071	IP-Binding H.323 signaling option: RAS UDP End Port.	00001-65535	3071
24	001 H323 VOIP ATTR (2ND) PRESS FLEX KEY (1-4)			
24-1	MEDIA START PORT (00001-65535) : 06000	IP-Binding media option: Media UDP Start Port.	00001-65535	6000
24-2	MEDIA END PORT (00001-65535) : 07036	IP-Binding media option: Media UDP End Port.	00001-65535	7036
24-3	DATA START PORT (00001-65535) : 08500	IP-Binding option: Data Sharing TCP Start Port.	00001-65535	8500
24-4	DATA END PORT (00001-65535) : 08548	IP-Binding option: Data Sharing TCP End Port.	00001-65535	8548

# Table 3.3.4.1-1 H.323 VOIP ATTRIBUTES (PGM 130)

## 3.3.4.2 T1/E1/PRI Attributes – PGM 131

Each T1/PRI module can be assigned for various attributes of the interface. The T1 interface framing and line coding can be selected and, for the PRI, TE or NT operation and CRC check can be selected. Refer to Table 3.3.4.2-1 for a description of the features and the input required. Note that the Sequence Number can be determined in PGM 103, Button 1.

PROCEDURE:	
T1 /E1/PRI ATTRIBUTE ENTER SEQ NO ( 001 –262 )	1. Press the <b>[PGM]</b> button and dial 131 and enter sequence number (Ex. 001).
001 T1 /PRI ATTR PRESS FLEX KEY ( 1 – 6 )	Use the dial pad to enter the Sequence Number of the desired T1/PRI module. Use PGM 103 to determine Sequence Numbers. (e.g. enter the sequence number
	Press the desired Flex button; refer to Table 3.3.4.2-1.
	Use the dial pad to enter the desired data, refer to Table 3.3.4.2-1.
	Press the [Save] button to store the Table data entry.

#### Table 3.3.4.2-1 T1/PRI MODE (PGM 131)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	T1 SETUP MODE (1:ESF/0:D4) : D4	Select T1 Setup mode. D4 frame: Use In-Band Control Protocol. ESF: Use Data link Message.	0: D4 1: ESF	D4
2	T1 LINE MODE (1:AMI/0:B8ZS) : B8ZS	Select T1 line mode (AMI/B8ZS).	0: B8ZS 1: AMI	B8ZS
3	PRI LINE MODE (1:TE/0:NT): TE	Select TE/NT mode.	0: NT 1: TE	TE
4	PRI/E1 CRC CHECK (1:ON/0:OFF): OFF	For PRI lines the CRC (Cyclical Redundancy Check) can be disabled (OFF).	0: OFF 1: ON	OFF
5	E1 R2DSP CHECK (1:ON/0:OFF): OFF	Used for R2-El board or E1 board.	0: OFF 1: ON	OFF
6	DCO PX TYPE (0-3): STANDARD (2)	Reserved for future use with R2 E1 board.	0: S1240 1: TDX1B 2: STANDARD 3:CONGES_DIS	STANDARD

### 3.3.4.3 Board Base Attributes – PGM 132

Appliances (Boards and IP Phones) can be connected to the iPECS over a managed WAN without the need to employ a VoIP channel. In this case, the system does not implement security (IPSec) or QoS treatment over the link. To implement the managed WAN connectivity, the iPECS must be assigned with the IP address of the router for all appliances that may attempt a point-to-point connection over the managed WAN, including devices on the iPECS LAN. Note that if the device's Router IP address is not defined, the system will use the Router IP address defined in PGM 102.

The default codec employed by each device can be specifically defined as G.711, G.723, G.729, G.722 or the system default codec PGM 161 can be defined.

Note that the Sequence Number can be determined in PGM 103, Button 1.

PROCEDURE:	
BOARD BASE ATTRIBUTE ENTER RANGE (001–262 )	<ol> <li>Press the [PGM] button and dial 132 and enter Range (Ex. 001~002).</li> </ol>
PRESS FLEX KEY (01–13)	Use the dial pad to enter the Sequence Number range of the desired module. Use PGM 103 to determine Sequence Numbers.
	Press the desired Flex button; refer to Table 3.3.4.3-1.
	Use the dial pad to enter the desired data, refer to Table 3.3.4.3-1.
	Press the [Save] button to store the Table data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001-002 ROUTER IP ADDR 0 .0 .0 .0	Enter the default Router IP address associated with the selected devices.		0.0.0.0
2	001-002 DEV CODEC TYPE (0-4): SYSTEM CODEC	Select the CODEC type for the selected devices: 0: G.711, 1: G.723.1, 2: G.729, 3: G.722 4: System Codec refer to PGM 161-button 9.	0-4	4
3	001-002 FIRWALL IP ADDR 0 .0 .0 .0	Enter the Firewall IP address associated with the selected devices.		0.0.0.0
4	001-002 RTP SECURITY (1:ON/0:OFF) : ON	Remote iPECS IP & LDP phones use IPSec to assure a secure connection. To reduce bandwidth use, IPSec may be disabled.	0: OFF 1: ON	ON

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BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	001-002 TNET ENABLE (0:ON/0:OFF) : OFF	When a module or station is to be connected in a Centralized Control network (TNET), the device must be enabled for TNET operation.	0: OFF 1: ON	OFF
6	001-002 VSF SENDER MAIL	VMIU/VMIB e-mail address for Mailbox Mail Sending.		NULL
7	001-002 T38 ENABLE (1:ON/0:OFF) : OFF	T38 mode ON/OFF for FAX data transfer.	0: OFF 1: ON	OFF
8	001-002 USE BOARD IP FOR SIP (1:ON/0:OFF) : OFF	VOIB IP will be used for SIP signaling in Multi NAT circumstance.	0: OFF 1: ON	OFF
9	001-002 RTP FIRWALL IP 0 .0 .0 .0	Enter the Firewall IP address associated with the Remote Phone or Gateway/board if there needs Dual Broadband connection for SIP trunks and Remote phones (using a VOIB).		0.0.0.0
10	001-002 T38 PORT USAGE (0:D/1:S/2:T) : 0	T38 Port can be different with Voice Port. Or, be same or be triggered.	0: D 1: S 2: T	0
11	001-002 2833 PAYLOAD (000-127) : 000	RFC 2833 Payload is programmable.	000-127	000
12	001-002 2833 VOLUME (00-36) : 00	RFC 2833 packet volume.	00-36	00
13	001-002 2833 REDUNDANCY (1-8) : 0	RFC2833 Packet Redundancy.	1-8	0

Table 2.2.4.2.4 BOADD ATTRIBUTES	(DCM 422)
Table 3.3.4.3-1 BOARD ATTRIBUTES (	

# 3.3.5 CO LINE DATA – PGM 140 to 151

### 3.3.5.1 CO Service Type – PGM 140

Each CO Line is assigned a type, Normal or DID. Normal CO Lines can be employed for DISA Service PGM 146. DID lines are for incoming only operation and provide call routing based on signaling from the carrier, refer to section 3.3.5.4 DID Service Attributes - PGM 145.

PROCEDURE:	
COL SERVICE ATT ENTER COL RANGE	1. Press the <b>[PGM]</b> button and dial 140 and enter the range (Ex. 0102).
01-02 SVC TYPE PRESS FLEX KEY (1-1)	2. Press the desired Flex button.
01-02 SVC TYPE (1-4) NORMAL CO (1)	Use the dial pad to enter a CO Line range. For a single CO Line, enter the same number twice.
	Use the dial pad to enter the desired service type: 1. Normal CO line 2. DID line 3. TIE line 4. Unused
	Press the <b>[Save]</b> button to store the data entry.

## 3.3.5.2 CO/IP Attributes I ~ III - PGM 141~143

CO/IP Attributes define various characteristics of the CO lines and IP facilities under control of the system. Most require a dial pad input of 1 or 0 to set the characteristic, refer to Table 3.3.5.2-1 to Table 3.3.5.2-3. Specific descriptions for Class-of-Service and CO line Call Metering tones are provided in Table 3.3.5.2-4 and Table 3.3.5.2-5 respectively.

PROCEDURE:	
CO/IP ATTRIBUTE 1 ENTER COL RANGE	<ol> <li>Press the [PGM] button and dial:</li> <li>141 for CO/IP Attributes I</li> </ol>
	142 for CO/IP Attributes II 143 for CO/IP Attributes III.
01-02 CO/IP ATT 1 PRESS FLEX KEY (01-20)	Use the dial-pad to enter a CO/IP line range. For a single CO/IP Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.2-1 to Table 3.3.5.2-3.

PROCEDURE:	
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.2-1 through Table 3.3.5.2-5.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 CO/IP GROUP GRP NO (01-20) : 01	Each CO Line is assigned to a group; grouping should be based on the Line type and COS.	01
2	01-02 CO LINE COS COS (1–5) : 1	Each CO Line is assigned a Class-of-Service which will interact with the Station COS, refer to section 3.3.5.2. CO COS 1: Station COS applies CO COS 2: Exception Table A governs CO COS 3: Exception Table B governs CO COS 4: Restricts LD calls and Exception Table C CO COS 5: Overrides Station COS 2~6 with no restrictions.	1
3	01-02 CO START SIGNAL (1:GND/0:LOOP) : LOOP	The system can recognize a loop closure or a ground as the "connect" (start) signal on an analogue CO Line.	LOOP
4	01-02 CO LINE TYPE (1:PBX/0:CO) : CO	Each CO Line can be assigned as connected to a CO Line or a PBX/CTX Line.	со
5	01-02 CO LINE SIGNAL (1:DTMF/0:PULSE):DTMF	Each analogue CO Line can be assigned to send either DTMF or Pulses for dialed digits to the PSTN.	DTMF
6	01-02 FLASH TYPE (1:GND/0:LOOP): LOOP	Analogue CO Lines can generate either an Open Loop or a momentary ground connection as the FLASH signal.	LOOP
7	01-02 UNIVERSAL ANS (1:ON/0:OFF) : OFF	Universal Night Answer (UNA) allows any station to answer a call on the CO Line by dialing the UNA code.	OFF
8	01-02 CO/IP GRP AUTH (1:ON/0:OFF) : OFF	Each CO/IP Group can be assigned to require the user enter an Authorization Code for access.	OFF
9	01-02 DATA STATION NO FAX :	Each CO/IP line can be assigned to recognize a FAX call when a specified station answers.	
10	01-02 TENANCY GROUP (00-15) : 00	Only stations in the assigned Tenancy group are permitted access to the defined CO Line.	00

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
11	01-02 CO VOIP MODE VOIP MODE(1-6) : COMMON	The VOIB channels can support iPECS, H.323 or SIP protocols. This field defines the protocol for the VoIP channel(s). 1: COMMON 2:H.323 ONLY 3: SIP ONLY 4:RTP RLY 5:H.323/RTP RLY 6:SIP/RTP RLY	COMMON
12	01-02 PROCTOR ON/OFF (1:ON/0:OFF) : OFF	Each analogue CO line can be assigned to send the station number as DTMF digits for Proctor service.	OFF
13	01-02 WAIT IF VSF BUSY (1:ON/0:OFF) : ON	When a DID/DISA call assigned to receive a VMIU/VMIB announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or route to the DID/DISA Destination - PGM 167.	ON
14	01-02 UNUSED		
15	01-02 UNUSED		
16	01-02 RING TONE (00-12, 0:N/A) : 00	Ring Tone can be programmable by CO-line base admin.	00
17	01-02 UNUSED		
18	01-02 GAIN TABLE (1-3) : 1	TDM gain table can be programmed.	1
19	01-02 TONE TBL (1-5) : 1	Tone table can be programmed.	1
20	01-02 DGT CONV. TBL (01-15) : 01	Select digit conversion table.	01

# Table 3.3.5.2-2 CO/IP ATTRIBUTES II (PGM 142)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 CO NAME DISPLAY (1:ON/0:OFF) : OFF	The IP Phone display can indicate the CO Line/IP channel number or a twelve (12)- character name, if assigned.	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
2	01-02 CO NAME ASSIGN	Each CO Line and the IP group can be assigned a twelve (12) character name for display purposes, see Table 3.1.2-1 for character entry sequence.	
3	01-02 METERING UNIT 00:NONE (0-6)	Selects the call-metering signal from the PSTN to indicate call cost, refer to Table 3.3.5.2-5.	00
4	01-02 LINE DROP(CPT) (1:ON/0:OFF) : OFF	Each CO Line can be programmed to disconnect if an error tone is detected.	OFF
5	01-02 DISA ACCT CODE (1:ON/0:OFF) : ON	With DISA ACCT CODE "ON", users will be required to enter an Authorization code. Enter codes in Authorization Codes Table - PGM 227.	ON
6	01-02 MOH: (00-10) MUSIC 1 (01)	A held call can be connected to one (1) of three (3) possible audio sources while on Hold as Music-on-Hold (MOH). 00:REFER TO SYS HOLD 01: INT music 02: EXT music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10:VSF MOH3	01
7	01-02 CO DIAL TONE (1:ON/0:OFF) : ON	ISDN Lines may provide a digital signal rather than actual tones. If the ISDN tone is set to "OFF", iPECS can	ON
8	01-02 CO RBACK TONE (1:ON/0:OFF) : OFF	provide the tones.	OFF
9	01-02 CO ERROR TONE (1:ON/0:OFF) : OFF		OFF
10	01-02 CO BUSY TONE (1:ON/0:OFF) : OFF		OFF
11	01-02 DISA CO ACCESS (1:ON/0:OFF) : OFF	Permits DISA users access to the VoIP facilities of the system.	OFF
12	01-02 FLASH TMR (000-300 10 ms) : 050	This entry sets the duration of a Flash on the CO Line.	050 500 msec
13	01-02 OPEN LOOP (00-20 100ms) : 04	This entry sets the duration of open loop that will be recognized as a "Disconnect Signal".	04

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BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
14	01-02 ICLI DT TMR (00-20 SEC) : 00	When a call is received, the system may use the ICLID (Incoming Caller ID) to route the call. The system will delay routing a call for this timer while awaiting ICLID. Enter a 00 to disable ICLID routing.	00
15	01-02 SMS OUTGOING (1:EN/0:DIS) : DISABLE	Each CO line can be assigned to support PSTN SMS.	Disable
16	01-02 SMS RCV STATION STA :	When a PSTN SMS is received, the system delivers the message to the assigned station.	
17	01-02 DL TN:(00-10) DIAL TONE (00)	One of eleven dial tones can be used by the CO line. 00:DIAL TONE 01:INT MUSIC 02:EXT MUSIC 03:VSF MOH 04:SLT MOH1 05:SLT MOH2 06:SLT MOH3 07:SLT MOH4 08:SLT MOH5 09:VSF MOH2 10:VSF MOH3	dial tone
18	01-02 RB TN: (00-10) RING BACK TONE (00)	One of eleven ring back tones can be used by the CO line.	Ring back tone
19	01-02 REJECT ANONYMOUS (1:ON/0:OFF) : OFF	When REJECT ANONYMOUS "ON", incoming call without Caller ID will be rejected.	OFF
20	01-02 PREFIX TABLE ID (0-6) : 0	If prefix table ID is set to 0, then prefix dialing call cannot be applied. If prefix table ID is set to (1-6), then prefix dialing call can be applied with PREFIX DIALING TABLE (PGM 206)	0
21	01-02 CO CUT OFF TMR (00-99 MIN) : 00	Co base call cut off timer can be set at this field.	00
22	01-02 DISA DELAY TMR (0-9 SEC): 0	It is only used for Russia. System is connected to DISA call immediately, and DISA announcement is played after this timer.	0
23	01-02 LDT TBT INDEX (00-10) : 01	LCR will be operated with LDT table index.	1
24	01-02 DISA ANS TMR (0-9 SEC) : 0	It is only used for Russia. When DISA incoming call, System is connected after DISA Answer Timer.	0

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 COLP TABLE IDX INDEX : NOT ASSIGNED	When an incoming call on an ISDN Line is answered, the system will send caller id using the number from the CLIP/COLP Table –PGM 201- entry defined by this parameter.	None
2	01-02 CLIP TABLE IDX INDEX : NOT ASSIGNED	When a call is placed on an ISDN Line, the system will send caller id using the number from the CLIP/COLP Table –PGM 201- entry defined by this parameter. For entry 00, the CLI STA NO entered in PGM 114-button 6 will be used in place of the station number. For other entries, the station number is added as a suffix to the entry in PGM 201.	None
3	01-02 ENBLOCK SENDING (1:ON/0:OFF) : ON	This entry determines if the system sends dialed digits to the ISDN line as they are received (Overlap) or collects all digits and forwards them in a block, ENBLOCK.	ON
4	01-02 TYPE OF NO(0-4) NATIONAL (2)	For outgoing calls on the ISDN Line, this parameter defines the "Type of Number Plan" provided in Calling Party Information Element of the ISDN call SETUP message. 0: UNKNOWN 1: INTERNATIONAL 2: NATIONAL 3: Unused 4: SUBSCRIBER	2
5	01-02 DID REMOVE NO (00-99) : 00	When a DID call is received on an ISDN Line, this entry determines the number of digits that will be removed starting with the first received digit.	00
6	02 TEI TYPE (1:AUTO/0:FIX) : AUTO	The TEI (Terminal Endpoint Identifier) is a unique identifier for each device attached to the ISDN line. When the system shares an ISDN connection with other devices, the TEI should be automatic to assure no conflict with other attached devices. When the ISDN connection is not shared, the Fixed identifier option should be employed.	AUTO
7	02 ISDN-SS CD/CR (1:EN/0:DIS) : DISABLE	Permits a user access to ISDN Supplementary Call Deflection or Call Re- route Service. (Except USA version)	Disable
8	02 ISDN 1 DGT RM (1:ON/0:OFF) : OFF	Select one digit remove mode in ISDN Called Digits (for Italy).	OFF
9	001-002 AOC TYPE (0-5) NO SERVICE (0)	When assigned, the system will analyze the Advice of Charge information in the Facility Message according to the ETSI specifications with appropriate regional protocol support.	No Service

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
10	001-002 ISDN LINE TYPE (1:U/0:A): U_LAW	The system will encode voice using the A-law or u-law PCM format and should be set to match the ISDN Back bone type.	u-Law
11	01-02 CALLING SUBADDR (1:ON/0:OFF) : OFF	For outgoing calls, the user's station number may be included in the ISDN call SETUP message Sub-address field.	OFF
12	01-02 IN PREFIX INS (1:ON/0:OFF) : OFF	Regional ISDN providers may use the Local Area Prefix code for special services. In cases where the code is not provided in the incoming call SETUP message, the system can insert the Local Prefix and Area code in SMDR, LNR, displays, etc.	OFF
13	01-02 OUT PREFIX INS (1:ON/0:OFF) : ON	Regional ISDN providers may use the Local Area Prefix code for special services. The system can insert the Local Prefix in the outgoing call SETUP message.	ON
14	01-02 INT ACCESS CODE	When an incoming call includes the international Country code in the ISDN call SETUP message, the Country code will be included in the station display. To include the Country code, Incoming Prefix insertion (button 12 above) and CLI Display for the station (PGM 114-button 1) must be On.	
15	01-02 AREA CODE	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Area Code in the call SETUP messages defined under button 13 above.	-
16	01-02 PREFIX CODE	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Prefix Code in the call SETUP messages defined under button 13 above.	-
17	01-02 CLI TRANSIT (1:ORI/0:CFW):CFW	When the system must send CLI to the ISDN for an off-net call, the CLI can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station.	CFW
18	01-02 PRESERVE NAME (1:ON/0:OFF) : OFF	For DID lines, the CLI is normally displayed only during ringing. If enabled here, the CLI will be displayed for the entire call duration.	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
19	01-02 REDIRECT INFO NO SERVICE (0)	When the system needs to send Redirecting number to the ISDN for an off-net call, the Redirecting number can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station. If it is no service then system will not send this information. If it is OGR CLI (original CLI) then system will send original CLI that is received from incoming CO line. If it is CFW CLI then system will send redirecting CLI that is CLI for call off-net call forwarded station.	NO SERVICE
20	01-02 INC CLI CHOICE (1:ORI/0:TRANSIT):TRS	Incoming CLI Choice – When ISDN setup message have two CLI (Transit Point CLI / Original CLI), by using this option, CLI can be chosen.	Transit
21	01-02 CALLING NUM PLAN (0-6):ISDN/TELEPHONY (1)	<ul> <li>ISDN Calling Party Numbering Plan can be programmable.</li> <li>0: Unknown.</li> <li>1: ISDN / Telephony.</li> <li>2: Data / Numbering.</li> <li>3: Telex.</li> <li>4: National Standard.</li> <li>5: Private.</li> <li>6: Reserved.</li> </ul>	ISDN/ Telephony
22	01-02 CALLED NUM PLAN (0-6) : UNKNOWN (0)	ISDN Called Party Numbering Plan can be programmable. 0: Unknown. 1: ISDN / Telephony. 2: Data / Numbering. 3: Telex. 4: National Standard. 5: Private. 6: Reserved.	Unknown
23	01-02 SCREENING (0-3) USER PROVIDED, NO S (0)	ISDN Screening Indicator can be programmable. 0: User Provided, No Service. 1: User Provided, Pass. 2: User Provided, Fail. 3: Network Provided.	0
24	ADDED CO LINE ATT3 PRESS FLEX KEY (1-5)		
24-1	01-02 CLI TYPE (1-5) STN CLI 1 (1)	Outgoing CLI can be chosen from CLI 1 to CLI 5. This program is combined with PGM 114 – Station CLI 1 to Station CLI 5.	1 (Station CLI 1)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
24-2	01-02 ISDN PLUSE CODE	When incoming CLI start with "+" code, this Plus code can be translated as this program.	-
24-3	01-02 CP/ALERT INBAND (1:ON/0:OFF):OFF	Send progress indication with in-band information in call proceeding and alerting message.	OFF
24-4	01-02 DISCONNECT INBAND (1:ON/0:OFF):OFF	Send progress indication with in-band information in disconnect message.	OFF
24-5	01-02 BURSTTN TO CALLER (1:ON/0:OFF):OFF	Send to burst tone to caller if it's set ON.	OFF

#### Table 3.3.5.2-4 STATION/CO LINE COS TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, 1 <sup>st</sup> digit "0" or "1") and Table C	Local Call only (LD Code, 1 <sup>st</sup> digit "0" or "1") and Table C	Local Call only (LD Code, 1 <sup>st</sup> digit "0" or "1") and Table C	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 9	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction

#### Table 3.3.5.2-4 STATION/CO LINE COS TOLL RESTRICTIONS

#### Table 3.3.5.2-5 CALL METERING FUNCTION

ENTRY	CALL METERING TYPE
00	- None
01	- 50 Hz
02	- 12 KHz
03	- 16 KHz
04	- Singular Polarity Reverse (SPR)
05	- Plural Polarity Reverse (PPR)
06	- No Polarity Reverse (NPR)

## 3.3.5.3 CO/IP Ring Assignment – PGM 144

Each CO/IP line is assigned to signal a station or group for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring modes. When assigned to ring to a VSF announcement, the call can be dropped automatically after the assigned announcement by entering '#' after the VSF announcement number.

When CO Lines are programmed to Ring an external AA/VM or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

PROCEDURE:	
CO RING ASSIGNMENT ENTER COL RANGE	1. Press the <b>[PGM]</b> button and dial 144.
01-02 PRESS KEY DAY NIGHT TIMED-R	Use the dial-pad to enter a CO Line range. For a single CO Line, enter the same number twice.
	Press the desired Flex button:
	Button 1: Day Ring
	Button 2: Night Ring
	Button 3: Timed Ring
	Use the dial pad to select the destination type:
	Dial 1: Station
	Dial 2: Hunt Group
	Dial 3: VSF
	Dial 4: AA Ring Time
	Dial 5: Net number
	Use the dial pad to enter a value for the selected destination type. For:
	Dial 1: Enter a station range (enter the same station number twice to assign a single station) and the ring delay if any, in ring cycles (0~9).
	Dial 2: Enter a hunt group number.
	Dial 3: Enter the VSF announcement number and, if desired '#' to drop the call after the announcement.
	Dial 4: For AA Ring Time, enter the desired delay from 00 to 30 seconds.
	Press the <b>[Save]</b> button to store the data entry.

## 3.3.5.4 DID Service Attributes – PGM 145

PSTN DID lines can be assigned the type of "Start" signaling and treatment of any received digits. Digits can be used "as is" to route the call within the system, digits can be converted and used to route the call, or digits can be converted to a Table index to determine the call routing based on the assigned conversion method, see Table 3.3.9.7-1 (PGM 231).

PROCEDURE:	
DID ATTRIBUTES ENTER COL RANGE	1. Press the <b>[PGM]</b> button and dial 145.
01-02 DID ATTRIBUTES PRESS FLEX KEY(1–4)	Use the dial-pad to enter the DID Line range. For a single DID Line, enter the same number twice.
	Select the desired Flex button; refer to Table 3.3.5.4-1.
	Use the dial-pad to enter the desired value for the selected Attribute, refer to Table 3.3.5.4-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.5.4-1 DID LINE ATTRIBUTES (PGM 145)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 SIG. TYPE: 1-3 WINK (2)	Assigns the type of DID start signaling, Immediate, Wink or Delayed.	1: Immediate 2: Wink 3: Delayed	Wink
2	01-02 DID CONV TYPE (0 – 2) : 1	The received DID digits can be treated to determine call routing, simple conversion (PGM 230), "use as is" (no treatment), or modify using look-up Table (PGM 231).	0: Convert 1: Use as is 2: Look-up	Use as is
3	01-02 DID DGT RCV NO 3 (2 – 4)	Number of digits expected from the PSTN DID circuit.	2~4	3
4	01-02 DID DGT MASK #***	DID digit modification sequence: "#" deletes the digit, "*" accepts the digit as is, a digit (0~9) replaces the digit. The modification is based on the position of the digit (1~4) in the received number.	(0~9, *, #)	#***

#### 3.3.5.5 DISA Service – PGM 146

DISA Service can be enabled on CO lines based on the system operation mode (Day, Night, and Timed). DISA calls may be routed to dial tone and await user dialing (simple routing) or through a multi-layered Audio Text menu assigning a VSF Announcement/Customer Call Route (CCR) Table Index. The system can be instructed to disconnect after the announcement or follow the CCR Table routing with a user-recorded announcement requesting specific inputs from the user.

PROCEDURE:	
DISA ATTRIBUTES ENTER COL RANGE	1. Press the <b>[PGM]</b> button and dial 146.
01-02 DISA ATTRIBUTE F1:DAY F2:NIGHT F3:TIME	Use the dial-pad to enter the CO Line range. For a single CO Line, enter the same number twice.
001-002 DISA ATTRIBUTE DAY SERVICE 00 (00 – 71)	Select the desired Flex button: Button 1: Day Button 2: Night Button 3: Timed
	Use the dial-pad to enter the desired VSF AA Announcement, (00: disabled, 01~70 CCR Table index PGM 228, or 71: await user digits). Enter '#' after the entry to include a "drop after announcement instruction".
	Press the [Save] button to store the data entry.

### 3.3.5.6 CO Line Preset Forward Attributes – PGM 147

The CO Line Preset Forward feature enables a CO line to initially ring at multiple stations and forward to a pre-determined destination (PGM 204). The destination can be a station, Voice Mailbox, ACD group, or Hunt group. Each CO line has a Preset Forward Timer. Each CO line also can be assigned a VMID (Voice Mail Id) to allow sending specific VM digits when a CO line forwards to an external VM group.

PROCEDURE:	
CO PRESET FWD ATT ENTER COL RANGE	1. Press the <b>[PGM]</b> button and dial 147.
01-02 CO PRE-FWD PRESS FLEX KEY(1–3)	Use the dial-pad to enter the CO Line range. For a single CO Line, enter the same number twice.
	Select the desired Flex button; refer to Table 3.3.5.6-1.
	Use the dial-pad to enter the desired value for the selected Attribute, refer to Table 3.3.5.6-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.5.6-1 CO LINE PRESET FORWARD ATTRIBUTES (PGM 147)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 PRESET FWD TMR (00-99 SEC) : 00	An incoming call, which remains unanswered for this timer, is routed to the pre-determined Ring Table Index, PGM 147-button 2.	00-99 Sec	00
2	01-02 RING TBL INDEX INDEX : NOT ASSIGNED	If an incoming call remains unanswered after the Preset Fwd time the call is routed as defined in the ICLID Ring Assignment table bin entered here, refer to PGM 204.	001-250	
3	01-02 VMID NUMBER	Each CO/IP line can be assigned a VMID (Voice Mail Id) that is sent to the VM group to identify the desired Mailbox for the CO/IP line.	0000~9999	

## 3.3.5.7 CO Additional Attributes - PGM 148

CID Attributes are assigned for Analog CO Line Caller Id services.

PROCEDURE:	
CO ADDITIONAL ATTR ENTER COL RANGE	1. Press the <b>[PGM]</b> button and dial 163.
01–02 CID SETTING PRESS FLEX_KEY (01–12)	Use the dial-pad to enter a CO line range. For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.7-1.
	Use the dial-pad to enter desired data for the Attribute.
	Press the [Save] button to store the data entry.

#### Table 3.3.5.7-1 CO Additional Attributes (PGM 148)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01–02 CID MODE SELECT (0–4) : FSK	CID signal type can be assigned according to the CID type PSTN provides.	0: Disabled 1: FSK 2 : DTAS FSK 3: DTMF 4: Russia CID	FSK
2	01-02 RCID DETECT (1: ALL/0: LOCAL) : ALL	Russia CID Detect Mode.	0: LOCAL 1: ALL	ALL
3	01-02 RCID REQUEST (1: AUTO/0: USER) : AUTO	Russia CID Request Mode.	0: USER 1: AUTO	AUTO
4	01-02 RCID REQ TMR(10ms) (010–150) : 020	Russia CID First Delay Timer.	010–150 (10msec)	020
5	01-02 RCID NOANS TMR(s) (001–300) : 020	Russia CID NO-Answer Timer.	001–300 (sec)	020
6	01-02 RCID DGT NUMBER (04–10) : 07	Russia CID Digit Number.	04–10	07
7	01-02 RCID REQ COUNT (1–3) : 1	Russia CID Request Count.	1–3	1
8	01-02 RCID REQ DELAY (10–30) : 10 (10ms)	Russia CID Retry Delay Timer.	10–30 (10msec)	10
9	01-02 CC BLOCKING (0-2): DISABLED	It's for only Brazil R2, it blocks for collect call if double answer or with indication is selected.	0: Disabled 1: Double Answer 2: With Indicator	Disabled

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	01-02 CC ANS TMR (001-250): 010 (100ms)	If it is set to Double Answer for collect call blocking, this timer is sending dummy	1-250 (100ms)	10
		answer signal.		
11	01-02 CC IDLE TMR (001-250): 020 (100ms)	If it is set to Double Answer for collect call blocking, this timer is sending dummy idle	1-250 (100ms)	20
		signal.		
12	01-02 LINE MONITORING (1: ON / 0: OFF): ON	This determines that detect line fault or not.	0: OFF 1: ON	ON

Table 3.3.5.7-1 CO Additional Attributes (PGM 148)

### 3.3.5.8 NA ISDN Line Attributes – PGM 150

To comply with the North American ISDN standards, certain attributes must be defined for the system. These include Directory (telephone) Number and Service Profile (SPID) for the device. Note that this programming is required only for "Country Code" 1, USA installations.

PROCEDURE:	
COL NA ISDN ATT ENTER CO RANGE	1. Press the <b>[PGM]</b> button and dial 150.
01-02 COL NA ISDN ATT PRESS FLEX KEY (1-8)	Use the dial-pad to enter a CO Line range. For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.8-1.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.8-1.
	Press the [Save] button to store the data entry.

#### Table 3.3.5.8-1 NA ISDN ATTRIBUTES (PGM 150)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 TYPE OF PX(1-4) NI1 (1)	The type of PSTN determines several specifics of the protocol and is required for proper operation.	1: NI 1 2: NI 2 3: 5 ESS 4: NORTEL	NI 1

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	01-02 SPID NUMBER	The Service Profile Identifier (SPID) is a number assigned to a fully initializing ISDN terminal and enables the Stored Program Control switching System (SPCS) to identify the ISDN terminal at layer 3 of the D-channel signaling protocol. The SPID is a free-formatted numeric string composed of 9 to 23 numeric {0- 9} and International Alphabet (IA5) characters. The SPID uniquely identifies a particular set of subscription parameters assigned to a TSP.	9~23 digits	
3	01-02 DN NUMBER	Initializing terminals are required to store a 7-digit DN in order to perform the compatibility checking procedures that are part of call termination.	23 digits	-
4	01-02 EKTS MODE (1:EKTS/0:NONE) : NONE	The EKTS (Electronic Key Telephone Service) terminal permits a user to operate those features that are specific to EKTS, as well as voice features that may function distinctly in the EKTS environment. EKTS allows a DN to be shared by more than one terminal, on the same or on different interfaces.	0: None 1: EKTS	NONE
5	01-02 TYPE FOR 1/2/3 UNKNOWN (0)	ISDN CALLED NO is made with the International format, National format, Network format, Subscriber format, or Abbreviated format when user dials 1~3 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown
6	01-02 TYPE FOR 4/5/6 UNKNOWN (0)	ISDN CALLED NO is made with the International format, National format, Network format, Subscriber format, or Abbreviated format when user dials 4~6 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown
7	01-02 TYPE FOR 7/8/9 UNKNOWN (0)	ISDN CALLED NO is constructed with the International format, National format, Network format, Subscriber format, or Abbreviated format when user the dials 7~9 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown
8	01-02 TYPE FOR 10/11 UNKNOWN (0)	ISDN CALLED NO is constructed with the International format, National format, Network format, Subscriber format, or Abbreviated format when user the dials more than 10 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown

# Table 3.3.5.8-1 NA ISDN ATTRIBUTES (PGM 150)

## 3.3.5.9 ISDN CO Line Attributes - PGM 151

ISDN standards require that the ISDN terminating device, in this case the iPECS eMG80, include various "adjustable" timers and counters as described below.

PROCEDURE:	
COL ISDN ATT ENTER CO RANGE	1. Press the <b>[PGM]</b> button and dial 151.
01-02 COL ISDN ATT PRESS FLEX KEY (01-16)	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.9-1.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.9-1.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 T200 (1- 5) (1-5) : 1 (sec)	The terminal must support one T200 timer for each data link supported.	1~5 (seconds)	1
2	01-02 T201 (1- 5) (1-5) : 1 (sec)	The minimum time between TEI ID check messages.	1~5 (seconds)	1
3	01-02 T202(1-5) (1-5) : 2 (sec)	When the terminal transmits a TEI Identify Request message, it must provide one T202 timer for each logical link supported.	1~5 (seconds)	2
4	01-02 T203 (05 – 15) (05-15) : 10 (sec)	If the terminal initiates the link monitoring function, it must provide one T203 timer for each logical link supported. T203 defines the maximum time between message exchanges.	5~15 (seconds)	10
5	01-02 T204 (05 – 15) (05-15) : 10 (sec)	The T204 timer defines the minimum time between transmissions of XID messages.	5~15 (seconds)	10
6	01-02 T302 (10 – 30) (10-30) : 15 (sec)	In the Overlap dial mode, when the system receives incomplete dialing information from the ISDN, the system will wait the T302 timer duration for the additional digits. At time-out of this timer, the call will be disconnected.	10~30 (seconds)	15
7	01-02 T303 (01 – 10) (01-10) : 04 (sec)	T303 establishes the time Interval for a response after sending a call setup message.	1~10 (seconds)	4

#### Table 3.3.5.9-1 ISDN CO LINE ATTRIBUTES (PGM 151)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	01-02 T305 (10 – 60) (10-60) : 30 (sec)	T305 establishes the Interval for a Released signal after receiving a Disconnect message.	10~60 (seconds)	30
9	01-02 T308 (01 – 10) (01-10) : 04 (sec)	T308 establishes the Interval for a Released ACK signal after sending a release message.	1~10 (seconds)	4
10	01-02 T309 (001 – 100) (001-100) : 090 (sec)	Optional state timer.	1~100 (seconds)	90
11	01-02 T310 (10 – 60) (10-60) : 40 (sec)	Timer used in accepting Received signal.	10~60 (seconds)	40
12	01-02 N200 (1 – 5) (1-5) : 3	The terminal shall provide one N200 counter for each logical link supported. The default value of this counter shall be 3.	1~5	3
13	01-02 N201 (250 – 300 ) (250~300) : 260 (byte)	The N201 counter sets the maximum number of Octets in the ISDN information field.	250~300 (bytes)	260
14	01-02 N202 (1 – 5) (1-5) :3	If the terminal transmits a TEI Identify Request message (to request assignment of a TEI), the terminal shall provide one N202 counter for each logical link that it supports.	1~5	3
15	01-02 N204 ( 1 – 5) (1-5) : 1	The N204 counter establishes the maximum number of XID re- transmissions from the terminal.	1~5	1
16	01-02 K_VALUE (1-5) : 1	The terminal shall provide one K counter for each logical link supported.	1~5	1

# Table 3.3.5.9-1 ISDN CO LINE ATTRIBUTES (PGM 151)

## 3.3.5.10 T1 Line Timers – PGM 152

North American T1 standards require that the T1 terminating device, in this case the iPECS eMG80, include various "adjustable" timers and counters as described below.

PROCEDURE:	
COL T1 ATT ENTER CO RANGE	1. Press the <b>[PGM]</b> button and dial 152.
01-02 COL T1 ATT PRESS FLEX KEY (01-13)	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.10-1.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.10-1.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT	
1	01-02 PAUSE (1-9) : 2 (sec)	A timed pause may be included in a Speed Dial number, in which case, the pause time is defined by this entry. Not currently implemented.	1~9 (seconds)	2	
2	01-02 RLS GRD (01-60) : 20 (100ms)	The release guard timer defines the length of time the system will maintain a Line as busy after the call has been terminated to assure the PSTN has sufficient time to 'clear down' the circuit. Not currently implemented.	01~60 (100 ms)	20	
3	01-02 DT DELAY (02-50) : 10 (100ms)	The DT (Dial tone) Delay timer defines the duration that dial tone must be received for DT recognition. Not currently implemented.	02~50 (100 ms)	10	
4	01-02 INTER DGT (15-30) : 15 (20ms)	The Inter Digit timer defines the duration between digit transmissions. Not currently implemented.	15~30 (20 ms)	15	
5	01-02 WINK (07-15) : 10 (20ms)	For TIE or DID Lines the Wink timer defines the length of time the 'wink' (T1 TIE line circuit reversal) will last.	7~15 (20 ms)	10	

#### Table 3.3.5.10-1 T1 LINE TIMERS (PGM 152)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	01-02 OP RATE ( 0- 3) 60-40 (10pps) (0)	For Pulse signaling, defines the duration and make/break ratio of each pulse.	0: 60-40 (10pps) 1: 66-33 (10pps) 2: 60-40 (20pps) 3: 66-33 (20pps)	60-40 (10pps)
7	01-02 SEZ DTC (000-127) : 003 (20ms)	This timer defines the length of a valid 'line seizure' signal.	0~127 (20 ms)	3
8	01-02 RELEASE (000-127) : 007 (20ms)	For Ground Start Lines, defines the minimum length of time ground will not be applied to the TIP side from the PSTN.	0~127 (20 ms)	7
9	01-02 IASG TY (1:DTMF/0:PULSE) : DTMF	Incoming Address Signaling Type defines the type of signaling (DTMF or Pulse) expected.	0~1	DTMF
10	01-02 RING DTC (2-9) : 2 (100ms)	The Ring DTC (detect) timer defines the minimum acceptable length of the Ring-on time during a ring cycle.	2~9 (100 ms)	2
11	01-02 RING STOP (10-60) : 60 (100ms)	The Ring Stop timer defines the maximum Ring-off time during a ring cycle.	10~60 (100 ms)	60
12	01-02 COLLECT DGT (1-6) : 3	Collect DGT (digits) defines the number of digits expected on a DID line.	1~6	3
13	01-02 STORE TIME (01~15) : 15 (1sec)	For DID lines, this timer defines the maximum delay between incoming DID digits.	1~15 (second)	15

Table 3.3.5.10-1 T1 LINE TIMERS (PGM 152)

## 3.3.5.11 DCOB CO Attribute - PGM 153

The DCOB Attributes defines various characteristics of the E1/PRI module when employing R2 signaling.

PROCEDURE:	
DCOB COLINE ATT ENTER CO RANGE	1. Press the <b>[PGM]</b> button and dial 153.
01-02 DCOB CO ATT PRESS FLEX KEY (1-6)	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.11-1.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.11-1.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 LINE STATUS (1-9) : 6	Send Line status information to PX when a call routed to subscriber before the called party is ringing.	1~9	6
2	01-02 DNIS SERVICE (1:ON/0:OFF) : OFF	In R2, determine whether system will send caller information to PX or not.	0: OFF 1: ON	OFF
3	01-02 NO OF CLI DGTS (01-15) : 10	In R2, board request CLI Digit to PX.	01~15	10
4	01-02 DCOB TYPE(0-2) DID (2)	According to this type, the line can be restricted to seize CO line for outgoing call.	0~2 (0: DID/DOD 1:DOD 2:DID)	2
5	01-02 CALL CATEGORY (1-9) : 1	In R2 signaling, the category signal used by the iPECS is defined here.	1~9	1
6	01-02 DID DGT NUM (00-32) : 00	Maximum number of DID digits if line is E1/R2 (if it is N/A then it will follow PGM 145 3 <sup>rd</sup> .)	00~32	0

#### Table 3.3.5.11-1 DCOB CO ATTRIBUTE (PGM 153)

# 3.3.6 SYSTEM DATA -PGM 160 to 182

#### 3.3.6.1 System Attributes I & II – PGM 160 to 161

There are two (2) System Attributes programs to define settings that affect system-wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable).

Refer to Table 3.3.6.1-1 and Table 3.3.6.1-2 for a description of the Attributes, LCD displays and the data entries required.

PROCEDURE:	
SYSTEM ATTRIBUTES 1 PRESS FLEX KEY (01-24)	<ol> <li>Press the <b>[PGM]</b> button and dial:</li> <li>160 for System Attributes I</li> <li>161 for System Attributes II.</li> </ol>
	Press the Flex button for the desired Attribute, refer to Table 3.3.6.1-1 & Table 3.3.6.1-2.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.6.1-1 to Table 3.3.6.1-2.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ATD CALL QUE RB TONE (1:RBT/0:MOH): MOH	When calling a busy attendant, the system will provide either ring-back tone or MOH. If MOH is selected, the source must be defined in PGM 171.	0: MOH 1: RB tone	МОН
2	CAMP-ON RBT/MOH (1:RBT/0:MOH) : MOH	When Camp-On is used, the calling station will receive either ring-back tone or MOH. If MOH is selected, the source must be defined in PGM 171.	0: MOH 1: RB tone	МОН
3	CO DIAL TONE DETECT (1 : ON/ 0 : OFF) : OFF	The system can use dial-tone detection or a timed pause for Speed Dial numbers that contain a Pause.	0: OFF 1: ON	OFF
4	CO LINE CHOICE (0:RR/1:LAST/2:FIRST): 1	CO Lines are selected by the system from groups using either the LAST used, ROUND robin method or FIRST line in the group.	0: ROUND 1: LAST 2: FIRST	LAST
5	DISA RETRY COUNT (1 –9): 3	A DISA user is allowed to retry erroneous authentication code entries. This entry sets the number of retries before the system disconnects.	1~9	3

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	EXTERNAL NIGHT RING (1 : ON/ 0 : OFF) : OFF	CO/IP calls, which are assigned UNA, can activate the Loud Bell Contact. An incoming call, received while in Night, will activate the contact.	0: OFF 1: ON	OFF
7	HOLD PREFERENCE (1: SYS/ 0: EXC) : SYS	A single depression of the <b>[HOLD]</b> button places the call on the preferred hold, System or Exclusive.	0: Excl 1: System	System
8	PRINT LCR CONV DIGIT (1 : LCR/ 0 : USER) : LCR	SMDR will output the number dialed by either the system's LCR or the user.	0: User 1: LCR	LCR
9	ATD CALL QUE AVAILABLE (1:ON/0:OFF) : OFF	The system can be configured to queue incoming calls to a busy Attendant.	0: OFF 1: ON	OFF
10	USE PGM_0 IN ALL ATTD (1 : ON/ 0 : OFF) : OFF	This field allows Main attendants access to all Attendant functions including System Attendant features and programming. (Except PGM 06 – Record system announcement)	0: OFF 1: ON	OFF
11	OFFNET PROMPT USAGE (1 : ON/ 0 : OFF) : OFF	When a call is routed to a destination external to the iPECS, the Off Net routing prompt can be played. Not available in US version.	0: OFF 1: ON	OFF
12	CO-TO-CO UC TMR EXTEND (1:ON/0:OFF) : OFF	When an Unsupervised Conference is established with DISA, Off-Net Fwd, etc., the Unsupervised Conference timer (PGM 182-button 5 determines the allowed duration of the call. If enabled here, the user may dial '#' to extend the allowed duration.	0: OFF 1: ON	OFF
13	ACD MANAGER PRINT (1:ON/0:OFF) : OFF	When the optional ACD Message events are desired, the system must be enabled to send ACD event messages.	0: OFF 1: ON	OFF
14	CALL LOG LIST NUM (15-50) : 15	The Call Log that saves the Outgoing call, Received call, or Lost call information can be displayed by pressing Call Log Display Button. The maximum size of the Call Log per station is defined here.	15~50	15
15	REPEAT DTMF TONE (1:ON/0:OFF) : ON	When enabled, the system will provide DTMF repeat tone to the caller's station.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	AUTH RETRY COUNT (1-9) : 3	If a CO's have "CO/IP group Authorization" set to ON in PGM141, 8 <sup>th</sup> or the Stations have "Station Account" set to ON in PGM112, 19 <sup>th</sup> then a valid authorization code must be entered to make an external CO call. When user fails to enter a valid Authorization code in the number of attempts assigned in this field, the station is disconnected or the Station COS is changed to COS 7. If the COS 7 WHEN AUTH FAIL, PGM 161, 17 <sup>th</sup> is on then the station COS is changed to COS 7 otherwise the station is disconnected. When the station COS is changed COS 7, the user must employ COS Restore in Station User PGM 2 to return the station to the normal COS.	1~9	3
17	CONFROOM CO TEL NUMBER CO TEL:	ISDN DID number an external party must dial to enter a Conference room. Phontage or UCS Client must pre-establish the Conf Room.	8 digits	
18	MPB DIFFSERV TAG(00-63): 04	MPB Diff-Serv pre-tag value.	00-63	04
19	UPGRADE MODE (1:FTP/0:TFTP): FTP	Upgrade transfer mode from MPB to IP devices.	1: FTP 0: TFTP	FTP
20	TRANSFER TONE (1:RBT/0:MOH): RBT	When a CO call is transferred to a busy extension, Ring Back Tone or Music On Hold will be played to the CO Line.	0: MOH 1: RBT	RBT
21	CONF WARN TONE (1:ON/0:OFF) : ON	As new members join a conference room, the system provides warning tone to conference members.	0: OFF 1: ON	ON
22	TLS for WEB (1:ON/0:OFF) : OFF	Enables Transport Layer Security TLS for Web access.	0: OFF 1: ON	OFF
23	DUMMY DIAL TONE (1:ON/0:OFF) : OFF	When a CO/IP line does not provide dial tone, the system can provide dummy dial tone to the user.	0: OFF 1: ON	OFF
24	SYSTEM 2 ADDED ATTR PRESS FLEX KEY (01-17)	Select button 24 to access added attributes 1~17.	FLEX 1 ~ FLEX 17	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-1	SIP STA MODE (1:PTP/0:RTD): RTD	SIP phones may set-up a point-to- point RTP connection (PTP) or to assure a controlled connection, RTP can be routed via a VoIP channel (RTD).	0: RTD 1: PTP	ROUTED
24-2	SYS AUTH END CODE(#) (1:ON/0:OFF) : OFF	If this value is set to ON, the end dialing digit (#) must be entered when system Auth code is entered.	0: OFF 1: ON	OFF
24-3	STN VM FEATURE USAGE (1:ON/0:OFF) : ON	If this value is set to ON, Station VM feature (PGM 127) can be used.	0: OFF 1: ON	ON
24-4	REMOTE VM ACCESS (1:ON/0:OFF) : ON	If this value is OFF, the user cannot access their VSF mailbox via DID, DISA CO call and so on (i.e. through CO line channel).	0: OFF 1: ON	ON
24-5	TRANSFER TONE USAGE (1:ON/0:OFF) : OFF	If this value is ON, Warning tone is served to the [transfer to] station. This is only applied to screened transfer case.	0: OFF 1: ON	OFF
24-6	LCR DIAL TONE DETECT (1:ON/0:OFF) : OFF	If this value is set to ON, system first checks if the CO provides dial tone in case if analog CO is seized for LCR dialing. If there's no dial tone, the call is rerouted to Alternate DMT Index. If LCR type is set to M13, LCR dial tone detect option is not applied.	0: OFF 1: ON	OFF
24-7	ICM CALL LOG (1:ON/0:OFF) : OFF	If this value is set to ON, system save and provide ICM call log for IP and LDP phone.	0: OFF 1: ON	OFF
24-8	ATD PWORD USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, system requests password below cases. When a user enters attendant program([PGM] + 0) in attendant keyset, When a user enters speed program in attendant keyset, When a user assigns attendant program code([PGM] + 0) to flexible button in attendant keyset,	0: OFF 1: ON	OFF
24-9	PICKUP STA NAME USAGE (1:ON/0:OFF) : OFF	Name of picked up station is display when pickup internal call.	0: OFF 1: ON	OFF
24-10	DISPLAY LCR MODE (1:ON/0:OFF) : ON	Display "LCR MODE" when LCR is activated.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-11	EASY 5 WAKE UP USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, and PGM 161 – 5-Wake Up Usage is also set to ON, each station user can enter his wake up time, without entering wake up type, wake up index.	0: OFF 1: ON	OFF
24-12	WEB LOGIN ID USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, Login ID should be entered to login the web admin.	0: OFF 1: ON	OFF
24-13	VM MEX NOTIFY OVER LCO (1:EN/0:DIS) : DISABLE	If this value is set to ON, LCO can be used for the VM notification call to MEX.	0: DISABLE 1: ENABLE	DISABLE
24-14	MODEM ASC CO LINE (00-74) : 00	Call is delivered to built-in modem if calls come in from assigned CO line.	00-74	0
24-15	MEET ME SOFT DISPLAY (1:ON/0:OFF) : ON	If this value is set to OFF, {MEET ME} soft button is not displayed in being paged.	0: OFF 1: ON	ON
24-16	DEV INFO REQ INTERVAL (015-255) : 015	System checks each device by polling message periodically using this timer.	015-255	015
24-17	NUM OF CLI WAIT LIST (000-255) : 000	The number of CLI wait list can be the available number.	000-255	000

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF-HOOK RING TYPE (1:MUTE/0:BURST) : MUTE	Off-hook ring can be a single tone burst or muted normal ring.	0:BURST 1:MUTE	MUTE
2	PAGE WARN TONE (1 : ON/ 0: OFF) : ON	A warning tone can be sent prior to a page announcement.	0: OFF 1: ON	ON
3	AUTOMATIC PRIVACY (1 : ON/ 0: OFF) : ON	Automatic Privacy can be disabled, allowing stations to join an active CO/IP call. A warning tone can be provided, see button 4 below.	0: OFF 1: ON	ON
4	PRIVACY WARN TONE (1 : ON/ 0: OFF) : ON	If desired, warning tone can be provided when privacy is overridden.	0: OFF 1: ON	ON
5	ACD PRINT ENABLE (1 : ON/ 0: OFF) : OFF	ACD statistics can be periodically sent to the assigned serial port. To provide periodic reports, this entry must be ON.	0: OFF 1: ON	OFF
6	ACD PRINT TIMER(1sec) (001 –255) : 001	This entry defines the time, in 10- second increments, between the periodic ACD reports.	001~255 (10 sec)	010

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	CLEAR ACD DATABASE (1 : ON/ 0: OFF) : OFF	When a periodic report is sent, the ACD database can be cleared automatically, if "ON".	0: OFF 1: ON	OFF
8	OVERRIDE 1 <sup>ST</sup> CO GRP (1: ON/0: OFF) : ON	When a user dials '9', the system can search all CO/IP Groups for the first available CO/IP line.	0: OFF 1: ON	ON
9	BASE CODEC TYPE (0-3): G.711(0)	The default codec can be defined as G.711 or G.723.1 for decreased bandwidth needs. The selected codec will be used on all internal communications as well as for remote iPECS devices.	0: G.711 1: G.723.1 2:G.729 3:G.722	G.711
10	G711 PACKETIZATION(1ms) (10/20/30) : 20	The G.711 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.711 codec is used.	10/20/30	20
11	G723 PACKETIZATION(1ms) (30/60) : 030	The G.723.1 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.723.1 codec is used.	30/60	030
12	NETWORK TIME/DATE (0-2) : DISABLE	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. To disable time sync, use OFF. ISDN sync is not available in USA version.	0~2	DISABLE
13	INCOMING TOLL CHK (1:ON/0:OFF) : ON	The system can invoke COS dialing restrictions when a user dials while connected to incoming call.	0: OFF 1: ON	ON
14	WEB SERVER PORT (00001-65535) : 00080	This field determines the TCP port employed to access the system WEB server.	00001~ 65535	00080
15	WEB PWD ENCRYPT (1:ON/0:OFF) : OFF	The Web Admin password can be encrypted for security using RC-6 block encryption A Java VM must be installed on the user's PC.	0: OFF 1: ON	OFF
16	OLD AUTH CODE USAGE (1:ON/0:OFF) : ON	System Authorization codes are entered by the user as "*" and the code (ON) or "*"+ the Auth code index and the code (OFF).	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
17	COS 7 WHEN AUTH FAIL (1:ON/0:OFF) : OFF	If user fails to enter a valid Authorization code in the number of attempts assigned in FAC RETRY COUNT, PGM 160-button 16, the station is disconnected or the Station COS is changed to COS 7. In the latter case, the user must employ COS Restore in Station User PGM 2 to return the station to the normal COS.	0: OFF 1: ON	OFF
18	UNIFIED MESSAGE FORMAT (1:ON/0:OFF) : OFF	System Integration Messages are sent out the defined serial or TCP channel.	0: OFF 1: ON	OFF
19 20	RECORD WARNING TONE (1:ON/0:OFF) : ON	When call recording is active, a tone can be sent to all connected parties to indicate the conversation is being recorded.	0: OFF 1: ON	ON
20	UNUSED	Unused.	0: OFF 1: ON	OFF
21	UNUSED	Unused.	0: OFF 1: ON	OFF
22	SMS CENTER NUMBER	When the PSTN will be used to send SMS, the phone number of the Short Message Service Center must be entered.	23 digits	
23	SMS PROTOCOL (0-8) : NONE (0)	The Short Message Service Protocol must be selected to support SMS: 0: No PSTN SMS support, 1: ETSI-P1 2: ETSI-P2 3: KT-LivingNet 4: SIP-Text 5: SIP-Text 5: SIP-XML 6: KT-IP-PBX 7: SKN-IP-PBX 8: KT XML	0~8	NONE
24	SYSTEM 2 ADDED ATTR PRESS FLEX KEY (1-24)	Select button 24 to access added attributes 1~24.	FLEX 1 ~ FLEX 24	
24-1	G722 PACKETIZATION(1ms) (10/20/ 30) : 20	The G.722 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.722 codec is used.	10/20/30msec	20
24-2	UNUSED	This filed is used only for KOREA.		

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-3	SMS CENTER CLI	When the CO/IP will be used to receive SMS, the Caller Id expected from the Short MSG Service Center must be defined.	23 digits	
24-4	TRANSIT-OUT SECURITY (1:ON/0:OFF) : ON	Check IP address for transit-out in the master system, if it is not valid IP address then it will be denied.	0: OFF 1: ON	ON
24-5	EMR CALL ATD NOTIFY (1:ON/0:OFF) : ON	Provide notification to attendant when user dials emergency number.	0: OFF 1: ON	ON
24-6	UNUSED	Unused.	0: LOCAL 1: MCIB_V	MCIB_V
24-7	FIRST DIGIT * IN SPD DISPLAY SECURITY (0)	If it is '0' then the first '*' in speed will be used for display security otherwise DTMF '*' will be send.	0: DISPLAY SECURITY 1: DIGIT *	DISPLAY SECURITY
24-8	STRONG PASSWORD (1:ON/0:OFF) :OFF	ON: Password in PGM162 must be longer than 6 and made by Numbers, Characters.	0: OFF 1: ON	ON
24-9	VSF SMTP PORT (00001~65535) : 00025	SMTP port of VMIU/VMIB	00001~65535	00025
24-10	ICM BUSY SVC (1:INTR/0:OHVO): OHVO	If ICM busy, choice OHVO or Intrusion.	0: OHVO 1: INTR	OHVO
24-11	AUTO SAVE NEW MEG (1:ON/0:OFF) : OFF	If it's ON, Move current (new) message to saved message category. If it is OFF, leave it in new message category.	0: OFF 1: ON	OFF
24-12	IGMP QUERY USAGE (1:ON/0:OFF) : OFF	Regarding PGM161 (Flex 24-12 to 15) are used when there are some problems in multicast packet forwarding like as registering devices or multicast MOH. With some multicast snoop enabled switch devices, they do not forward multicast packets if there is no IGMP query device in the network. This entity enables the IGMP query option and MPB sends IGMP query message with periodic to avoid	0: OFF 1: ON	OFF
24-13	IGMP INTV_TMR(1sec) (0000~3600) : 0180	multicast related problem. This timer defines the interval time of each IGMP query messages. With some special switches, this timer value should be modified.	(0~3600) sec	180

# Table 3.3.6.1-2 SYSTEM ATTRIBUTES II (PGM 161)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-14	IGMP QUERY ALL HOSTS (1:ON/0:OFF) : ON	This entity defines which destination address is used when IGMP query is sent to. If ON is selected, query message is sent to ALL HOST group by using address 224.0.0.1. And OFF is selected, query is sent to iPECS specific address by using address 239.20.19.50. This should be ON when there is a MOH problem.	0: OFF 1: ON	ON
24-15	IGMP QUERY GENERIC (1:ON/0:OFF) : OFF	This entity specifies a group address being queried. If ON is selected, all multicast group are queried. If OFF is selected, iPECS registering device group (239.20.19.50) is only queried. This should be ON when there is a MOH problem.	0: OFF 1: ON	OFF
24-16	RING-GROUP INDICSTION (1:ON/0:OFF) : OFF	If it's ON, you can see flashing button of station which calling to Ring group and hear mute ring by set ON.	0: OFF 1: ON	OFF
24-17	RESTRICT * AND # (1:ON/0:OFF) : OFF	If it's ON, if the first digit is * or # then the call will be prohibited.	0: OFF 1: ON	OFF
24-18	RESTRICT ANS DGT DISP (1:ON/0:OFF) : ON	If it's OFF, SMDR print digits after answer.	0: OFF 1: ON	ON
24-19	IP BIND USAGE (1:ON/0:OFF) : OFF	If It's ON, VOIU/VOIB will apply IP- Binding with information in PGM130 (Flex 18 – Flex 24-3) / PGM133 (Media port)	0: OFF 1: ON	OFF
24-20	ACD MAILSEND WEEKLY SET N/A (0-7)	Sets day of week to send ACD statistic data weekly. (0 for no weekly data, 1-7 for Monday through Sunday)	0-7	0
24-21	ACD MAILSEND DAILY SET (00-23)	Sets time-of-day for ACD statistic data to be sent on a daily basis. (00 for no daily records, 01-23 for hour of the day)	00-23	
24-22	ACD DEL AFTER MAILSEND (1 : ON/ 0: OFF) : OFF	Delete ACD statistic data after sending e-mail.	0: OFF 1: ON	OFF
24-23	NEW 5 WAKE UP USAGE (1:ON/0:OFF) : OFF	New Wake-Up function usage option.	0: OFF 1: ON	OFF
24-24	ACD-GROUP INDICATION (0:OFF/1:ON_RING/2:ON_LED): 0	If there are queued group calls, the queuing indication can be served to group member by Mute Ring and LED Button Flashing.	0: OFF 1: ON RING 2: ON LED	0

# Table 3.3.6.1-2 SYSTEM ATTRIBUTES II (PGM 161)

### 3.3.6.2 System Password – PGM 162

Access to the system database and maintenance functions can be protected by passwords up to twelve (12) digits. Three passwords can be defined, User, Admin and Maintenance. The Maintenance password has full and unlimited access to the database and maintenance functions of the system. The User and Admin password have access to database items defined in Web Admin. Note there are no default passwords.

PROCEDURE:	
SYSTEM PASSWORD PRESS FLEX KEY (1-2)	1. Press the <b>[PGM]</b> button and dial 162.
ADMIN PASSWORD	Press the Flex button for the desired password: For the Keyset Admin password press Flex button 1. For the Maintenance password press Flex button 2.
	Enter the desired password, up to 12 digits. To erase a password press the <b>[SPEED]</b> button.
	Press the [Save] button to store the password entry.

#### Table 3.3.6.2-1 System Passwords

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ADMIN PASSWORD	Admin password, configurable database access in Keyset Admin.	12 digits	none
2	MAINT PASSWORD	Maintenance password, full and unlimited access to database and maintenance functions.	12 digits	none

## 3.3.6.3 Alarm Attributes – PGM 163

The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the external contact. The Alarm Signal sent to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates. Refer to Table 3.3.6.3-1 for a description of the features, the data entries required and LCD displays for each attribute.

PROCEDURE:	
SYSTEM ALARM ATT PRESS FLEX KEY (1-7)	1. Press the <b>[PGM]</b> button and dial 163.
	Press the desired Flex button; refer to Table 3.3.6.3-1.
	Use the dial-pad to enter desired data for the attribute, refer to Table 3.3.6.3-1.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ALARM ENABLE (1:ON/0:OFF) : OFF	This parameter enables the external contact monitoring circuitry.	0: OFF 1: ON	OFF
2	ALARM CONTACT TYPE (1:CLOSE/0:OPEN) : CLOSE	This parameter establishes the contact state that will activate the Alarm, close or open.	0: Open 1: Close	CLOSE
3	ALARM/DOORBELL MODE (1:ALARM/0:BELL): ALARM	The contact can be treated to function as a doorbell instead of an alarm.	0: Bell 1: Alarm	ALARM
4	ALARM SIGNAL MODE (1:RPT/0:ONCE) : RPT	The assigned stations will receive a Repeating signal or single burst (ONCE) of alarm tone.	0: Once 1: Repeat	RPT
5	EMER CALL NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the emergency call notification.	0: OFF 1: ON	ON
6	DCOB FAULT NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the DCOB Fault notification.	0: OFF 1: ON	ON
7	SIP REG FAULT NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the SIP Registration Fault notification.	0: OFF 1: ON	ON

#### Table 3.3.6.3-1 ALARM ATTRIBUTES (PGM 163)

## 3.3.6.4 Attendant Assignment – PGM 164

A maximum of five (5) Attendants can be assigned with the iPECS-eMG80. One is the System Attendant and remaining are the Main Attendants. The System Attendant has higher priority in call handling and system management functions with access to PGM 0. As a default, the System Attendant is assigned Station 100. Main Attendants are not assigned by default.

PROCEDURE:	
ATTENDANT ASSIGNMENT 100	1. Press the <b>[PGM]</b> button and dial 164.
ATTENDANT ASSIGNMENT	Select the desired button:
100	Button 1: System Attendant
	Button 2: Main Attendants
	Use the dial-pad to enter desired station numbers for the System and Main Attendants. Use the <b>[SPEED]</b> button to erase an entry and the <b>[VOL UP]/[VOL DOWN]</b> button to scroll through the Main Attendants.
	Press the <b>[Save]</b> button to store the Attendant assignment entry.

## 3.3.6.5 Multi-cast RTP/RTCP Ports – PGM 165

Multi-cast is employed by the system to send BGM, MOH, paging and Push-To-Talk packets. Employing a single multi-cast packet reduces the overall LAN traffic. In some cases, specifically when multiple systems are connected to the same default router it may be advantageous to define different ports for each system.

PROCEDURE:	
MULTICAST RTP/RTCP PRESS FLEX KEY (1-2)	1. Press the <b>[PGM]</b> button and dial 165.
MULTICAST RTP PRESS FLEX_KEY (01-24)	Press Flex button 1 for RTP ports or Flex button 2 for RTCP ports.
	Press the desired Flex button; refer to Table 3.3.6.5-1. The 24 Flex buttons are used to assign ports for the first 24 RTP/RTCP functions. To assign port numbers for additional RTP/RTCP functions, use the <b>[VOL UP]/[VOL DOWN]</b> buttons.
	Use the dial-pad to enter desired data for the port, refer to Table 3.3.6.5-1.

Table 3.3.6.5-1 MULTI-CAST RTP/RTCF	P PORTS — (PGM 165)
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BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	M-CAST RTP BGM INT 8100 (8101)	RTP and RTCP ports for internal BGM.	0000-9999	8100 (8101)
2	M-CAST RTP BGM EXT 1 8102 (8103)	RTP and RTCP ports for external BGM 1.	0000-9999	8102 (8103)
3	M-CAST RTP BGM EXT 2 8104 (8105)	RTP and RTCP ports for external BGM 2.	0000-9999	8104 (8105)
4	M-CAST RTP I-PAGE 1 8106 (8107)	RTP and RTCP ports for Internal Page 1.	0000-9999	8106 (8107)
5	M-CAST RTP I-PAGE 2 8108 (8109)	RTP and RTCP ports for Internal Page 2.	0000-9999	8108 (8109)
6	M-CAST RTP I-PAGE 3 8110 (8111)	RTP and RTCP ports for Internal Page 3.	0000-9999	8110 (8111)
7	M-CAST RTP I-PAGE 4 8112 (8113)	RTP and RTCP ports for Internal Page 4.	0000-9999	8112 (8113)
8	M-CAST RTP I-PAGE 5 8114 (8115)	RTP and RTCP ports for Internal Page 5.	0000-9999	8114 (8115)
9	M-CAST RTP I-PAGE 6 8116 (8117)	RTP and RTCP ports for Internal Page 6.	0000-9999	8116 (8117)
10	M-CAST RTP(RTCP) I-PAGE 7 8118 (8119)	RTP and RTCP ports for Internal Page 7.	0000-9999	8118 (8119)
11	M-CAST RTP I-PAGE 8 8120 (8121)	RTP and RTCP ports for Internal Page 8.	0000-9999	8120 (8121)
12	M-CAST RTP I-PAGE 9 8122 (8123)	RTP and RTCP ports for Internal Page 9.	0000-9999	8122 (8123)
13	M-CAST RTP I-PAGE 10 8124 (8125)	RTP and RTCP ports for Internal Page 10.	0000-9999	8124 (8125)
14	M-CAST RTP I-PAGE 11 8126 (8127)	RTP and RTCP ports for Internal Page 11.	0000-9999	8126 (8127)
15	M-CAST RTP I-PAGE 12 8128 (8129)	RTP and RTCP ports for Internal Page 12.	0000-9999	8128 (8129)
16	M-CAST RTP I-PAGE 13 8130 (8131)	RTP and RTCP ports for Internal Page 13.	0000-9999	8130 (8131)

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
			8132
M-CAST RTP I-PAGE 14 8132 (8133)	Page 14.	0000-9999	(8133)
M-CAST RTP I-PAGE 15 8134 (8135)	RTP and RTCP ports for Internal Page 15.	0000-9999	8134 (8135)
M-CAST RTP I-PAGE 16 8136 (8137)	RTP and RTCP ports for Internal Page 16.	0000-9999	8136 (8137)
M-CAST RTP I-PAGE 17 8138 (8139)	RTP and RTCP ports for Internal Page 17.	0000-9999	8138 (8139)
M-CAST RTP I-PAGE 18 8140 (8141)	RTP and RTCP ports for Internal Page 18.	0000-9999	8140 (8141)
M-CAST RTP I-PAGE 19 8142 (8143)	RTP and RTCP ports for Internal Page 19.	0000-9999	8142 (8143)
M-CAST RTP I-PAGE 20 8144 (8145)	RTP and RTCP ports for Internal Page 20.	0000-9999	8144 (8145)
M-CAST RTP I-PAGE 21 8146 (8147)	RTP and RTCP ports for Internal Page 21.	0000-9999	8146 (8147)
M-CAST RTP I-PAGE 22 8148 (8149)	RTP and RTCP ports for Internal Page 22.	0000-9999	8148 (8149)
M-CAST RTP I-PAGE 23 8150 (8151)	RTP and RTCP ports for Internal Page 23.	0000-9999	8150 (8151)
M-CAST RTP I-PAGE 24 8152 (8153)	RTP and RTCP ports for Internal Page 24.	0000-9999	8152 (8153)
M-CAST RTP I-PAGE 25 8154 (8155)	RTP and RTCP ports for Internal Page 25.	0000-9999	8154 (8155)
M-CAST RTP I-PAGE 26 8156 (8157)	RTP and RTCP ports for Internal Page 26.	0000-9999	8156 (8157)
M-CAST RTP I-PAGE 27 8158 (8159)	RTP and RTCP ports for Internal Page 27.	0000-9999	8158 (8159)
M-CAST RTP I-PAGE 28 8160 (8161)	RTP and RTCP ports for Internal Page 28.	0000-9999	8160 (8161)
M-CAST RTP I-PAGE 29 8162 (8163)	RTP and RTCP ports for Internal Page 29.	0000-9999	8162 (8163)
	M-CAST RTP I-PAGE 15         8134 (8135)         M-CAST RTP I-PAGE 16         8136 (8137)         M-CAST RTP I-PAGE 17         8138 (8139)         M-CAST RTP I-PAGE 18         8140 (8141)         M-CAST RTP I-PAGE 19         8142 (8143)         M-CAST RTP I-PAGE 19         8142 (8143)         M-CAST RTP I-PAGE 20         8144 (8145)         M-CAST RTP I-PAGE 21         8146 (8147)         M-CAST RTP I-PAGE 21         8146 (8147)         M-CAST RTP I-PAGE 23         8150 (8151)         M-CAST RTP I-PAGE 23         8150 (8151)         M-CAST RTP I-PAGE 24         8152 (8153)         M-CAST RTP I-PAGE 25         8154 (8155)         M-CAST RTP I-PAGE 25         8154 (8155)         M-CAST RTP I-PAGE 26         8156 (8157)         M-CAST RTP I-PAGE 27         8158 (8159)         M-CAST RTP I-PAGE 28         8160 (8161)         M-CAST RTP I-PAGE 28         8160 (8161)	B132 (8133)Page 14.M-CAST RTP I-PAGE 15 8134 (8135)RTP and RTCP ports for Internal Page 15.M-CAST RTP I-PAGE 16 8136 (8137)RTP and RTCP ports for Internal Page 16.M-CAST RTP I-PAGE 17 8138 (8139)RTP and RTCP ports for Internal Page 17.M-CAST RTP I-PAGE 18 8140 (8141)RTP and RTCP ports for Internal Page 18.M-CAST RTP I-PAGE 19 8142 (8143)RTP and RTCP ports for Internal Page 19.M-CAST RTP I-PAGE 19 8142 (8143)RTP and RTCP ports for Internal Page 20.M-CAST RTP I-PAGE 20 8144 (8145)RTP and RTCP ports for Internal Page 20.M-CAST RTP I-PAGE 21 8146 (8147)RTP and RTCP ports for Internal Page 21.M-CAST RTP I-PAGE 22 8148 (8149)RTP and RTCP ports for Internal Page 22.M-CAST RTP I-PAGE 23 8150 (8151)RTP and RTCP ports for Internal Page 23.M-CAST RTP I-PAGE 24 8150 (8151)RTP and RTCP ports for Internal Page 24.M-CAST RTP I-PAGE 25 8154 (8155)RTP and RTCP ports for Internal Page 25.M-CAST RTP I-PAGE 26 8154 (8157)RTP and RTCP ports for Internal Page 26.M-CAST RTP I-PAGE 27 8158 (8159)RTP and RTCP ports for Internal Page 27.M-CAST RTP I-PAGE 28 8156 (8157)RTP and RTCP ports for Internal Page 28.M-CAST RTP I-PAGE 27 8158 (8159)RTP and RTCP ports for Internal Page 28.M-CAST RTP I-PAGE 29 8159RTP and RTCP ports for Internal Page 28.M-CAST RTP I-PAGE 29 8159RTP and RTCP ports for Internal Page 28.	MCAST RTP I-PAGE 14 8132 (8133)Page 14.M-CAST RTP I-PAGE 15 8134 (8135)RTP and RTCP ports for Internal Page 15.0000-9999M-CAST RTP I-PAGE 16 8136 (8137)RTP and RTCP ports for Internal Page 16.0000-9999M-CAST RTP I-PAGE 17 8138 (8139)RTP and RTCP ports for Internal 

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP	P PORTS — (PGM 165)
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BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
33	M-CAST RTP I-PAGE 30 8164 (8165)	RTP and RTCP ports for Internal Page 30.	0000-9999	8164 (8165)
34	M-CAST RTP I-PAGE 31 8166 (8167)	RTP and RTCP ports for Internal Page 31.	0000-9999	8166 (8167)
35	M-CAST RTP I-PAGE 32 8168 (8169)	RTP and RTCP ports for Internal Page 32.	0000-9999	8168 (8169)
36	M-CAST RTP I-PAGE 33 8170 (8171)	RTP and RTCP ports for Internal Page 33.	0000-9999	8170 (8171)
37	M-CAST RTP I-PAGE 34 8172 (8173)	RTP and RTCP ports for Internal Page 34.	0000-9999	8172 (8173)
38	M-CAST RTP I-PAGE 35 8174 (8175)	RTP and RTCP ports for Internal Page 35.	0000-9999	8174 (8175)
39	M-CAST RTP I-PAGE ALL 8176 (8177)	RTP and RTCP ports for Internal All Call Page.	0000-9999	8176 (8177)
40	M-CAST RTP E-PAGE 1 8178 (8179)	RTP and RTCP ports for External Page 1.	0000-99999	8178 (8179)
41	MULTICAST RTP E-PAGE 2 8180 (8181)	RTP and RTCP ports for External Page 2.	0000-99999	8180 (8181)
42	M-CAST RTP E-PAGE ALL 8182 (8183)	RTP and RTCP ports for External All Call Page.	0000-9999	8182 (8183)
43	M-CAST RTP PAGE ALL 8184 (8185)	RTP and RTCP ports for All Call Page.	0000-9999	8184 (8185)
44	M-CAST RTP PTT 1 8186 (8187)	RTP and RTCP ports for PTT group 1.	0000-9999	8186 (8187)
45	M-CAST RTP PTT 2 8188 (8189)	RTP and RTCP ports for PTT group 2.	0000-9999	8188 (8189)
46	M-CAST RTP PTT 3 8190 (8191)	RTP and RTCP ports for PTT group 3.	0000-9999	8190 (8191)
47	M-CAST RTP PTT 4 8192 (8193)	RTP and RTCP ports for PTT group 4.	0000-9999	8192 (8193)
48	M-CAST RTP PTT 5 8194 (8195)	RTP and RTCP ports for PTT group 5.	0000-99999	8194 (8195)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
49	M-CAST RTP PTT 6 8196 (8197)	RTP and RTCP ports for PTT group 6.	0000-9999	8196 (8197)
50	M-CAST RTP PTT 7 8198 (8199)	RTP and RTCP ports for PTT group 7.	0000-9999	8198 (8199)
51	M-CAST RTP PTT 8 8200 (8201)	RTP and RTCP ports for PTT group 8.	0000-9999	8200 (8201)
52	M-CAST RTP PTT 9 8202 (8203)	RTP and RTCP ports for PTT group 9.	0000-9999	8202 (8203)
53	M-CAST RTP PTT ALL 8204 (8205)	RTP and RTCP ports for PTT group ALL.	0000-9999	8204 (8205)
54	M-CAST RTP BGM VSF 1 8206 (8207)	RTP and RTCP ports for VSF/VMIB BGM use.	0000-9999	8206 (8207)
55	M-CAST RTP SLT MOH 1 8208 (8209)	RTP and RTCP ports for SLT MOH 1 use.	0000-9999	8208 (8209)
56	M-CAST RTP SLT MOH 2 8210 (8211)	RTP and RTCP ports for SLT MOH 2 use.	0000-9999	8210 (8211)
57	M-CAST RTP SLT MOH 3 8212 (8213)	RTP and RTCP ports for SLT MOH 3 use.	0000-9999	8212 (8213)
58	M-CAST RTP SLT MOH 4 8214 (8215)	RTP and RTCP ports for SLT MOH 4 use.	0000-9999	8214 (8215)
59	M-CAST RTP SLT MOH 5 8216 (8217)	RTP and RTCP ports for SLT MOH 5 use.	0000-9999	8216 (8217)
60	M-CAST RTP VSF MOH 2 8218 (8219)	RTP and RTCP ports for VSF/VMIB MOH 2 use.	0000-9999	8218 (8219)
61	M-CAST RTP VSF MOH 3 8220 (8221)	RTP and RTCP ports for VSF/VMIB MOH 3 use.	0000-9999	8220 (8221)

## 3.3.6.6 DISA COS - PGM 166

A DISA user is subject to the dialing restrictions assigned in the DISA Class-of-Service (COS). The restrictions applied are the same as with the corresponding Station COS levels 1~11 and interact with the CO COS in the same manner. Assignments for DISA COS are made for the Day, Timed and Night mode of system operation. The default for all three DISA COS modes is 1, no restrictions.

PROCEDURE:	
DISA COS (1 – 11) DAY: 07 NIGHT: 07 TIMED:07	1. Press the <b>[PGM]</b> button and dial 166.
	Select the desired button;
	Button 1: Day mode COS
	Button 2: Night mode COS
	Button 3: Timed mode COS
	Use the dial-pad to enter desired DISA COS (1~11).
	Press the <b>[Save]</b> button to store the DISA COS data entry.

## 3.3.6.7 DID/DISA Destination – PGM 167

When a DID line or DISA user dials an invalid/vacant or busy station number the caller will be sent to the assigned destination that is selected according to the CO tenancy group of the DID/DISA line.

The destination is separately defined for invalid, busy, no answer and DND conditions and can be defined as the Attendant, busy tone, Station Group or VSF System Announcement.

Note that for calls on a DID line to a busy station, Call Wait can be assigned, refer to PGM 113, Station Attributes III, button 9.

Also, for DID calls only, announcements (prompts) can be sent from the VSF to the caller for various conditions, busy, error, DND, No Answer, reroute busy, reroute error, reroute no answer, or Attendant Transfer.

PROCEDURE:		
DID/DISA DESTINATION	1. Press the <b>[PGM]</b> button and dial 167.	
ENTER ICM GROUP (00-15)	Select ICM tenancy group	
DID/DISA DESTINATION :0 PRESS FLEX KEY (1-9)	Press the <b>[PGM]</b> button and dial 167 and press Flexible button (Ex.1).	
BUSY DESTINATION TONE (F1-F4)	Select the desired Flex button, Button 1: Busy Destination (F1-F4) Button 2: Error Destination (F1-F4) Button 3: No Answer Destination (F1-F4) Button 4: VSF Prompt Usage (F1-F5) Button 5: Reroute Busy Destination (F1-F3) Button 6: Reroute Error Destination (F1-F3) Button 7: Reroute No answer Destination (F1-F3) Button 8: DND destination (F1-F3) Button 9: Reroute NET CO BUSY Destination (F1-F3)	
	For Flex button 1~3 or 1~4, use the dial-pad to enter 1: ON or 0: OFF for the following VSF prompts. 1: Tone 2: Attendant 3: Hunt Group number 4: VSF Announcement For Flex button 4, select Flex button 1~5 for the desired VSF prompt and use the dial-pad to enter 1: ON or 0: OFF: Button 1: Busy Prompt	
	Button 2: Error Prompt Button 3: DND Prompt Button 4: No Answer Prompt Button 5: Attendant Transfer Prompt	
	Press the [Save] button to store the destination data entry.	

## 3.3.6.8 External Control Contacts – PGM 168

The MPBs include programmable contacts, which can be used to control external devices. Refer to Table 1.1-1 System Capacity Chart for number of available contacts. Each contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station or group receives an external call. Note for LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UNA calls and will ignore any station assignment. The contact may alternatively activate as a Door open contact, when External Page Zone 1 is accessed.

PROCEDURE:		
EXT CONTROL CONTACT PRESS FLEX KEY (1-2 )	1. Press the <b>[PGM]</b> button and dial 168.	
EXT CONTROL CONTACT NO 1 : (1-3)	Select Flex button 1~2 for the desired External Control contact.	
	Use the dial-pad to enter desired data.	
	1: LBC + station number	
	2: Door open	
	3: External Page 1 access	
	Press the <b>[Save]</b> button to store the External Contact data	
	entry.	

## 3.3.6.9 LCD Display Mode -PGM 169

The LCD display mode sets the time (12/24 hr.), date (day/month order), language and day-ofweek display. Refer to Table 3.3.6.9-1 and Table 3.3.6.9-2 for a description of the modes, the data entries required and LCD displays for each attribute.

PROCEDURE:	
LCD DISPLAY MODE PRESS FLEX KEY (1-4)	1. Press the <b>[PGM]</b> button and dial 169.
	Select the desired Flex button; refer to Table 3.3.6.9-1.
	Use the dial-pad to enter the desired mode and language, refer to Table 3.3.6.9-1 and Table 3.3.6.9-2.
	Press the <b>[Save]</b> button to store the LCD Display mode data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LCD DATE MODE (1:MMDD/0:DDMM): MMDDYY	Sets the Date display as month/day or day/month.	0: DD-MM-YY 1: MM-DD-YY	MMDDYY
2	LCD TIME MODE (1:12H/0:24H):12H	Sets the Time display mode as 12 hour or 24-hour (military) time.	0: 24 Hour Mode 1: 12 Hour Mode	12 Hour
3	LCD LANGUAGE (00-17) ENGLISH (00)	Sets the Language used in the LCD; Refer to Table 3.3.6.9-2 below.	00~17	00 (English)
4	LCD WEEKDAY MODE (0-2) PGM 169 BTN 1 (0)	Sets the Day-of-Week (DoW) display mode: 0: no DoW, see PGM 169-BTN1 1: display MM/DD WDY, (alpha month display, overrides button 1. 2: display MM DD WDY, numeric month display, overrides button 1.	0: use button 1 1: MM/DD WDY 2: MM DD WDY	Use button 1

#### Table 3.3.6.9-1 LCD DISPLAY MODE (PGM 169)

## Table 3.3.6.9-2 LCD LANGUAGE SELECTION

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

## 3.3.6.10 Button LED Flash Rate – PGM 170

The LED flash rate for various functions and states can be assigned any one of the system's 15 signals. The various functions and states are shown in Table 3.3.6.10-1. The 15 flash signals available in the system are shown in Table 3.3.6.10-2.

PROCEDURE:	
LED FLASHING RATE PRESS FLEX_KEY (1-24)	1. Press the <b>[PGM]</b> button and dial 170.
	There are 35 Flash rate entries represented by Flex buttons. To access entries 25 to 35, use the <b>[VOL UP]/[VOL DOWN]</b> buttons. Press the desired Flex button; refer to Table 3.3.6.10-1.
	Use the dial-pad to enter desired data for the flash rate, refer to Table 3.3.6.10-1 and Table 3.3.6.10-2.
	Press the <b>[Save]</b> button to store the Flash Rate data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	COL IN RING FLASH 30 IPM	CO button Incoming ring flashing rate.	00-14	FLASH 30 IPM (2)
2	COL XFER RING FLASH 120 IPM	CO button transfer ring flashing rate.	00-14	FLASH 120 IPM(10)
3	COL QUE RING FLASH 240 IPM FLUTTER	CO button queue call back ring flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
4	COL RCL RING FLASH 480 IPM FLUTTER	CO button recall ring flashing rate.	00-14	FLASH 480 IPM FLUTTER(8)
5	COL I HOLD RING FLASH 30 IPM WINK	CO button I hold flashing rate.	00-14	FLASH 30 IPM WINK(12)
6	COL SYS HOLD RING FLASH 60 IPM	CO button system hold flashing rate.	00-14	FLASH 60 IPM (3)
7	COL EXC HOLD RING FLASH 120 IPM	CO button exclusive hold flashing rate.	00-14	FLASH 120 IPM(10)
8	COL OUT DISABLED FLASH 240 IPM FLUTTER	CO button out going disabled flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
9	COL IN OFFNET CFW FLASH 240 IPM FLUTTER	CO button incoming off-net call forward flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)

### Table 3.3.6.10-1 BUTTON LED FLASH RATE (PGM 170)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	COL DISA IND FLASH 240 IPM	CO button DISA indication flashing rate.	00-14	FLASH 240 IPM(5)
11	COL SUPP CW FLASH 240 IPM FLUTTER	CO button supplementary call waiting flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
12	COL SUPP HOLD FLASH 480 IPM	CO button supplementary hold flashing rate.	00-14	FLASH 480 IPM(7)
13	DSS CO RING FLASH 30 IPM	DSS button CO ring flashing rate.	00-14	FLASH 30 IPM (2)
14	DSS ALL RING FLASH 60 IPM	DSS button ICM ALL ring flashing rate.	00-14	FLASH 60 IPM (3)
15	DSS ASC RING FLASH 120 IPM	DSS button ICM ring associate device flashing rate.	00-14	FLASH 120 IPM(10)
16	DSS IN DND FLASH 60 IPM	DSS button station in DND.	00-14	FLASH 60 IPM (3)
17	DSS LOCK OUT FLASH 480 IPM FLUTTER	DSS button station in lockout.	00-14	FLASH 480 IPM FLUTTER(8)
18	DSS PRESEL MSG FLASH 30 IPM	DSS button station in pre-selected message.	00-14	FLASH 30 IPM (2)
19	DSS ICM HOLD FLASH 60 IPM	DSS button station on ICM hold.	00-14	FLASH 60 IPM (3)
20	DSS OTHER FLASH 120 IPM	DSS button station in other state.	00-14	FLASH 120 IPM(10)
21	UCD QUE RING 2 FLASH 60 IPM	CIQ Threshold # 1.	00-14	FLASH 60 IPM (3)
22	UCD QUE RING 6 FLASH 120 IPM	CIQ Threshold # 2.	00-14	FLASH 120 IPM(10)
23	UCD QUE RING 7-X FLASH 240 IPM	CIQ Threshold # 3.	00-14	FLASH 240 IPM(5)
24	UCD DND(OFF DUTY) FLASH 120 IPM	UCD agent is off duty (UCD DND).	00-14	FLASH 120 IPM(10)
25	UCD WARNING FLASH 120 IPM	UCD warning tone.	00-14	FLASH 120 IPM(10)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
26	UCD HELP FLASH 120 IPM	UCD help request/response.	00-14	FLASH 120 IPM(10)
27	FEATURE RECORD FLASH 240 IPM	FEATURE voice record button.	00-14	FLASH 240 IPM(5)
28	FEATURE MSG WAIT FLASH 30 IPM	FEATURE message wait.	00-14	FLASH 30 IPM (2)
29	DSS OUT OF SERVICE FLASH OFF	Station in out-of-service state.	00-14	FLASH OFF (00)
30	ON DEMAND RING MODE FLASH 60 IPM	DND LED of attendant for ring mode indication (On-demand).	00-14	FLASH 60 IPM (3)
31	NIGHT RING MODE FLASH STEADY	DND LED of attendant for ring mode indication (Night).	00-14	FLASH STEADY(01)
32	TIMED RING MODE FLASH 240 IPM	DND LED of attendant for ring mode indication (TIMED).	00-14	FLASH 240 IPM(5)
33	AUTO RING MODE FLASH 480 IPM	DND LED of attendant for ring mode indication (AUTO).	00-14	FLASH 480 IPM(7)
34	PAGE HOLD BUTTON FLASH 60 IPM	HOLD LED for paging.	00-14	FLASH 60 IPM (3)
35	DSS OFF DUTY FLASH 120 IPM	DSS button station in Hunt DND.	00-14	FLASH 120 IPM (10)

Table 3.3.6.10-1 BUTTON LED FLASH RATE (PGM 170)

# Table 3.3.6.10-2 FLASH RATE TABLE (PGM 170)

Flash Rate	DESCRIPTION
00	Flash OFF
01	Steady On
02	30 ipm flash (30% On)
03	60 ipm flash (30% On)
04	60 ipm double wink (30% On-Off-On-Off 7 &0% On)
05	240 ipm flash (30% On)
06	240 ipm flutter (30% On-Off-On-Off-On & 70% Off)
07	480 ipm flash (30% On)
08	480 ipm flutter (30% On-Off-On-Off-On & 70% Off)
09	15 ipm flash (30% On)
10	120 ipm flash (30% On)
11	120 ipm flutter (30% On-Off-On-Off-On & 70% Off)
12	30 ipm double flash (30% On-Off-On & 70% Off)
13	480 ipm double wink (30% On-Off-On-Off 7 &0% On)
14	480 ipm double flash (30% On-Off-On & 70% Off)

#### 3.3.6.11 Music Sources – PGM 171

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. MPBs provide for two (2) music inputs. The first input is the internal source and the second is external. In addition, a VMIU or VMIB announcement may be recorded and played as MOH to a holding caller. And SLIB port is used as MOH to a holding caller.

PROCEDURE:	
MUSIC ASSIGN PRESS FLEX KEY (1-6)	1. Press the <b>[PGM]</b> button and dial 171.
	Select the desired Flex button; refer to Table 3.3.6.11-1.
	Use the dial-pad to select the desired Music Source, refer to Table 3.3.6.11-1.
	To save the Music Source, press the <b>[Save]</b> button.

#### Table 3.3.6.11-1 MUSIC SOURCES FOR MOH & BGM (PGM 171)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	BGM TYPE (00-10) MUSIC 1 (01)	Assigns the source for BGM.	00: No BGM 01: INT Music 02: EXT Music 03: VSF MOH 04-08: SLT MOH1-5 09: VSF MOH2 10: VSF MOH3	Music 1
2	MOH TYPE (00-10) MUSIC 1 (01)	Assigns the source for MOH	00: Hold tone 01: INT Music 02: EXT Music 03: VSF MOH 04-08: SLT MOH1-5 09: VSF MOH2 10: VSF MOH3	Music 1
3	INT MOH TYPE (00-12) ROMANCE (00)	Assigns the input for source 1	00: ROMANCE 01: TURKISH MARCH 02: GREEN SLEEVE 03: FUR ELISE 04: CARMEN / 05: WALTZ 06: PAVANE 07: SICHILIANO 08: SONATA 09: SPRING 10: CAMPANELLA 11: BADINERIE 12: BLUE DANUBE	ROMANCE
4	ASGN SLT MOH (F1-F5)	Assign the SLIB port as a SLT MOH.	F1-F5:SLTMOH1-5	
5	VSF MOH2 (01-70) VSF NO ()	A system announcement could be used for VSF MOH 2	01-70	N/A
6	VSF MOH3 (01-70) VSF NO ()	A system announcement could be used for VSF MOH 3	01-70	N/A

## 3.3.6.12 PABX Access Codes – PGM 172

When the system is used "behind" a PBX/CTX, the system needs to recognize the PBX/CTX Trunk access codes to implement dialing restriction, tone detection sequences and Flash timing. A maximum of four (4) Trunk Access Codes of one (1) or two (2) digits can be entered.

PROCEDURE:	
PABX ACCESS CODE PRESS FLEX KEY (1-4)	1. Press the <b>[PGM]</b> button and dial 172.
PABX ACCESS CODE 1 	Select the Flex button for the desired Access Code (button 1~4).
	Use the dial-pad to enter the PABX Trunk Access Code, two (2) digits 0~9, Use "*" as a wild card (any digit) entry.
	Press the <b>[Save]</b> button to store the access code data entry.

# 3.3.6.13 Ringing Line Preference Priority – PGM 173

When multiple calls are ringing at a station assigned Ringing Line Preference, the order of preference can be assigned based on the type of call; CO/IP Transfer (XFR), CO/IP Recall (REC), Incoming call (INC), or CO/IP Queue (QUE). ICM calls are always assigned the lowest priority.

PROCEDURE:	
XFR REC INC QUE 1 2 3 4	1. Press the <b>[PGM]</b> button and dial 173.
	Select the Flex button for the desired Call Type; refer to Table 3.3.6.13-1.
	Use the dial-pad to enter the priority 1~4.
	Press the <b>[Save]</b> button to store the RLP Priority data entry.

## Table 3.3.6.13-1 RLP PRIORITY (PGM 173)

BTN	DESCRIPTION	RANGE	DEFAULT
1	CO/IP Transferred call	1~4	1
2	CO/IP Recall	1~4	2
3	COIP Incoming call	1~4	3
4	Queued CO/IP recall	1~4	4

## 3.3.6.14 RS-232 Port Settings – PGM 174

The system has an RS–232 serial port located on the MPB; refer to the *iPECS eMG80 Hardware Description and Installation Manual*. Certain characteristics of each port are programmable: baud rate, RS–232 control, and page settings. Refer to Table 3.3.6.14-1 for a description of the settings, the data entries required and LCD displays.

PROCEDURE:	
RS232 PORT SETTING PRESS FLEX KEY (1-3)	1. Press the <b>[PGM]</b> button and dial 174.
	Press Flex button 1 for Serial port 1 or Flex button 2 for USB COM1 port or Flex button 3 for USB COM2 port, then select a Flex button for the desired attribute (e.g. Flex button 1), refer to Table 3.3.6.14-1.
	Use the dial-pad to enter the desired Port data, refer to Table 3.3.6.14-1.
	Press the <b>[Save]</b> button to store the Port Data entry.

#### Table 3.3.6.14-1 RS–232 PORT SETTINGS (PGM 174)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SERIAL1 PORT SETTING PRESS (F1-F5)	Select a Flex button for the desired attribute.	F1-F5	
1-1	SERIAL1 BAUD RATE BAUDRATE: 115200	This entry establishes the BAUD rate for the RS-232 serial port.	1: Unused 2: 9600 3: 19200 4: 38400 5: 57600 6: 115200	115200
1-2	SERIAL1 CTS/RTS (1:ON/0:OFF):OFF	The system's RS-232 port can support Clear-to-Send (CTS) and Ready-to-Send (RTS), control leads.	0: OFF 1: ON	OFF
1-3	SERIAL1 PAGE BREAK (1:ON/0:OFF):OFF	The system can send a page break command over the serial port at the end of each page. See button 4 for page length set-up.	0: OFF 1: ON	OFF
1-4	SERIAL1 LINE PAGE (001-199) : 066	This entry is used to set the page length, the number of lines the system will send before sending the page break, see button 3 above.	001~199	66
1-5	SERIAL 1 XON/XOFF (1:ON /0:OFF):XOFF	This entry enables XON/XOFF protocol. (It is not supported)	0: OFF 1: ON	XOFF

## 3.3.6.15 Serial Port Function Selections – PGM 175

The system has an RS-232 serial port located on the MPB; Also, the system can employ IP over three (3) TCP channels for the output of various system information.

Each output function is assigned a Serial port or TCP channel that is used to output the information. In addition, a TCP port must be assigned when a function is defined to use a TCP channel. The Serial port is located on the MPB; refer to the *iPECS eMG80 Hardware Description and Installation Manual*. Note each function can be defined to use only one output. Refer to Table 3.3.6.15-1 and Table 3.3.6.15-2 for a description of the selections, the data entries required and LCD displays.

PROCEDURE:	
PRINT PORT SELECTION PRESS FLEX_KEY (1-2)	1. Press the <b>[PGM]</b> button and dial 175.
SELECT TCP NO PRESS FLEX_KEY (1-9)	Press Flex button 1 to assign the output type for each function or Flex button 2 to assign the TCP port for the function when a TCP channel is selected for the function.
	Select the Flex button for the desired function, refer to Table 3.3.6.15-1 or Table 3.3.6.15-2.
	Use the dial pad to enter the output type (Flex button 1) or TCP port (Flex button 2). For Flex button 1 the entries available are: 1: Serial port 1 2: Serial port 2 3: TCP channel 1 4: TCP channel 2 5: TCP channel 3 6: USB COM1 (6) 7: USB COM2 (7)
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.6.15-1 FUNCTION OUTPUT TYPE (PGM 175)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF LINE SMDR (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for Off-line SMDR/Statistics output.	1 ~ 7	SERIAL1
2	ADMIN DATA (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the ADMIN Report output.	1 ~ 7	SERIAL1
3	TRAFFIC (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the TRAFFIC report output.	1 ~ 7	SERIAL1
4	SMDI (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the SMDI output.	1 ~ 7	SERIAL1

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	CALL INFO (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used to receive Call Information output.	1~7	SERIAL1
6	ON-LINE SMDR (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the On-line SMDR.	1 ~ 7	SERIAL1
7	TRACE (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the Trace output.	1 ~ 7	SERIAL1
8	DEBUG (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the Debug output.	1 ~ 7	SERIAL1
9	ACD PACK (1-7) SERIAL 1 (1)	Defines the serial port or TCP channel used for the Unified Messages.	1 ~ 7	SERIAL1

# Table 3.3.6.15-1 FUNCTION OUTPUT TYPE (PGM 175)

## Table 3.3.6.15-2 OUTPUT FUNCTION TCP PORT (PGM 175)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF-LINE SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for Off- line SMDR/ Statistics output.	1 ~ 9999	NULL
2	ADMIN DATA (1-9999) TCP PORT(NULL)	Defines the TCP port used for the ADMIN Report output.	1 ~ 9999	NULL
3	TRAFFIC (1-9999) TCP PORT(NULL)	Defines the TCP port used for the TRAFFIC report output.	1 ~ 9999	NULL
4	SMDI (1-9999) TCP PORT(NULL)	Defines the TCP port used for the SMDI output.	1 ~ 9999	NULL
5	CALL INFO (1-9999) TCP PORT(NULL)	Defines the TCP port used to receive Call Information output.	1 ~ 9999	NULL
6	ON-LINE SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for the On-line SMDR.	1 ~ 9999	NULL
7	TRACE (1-9999) TCP PORT(NULL)	Defines the TCP port used for the Trace output.	1 ~ 9999	NULL
8	DEBUG (1-9999) TCP PORT(NULL)	Defines the TCP port used for the Debug output.	1 ~ 9999	NULL
9	ACD PACK (1-9999) TCP PORT(NULL)	Defines the TCP port used for Unified Messages.	1 ~ 9999	NULL
10	I-SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for I- SMDR(Interactive-SMDR)	1 ~ 9999	NULL

## 3.3.6.16 Break/Make Ratio – PGM 176

For Pulse dial CO Lines, the system supports 10pps and the percent break/make ratios of 67/33 or 60/40.

PROCEDURE:	
BREAK/MAKE RATIO (1:66/33 / 0: 60/40): 60/40	1. Press the <b>[PGM]</b> button and dial 176.
	Dial the digit (1 or 0) for the desired Break/Make ratio:
	1: 66/33
	0: 60/40
	To save Break/Make ratio data, press the <b>[Save]</b> button.

## 3.3.6.17 SMDR Attributes – PGM 177

Station Message Detail Recording (SMDR) is an ASCII output of details on both incoming and outgoing calls. Various SMDR attributes can be assigned including; output records for all calls or LD only, call cost per pulse when using call metering, etc. Refer to Table 3.3.6.17-1 for a description of each Attribute, LCD displays and the data entries required.

PROCEDURE:	
SMDR ATTRIBUTES PRESS FLEX KEY (01-24)	1. Press the <b>[PGM]</b> button and dial 177.
	Press the desired Flex button; refer to Table 3.3.6.17-1.
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.17-1.
	To save SMDR Attribute data, press the <b>[Save]</b> button.

#### Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SMDR SAVE (1:ON/0:OFF) : OFF	The system can store all outgoing calls (ON) or only calls that exceed the SMDR Timer (OFF). The later allows PSTN call set-up times to be removed from the recorded call time. For SMDR Timer settings refer to button 12 below.	0: OFF 1: ON	OFF
2	SMDR PRINT (1 : ON/ 0: OFF) : ON	The system can output SMDR records automatically as they occur (real-time) or only when requested. When this attribute is ON, SMDR output is automatic at call completion.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	RECORD TYPE (1 : LD/ 0: ALL) : LD	The system can record all outgoing calls or only long distance calls. Long distance calls are identified by the LD digit count and LD codes assigned in Flex button 4 and 19, respectively.	0: ALL calls 1: LD	LD
4	LD CALL DIGIT COUNT (07-15) : 07	Dialed numbers, which exceed the assigned LD digit count, are considered long distance calls for SMDR and COS purposes.	07-15	07
5	PRINT INCOMING CALL (1 : ON/ 0: OFF) : OFF	The system can output records for incoming calls as well as outgoing calls. If enabled, incoming calls are recorded as well as outgoing calls.	0: OFF 1: ON	OFF
6	PRINT LOST CALL (1 : ON/ 0: OFF) : ON	The system can provide lost call records, records for unanswered incoming (abandoned) calls.	0: OFF 1: ON	ON
7	RECORD IN DETAIL (1 : ON/ 0: OFF) : ON	The system can output detailed call records (ON) or summary information (total number of calls, cost and cost for each station).	0: OFF 1: ON	ON
8	HIDDEN DIALED DIGIT (0-9):0	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. Button 24 below defines whether leading or trailing digits are hidden. In addition, the station must be assigned for SMDR HIDE, PGM 113 button 5.	0~9	0
9	SMDR CURRENCY UNIT	The unit of currency used for call cost can be identified with 3 alpha characters for easy reference, refer to Table 2.1.2- 1.		-
10	COST PER PULSE 000000	When metering is provided by the PSTN, the cost per metering pulse can be assigned.	6 digits	000000
11	SMDR DECIMAL LOCATION (0-5) : 0	This value determines the position of the decimal in the Cost per Pulse, button 10, starting from the right most digits.	0~5	0
12	SMDR START TIMER (1sec) (000 – 250) : 000	To allow for call set-up times through the PSTN, a "Valid call timer" can be set. A call must be longer than the SMDR Start Timer for a call record to be generated if enabled under button 1 above.	000~250 seconds	000
13	SMTP         IP         ADDR         (WEB)           0         .0         .0         .0	SMTP Mail server IPv4 address to receive the SMDR e-mail reports.	12-digits	
14	USER MAIL ADDR (WEB)	User e-mail address to receive the SMDR e-mail reports, display only. To change data, use Web Admin.		

# Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
15	MAIL SEND WEEKLY SET N/A (0-7)	Sets day of week to send SMDR data weekly (0 for no weekly data, 1-7 for Monday through Sunday)	0-7	0
16	MAIL SEND DAILY SET 00(00-23)	Sets time-of-day for SMDR data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day).	00-23	00
17	AUTO SEND MODE (1 : ON/ 0: OFF) : OFF	If the SMDR buffer is full, the system can automatically send a notification by e-mail.	0: OFF 1: ON	OFF
18	AUTO DELETE MODE (1 : ON/ 0: OFF) : OFF	Delete SMDR records after sending e- mail.	0: OFF 1: ON	OFF
19	LONG DISTANCE CODE 0	For SMDR and COS purposes, five (5) Long Distance codes of up to two (2) digits each can be assigned. If dialed as the 1 <sup>st</sup> digits, the call is considered an LD call.	Flex button 1~5 + digits 0~9 & '*' as a wild card	BTN 1: 0
20	SMDR RIN/CLI/CPN SVC_I (0:RIN/1:CLI/2:CPN):0	For incoming calls, the system will send the defined data item for "Field I". The data item may be CLI, CPN or Ring Service Time. Note the User dialed number is always provided for an outgoing call.	0: RING 1: CLI 2: CPN	RING time
21	MSN PRINT ON SMDR (1:ON/0:OFF) : OFF	Print MSN number Information in SMDR Record.	0: OFF 1: ON	OFF
22	SMDR RIN/CLI/CPN SVC_II (0:RN/1:CL/2:CP/3:NO):2	For incoming calls, the system will send the defined data item for "Field II". The data item may be CLI, CPN or Ring Service Time.	0: RING 1: CLI 2: CPN 3: None	CPN
23	PRINT SERIAL NO (1 : ON/0:OFF) : OFF	Print record number as part of SMDR output, will reset to 1 when SMDR capacity is reached or SMDR records are deleted, see button 18.	0: OFF 1: ON	OFF
24	SMDR ATTRIBUTRS(2ND) PRESS FELX KEY (01-19)		01-19	
24-1	SMDR HIDE DGT 1:RIGHT/0:LEFT) : RIGHT	When "HIDDEN DIALED DIGIT" is enabled, button 8 above, this field determines if leading or trailing digits are hidden.	0: Left 1: Right	Right
24-2	SMDR INTERFACE SVC (1:ON/0:OFF) : OFF	When enabled, the system stores SMDR data to send to applications including NMS upon request.	0: OFF 1: ON	OFF
24-3	SMDR ICM SAVE (1:ON/0:OFF) : OFF	When enabled, intercom call data is stored as part of the SMDR data.	0: OFF 1: ON	OFF

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
SMDR ICM PRINT (1:ON/0:OFF) : OFF	When enabled, intercom call data is printed as part of the On-line SMDR.	0: OFF 1: ON	OFF
SMDR DISC CAUSE (1:ON/0:OFF) : OFF	When enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.	0: OFF 1: ON	OFF
LONG TIME CALL (10min) (000-144) : 000	To monitor long time CO call, a "Long Time Call" can be set. 0 means no monitoring. If CO call duration exceeds this value, a notification will be sent to	000 ~ 144	000
PRT LIMIT TO NET CALL (1:ON/0:OFF) : OFF	When CO call is transferred to Net transit out CO, it's automatically deleted from SMDR.	0: OFF 1: ON	OFF
INTERNATIONAL CODE	It is used to distinguish international call for SMDR.	4 digit	
MOBILE PHONE CODE	It is used to distinguish mobile call for SMDR.	4 digit	
SMTP MAIL SERVER ID	This field defines the user's ID for SMTP Mail server. If user's ID and password is assigned, SMTP Mail server will check the validation of user ID and password.	Max 40 Chars	
SMTP MAIL SERVER PWD	This field defines the user's password for SMTP Mail server. If user's ID and password is assigned, SMTP Mail server will check the validation of user ID and password.	Max 20 Chars	
TRANSFER CHARGE RATE (0-2): INDIVIDUAL	1. INDIVIDUAL: When a call is transferred to another station, the	0: INDIVIDUAL 1: INTEGRATE XFERING 2: INTEGRATE XFERED	INDIVIDUAL
	SMDR ICM PRINT (1:ON/0:OFF) : OFFSMDR DISC CAUSE (1:ON/0:OFF) : OFFLONG TIME CALL (10min) (000-144) : 000PRT LIMIT TO NET CALL (1:ON/0:OFF) : OFFINTERNATIONAL CODE MOBILE PHONE CODE SMTP MAIL SERVER ID SMTP MAIL SERVER PWD SMTP MAIL SERVER PWD 	SMDR ICM PRINT (1:ON/0:OFF) : OFFWhen enabled, intercom call data is printed as part of the On-line SMDR.SMDR DISC CAUSE (1:ON/0:OFF) : OFFWhen enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.LONG TIME CALL (10min) (000-144) : 000To monitor long time CO call, a "Long Time Call" can be set. 0 means no monitoring. If CO call duration exceeds this value, a notification will be sent to NMS server and alarm will be displayed.PRT LIMIT TO NET CALL (1:ON/0:OFF) : OFFWhen CO call is transferred to Net transit out CO, it's automatically deleted from SMDR.INTERNATIONAL CODE It is used to distinguish international call for SMDR.MOBILE PHONE CODE It is used to distinguish mobile call for SMDR.SMTP MAIL SERVER IDThis field defines the user's ID and password is assigned, SMTP Mail server. If user's ID and password for SMTP Mail SERVER PWDSMTP MAIL SERVER RATE (0-2): INDIVIDUAL1. INDIVIDUAL: When a call is transferred to another station, the transferred call is charged to two stations respectively.TRANSFER CHARGE RATE (0-2): INDIVIDUAL1. INDIVIDUAL: When a call is transferred call is charged to two station, the call is charged to the transferring station. 3. INTEGRATE XFERED: When a call is transferred call is charged to the call is charged to the transferring station.	SMDR ICM PRINT (1:ON/0:OFF) : OFF       When enabled, intercom call data is printed as part of the On-line SMDR.       0: OFF 1: ON         SMDR DISC CAUSE (1:ON/0:OFF) : OFF       When enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.       0: OFF 1: ON         LONG TIME CALL (10min) (000-144) : 000       To monitor long time CO call, a "Long Time Call" can be set. 0 means no monitoring. If CO call duration exceeds this value, a notification will be sent to NMS server and alarm will be displayed.       000 ~ 144         PRT LIMIT TO NET CALL (1:ON/0:OFF) : OFF       When CO call is transferred to Net transit out CO, it's automatically deleted from SMDR.       0: OFF 1: ON         INTERNATIONAL CODE       It is used to distinguish international call for SMDR.       4 digit         SMTP MAIL SERVER ID This field defines the user's ID for SMTP Mail server. If user's ID and password is assigned, SMTP Mail server will check the validation of user ID and password for SMTP Mail server. If user's ID and password.       Max 40 Chars         SMTP MAIL SERVER PWD This field defines the user's password for stransferred to another station, the transferred to another station, the transferred to another station, the call is charged to two stations respectively.       0: INTEGRATE XFERING: When a call is transferred to another station, the call is charged to the transferring station.       0: INTEGRATE XFERED

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-13	ATD XSFER CHARGE RATE (0-2):INDIVIDUAL	<ol> <li>INDIVIDUAL: When Attendant make outgoing call and transfer this call to another station, the transferred will follow the Transfer Charge Mode.</li> <li>ATD CHARGING: When Attendant makes outgoing call and transfers this call to another station, the call is charged to the Attendant.</li> <li>XFERED CHARGING: When Attendant makes outgoing call and transfers this call to another station, the call is charged to the transferred station.</li> </ol>	0: INDIVIDUAL 1: ATD CHARGING 2: XFERED CHARGING	INDIVIDUAL
24-14	SMTP DNS ADDR (WEB)	SMTP Mail server Domain address to receive the SMDR e-mail reports.	Max 100 Chars	-
24-15	SMTP SENDER MAIL (WEB)	Program VSF mail Sender mail Address (It is moved to web admin PGM 160- 161)	Max 40 Characters	-
24-16	SMTP SECURITY (0-2) : NO SECURITY	Choose SMTP Security (It is moved to web admin PGM 160-161)	0-2 (0:No security 1:SSL 2:TLS)	0
24-17	SMTP PORT (00001-65535) : 00025	Choose SMTP Port (It is moved to web admin PGM 160-161)	1-65535	25
24-18	VSF VM DISPLAY (0:'l', 1:'V')	If the value is 'I', the call to "VSF voice mail" is displayed as 'I' in SMDR. But if the value is 'V', the call to "VSF voice mail" is displayed as 'V' in SMDR. 'I' means "incoming call". 'V' is new indication for "VSF voice mail".	0:'l' 1:'V'	0:'l'
24-19	DISPLAY N TYPE (1:ON/0:OFF) : OFF	Display 'N' in SMDR to distinguish and it is network call.	1:ON 2:OFF	OFF

# Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

## 3.3.6.18 System Date, Time and Daylight Saving Time (DST) – PGM 178

The system Date, Time and DST feature are established by this entry. The date and time are employed for several features and functions including; LCR, LCD displays, SMDR outputs, Auto Ring Mode Selection, Wake-Up Alarm, etc. If DST is enabled the system time will be adjust one-hour forward and back at the DST start and end times, respectively.

PROCEDURE:	
SET TIME/DATE & DST PRESS FLEX_KEY (1 - 5)	1. Press the <b>[PGM]</b> button and dial 178.
	Press the Flex button for the desired Attribute; refer to Table 3.3.6.18-1.
	Button 1: Time
	Button 2: Date
	Button 3: DST enable mode
	Button 4: DST start time
	Button5 : DST end time
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.6.18-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.6.18-1 SYSTEM TIME, DATE & DST (PGM 178)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SET TIME TIME 00:22(HH:MM)	Sets the system time.	HH:MM	
2	SET DATE DATE : 07/24/13(MMDDYY)	Sets the system date.	MMDDYY	
3	DST ENABLE MODE (1:ON/0:OFF) : OFF	Enables DST feature for System Time.	0: OFF 1: ON	OFF
4	DST START TIME ONLY POSSIBLE BY WEBADM	The DST start time. This can be set only via WEB Admin.	See DST Table	2 <sup>nd</sup> Sunday of March at 2:00 AM
5	DST END TIME ONLY POSSIBLE BY WEBADM	The DST end time. This can be set only via WEB Admin.	See DST Table	1 <sup>st</sup> Sunday in Nov., at 2:00 AM

### 3.3.6.19 Multi Language – PGM 179

The VMIU and VMIB support multiple languages; up to six languages may be supported simultaneously. Once the prompts are downloaded to the VMIU/VMIB, the caller receives the Language selection announcement for DISA and CCR calls as well as proceeding a Hunt Group guaranteed announcement or DID error announcement. The language selection announcement will only affect the language prompts enabled for use.

PROCEDURE:	
SET SYSTEM MULTI LANG ENTER SEQ NO (001 -262)	1. Press the <b>[PGM]</b> button and dial 179 (e.g. enter 015).
SET 015 SYS MULTI LANG PRESS FLEX KEY )1-6)	Select Flex button, Button 1: U.S Prompt Usage Button 2: Korea Prompt Usage Button 3: Turkey Prompt Usage Button 4: Russia Prompt Usage Button 5: Australia Prompt Usage Button 6: Germany Prompt Usage
U.S Prompt Usage (1:ON/0:OFF) : OFF	Us the dial pad to enable or disable the desired language prompts.
	Press the <b>[Save]</b> button to store the data entry.

## 3.3.6.20 System Timers I to III - PGMs 180-182

A number of timers can be assigned to control and affect many features and functions of the system. Refer to Table 3.3.6.20-1 to Table 3.3.6.20-3 for a description of the timers and the input required.

PROCEDURE:	
SYSTEM TIMER 1 PRESS FLEX KEY (01-22)	<ol> <li>Press the [PGM] button and dial: 180 for System Timers I 181 for System Timers II 182 for System Timers III</li> </ol>
	Press the Flex button for the desired Timer; refer to Table 3.3.6.20-1 to Table 3.3.6.20-3.
	Us the dial pad to enable or disable the desired language prompts.
	Press the [Save] button to store the data entry.
	Use the dial-pad to enter the desired Timer data, refer to Table 3.3.6.20-1 to Table 3.3.6.20-3.
	Press the [Save] button to store the Timer data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ATD RECALL TMR(min) (00-60) : 01	Determines the amount of time the attendant receives recall after which the system will disconnect the call.	00~60 (minutes)	01
2	CALL PARK TMR(sec) (000-600) : 120	Determines the amount of time before a parked call will recall the station that parked the call.	000~600 (seconds)	120
3	CAMP-ON RECALL TMR(sec) (000-600) : 030	When a call transfer is camped-on, this timer determines the amount of time before the station receives recall.	000~200 (seconds)	030
4	EX-HOLD RECALL TMR(sec) (000-600) : 060	Determines the amount of time before a call placed on exclusive hold will recall the station.	000~300 (seconds)	060
5	I-HOLD RECALL TMR(sec) (000-600) : 030	Determines the amount of time before a call that is recalling the station will recall before also recalling the attendant.	000~300 (seconds)	030
6	S-HOLD RECALL TMR(sec) (000-600) : 030	Determines the amount of time before a call placed on system hold will recall the station.	000~300 (seconds)	030
7	TRANS RECALL TMR(sec) (000-600) : 030	Determines the amount of time a transferred call will ring at the receiving station before recalling the station that transferred the call.	000~300 (seconds)	030
8	ACNR DELAY TMR(sec) (000-300) : 030	If the ACNR Pause Timer expires and no CO Line is available for ACNR recall, the delay timer sets the delay before ACNR attempts to access a CO line. The retry counter is not decremented by this action.	000~300 (seconds)	030
9	ACNR PAUSE TMR(sec) (000-300) : 030	This timer establishes the time between ACNR recall attempts.	000~300 (seconds)	030
10	ACNR RETRY COUNT (01-13) : 03	This counter sets the number of recall attempts for ACNR before ACNR is abandoned. (For CIS : 1-9).	1~13	03
11	ACNR TONE DTC TMR(sec) (001-300) : 030	If call progress tones are not available for ACNR, the system will wait this duration after dialing before considering the called party as busy/no answer.	001~300 (seconds)	030
12	AUTO RELEASE TMR(sec) (000-300) : 030	If a user accesses a CO/IP path and does not take any action, the system will automatically release the CO/IP path when this timer expires.	000~300 (seconds)	030
13	CCR INT DGT TMR(100ms) (000-300) : 030	Inter-digit timer used with Customer Call Routing function.	000~300 (100msec)	030

# Table 3.3.6.20-1 SYSTEM TIMERS I (PGM 180)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
14	CALL RESTRICT TMR(min) CHECK PGM 123-F2	Not used. Check PGM123-BTN2	00~99 (minutes)	00
15	CO DIAL DLY TMR(100ms) (00-99) : 05	Delay for through connection to prevent illegal dialing when CO/PBX has slow response.	00~99 (100msec)	05
16	RLS GUARD TMR(100ms) (010-150) : 020	When a CO Line is returned to idle, the system will deny access for this time to assure the PSTN returns the CO circuitry to idle.	010~150 (100msec)	020
17	CO RING OFF TMR(100ms) (010-150) : 060	This timer sets the maximum 'OFF' duration of the incoming ring cycle to determine when a call has been abandoned.	010~150 (100msec)	060
18	CO RING ON TMR(100ms) (1-9) : 2	This timer sets the 'ON' time of the incoming ring cycle for the Ring Detect circuitry of the system to recognize an incoming call.	1~9 (100msec.)	2
19	ELAPSED CALL TMR(sec) (005-900) : 180	Users can receive a periodic tone indicating the length of an outgoing call. This timer sets the time before and between the tones. Note Call Time Tone must be enabled in PGM 112-button 1.	005~900 (seconds)	180
20	WEB PWD GUARD TMR (min) (001-999) : 005	If no data packets are received during a Web Admin connection for the Guard time, a password check will be initiated by the system.	001~999 (minutes)	5
21	ON HOOK IDLE TMR (sec) (00-99) : 00	Phone (IP/DKTU) goes to idle after this timer when the phone receives disconnect message or signal from CO line.	00~99 (seconds)	0
22	CALL REC REPEAT TMR(sec) (000-999) : 000	If record warning tone is set and this timer is set greater than 1, it works periodically when it's recorded.	000~999 (seconds)	0

#### Table 3.3.6.20-1 SYSTEM TIMERS I (PGM 180)

## Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	FWD NO ANS TMR(sec) (000-600) : 015	When a user activates No-Answer Forward, calls will ring for this duration before the calls are forward. The Station No-Answer Forward timer PGM 123 will take precedence.	000~600 (seconds)	015
2	DID/DISA NO ANS(sec) (000-255) : 000	A DID/DISA call to a station will forward to the DID/DISA Destination assigned in PGM 167 should this timer expire before the call is answered.	000~255 (seconds)	000

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	VSF USR RECORD(sec) (000-999) : 060	This timer sets the maximum duration allowed for the User Greeting in the system's basic Voice Mail.	000~999 (seconds)	60
4	VSF VALID USER MSG(sec) (0-9) : 4	This timer sets the minimum duration allowed for a voice mail message in the system's basic VSF Voice Mail. Messages shorter than this period are not stored.	0~9 (seconds)	4
5	DOOR OPEN TMR(100ms) (00-99) : 20	This timer sets the minimum contact closure time required to activate the contact assigned as a door open contact.	00~99 (100msec.)	20
6	ICM DIAL TONE TMR(sec) (001-255) : 010	If a user goes off-hook on the Intercom and takes no action for this timer, the user will receive error tone.	001~255 (seconds)	10
7	INTER DIGIT TMR(sec) (01-20) : 05	This timer sets the maximum allowed time between user dialed digits. At expiration, the user will receive error- tone.	01~20 (seconds)	05
8	MSG REMINDER TONE(min) (00-60) : 00	An iPECS Phone user will receive periodic reminder tones of a message waiting at intervals based on this timer.	00~60 (minutes)	00
9	PAGE TIME OUT TMR(sec) (000-255) : 015	Determines the maximum duration of a page after which the caller and Page Zone are released.	000~255 (seconds)	15
10	PAUSE TMR(sec) (1-9) : 3	A Timed pause of this duration is used in Speed Dial and during other automatically dialed digits sent to the PSTN.	1~9 (seconds)	3
11	SOFT AUTO RLS TMR(sec) (01-30) : 10	When a Soft Key is used on the iPECS Phone, after expiration of this timer, the display will return to the previous display.	1~30 (seconds)	10
12	VM PAUSE TMR(100 msec) (01-90) : 30	When the system sends a "Pause" to Voice Mail using In-band signals, the Pause interval is defined by this timer. Not available in the USA.	1~90 (100msec.)	30
13	VSF CUT ERR TMR(1 SEC) (01-90) : 00	To cut error tone in VSF message that is leaved in a station.	1~90 (1 sec.)	00
14	UNUSED	Unused.		
15	EMERGENCY RETRY TMR (00-99) : 00 SEC	System try to make emergency call according to the CO access rule/Prefer CO/CO group if system could not seize predefined emergency Co line within this timer.	00~99 (1 sec.)	00

# Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	ERROR TONE TMR(1sec) (005-180) : 030	Error Tone Timer	005~180 (1 sec.)	30
17	HOWLING TONE TMR(1sec) (000-180) : 030	Howling Tone Timer	000~180 (1 sec.)	30
18	NOTIFY PLAY DELAY(1sec) (01-99) : 10	When VM notification call uses LCO, system will treat the call as the answered after this timer and play the new message prompt.	1~99 (1 sec.)	10

# Table 3.3.6.20-3 SYSTEM TIMERS III (PGM 182)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SLT HOOK BOUNCE(100ms) (01-25) : 01	This timer determines the duration the system considers an actual state change in the hook-switch and not a spurious contact bounce.	01~25 (100msec.)	01
2	SLT MAX H_FLASH(100ms) (01-25) : 07	This timer sets the maximum time an SLT user can depress the hook- switch for a Flash signal.	01~25 (100msec.)	07
3	SLT MIN H_FLASH(10ms) (000-250) : 010	This time sets the minimum time an SLT user must depress the hook- switch for a Flash signal.	000~250 (10 msec.)	010
4	STA AUTO RLS TMR(sec) (000-300) : 060	For an internal call, the system will return a station to idle if the call remains unanswered for this duration.	000~300 (seconds)	060
5	UNSUPER CONF TMR(min) (00-99) : 10	This timer determines the duration of an "Unsupervised conference" before the station is recalled or the conference is dropped.	00~99 (minutes)	10
6	PRIME LINE TMR(sec) (01-20) : 05	This timer sets the delay (no action duration) for delayed Prime Line operation.	01~20 (seconds)	05
7	WINK SIGNAL TMR(10ms) (010-200) : 010	This timer sets the duration of the "Seize Acknowledge Signal" (Wink) sent to the PSTN on a DID line.	010~200 (10 msec.)	010
8	EN-BLOC I_DGT TMR(sec) (01-20) : 05	When an ISDN Line is assigned to send digits En-block, PGM 143-button 3, the system will send a dialed digit if the user dials "#" or this timer is expired.	01~20 (seconds)	05
9	DTMF DURATION TMR(10ms) (04-99) : 10	This timer establishes the duration of the DTMF tone sent on an analog CO Line.	04~99 (10 msec.)	10

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	FLEX DID TMR(100ms) (01-99): 30	The system will receive DID digits for this timer. After the timer expires, the system will use the last 2 to 4 digits received as DID digits.	01~99 (100msec.)	30
11	WAKE UP FAIL TMR (sec) (00-99): 20	Provide wake up fail indication to attendant according to this timer.	00~99 (1 sec.)	20
12	PREPAID WARN TMR (sec) (00-99): 00	Prove warning tone when run out of prepaid money if this timer is not zero.	00~99 (1 sec.)	00

 Table 3.3.6.20-3 SYSTEM TIMERS III (PGM 182)

## 3.3.6.21 In-Room Indication – PGM 183

The Supervisor Station can set the In-Room Indication to all members in the same Group up to 10 bins can be programmed, and each bin has (at most) 20 members excluding the Supervisor.

PROCEDURE:	
IN ROOM INDICATION ENTER BIN NO (01-10)	1. Press the <b>[PGM]</b> button and dial 183.
IN ROOM INDICATION F1:SUPERVISOR F2:MEM	Use the dial-pad to enter the desired bin number.
	Press the desired Flex button; refer to Table 3.3.9.6-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.6.21-1 In-Room Indication (PGM 183)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	IN ROOM INDICATION SURERVISOR : STA 100	Assigns Supervisor station.		
2	STA 100 MEM 101	This entry assigns stations as members.		

## 3.3.6.22 DCOB SYS Timers – PGM 186

A number of timers can be assigned to control and affect operation of E1 lines using R2 signaling. Refer to Table 3.3.6.22-1 for the timer descriptions and inputs required.

PROCEDURE:		
DCOB SYS ATTRIBUTES PRESS FLEX KEY (1-6)	1. Press the <b>[PGM]</b> button and dial 186.	
	Press the Flex button for the desired Timer; refer to Table 3.3.6.22-1.	
	Use the dial-pad to enter the desired Timer data, refer to Table 3.3.6.22-1.	
	Press the [Save] button to store the Timer data entry.	

## Table 3.3.6.22-1 DCOB SYSTEM TIMERS (PGM 186)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	R2 OUT MANAG TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for forward signal from PBX.	01~50 (seconds)	14
2	R2 IN MANAG TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for forward signal from PBX.	01~50 (seconds)	14
3	R2 DISAPPEAR TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for the acknowledge of R2 signal.	01~50 (seconds)	14
4	R2 PULSE TMR(20msec) (01-30) : 07	In R2 signaling, time duration to send pulse typed R2 signal.	01~30 (20 msec)	07
5	R2 READY TMR (20msec) (000-500) : 007	Reserved for future usage for R2 timers.	000~500 (20 msec)	07
6	DIAL TONE DELAY TMR (01-30) : 20	Reserved for future usage for R2 timers.	01~30 (msec)	20

## 3.3.6.23 NTP Attributes – PGM 195

The system can employ the Network Time Protocol (NTP) or ISDN clock to synchronize the system time with the NTP time server or ISDN clock. The system requests the time from the NTP server at 10-minute intervals and then determines the time differential. If the system time is more 2 seconds off the NTP time, the system time is adjusted to synchronize with the NTP server time.

PROCEDURE:		
NTP ATTRIBUTES PRESS FLEX KEY (1-1)	1. Press the <b>[PGM]</b> button and dial 195.	
	Press the Flex button for the desired NTP Attribute; refer to Table 3.3.6.23-1.	
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.23-1.	
	Press the [Save] button to store the data entry.	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
	NETWORK TIME/DATE (0-2): DISABLE(0)	Sets time synchronization for the system as : Disable ISDN clock NTP, NTP Attributes are set only	0: DISABLE 1: ISDN 2: NTP	DISABLE

#### Table 3.3.6.23-1 NTP ATTRIBUTES

## 3.3.6.24 CRR Attributes – PGM 252

System can reroute incoming call to CO. If called number matched with compare digits of Table 252, the call are routed to Rerouting number.

PROCEDURE:	
CRR ATTRIBUTES PRESS FLEX KEY (1–3)	1. Press the <b>[PGM]</b> button and dial 252.
	Press the Flex button 1~3 for the desired setting, refer to Table 3.3.6.24-1.
	For Flex button 1 enable or disable CRR. For Flex button 2, press the <b>[Save]</b> button to reset the CRR table. For Flex button 3, dial the table bin number to input data.
	For Flex button 3, Enter the bin number, refer to Table 3.3.6.24-1.

Table 3.3.6.24-1 CRR ATTRIBUTES (PGM 252)					
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT	
1	ENABLE CRR (1:ON/0:OFF) : OFF	This field is used to enable or disable CO Call Rerouting.	0: OFF 1: ON	OFF	
2	INIT CRR PRESS <b>[Save]</b> KEY	This field is used to initialize the CRR table.			
3	CRR ATTRIBUTES ENTER BIN NO(000-169)		000-169		
3-1	CRR 001 COMPARE CO GRP GRP NO (01-20) : 01	Compared Co group should be matched with incoming CO group.	01-20 Max 2 digits	01	
3-2	CRR 001 RECEIVE DGTS	Incoming digit numbers should be matched with these digits. An "*" may be entered as a wild-card to indicate insertion of the compared number.	Max 12 digits		
3-3	CRR 001 CO+TEL NUMBER	This field defines the CO line, CO group or CO access code plus telephone number.	Max 20 digits		
3-4	CRR 001 TYPE	If you chose '1' for NET type, you can use transit out code for CO to CO rerouting. If you chose '2' for DISA type, you can access the station number as DISA mode. Other case, you should not use this type.	N/A		

# 3.3.6.25 VM COS Attributes – PGM 253

Each Station is assigned one of the five Voice Mail Classes of Service. The VM COS attributes include user greeting length, E-Mail notifications, message retention and optional message marking.

PROCEDURE:		
ENTER PGM NUMBER	1. Press the <b>[PGM]</b> button and dial 253.	
VM COS ATTRIBUTE ENTER COS RANGE (1-5)	Enter COS range from 1 to 5.	
1-2 VM COS ATT PRESS FLEX KEY (1-8)	Press flex button 1-8 for the desired setting, refer to Table 3.3.6.25-1.	
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.25-1.	
	Press the <b>[Save]</b> button to store the data entry.	

#### Table 3.3.6.25-1 VM COS ATTRIBUTES (PGM 253)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	GREETING LENGTH (00-99) : 60	This defines maximum user greeting length.	00-99	60
2	MESSAGE LENGTH (000-600) : 000	This defines maximum user message recording time.	000-600	000
3	NUMBER OF MESSAGE (000-250) : 000	This defines maximum number of voice mail message.	000-250	000
4	RETENTION TIME (00-99) : 00 (DAYS)	Voice mail messages will be automatically deleted after this amount of days.	00-99	00
5	E-MAIL NOTIFICATION (0-2) : NOTI. DELETE	E-mail notification can be enabled or disabled.	0: OFF 1: Notification 2: Notification & Delete	Notification & Delete
6	FUTURE DELEVERY MSG (1 :ON /0 :OFF) : OFF	Future Delivery message can be enabled or disabled.	0: OFF 1: ON	OFF
7	CONFIRM MSG RECEIPT (1 :ON/0 :OFF) : OFF	Confirm message receipt can be enabled or disabled.	0: OFF 1: ON	OFF
8	PRIVATE MSG MARK (1 :ON/0 :OFF) : OFF	Private message mark can be enabled or disabled.	0: OFF 1: ON	OFF

# 3.3.6.26 Personal Group – PGM 260

Several stations can share same station number. That means Personal Group is extended feature of Linked Pair.

A Personal Group is composed with a master station and several member stations.

A master station and all member stations share master station's number.

By using this shared number, almost features (Call To xxx / Call From xxx / SMDR / Message Wait...) can be activated.

But, some features can be chosen by PGM 261 attribute about all station activating or individual station working.

In PGM 260, Personal group master and member can be assigned.

In PGM 261, Personal group attribute can be set.

PROCEDURE:	
PERSONAL GRP ASSIGN ENTER GRP NUM (01–70)	<ol> <li>Press the <b>[PGM]</b> button and dial 260.</li> <li>And Enter Group number.</li> </ol>
PERSONAL GRP 01 F1 : MASTER STA F2 : MEM	Press Flex button 1, register Master station. Press Flex button 2, register member stations.
	Use the dial-pad to enter the desired data.
	Press the <b>[Save]</b> button to store the data entry.

# 3.3.6.27 Personal Group Attribute – PGM 261

In PGM 261, Personal group attribute can be set.

PROCEDURE:	
PERSONAL ATTRIBUTE ENTER GRP NUM (01–70)	<ol> <li>Press the <b>[PGM]</b> button and dial 261.</li> <li>And Enter Group number.</li> </ol>
PERSONAL GRP 01 PRESS FLEX KEY (1-4)	<ol> <li>Press the Flex button 1~4 for the desired setting, refer to Table 3.3.6.27-1.</li> </ol>
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.27-1.
	Press the <b>[Save]</b> button to store the data entry.

## Table 3.3.6.27-1 PERSONAL GROUP ATTRIBUTES (PGM 261)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01 USE MASTER WAKEUP (1:ON/0:OFF) : OFF	If this value is set to ON, all member wake-up follow by master wake up. If this value is set to OFF, individual wake-up is worked by each station.	0: OFF 1: ON	OFF
2	01 USE MASTER FWD (1:ON/0:OFF) : ON	If this value is set to ON, call forward setting affect to Master and all member. If this value is set to OFF, individual Call Forward is worked by each station.	0: OFF 1: ON	ON
3	01 USE MASTER DND (1:ON/0:OFF) : OFF	If this value is set to ON, DND setting affect to Master and all member. If this value is set to OFF, individual DND is worked by each station.	0: OFF 1: ON	OFF
4	01 SET LINKED PAIR (1:ON/0:OFF) : OFF	If this value is set to ON, Master and Member Stations are linked and only one station can be activated.	0: OFF 1: ON	OFF

# 3.3.7 STATION GROUP DATA – PGM 190 & 192

Stations can be grouped so that incoming calls will search (hunt) for an idle station in the group. The system allows assignment of three hunt processes, Circular, Terminal and UCD. In addition, there are eight (8) functional groups available: ACD (Automatic Call Distribution) based on UCD hunt, Ring, Call Pick-Up, External Voice Mail (SLT connected), VSF-Voice Mail, iPECS Feature Server Voice Mail, Network Voice Mail and UCS Groups.

Certain types of groups can incorporate announcements, which are given to the calling party. The system's VMIU or VMIB can store up to seventy (70) announcements for use with Station Groups.

Note that a station can belong to multiple groups if the groups are all of the same type. Also note that when a station group is assigned to a group type (Hunt, ACD, VM, FS VM, VSF-VM, Net VM, UCS and Ring), the group attributes are initialized to the default values.

# 3.3.7.1 Station Group Assignment -PGM 190

Under Station Group Assignments the type, members and Pick-Up attribute are assigned to the Station Group. Note for the Net VM group, the network number must be assigned as the Net VM group member station. Refer to Table 3.3.7.1-1 for a description of the functions, the LCD displays and data entries required.

PROCEDURE:		
STATION GRP ASSIGN ENTER GRP NO(401-440)	1. Press the <b>[PGM]</b> button and dial 190.	
STATION GRP 401 F1:TYPE F2:PKUP F3:MEM	Use the dial pad to enter the desired Station Group numbe	
	Press the Flex button for the desired setting; refer to Table 3.3.7.1-1.	
	Use the dial pad to enter the desired Station Group data. Note for group members, enter a station or station range. For an individual station press the desired Flex button for the position of the station in the group and dial the station number. For a range, enter the first and last station number in the range.	
	Press the [Save] button to store the data entry.	

#### Table 3.3.7.1-1 STATION GROUP ASSIGNMENT (PGM 190)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	STATION GRP 401 CIRCULAR GROUP (00-10)	This entry defines the type of station group.	00: Not Assign 01: Circular 02: Terminal 03: UCD/ACD 04: RING 05: Ext VM 06: PICK-UP 07: VSF-VM 08: UMS 09: NET-VM 10:UCS Server	Not Assign
2	GROUP 401 PICK-UP (1:ON/0:OFF) : OFF	Stations can pick-up group calls ringing at other stations in the group. This does not apply to VSF groups.	0: OFF 1: ON	OFF
3	CIRCULAR GROUP 401	This entry assigns stations as members of a station group, or for Net VM, the Network number.		

# 3.3.7.2 Station Group Attributes – PGM 191

Each type of group has a different set of available attributes relating to announcements, timers, overflow, etc. Table 3.3.7.2-1 through Table 3.3.7.2-8 provides descriptions for the attributes, LCD displays and data entries required. The attributes for the Circular and Terminal Hunt groups are given in Table 3.3.7.2-1 and the UCD attributes include the ACD functions Table 3.3.7.2-2. In addition, there are no attributes for a group assigned as a Net VM group in PGM 190.

PROCEDURE:	
STATION GRP ATT ENTER GRP NO(401-440)	1. Press the <b>[PGM]</b> button and dial 191.
CIRC GRP 401 PRESS FLEX KEY (01-21)	Use the dial pad to enter the desired Station Group. The system will display the type of group from the Station Group Assignment PGM 190 data (Ex. 01 Circular).
	Press the Flex button for the desired attribute; refer to Table 3.3.7.2-1 to Table 3.3.7.2-8.
	Use the dial pad to enter the desired Group Attributes data, refer to Table 3.3.7.2-1 to Table 3.3.7.2-8.
	Press the [Save] button to store the data entry.

# Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CIRC 401 ANNC 1 TMR(1s) (000 - 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds 1 <sup>st</sup> Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
2	CIRC 401 ANNC 2 TMR(1s) (000 - 999) : 000	After the 1 <sup>st</sup> announcement, the 2 <sup>nd</sup> ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2 <sup>nd</sup> VSF announcement.	000~999 (seconds)	000

# Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS(PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	CIRC 401 ANNC1 LOC VSF ANNC (01 – 70)	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is the VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	CIRC 401 ANNC2 LOC VSF ANNC (01 – 70)	The Station Hunt Group can be assigned a 2 <sup>nd</sup> announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is the VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	CIRC 401 ANNC2 RPT TMR (000 - 999) : 000.	The 2 <sup>nd</sup> announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer. <b>NOTE</b> Repeating must be "ON" under button 6 below.	000~999 (seconds)	000
6	CIRC 401 ANNC 2 RPT (1: ON / 0: OFF): OFF	After the $2^{nd}$ announcement, if the call remains queued to the group, the $2^{nd}$ VSF announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF
7	CIRC 401 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or will pass to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	CIRC 401 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain at the last station in the group or can be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180

# Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS (PGM 191)

		(PGM 191)		
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	CIRC 401 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 (seconds)	002
10	CIRC 401 NO ANS TMR(1s) (00 – 99) : 15	Calls to a station in the group are directed to the station, if unavailable or unanswered in the NO Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
11	CIRC 401 PILOT HUNT (1 : ON/ 0: OFF) : ON	A circular/terminal hunt group can be set so that only calls to the pilot number (Station Group number) will hunt.	0: OFF 1: ON	ON
12	CIRC 401 RPT NO MEMBER (1 : ON/ 0: OFF) : OFF	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	0: OFF 1: ON	OFF
13	CIRC 401 MUSIC SRC (00–10) : 01	A Music source is assigned so that calls to the group receive audio from the source in place of ring- back tone.	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3	01
14	CIRC 401 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
15	MAILBOX MSG WAIT STA	When a group calls overflows or routes to the VM group, a station number is used to identify the Mailbox for the Circular group messages.	Station	
16	MAILBOX PASSWORD	The password associated with a group Mailbox is defined here. The password is used in conjunction with the Circular group as with a normal station.	12 digits	

# Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
17	CIRC 401 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 18 below.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
18	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 17 above.	0: OFF 1: ON	OFF
19	WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
20	GROUP NAME	A hunt group name can be designated.	20 character	
21	CIRC 401 MAX QUE C-CNT (00-99) : 99	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ACD 403 ANNC 1 TMR(1s) (000 – 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1 <sup>st</sup> Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
2	ACD 403 ANNC 2 TMR(1s) (000 – 999) : 000	After the 1 <sup>st</sup> announcement, a 2 <sup>nd</sup> ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2 <sup>nd</sup> VSF announcement.	000~999 (seconds)	000

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	ACD 403 ANNC1 LOC VSF ANNC (01–70)	Each Station Hunt Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is a VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	ACD 403 ANNC2 LOC VSF ANNC (01–70)	The Station Hunt Group can be assigned a 2 <sup>nd</sup> announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is a VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	ACD 403 ANNC2 RPT TMR (000 – 999) : 000	The 2 <sup>nd</sup> announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer. Note repeating must be "ON" under button 6 below.	000~999 (seconds)	000
6	ACD 403 ANNC2 RPT (1: ON / 0: OFF): OFF	After the 2 <sup>nd</sup> announcement, if the call remains queued to the group, the 2 <sup>nd</sup> VSF Announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF
7	ACD 403 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will then queue to the group or route to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	ACD 403 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain queued to the group or be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180
9	ACD 403 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Hunt Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 (seconds)	000

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	ACD 403 RPT NO MEMBER (1 : ON/ 0: OFF) : OFF	If a call is received and no members are on-duty, an ICM call will return re- order tone, while a CO/IP call will be routed to overflow destination.	0: OFF 1: ON	OFF
11	ACD 403 MUSIC SRC (00- 10) : 01	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone while in Queue.	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3	01
12	ACD 403 ACD WARN TONE (1 : ON/ 0: OFF) : OFF	An ACD supervisor can monitor agent conversations. A warning tone can be provided to the agent and connected party when the supervisor activates the monitor feature.	0: OFF 1: ON	OFF
13	ACD 403 ALTER DEST S/H/SPD (Dial 1-3)	When a call comes into the group and there are no group members available, the call will be routed to the assigned alternate destination.	1-3 (1:Station 2:Station group 3:System speed)	
14	ACD 403 SP-VISOR TMR (000-999) : 030	When calls have been in queue longer than the Supervisor Timer, the ACD supervisor is notified by a display of the longest queue time.	000~999 (seconds)	030
15	ACD 403 SP-VISOR C-CNT (00-99) : 00	When the number of calls in queue exceeds the Supervisor Call Counts, the ACD Supervisor is notified by a display of queued calls count.	00~99	00
16	WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
17	ACD 403 MAX QUE C-CNT (00-99) : 99	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
18	ACD 403 SUPERVISOR	Any valid IP Phone can be assigned as a Supervisor, max. 5 ACD Supervisors.	Station	

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	, DEFAULT
19	100 110 123 124 0 0 0 0	ACD Group members may be assigned a priority, 0-9. Members with the highest priority are sent calls ahead of lower priority members. This field is the same as PGM 112-button 16.	0~9	0
20	ACD 403 ACD_DND W_TMR (002-200) : 010	ACD agents are placed in the Wrap-up mode for the Wrap-up timer duration after call completion.	002~200 sec	010
21	ACD 403 ICLID USAGE (1:ON/0:OFF) : OFF	Within 5 seconds of a guaranteed announcement, the caller may dial digits as an ICLID. The User dialed digits are compared to the ICLID Table entries, PGM 203 for routing or, for a single dialed digit, to the ACD CCR table PGM 191 BTN 23.	0: OFF 1: ON	OFF
22	GROUP NAME	An ACD group name can be designated.	20 character	
23	ACD 403 CIQ ROUTE PRESS FLEX KEY (01-10)	CCR for ACD Calls-in-queue permits caller to re-route the call by dialing a single digit. The destination is assigned to Flex button 1 ~ 10 for digits 1 ~ 9 & 0.	FLEX 1 ~ FLEX 10	
23- 1~23- 10	ACD 403 CIQ ROUTE INPUT 1 : NOT ASSIGNED	When an ACD call is queued and the caller may exit this queue by entering one digit. The queued call can be routed to station, hunt, system-speed bin, or network station. Dial 1: Enter a station number. Dial 2: Enter a hunt group number. Dial 3: Enter a system speed bin. Dial 4: Enter a network station number.	-	-
24	ACD 403 ADDED ATTR PRESS FLEX KEY (01-24)	To select an ACD group "Added Attribute", press flex button 24, then select button 1~24 for the attribute desired.	FLEX 1 ~ FLEX 24	
24-1	ZAP TONE (1:ON/0:OFF) : OFF	Agents, using a headset can have ACD calls connected to them automatically preceded by a tone (Zap tone).	0: OFF 1: ON	OFF
24-2	MAILBOX MSG WAIT STN 	When an ACD call overflows or routes to the VM group, a station number is used to identify the Mailbox for the ACD group messages.	Station	
24-3	MAILBOX PASSWORD	The password associated with an ACD group Mailbox is defined here. The password is used in conjunction with the ACD group as with a normal station.	12 digits	

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	, DEFAULT
24-4	CIQ AGENT DISPLAY (1:ON/0:OFF) : OFF	When an ACD call is in queue, the Call in queue information can be displayed on LCD of agent and supervisor telephones.	0: OFF 1: ON	OFF
24-5	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 24-24 below.	0: OFF 1: ON	OFF
24-6	CIQ #1 THRESHOLD (00-99) : 10	If the queued call count exceeds the threshold, the system plays the CIQ #1 Announcement (button 7 below) to the CIQ #1 Page Zone (button 8 below) after the CIQ #1 Announcement Delay Timer (button 9 below). Announcements are repeated at intervals of the CIQ #1 Announcement Repeat Timer (button 10 below).	00-99	10
24-7	CIQ #1 ANNC LOC VSF ANNC (00-70)	VSF announcement number for the CIQ #1 Announcement.	00-70	
24-8	CIQ #1 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #1 Announcement.	00~15 or 00-40	00
24-9	CIQ #1 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #1 Announcement.	000-180	015
24-10	CIQ #1 ANNC REPEAT TMR (000-180) : 045	Interval for repeating the CIQ #1 Announcement.	000-180	045
24-11	CIQ #2 THRESHOLD (00-99) : 20	If the queued call count exceeds the threshold, the system plays the CIQ #2 Announcement (button 12 below) to the CIQ #2 Page Zone (button 13 below) after the CIQ #2 Announcement Delay Timer (button 14 below). Announcements are repeated at intervals of the CIQ #2 Announcement Repeat Timer (button 15 below).	00-99	20
24-12	CIQ #2 ANNC LOC VSF ANNC (00-70)	VSF announcement number for the CIQ #2 Announcement.	00-70	
24-13	CIQ #2 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #2 Announcement.	00~15 or 00-40	00
24-14	CIQ #2 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #2 Announcement.	000-180	015
24-15	CIQ #2 ANNC REPEAT TMR (000-180) : 025	Interval for repeating the CIQ #2 Announcement.	000-180	025

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-16	CIQ #3 THRESHOLD (00-99) : 30	If the queued call count exceeds the threshold, the system plays the CIQ #3 Announcement (button 17 below) to the CIQ #3 Page Zone (button 18 below) after the CIQ #3 Announcement Delay Timer (button 19 below). Announcements are repeated at intervals of the CIQ #3 Announcement Repeat Timer (button 20 below).	00-99	30
24-17	CIQ #3 ANNC LOC VSF ANNC (00-70)	VSF announcement number for the CIQ #3 Announcement.	00-70	
24-18	CIQ #3 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #3 Announcement.	00~15 or 00-40	00
24-19	CIQ #3 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #3 Announcement.	000-180	015
24-20	CIQ #3 ANNC REPEAT TMR (000-180) : 005	Interval for repeating the CIQ #3 Announcement.	000-180	005
24-21	CIQ MENT ON/OFF (1:ON/0:OFF) : OFF	If enabled, queued callers receive the CIQ message (You are # in queue) after the 1 <sup>st</sup> and 2 <sup>nd</sup> announcement.	0: OFF 1: ON	OFF
24-22	ACD NO ANS TMR (000-180) : 000	Calls to an agent in the group are directed to the station, if unanswered in the NO ANSWER TIMER, the call is routed to another agent.	000-180	000
24-23	ACD 403 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
24-24	ACD 403 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination, if enabled under button 24-5 above.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	RING 405 ANNC1 TMR(1s) (000 – 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1 <sup>st</sup> Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement). After the 1 <sup>st</sup> announcement, a 2 <sup>nd</sup>	000~999 (seconds)	015
	(000 – 999) : 000	ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	(seconds)	
3	RING 405 ANNC1 LOC VSF ANNC ( 01–70 )	Each Ring Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is a VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	RING 405 ANNC2 LOC VSF ANNC ( 01–70 )	The Ring Group can be assigned a 2 <sup>nd</sup> announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is a VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	RING 405 ANNC2 RPT TMR (000 – 999) : 000	The 2 <sup>nd</sup> announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer. Note repeating must be "ON" under button 6 below.	000~999 (seconds)	000
6	RING 405 ANNC2 RPT (1: ON / 0: OFF): OFF	After the 2 <sup>nd</sup> announcement, if the call remains queued to the group, the 2 <sup>nd</sup> VSF announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	RING 405 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group rings at member stations until the Overflow timer expires then the call passes to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	RING 405 OVERFLOW TMR (000 - 600) : 180	A call to a ring group will continue to ring stations in the group or be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180
9	RING 405 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Ring Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 (seconds)	022
10	RING 405 MUSIC SRC (00–10) : 01	A Music source is assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone.	00: Ring-back 01: Int music 02: Ext music 03: VSF MOH 04: SLTMOH1 05: SLTMOH2 06: SLTMOH3 07: SLTMOH4 08: SLTMOH5 09: VSFMOH2 10: VSFMOH3	01
11	RING 405 MAX QUE C-CNT (00-99) : 99	When the number of calls queued is reached, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
12	RING 405 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
13	MAILBOX MSG WAIT STA	When a group calls overflows or routes to the VM group, a station number is used to identify the Mailbox for the Ring group messages.	Station	
14	MAILBOX PASSWORD	The password associated with a group Mailbox is defined here. The password is used in conjunction with the Ring group as with a normal station.	12 digits	
15	RING 405 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 16 below.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	Enables the system to redirect group calls to the Forced destination defined under button 15 above. When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON 0: OFF 1: ON	OFF
18	GROUP NAME	A Ring group name can be designated.	20 character	

# Table 3.3.7.2-4 STATION GROUP ATTRIBUTES — EXTERNAL VM GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VM 407 WRAP-UP TMR (000 – 999) : 002	After terminating any call, the VM port will be maintained in a busy state for the duration of the WRAP- UP Timer.	000~999 (seconds)	000
2	VM 407 PUT MAIL INDEX (1 – 4) : 1	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Put Mail" dial code.	1~4	1
3	VM 407 GET MAIL INDEX (1 – 4) : 2	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, which contains the "Get Mail" dial code?	1~4	2
4	VM 407 HUNT TYPE (1 : CIR/ 0 : TERM): TERM	The type of Hunt process applied to the SLT ports connected to the VM can be assigned as Circular or Terminal.	0: TERM 1: CIRC	TERM
5	VM 407 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain queued to the group or be sent to the assigned OVERFLOW DEST after expiration of the OVERFLOW TMR.	000~600 (seconds)	180
6	VM 407 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or routes to the assigned OVERFLOW DEST.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
7	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 8 below.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	VM 407 FORCED DEST S/H/V/SPD (DIAL 1-4)	Enables the system to redirect group calls to the Forced destination defined under button 7 above.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
9	GROUP NAME	A hunt group name can be designated.	20 character	
10	VM 407 SERVER TYPE (0:IPCR/1:3RD) : 3RD	Server Type can set 3 <sup>rd</sup> or IPCR.	0: IPCR 1: 3RD	3RD
11	VM 407 SERVER NUMBER (01-10) :	Sever Number can set 01 ~ 10 for 237 table.	01-10	
12	VM 407 MEMBER TYPE (0:SIP/1:SLT) : SLT	Server Member can set SIP or SLT.	0: SIP 1: SLT	SLT
13	VM 407 SERVER CAPACITY (001-140) : 000	Maximum number of channels of SIP VM (UMS).	000-140	0

#### Table 3.3.7.2-4 STATION GROUP ATTRIBUTES — EXTERNAL VM GROUPS (PGM 191)

#### Table 3.3.7.2-5 STATION GROUP ATTRIBUTES — PICK-UP GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	PICK UP 408 AUTO PICKUP (1 : ON/ 0: OFF) : OFF	If a Pick-Up Group member is ringing, another member of the Pick-Up Group can Pick-Up a call ringing at another member by	0: OFF 1: ON	OFF
		simply going "off-hook".		
2	PICK UP 408 ALL RING (1 : ON/ 0: OFF) : OFF	When a call is offered to a member of the Pick-Up Group in the Tone Ring mode, all members will ring.	0: OFF 1: ON	OFF
		NOTE Auto Pickup, Button 1 must be "ON".		

#### Table 3.3.7.2-6 STATION GROUP ATTRIBUTES — VSF-VM GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VSF-VM 409 RETENSION (1d) (00 – 99) : 00	When voice messages are stored in the VSF, the system will maintain (store) the message for the maximum number of days set in this program (1 to 99 days). (Not used currently)	(day)	00

# Table 3.3.7.2-6 STATION GROUP ATTRIBUTES — VSF-VM GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	VSF-VM 409 DIAL TIME (1s) (00 – 99) : 15	This timer determines the inter-digit time employed during a VSF-VM session. If this timer expires while the VSF-VM is awaiting user input, the system will assume the remote party has disconnected and will return the channel to idle.	00-99 (seconds)	15
3	VSF-VM GROUP NAME	A VSF-VM group name can be designated.	20 character	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	UMS 410 ANNC 1 TMR(1s) (000 - 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1 <sup>st</sup> Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
2	UMS 410 ANNC 2 TMR(1s) (000 - 999) : 000	After the 1 <sup>st</sup> announcement, the 2 <sup>nd</sup> ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2 <sup>nd</sup> VSF announcement.	000-999 (seconds)	000
3	UMS 410 ANNC1 LOC VSF ANNC (01 – 70)	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is the VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
4	UMS 410 ANNC2 LOC VSF ANNC (01 – 70)	The Station Hunt Group can be assigned a 2 <sup>nd</sup> announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement	01~70	00: none
		location is the VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the		
5	UMS 410 ANNC2 RPT TMR (000 - 999) : 000.	announcement. The 2 <sup>nd</sup> announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer.	000~999 (seconds)	000
6		Note; repeating must be "ON" under button 6 below. After the 2 <sup>nd</sup> announcement, if the	0: OFF	OFF
	UMS 410 ANNC 2 RPT (1: ON / 0: OFF): OFF	call remains queued to the group, the 2 <sup>nd</sup> VSF announcement can be repeated at the Announcement Repeat Timer interval.	1: ON	011
7	UMS 410 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or routes to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	UMS 410 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain at the last station in the group or can be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180
9	UMS 410 NANS TMR(1s) (00 – 99) : 15	Calls to a station in the group are directed to the station, if unavailable or unanswered in the NO Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
10	UMS 410 PILOT HUNT (1 : ON/ 0: OFF) : ON	A FS VM group can be set so that only calls to the pilot number (station group number) will hunt.	0: OFF 1: ON	ON
11	UMS 410 ALTER DEST STA/HUNT	When a call comes into the group and there are no group members available, the call will be routed to the assigned Alternate Destination.	Station or Group Number	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
12	UMS 410 HUNT TYPE (1 : CIRC/ 0 : TERM): CIR	When a call is offered to the group, the Hunt process can be defined for Circular or Terminal	0: TERM 1: CIR	CIR
13	UMS 410 WRAP-UP TMR (002 – 999) : 002	hunt group. After terminating any call, the VM port will be maintained in a busy state for the duration of the WRAP-UP Timer.	002~999 (seconds)	002
14	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 15 below.	0: OFF 1: ON	OFF
15	UMS 410 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 14 above.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
16	GROUP NAME	A hunt group name can be designated.	20 character	

#### Table 3.3.7.2-8 STATION GROUP ATTRIBUTES — UCS SERVER GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	UCS SVR [411] ASSIGNED UC Server 1 (01–16)	UCS Server number, this value must be set to 1.	01-16	1

### 3.3.7.3 Pick Up Group Assignment – PGM 192

Under Pick-Up Group Assignments members are assigned to the Station Pick Up Group.

PROCEDURE:	
PICKUP GRP ASSIGN ENTER GRP NUM(00-49)	1. Press the <b>[PGM]</b> button and dial 192 and enter group number (Ex. 00).
PICKUP GRP 00	Use the dial pad to enter the desired Pickup Group. The system will display the member of pickup group.
	Note for group members, enter a station or station range. For an individual station press the desired Flex button for the position of the station in the group and dial the station number. For a range, enter the first and last station number in the range.
	Press the [Save] button to store the data entry.

# 3.3.8 ISDN LINE & ICLID ROUTING DATA – PGM 200-205

Each ISDN (Integrated Services Digital Network) Line provides digital services to the end-user. Basic Rate Lines have three (3) channels, 2 B channels and a D channel. The 2 B channels provide 64 Kbps each, a total of 128 Kbps for "Bearer" or voice channels. The D channel provides a 16 Kbps signaling channel. Primary Rate Lines have 23/30 64 Kbps 'B' channels and 1/2 64 Kbps signaling channels. For proper operation, entries are required for various attributes in PGM 200 ~ 202 to match the ISDN circuit and services from the PSTN.

# 3.3.8.1 ISDN Attributes – PGM 200

ISDN attributes define several characteristics of the ISDN interface. ISDN call cost services (Advice of Charge), CLI modification, voice encoding, and other characteristics of the interface are defined.

PROCEDURE:		
SYSTEM ISDN ATT PRESS FLEX KEY (1-3)	1. Press the <b>[PGM]</b> button and dial 200.	
	Press the Flex button for the desired Attribute; refer to Table 3.3.8.1-1.	
	Use the dial pad to enter the desired Attribute data.	
	Press the [Save] button to store the Attribute data entry.	

### Table 3.3.8.1-1 ISDN LINE ATTRIBUTES (PGM 200)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CO ATD CODE (2DGT) 	When the system is set to send the station number with ISDN CLIP or COLP, either the station number or this ATD code will be sent based on PGM 114 button 11.	1~2 digits	
2	CLI PRINT TO SERIAL (1:ON/0:OFF) : OFF	The ISDN Calling Line Id may be included in call records output over the serial port assigned for "Call Information", PGM 175 button 5.	0: OFF 1: ON	OFF
3	DISPLAY DID INFO (1:ON/0:OFF) : OFF	Display DID digit information on LCD and print it to serial port.	0: OFF 1: ON	OFF

## 3.3.8.2 CLIP/COLP Table – PGM 201

Normally, the system will send the primary Directory Number of the ISDN Line in the ISDN call SETUP and CONNECT messages to identify the caller (CLIP) or the answering (COLP) party respectively. Under certain circumstances, it may be desirable to provide a secondary or DID number for the ISDN Line. In these cases, the CLIP/COLP Table may be used to define the digits sent. The number sent is selected based on the index assigned for the ISDN Line under CO/IP Attributes III (PGM 143).

For the CLIP/COLP Table entry, the CLI Station Number (PGM 114) is sent in place of the station number. For all other CLIP/COLP Table entries, the station number is sent as a suffix to the number in the Table. Note that this number is sent only if CLIR and COLR are disabled under the CLIR Service and COLR Service assignments in the Station ISDN Attributes (PGM 114).

PROCEDURE:	
CLIP/COLP TABLE ENTRY ENTER BIN NO ( 00 –4 9 )	1. Press the <b>[PGM]</b> button and dial 201 and enter the bin number (Ex.00).
CLIP/COLP TABLE 00	Use the dial pad to enter the desired Bin number (00-49)
	Use the dial pad to enter the desired CLIP/COLP data, maximum 10 digits.
	Press the [Save] button to store the CLIP/COLP data entry.

# 3.3.8.3 MSN Table – PGM 202

When an ISDN Line assigned for DID operation, receives an incoming call, the call will be routed to a station based on the Flexible DID Table Index in the MSN Table.

PROCEDURE:	
MSN TABLE ATT ENTER BIN NO ( 001 – 500 )	1. Press the <b>[PGM]</b> button and dial 202 and enter the bin number (Ex.121).
MSN TABLE 121 PRESS FLEX KEY (1-3)	Use the dial pad to enter a MSN Table index number.
	Press the Flex button for the desired MSN Table entry; refer to Table 3.3.8.3-1.
	Use the dial pad to enter the desired Table data.
	Press the <b>[Save]</b> button to store the Table data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	MSN TABLE 121 CO RANGE	CO Line number associated with the MSN.		None
2	MSN TABLE 121 INDEX : NOT ASSIGNED	Index to the Flexible DID Table, PGM 231.	000~999	None
3	TABLE 121 TEL NUMBER	Telephone Number (called number)	23 Digits	None

#### Table 3.3.8.3-1 MSN ATTRIBUTES (PGM 202)

# 3.3.8.4 ICLID Route Table – PGM 203

The system can employ ICLID (Incoming Calling Line Id) to determine the routing of incoming external calls. Each CO/IP Line and ACD group may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table and, if a match is found, will route the call to the destination indicated by the index (bin) number of PGM 204.

PROCEDURE:	
ICLID ROUTE TABLE ATT ENTER BIN NO (001-250)	1. Press the <b>[PGM]</b> button and dial 203 and enter the bin number (Ex.001).
ICLID ROUTE TABLE 001 PRESS FLEX KEY (1-4)	To program ICLID Route table, dial Bin No (001 – 250).
	Press the Flex button for the desired ICLID Table entry; refer to Table 3.3.8.4-1.
	Use the dial pad to enter the desired Table data
	Press the <b>[Save]</b> button to store the Table data entry.

#### Table 3.3.8.4-1 ICLID ROUTE INDEX (PGM 203)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ROUTE TABLE 001 INDEX : NOT ASSIGNED	Index to the ICLID Ring Assignment Table PGM 204 that determines the call routing.	001~250	Not assigned
2	TABLE 001 ICLID NUMBER	ICLID (Incoming Caller Id) to match for the index. If the Caller Id matches the Table entry, the index is used to select the route from PGM 204.	24-digits 0 ~ 9 & '*' and '#' as a wild-card.	None
3	TABLE 001 ICLID NAME	ICLID name that is sent by the system to the destination for the ICLID routed call.	12.Character	None
4	TABLE 001 ICLID TONE	If the ICLID Number is matched with CID of caller, the Ring tone is followed this ICLID Tone.	2 digits.01~12	None

# 3.3.8.5 ICLID Ring Assignment – PGM 204

If the Incoming Caller ID matches an entry in the ICLID Route Table, the index from the Table is used to determine the call routing from the ICLID Ring Assignment Table. Separate ring assignments are made for Day, Night, and Timed Ring mode for each index, 001 to 250, in this table. When assigned to ring to a VSF announcement, the call can be automatically dropped after the announcement by entering '#' after the announcement number.

When CO Lines are programmed to Ring an external AA/VM, VSF or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

PROCEDURE:	
ICLID RING ASN TBL ATT ENTER BIN NO (001-250)	1. Press the <b>[PGM]</b> button and dial 204 and enter the bin number (Ex.001).
PRESS KEY DAY NIGHT TIMED-R	Use the dial pad to enter the Index or Bin number (001 – 250).
	Press the desired Flex button:
	Button 1: Day Ring
	Button 2: Night Ring
	Button 3: Timed Ring
	Use the dial pad to select the destination type:
	Dial 1: Station
	Dial 2: Hunt Group
	Dial 3: VSF Announcement
	Dial 4: AA Ring Time
	Use the dial pad to enter a value for the selected destination type.
	Press the <b>[Save]</b> button to store the data entry.

## 3.3.8.6 ISDN PPP Web Admin Attributes – PGM 205

In addition to remote access via an IP network connection, the system database may be accessed remotely via an ISDN connection. Placing a call over an ISDN Line to the designated PPP Station will provide a connection to the system database. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After matching id and password are entered, the iPECS Home page is provided and Web Admin is available as explained in section 4.

PROCEDURE:	
PPP ATTRIBUTES PRESS FLEX KEY (1-7)	1. Press the <b>[PGM]</b> button and dial 205.
	Press the desired Flex button; refer to Table 3.3.8.6-1.
	Used the dial pad to enter desired data, refer to Table 3.3.8.6-1 for appropriate entries.
	Press the <b>[Save]</b> button to store the data entry.

	Table 5.5.0.0-1 FFF ATTRIBUTES (FGW 205)			
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	PPP DEST STA 	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination, the system will automatically answer the call and request PPP ID and password.	Station number	None
2	PPP USER ID 1 likppp01	System accepts this PPP ID 1.	12 Character	likppp01
3	PPP PASSWORD 1 Ipkts01	The password entered is used to authorize PPP ID 1.	12 Character	lpkts01
4	PPP USER ID 2 likppp02	System accepts this PPP ID 2.	12 Character	likppp02
5	PPP PASSWORD 2 Ipkts02	The password entered is used to authorize PPP ID 2.	12 Character	lpkts02
6	PPP SERVER IP ADDR 10 .0 .0 .3	Operator can configure PPP Server IP Address with this option. To apply this option, system must be restarted.		10.0.0.3
7	PPP CLIENT IP ADDR 10 .0 .0 .2	Operator can configure PPP Client IP Address with this option. To apply this option, system must be restarted.		10.0.0.2

#### Table 3.3.8.6-1 PPP ATTRIBUTES (PGM 205)

#### 3.3.8.7 Prefix Dialing Table – PGM 206

With this table, three features can be supported.

- 1. Analog CO Call Charge with NPR metering.
- 2. SIP direct dialing with no wait inter-digit timer.
- 3. ISDN Prefix Call ISDN en-block Dialing with Prefix Call Setup.

If first some digits (up to 8 digits) of outgoing dial number are matched with Prefix Code of each table, this table can start work. By each CO-line (PGM 142 - F20), Table ID (0-6) can be set. This table ID (PGM 142 - F20) is associated with PGM 206 - each table ID.

PROCEDURE:		
PREFIX DIALING TABLES ENTER BIN NO (001-500)	1. Press the <b>[PGM]</b> button and dial 206 and enter the bin number (Ex.001).	
PREFIX TABLE 001 PRESS FLEX KEY(01-10)	Use the dial-pad to enter the Table index number (bin).	
Refer to Table 3.3.8.7-1 DISPLAY	2. Press the desired Flex button, refer to Table 3.3.8.7-1	
	Use the dial pad to enter desired data, refer to Table 3.3.8.7- 1	
	Press the [Save] button to store the data entry.	

#### Table 3.3.8.7-1 Prefix Dialing Table (PGM 206)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001 PREFIX CODE	Enter the Prefix code. (Max 8 digits)		
2	001 TABLE ID (0 - 6) : 0	Enter Table ID (0-6). 0 means NOT used.	0-6	0
3	001 MIN DIGIT (00 – 30) : 00	Select the minimum dial digits (00- 30)	00-30	00
4	001 MAX DIGIT (00 – 30) : 00	Select the minimum dial digits (00- 30)	00-30	00
5	001 NUM OF TYPE(0-6) UNKNOWN(0)	Select Number of Type (0~6). Unknown/International/National/ Network Spec/Subscriber/ Abbreviated /Reserved	0-6 (0:Unknown 1:International 2:National 3:Network Spec. 4:Subscriber 5:Abbreviated 6:Reserved)	UNKNOWN(0)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	001 NUM PLAN(0-6) UNKNOWN(0)	Select Numbering Plan (0~6). Unknown/ISDN/Data Numbering/Telex/National Standard/Private /Reserved	0-6 (0:Unknonw 1:ISDN/Telephony 2:Data numbering 3:Telex 4:National standard 5:Private 6:Reserved)	UNKNOWN(0)
7	001 SENDING COMPLETE (1:ON/0:OFF) : OFF	Select Sending Complete option. (On/Off)	0-1	OFF
8	001 CALL TYPE (0-5) UNKNOWN(0)	Call Charge Type (0~5). Unknown/Local/Long Distance/ International/Mobile/reserved	0-5 (0:Unknown 1:Local 2:Long Distance 3:International 4:Mobile 5:reserved)	UNKNOWN(0)
9	001 CALL TIMER(sec) (000 – 999) : 000	Call Charge Timer can be assigned. By this timer value Call Metering can be established.	000-999	000
10	PREFIX TABLE INIT PRESS [HOLD] TO INIT	Initialize Prefix table.		

Table 3.3.8.7-1 Prefix Dialing Table (PGM 206)

# 3.3.9 TABLES DATA – PGM 220 to 235

## 3.3.9.1 LCR Assignment Tables - PGM 220 to 223

The LCR Tables provide a mechanism to define the database, which will route outgoing calls, particularly long distance, using the most cost effective route. User dialed digits are compared to table entries and modified appropriately based on time of day, day of week, and assigned routes. There are four LCR Tables, LCR Control Attributes, LCR Leading Digit Table, LCR Digit Modification Table, and LCR Initialization Table.

### 3.3.9.1.1 LCR Control Attributes - PGM 220

The LCR Control Attributes, among others items, allows access to the LCR Access Mode assignments. The LCR Access Modes define the user operations that will access the LCR feature.

The LCR Access Modes are:

Mode 00:	LCR Disabled
Mode 01:	Loop (user dials '9' or CO/IP Group code (8xx) or presses a Loop button)
Mode 02:	Loop and Internal (user dials digits without a CO/IP Access Code prefix)
Mode 11:	Loop and Direct CO Line (user dialed CO Line Access Code, or presses {CO} button).
Mode 12:	Loop, Direct CO Line, and Internal
Mode 13:	Loop, Direct CO Line, Internal and Direct

In addition, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). Table 3.3.9.1.1-1 provides general descriptive information and input ranges.

- PROCEDURE:	
LCR CONTROL ATTRIBUTES PRESS FLEX KEY (1-5)	1. Press the <b>[PGM]</b> button and dial 220.
	Press Flex button 1~5, refer to Table 3.3.9.1.1-1.
	For LCR Access Mode and Time Zones, use the dial-pad to enter desired data and proceed to step 5). Refer to Table 3.3.9.1.1-1 for input ranges. For Day Zones press the Flex button 1~7 to select the day of week, Monday: Flex button 1 to Sunday: Flex button 7.
	For Day Zones, after selecting the desired day of week Flex button, use the dial pad to enter the desired zone, 1~3.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LCR ACCESS MODE (1-6) (M00) DISABLE LCR	This entry defines the effective LCR modes, the modes by which the user can access LCR.	M00: 1 M01: 2 M02: 3 M11: 4 M12: 5 M13: 6	1
2	DAY ZN 1:1234567 2: 3: M1 T2 W3 T4 F5 SA6 SU7	For each day of the week, a Day Zone (1 to 3) is assigned. The active Day Zone is the Zone assigned to the current day of the week (Flex button 1~7).	Flex 1~7 + 1~3	Zone 1: all days of the week
3	TIME ZONE 1 1:00-24 2: 3:	This entry defines the hours of the day during which Time Zone 1 is active. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
4	TIME ZONE 2           1:00-24         2: 3:	This entry defines the hours of the day during which Time Zone 2 is active.	00~24	00~24
5	TIME ZONE 3         1:00-24       2: 3:	This entry defines the hours of the day during which Time Zone 3 is active.	00~24	00~24

# Table 3.3.9.1.1-1 LCR CONTROL ATTRIBUTES (PGM 220)

#### 3.3.9.1.2 LCR Leading Digit Table — PGM 221

The Leading Digit Table is used to analyze the user-dialed digits to determine an appropriate Digit Modification Table Index. LDT Tables are provided for 32 LDT Table for iPECS-1200, 10 for the other systems. The Table is divided into bins. The applicable LCR Access Modes (LCR Type) and the digits (up to the first 12) to be compared with the number dialed by the user are entered in the Leading Digit Table bin. In addition, indices to the Digit Modification Table are defined for each Time Zone of each Day Zone; refer to LCR Control Attributes PGM 220.

Note the mode used to access LCR must match the LCR Type and must be within the effective LCR Access Mode assigned in PGM 220 to access the Digit Modification Table index. The allowed LCR Types are:

- CO Line or Loop access: User dials CO Line Access Code, CO/IP Group Access Code (8xx), Any CO Line Access Code '9', or presses a CO Line, CO/IP Group or Loop button.
- 2. **Internal**: User dials outgoing call while receiving Intercom dial tone with no CO/IP access code.
- 3. Both: Both COL and Internal.

In addition, each Leading Digit Table bin has the option to require an authorization code entry. When the user-dialed digits match an entry in the LCR Leading Digit Table, the system will check the Authorization option for the LDT Table bin. If the Authorization option is enabled, the user must enter a valid Authorization code to place the call.

PROCEDURE:	
LDT TABLE ENTER LDT TBL NO (01-10)	<ol> <li>Press the <b>[PGM]</b> button and dial 221 and enter LDT Table number (Ex.01).</li> </ol>
LDT 01 TABLE ENTER LDT BIN (000)	Enter the LDT Table number (Ex.000).
000 BOTH CD:	The system displays the first available bin (000~249) of the Leading Digits Table. To select a different bin, use the dial pad to enter the desired bin number.
	Press the desired Flex button (1~6), refer to Table 3.3.9.1.2- 1.
	Use the dial pad to enter the desired Leading Digit Table data, refer to Table 3.3.9.1.2-1.
	Press the <b>[Save]</b> button to store the data entry. Note, as the data is stored, the system sorts the LDT bins in ascending order to allow rapid "look-up" of data. Thus, the bin number will be changed appropriately.

		LCR LEADING DIGITS (PGM 22	1)	
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LDT 01/000 : LCR TYPE LCR MODE : BOTH (3)	This entry defines the LCR modes that will apply to this Leading Digit Table bin. To apply the DMT index, the LCR Type must be part of the LCR Mode defined in PGM 220.	1: Internal 2: CO Line 3: Both	Both
2	LDT 01/000 : LCR CODE	Up to 12 digits that, if matched by the user dialed digits, will access the DMT entry for the index assigned for the Day and Time zone below.	12 digits 0 ~ 9 and '*' as a wildcard	
3	LDT 01/000 : DAY 1 DMT INDEX(6DGT):	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 1. The appropriate index will be selected for the current Day and Time Zone. An entry of 6 digits (2 per Time Zone) must be entered.	00~99 3 DMT indices	
4	LDT 01/000: DAY 2 DMT INDEX(6DGT):	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 2. The appropriate index will be selected for the current Day and Time Zone. An entry of 6 digits (2 per Time Zone) must be entered.	00~99 3 DMT indices	
5	LDT 01/000: DAY 3 DMT INDEX(6DGT):	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 3. The appropriate index will be selected for the current Day and Time Zone. An entry of 6 digits (2 per Time Zone) must be entered.	00~99 3 DMT indices	
6	LDT 01/000: CHK PASSWORD (1:ON / 0:OFF) : OFF	If enabled (ON), when the dialed digits match the LDT table digits, the system will send second dial tone to request the user input a valid Authorization code.	0: OFF 1: ON	OFF

# 3.3.9.1.3 LCR Digit Modification Table — PGM 222

Using the index determined from the analysis of the LCR Leading Digits Table PGM 221, the dialed number is modified in accordance with the Digit Modification Table and sent over the CO/IP group assigned for the index.

Digits of the dialed number can be deleted based on the "Removal Position (RP)" and "Number of Remove digits (NR)" and a digit stream can be inserted in the resulting number. Counting from the first dialed digit, the Removal Position defines the location of the digit where removal begins and, NR defines the number of digits to remove. The "Add Digit Stream" is then inserted in the resulting number at the digit position assigned by the Add Position entry. The resulting number is then dialed over the CO/IP path assigned. If the assigned path is not available, the "Alternate DMT index" is used to determine the number and CO/IP path to be used.

Table 3.3.9.1.3-1 provides the displays, descriptions and entry ranges for the Digit Modification Table.

PROCEDURE:	
DMT TABLE ENTER DMT BIN (00-99)	1. Press the <b>[PGM]</b> button and dial 222 and enter DMT bin number (Ex.55).
55 A: RP01 NR00 AP01 CG01 AD	Using the dial pad enter the desired Digit Modification Table index.
	Press the Flex button (1~6) for the desired Table entry, refer to Table 3.3.9.1.3-1.
	Use the dial pad to enter the desired Digit Modification Table data, refer to Table 3.3.9.1.3-1.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	DMT 55 ADDED DGT	This entry defines the digit stream to insert in the number after digits are removed. Digits 0~9, '*', '#', and special characters: [HOLD]: timed Pause [DND]: Dial tone detect [FLASH]: Billing station number	25 digits	
2	DMT 55 REMOVAL POSITION (01-12) : 01	This entry defines the position of the digit where removal is to begin, starting with the 1st dialed digit (01).	01~12	01
3	DMT 55 NUM OF REMOVE DIGITS (00-12) : 00	This entry defines the number of digits to remove starting at the "Removal Position".	00~12	00
4	DMT 55 ADD POSITION (01-13) : 01	This entry defines the position in the number (after digits are removed) where the Add Digits are inserted.	01~13	01
5	DMT 55 CO/IP GROUP (01-21) : 01	This entry defines the CO/IP Group that the system will attempt to use for the call.	01~21	01
6	DMT 55 ALT INDEX (00-99) :	This entry defines an Alternate Digit Modification Table Index to use if no path is available in the assigned CO/IP Group.	00~99	

### Table 3.3.9.1.3-1 LCR DIGIT MODIFICATION (PGM 222)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	DMT 55 NET NUM PLAN BIN (000-251) :	This entry defines the Net Number Plan Table bin that the system will attempt to use for the transit out call.	000~251	
8	DMT 55 SMDR CODE 	This only used for TNET with CM. This code will be send to CM when the TNET status is changed from Local survival mode to bypass mode.	4 digit	

 Table 3.3.9.1.3-1 LCR DIGIT MODIFICATION (PGM 222)

# 3.3.9.1.4 LCR Table Initialize — PGM 223

The LCR Table Initialize allows global values to be assigned to the various Digit Modification Table entries. In addition, the LCR Leading Digits and LCR Digit Modification Tables can be initialized, no entries state.

PROCEDURE:	
INITIALIZE LCR DB PRESS FLEX KEY (1-6)	1. Press the <b>[PGM]</b> button and dial 223.
	Press the Flex button (1~6) for the desired Table entry, refer to Table 3.3.9.1.4-1.
	Use the dial pad to enter the desired LCR data, refer to Table 3.3.9.1.4-1.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.9.1.4-1 LCR TABLE INITIALIZE (PGM 223)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENTER DMT INIT VAL(DAY1)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 1.	00~99 3 DMT indices	
2	ENTER DMT INIT VAL(DAY2)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 2.	00~99 3 DMT indices	
3	ENTER DMT INIT VAL(DAY3)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 3.	00~99 3 DMT indices	
4	ENTER CO GRP INIT VAL	This entry permits the global setting of the CO/IP Group to be used for LCR calls.	01~21	
5	ENTER ALT INDEX INIT VA	This entry permits the global setting of the Digit Modification Alternate Index.	00~99	
6	INITIALIZE ALL LCR ?	Pressing <b>[Save]</b> will return the LCR LDT and DMT tables to the default (no entries) setting.		

#### 3.3.9.2 Toll Tables - PGM 224

There are five Toll restriction Tables and each has a pair of Table entries. Each pair consists of an Allow and a Deny entry. Allow and Deny entries for Table 'A' apply to Station and DISA Class of Service 2, 4 and 11. Allow and Deny entries for Table 'B' apply to Station and DISA Class of Service 3, 4 and 11. Allow and Deny entries for Table 'C' apply to Station and DISA Class of Service 5 and 6. Allow and Deny entries for Table 'D' apply to Station **and DISA Class** of Service 8, 10 and 11. Allow and Deny entries for Table 'E' apply to Station and DISA Class of Service 9, 10 and 11.

For each Table, there can be up to 50 separate Allow and Deny entries (total of 100) of up to 20 digits. Entries in the Tables can be any digit (0-9), "#" as a wild card (don't care) digit, or "\*" as an end of entry digit.

Based on Table entries, stations or DISA users are allowed or denied dialing specified numbers. The following rules apply to establishing restrictions based on the Table entries:

- If the appropriate Allow/Deny Table pair has no entries and COS is 2 to 4, or 8 to 9, no restrictions are applied. If the COS is 5 or 6, no Long Distance dialing is allowed.
- If entries are only made in the Allow Table, only those numbers entered can be dialed, all other dialed numbers will be restricted.
- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table, the number will be restricted otherwise the number can be dialed without restriction.

PROCEDURE:	
TOLL EXCEPTION TABLES PRESS FLEX KEY (01-10)	1. Press the <b>[PGM]</b> button and dial 224.
ALLOW TABLE A ENTER BIN NO (01-50)	Press Flex button 1~10: Button 1: Allow Table A Button 2: Deny Table A Button 3: Allow Table B Button 4: Deny Table B Button 5: Allow Table C Button 6: Deny Table C Button 7: Allow Table D Button 8: Deny Table D Button 9: Allow Table E Button 10: Deny Table E
	Use the dial-pad to select a bin number (01~50).
	Use the dial-pad to enter the dialed number desired (up to 20 digits). Use "#" as a wild card to represent any digit and, at the end of an entry, dial "*" to end the entry. To delete a Toll Table entry, press the <b>[SPEED]</b> button.
	Press the <b>[Save]</b> button to store the data entry.

## 3.3.9.3 Emergency Code Table – PGM 226

The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions. An Emergency Code number may be up to fifteen (15) digits in length.

PROCEDURE:	
EMERGENCY SVC CALL ENTER BIN NO (01 - 10)	1. Press the <b>[PGM]</b> button and dial 226 and enter the bin number (Ex.01).
	Use the dial-pad for the desired Emergency code entry, 01 ~ 10.
	Use the dial-pad to enter the Emergency code number. After entering the number dial "*", the number is displayed with an "E" indicating END of entry.
	Press the <b>[Save]</b> button to store the data entry.

## 3.3.9.4 Authorization Codes Table – PGM 227

Authorization codes are employed to control access to the system resources and facilities. Walking COS, CO/IP Group access, DISA callers, and certain Call Forward types may require input of a valid Authorization code. Codes up to 12 digits may be entered into the system database. The station has an associated Station Authorization bin, which can be assigned by the user from the user's telephone. The System Authorization codes are stored in System bins and are entered or deleted only through Admin.

PROCEDURE:	
AUTHORIZATION CODE F1:STA_AUTH F2:SYS_AUTH	1. Press the <b>[PGM]</b> button and dial 227.
	Press Flex button 1 or 2 to select the desired entry:
	Flex button 1 - Station authorization code
	Flex button 2 - System Authorization code
	For Flex button 1 enter a station range, enter the same station number twice for a single station entry.
	Then press Flex button 1 to set the password and Flex button 2 to set the COS (Day, Night and Timed).
	Use the dial-pad to enter the Authorization code or COS.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	AUTHORIZATION CODE ENTER STA RANGE	Authorization code for each station can be assigned up to 12 digits in length (enter STA range (Ex. 100110)).		
1-1	STATION AUTHORIZATION 100-110 :	Authorization codes for system-wide use can be assigned up to 12 digits in length.	100-239	
2	AUTHORIZATION CODE ENTER BIN NO(001-360)	Selects attribute, code or Class of Service.	001-360	
	SYSTEM AUTHORIZATION F1:SET_PWD F2:SET_COS	Press Flex button 1 or 2 to select the desired entry: Flex button 1 – Set Password Flex button 2 – Set class of service	Flex button1- 2	
2-1	SYSTEM AUTHORIZATION 001:	A password of up to 12 digits is defined.		
2-2	SET COS : F1:DAY F2:NIGHT F3:TIME	Establishes the COS associated with the System Authorization code during Day, Night and Timed Service modes.	Flex button1- 3	

Table 3.3.9.4-1 AUTHORIZATION CODES (PGM 227)

## 3.3.9.5 Customer Call Routing/VSF AA Table – PGM 228

The system incorporates IVR (Integrated Voice Response) capabilities called CCR (Customer Call Routing). After or during a VSF AA Announcement, a caller may dial a digit to select a destination or route for the call. The CCR/VSF-AA Routing Audio Text Table defines the destination associated with digits dialed by the caller in response to the VSF AA Announcement (01-70). Up to 70 single-level Audio Text menus may be assigned or, multi-level menu structures (maximum 70 levels) can be established using one menu as a destination for the previous level.

PROCEDURE:	
CUSTOM CALL ROUTING SELECT CCR TABLE (01-70)	<ol> <li>Press the <b>[PGM]</b> button and dial 228 and select CCR table (Ex.01).</li> </ol>
CCR TABLE 01 PRESS FLEX KEY (01-14)	Use the dial-pad to select a CCR Table index, 01~70. The index number 01-70 is the VSF Announcement number.

PROCEDURE:	
CCR TABLE 01 INPUT 1 : NOT ASSIGNED	<ul> <li>2. Press a Flex button (1~13, 10=0) to assign a route for the associated CCR dialed digit. (11~13 is assigned to busy, no answer, error destinations) <ul> <li>Flex button 01-10 is matched with input dial digit from outside user. The flex key number 10 is matched with dial digit 0.</li> <li>Flex button 11-13 is related with CCR re-route Busy / Error / No Answer destination – The destination type is Tone / Attendant / Hunt Group / VSF Announcement.</li> </ul> </li> <li>Flex button 14 is CCR One Digit Only option. If this option is set to ON, user can dial only one digit. If this option is set to OFF, user can dial more than one digit. That means CCR or DISA service can be possible.</li> </ul>
CCR TABLE 01 INPUT 1 :	Use the dial-pad to enter the Type and Value for Destination, refer to Table 3.3.9.5-1 for Type and value codes.
	Press the [Save] button to store the data entry.

### Table 3.3.9.5-1 CCR DESTINATIONS (PGM 228)

TYPE	DESCRIPTION	
01	Route to a Station	
02	Route to a Hunt Group	
03	Route with System Speed Dial	
04	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)	
05	Route to VSF Announcement	
06	Route to VSF Announcement and disconnect	
07	Route to Networked Station	
08	Conference Room	
09	Internal Page	
10	External page	
11	All Call Page	
12	Route to voice mail (station group/station number)	
13	Company Directory (USA Only)	
14	Record VM Greeting (USA Only)	

### 3.3.9.6 Executive/Secretary Table – PGM 229

Stations can be paired as Executive/Secretary pairs so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have only one Secretary however, a Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another however, assignments that form a loop-back are not allowed. In addition, when active, the Secretary can be assigned to receive the Executive's voice messages, refer to Station Attributes III PGM 113 button 10.

PROCEDURE:	
EXEC/SEC PAIRS ENTER BIN NO (01-36)	1. Press the <b>[PGM]</b> button and dial 229 and enter the bin number (Ex.01).
	Use the dial-pad to enter the desired Executive/Secretary pair bin.
	Press the desired Flex button; refer to Table 3.3.9.6-1.
	Press the [Save] button to store the data entry.

	TADIE 3.3.9.0-T EXECUTIVE/SECRETART PAIRS (PGIN 229)			1
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	EXEC/SEC PAIR 01 PAIR 1 : /	Assigns Executive/Secretary pair stations.		
2	CO CALL TO SEC (1:ON/0:OFF) : OFF	If desired, all incoming CO calls to the Exec. The call is routed to the Secretary's station regardless of the Executive's status.	0: OFF 1: ON	OFF
3	CALL EXEC IF SEC DND (1:ON/0:OFF) : OFF	If the Secretary is in DND, Executive calls can be routed back to the Executive.	0: OFF 1: ON	OFF
4	EXEC GRADE (01-12): 12	Higher (or equal) grade Executives can override the Executive/Secretary Forward feature (5 <sup>th</sup> : ICM call to SEC) to call a lower grade Executive. Highest grade: 01, Lowest grade: 12.	01~12	12
5	ICM CALL TO SEC (1:ON/0:OFF) : OFF	If this option is ON, all internal calls to the executive station (except for calls from higher or same grade executive) are routed to the Secretary's station regardless of the Executive's status. 8801 Default value Korea, India, Israel, Turkey, Thailand : ON / Otherwise : OFF	0: OFF 1: ON	OFF
6	SEC. AUTO ANS (1:ON/0:OFF) : OFF	When executive call to the secretary who is in 'T' mode. The call will be answered by hands free mode if it is ON.	0: OFF 1: ON	OFF
7	EXEC GROUP (00-50) : 00	If Group is greater than 1, it works that lower grade executive can call to higher grade executive directly when they are same group.	00-50	00

#### Table 3.3.9.6-1 EXECUTIVE/SECRETARY PAIRS (PGM 229)

## 3.3.9.7 Flexible DID Conversion Table – PGM 231

When the received DID digits are converted as in PGM 230, the resulting 4 digit number may be used as an index to the Flexible DID Conversion Table. The Flexible DID Table index is used when DID Line is assigned a Conversion type 2; refer to PGM 145 Flex button 2. Based on the index from PGM 230 and the system mode (Day, Night or Timed) a destination for the DID call is determined. The destination can be a VSF AA Announcement with CCR assigned allowing further routing of the call or can route using the ICLID routing tables.

PROCEDURE:		
FLEX DID CONV TABLE F1:INPUT F2:INIT F3:DEL	1. Press the <b>[PGM]</b> button and dial 231.	
FLEX DID CONV TBL INPUT ENTER BIN NO (0000-9999)	Select Flex button 1~3: Flex button 1: Input new data Flex button 2: Initialize Table Flex button 3: Delete entry	
	Enter the bin number (Ex.0001)	
TABLE BIN 001 PRESS FLEX KEY (1-9)	Use the dial pad to enter a Table index (0000~9999).	
	Press Flex button 1~9 to select the desired destination, refer to Table 3.3.9.7-1.	
	Use the dial pad to enter the desired type and value for the destination, refer to Table 3.3.9.7-2.	
	Press the <b>[Save]</b> button to store the data entry.	

### Table 3.3.9.7-1 FLEXIBLE DID CONVERSION (PGM 231)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TABLE 001 NAME	Name associated with the destination.	11 characters	
2	TABLE 001 DAY DEST NONE (01-15)	Destination setting for Day Ring mode.	01-15	
3	TABLE 001 NIGHT DEST NONE (01-15)	Destination setting for Night Ring mode. Table 3.3.9.7-2.	01-15	
4	TABLE 001 TIMED_R DEST NONE (01-15)	Destination setting for Timed Ring mode. Table 3.3.9.7-2.	01-15	
5	TABLE 001 REROUTE DEST NONE (01-15)	Destination setting for Reroute Dest mode. Table 3.3.9.7-2.	01-15	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	TABLE 001 USE ICLID (1:ON/O:OFF) : OFF	A DID Conversion Table index can be assigned to employ ICLID routing, section 3.3.8.4.	0: OFF 1: ON	OFF
7	TABLE 001 AUTO RING TBL (00-16),16:N/A) : 00	A DID Conversion Table Index can be assigned to employ an Auto ring mode table, section 3.3.9.9.	00-16	00
8	TABLE 001 MOH : (00-10) REFER TO CO HOLD(00)		Refer to CO Hold	
9	TABLE 001 RING TONE (00-12, 0:N/A) : 00	Ring tone of destination is followed this ring tone value.	2 digits. 01~12	00

## Table 3.3.9.7-1 FLEXIBLE DID CONVERSION (PGM 231)

### Table 3.3.9.7-2 FLEXIBLE DID DESTINATION (PGM 231)

TYPE	DESCRIPTION
01	Route to a Station
02	Route to a Hunt Group
03	Route with System Speed Dial
04	Route as PBX Transfer with System Speed Dial
	(Flash then dial speed dial digits)
05	Route to VSF AA Announcement
06	Route to VSF AA Announcement and disconnect
07	Route to a Networking Station
08	Conference Room
09	Internal Page
10	External page
11	All Call Page
12	Voice Mail Box Group
	Voice Mail Box Station
13	ICLID Ring Assignment Table
14	Company Directory
	(USA Only)
15	Record VM Greeting
	(USA Only)

## 3.3.9.8 System Speed Zone Table – PGM 232

The System Speed Dial numbers can be grouped into zones. Only stations allowed can access numbers within a zone, allowing System Speed Dials to be partitioned. Each zone can be assigned to apply the appropriate Station and CO Line COS for the Speed Dial number prior to dialing.

PROCEDURE:	
SYSTEM SPEED ZONE PGM ENTER BIN NO (01-10)	1. Press the <b>[PGM]</b> button and dial 232 and enter the bin number (Ex.01).
SYSTEM SPEED ZONE 1 F1:ZN F2:ST F3:TK F4:AK	Using the dial-pad, enter the zone number, 01~10.
	Press Flex button 1~3 for the desired zone characteristic, refer to Table 3.3.9.8-1.
	Using the dial pad, enter the desired data as indicated in Table 3.3.9.8-1.
	Press the <b>[Save]</b> button to store the data entry.

### Table 3.3.9.8-1 SPEED ZONE (PGM 232)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENTER NEW ZONE RANGE ZONE 1 : 2200- 4999	Speed Dial Bin range for zone.	2200-4999	2200-4999
2	ENTER STA RANGE ZONE 1 : 100 – 239	Station range for zone.	100-239	100-239
3	SPEED ZONE 1 TOLL CHK (1:ON/0:OFF) : ON	Assignment to apply toll restriction.	0: OFF 1: ON	ON
4	SPEED ZONE 1 AUTH CHK (1:ON/0:OFF) : ON	Speed Dial Authorization Check for zone.	0: OFF 1: ON	ON

### 3.3.9.9 Auto Ring Mode – PGM 233

The system can automatically select the Ring and COS Mode based on time of day and day of week. Three Ring and COS modes are supported, Day, Night, and Timed modes. The ring assignments are as defined in CO/IP Ring Assignment - PGMs 144. The COS assignments are defined in the DISA COS - PGM 166.

The start times for Day, Night and start and end times for timed modes are entered for each day of week. When the Timed mode ends, the system reverts to the appropriate mode based on the Day/Night settings and the time-of-day. The Attendant can override the automatic selection and select the desired system Mode (Day, Night, and Timed). A separate Auto Ring Table can be established for each ICM Tenancy Group - PGM 125 (indices 1 ~ 15) and for the system (index 00).

PROCEDURE:	
WEEKLY TIME TABLE DIAL DIGIT (00-15)	<ol> <li>Press the <b>[PGM]</b> button and dial 233 and enter Dial digit (Ex.00).</li> </ol>
WEEKLY TIME TBL 0 PRESS FLEX KEY (1-7)	Use the dial-pad to enter a tenant Table index or 00 for the system (00~15).
	Press the Flex button 1~7 for the desired day of week (Monday ~Sunday) followed by Flex button 1~3 for the desired ring mode (Day, Night, Timed), refer to Table 3.3.9.9-1.
	Use the dial-pad to enter a time (military time), 0000 to 2359.
	Press the [Save] button to store the data entry.

#### Table 3.3.9.9-1 AUTO RING MODE ASSIGNMENT (PGM 233)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	MON DAY-09:00 NITE-18:00 TDS: TDE:	Monday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
2	TUE DAY-09:00 NITE-18:00 TDS: TDE:	Tuesday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
3	WED DAY-09:00 NITE-18:00 TDS: TDE:	Wednesday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
4	THU DAY-09:00 NITE-18:00 TDS: TDE:	Thursday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
5	FRI DAY-09:00 NITE-18:00 TDS: TDE:	Friday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	SAT DAY-09:00 NITE-18:00 TDS: TDE:	Saturday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS: TDE:
7	SUN DAY-09:00 NITE-18:00 TDS: TDE:	Sunday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS: TDE:

 Table 3.3.9.9-1 AUTO RING MODE ASSIGNMENT (PGM 233)

## 3.3.9.10 Voice Mail Dialing Table – PGM 234

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

PROCEDURE:	
VOICE MAIL DIALING TBL DIAL DIGIT (1-9)	1. Press the <b>[PGM]</b> button and dial 234.
	Use <b>the dial-pad</b> to enter a table entry (1~9), refer to Table 3.3.9.10-1.
	Use the dial-pad to select Prefix or Suffix and the digit sequence, use the <b>[MSG/CALLBK]</b> button to enter a Pause, refer to Table 3.3.9.10-1.
	Press the <b>[Save]</b> button to store the data entry.

### Table 3.3.9.10-1 VOICE MAIL DIAL (PGM 234)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VOICE MAIL 1 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive call to record a message. Put Mail	1: Prefix 2: Suffix Any digits	P#
2	VOICE MAIL 2 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to playback recorded messages. Get Mail	1: Prefix 2: Suffix Any digits	P##
3	VOICE MAIL 3 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call while the user is busy. Busy Mail	1: Prefix 2: Suffix Any digits	P#*3P
4	VOICE MAIL 4 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call while the user is in DND. DND Mail	1: Prefix 2: Suffix Any digits	P#*4P

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	VOICE MAIL 5 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call when the user did not answer. No Answer Mail	1: Prefix 2: Suffix Any digits	P#*5P
6	VOICE MAIL 6 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call when a dialing error exists. Error Mail	1: Prefix 2: Suffix Any digits	P#*6P
7	VOICE MAIL 7 PREFIX OR SUFFIX (1-2)	It is reserved.	1: Prefix 2: Suffix Any digits	
8	VOICE MAIL 8 PREFIX OR SUFFIX (1-2)	It is reserved.	1: Prefix 2: Suffix Any digits	
9	VOICE MAIL 9 DISCONNECT [DIAL DGT_1]	Code sent when the voice mail is to disconnect a call. Disconnect Mail	1: Prefix 2: Suffix Any digits	****

Table 3.3.9.10-1 VOICE MAIL DIAL (PGM 234)

## 3.3.9.11 Registration & Fractional Module Table – PGM 235

When multiple iPECS eMG80 are located on the same LAN, it may be desirable to register addon devices employing the Registration Table.

PROCEDURE:	
REGISTRATION TBL ENTER TBL NO(1-5)	1. Press the <b>[PGM]</b> button and dial 235 and enter Table number (Ex.1).
REG TBL 1: NO MAC INFO MAX PORT : 00, DEV ID:	Use the dial-pad to select a Table entry (1~5).
	Press the desired Flex button; refer to Table 3.3.9.11-1.
	Use the dial-pad to enter the desired data, refer to Table 3.3.9.11-1.
	Press the <b>[Save]</b> button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TBL 1: SET MAC ADDR MAC 1:	Enter the MAC address of the device to register.		
2	TBL 1: SET MAX PORT NO OF PORT : 00	Enter maximum number of ports (channels) for the device. For a 00 entry the system will accept physical port number.	00-99	00

### Table 3.3.9.11-1 MAC REGISTRATION (PGM 235)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	TBL 1: DEVICE ID DEVICE ID :	Enter device ID when it has multiple device ID in Board/Gateway.	0-255	0 (N/A)

#### Table 3.3.9.11-1 MAC REGISTRATION (PGM 235)

## 3.3.9.12 Mobile Extension Table – PGM 236

A mobile phone can be used in conjunction with an iPECS Phone. The Mobile phone can access system resources available to the user's wired phone and will receive ring for incoming iPECS calls. The user may be allowed to enable the Mobile extension and define the mobile number. The system can be defined to employ a specific CO/IP Line Group to place calls to the Mobile phone.

The Mobile Extension Table also defines Notification of new VSF messages. When a new message is received for a user in the VSF, the system will call the assigned 'Tel Number' notifying the user of the new message.

PROCEDURE:	
MOBILE EXTENSION TABLE ENTER STA NUMBER	<ol> <li>Press the <b>[PGM]</b> button and dial 236 and enter STA number (Ex.100).</li> </ol>
100 : MOBIL EXT ATTR PRESS FLEX KEY (01-14)	Use the dial-pad to enter the desired station number.
	Press the Flex button for the desired item; refer to Table 3.3.9.12-1.
	Use the dial-pad to enter the required data.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.9.12-1 MOBILE EXTENSION (PGM 236)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100 : PGM AUTHORITY (1:ON/0:OFF) : OFF	The user may be allowed to activate the mobile extension feature.	0: OFF 1: ON	OFF
2	100 : USAGE DISABLE (0-2)	Mobile extension feature can be enabled and Fail Over to Mobile extension can be included	0: DISABLE 1: MOBILE EXT 2: FAIL OVER	DISABLE
3	100 : ACCESS CO GRP CO GRP : 01	CO group used to call (ring) the mobile extension.	01~20	01

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
4	100 : TEL NUMBER	Telephone number of the Mobile extension.		Not assigned
5	TABLE 001 CLI	When the mobile Telephone number and CLI do not match, the CLI entered here is used to authorize incoming calls from the mobile.		Not assigned
6	100 : HUNT CALL ENABLE (1:ON/0:OFF) : OFF	When the paired station is a member of a hunt group (ACD, Circular or Terminal), group calls can be sent to the active mobile extension.	0: OFF 1: ON	OFF
7	100 : VSF NOTIFY (1:ON/0:OFF) : OFF	Enables outbound notification by the system when the VSF has unheard messages.	0: OFF 1: ON	OFF
8	100 : NOTIFY RETRY CNT (1~9) : 3	Defines the number of attempts the system will make to complete a notification when receiving busy/no-answer.	1~9	3
9	100 : NOTIFY RETRY INT (1~3) : 3	Defines the time between notification attempts. If a notification fails, the system will retry after the timer expires.	1~3 (Minutes)	3
10	100 : NOTIFY BY MY CLI (1:ON/0:OFF) : OFF	When the system sends CLI to the mobile extension, the CLI can be either the original caller's CLI or the CLI of station.	0: OFF 1: ON	OFF
11	100 : CALL BACK (1:ON/0:OFF) : OFF	If it is set to "ON", incoming mobile extension call will be released before answered and system places a call to mobile extension. After mobile extension answers, the dial tone is provided and mobile extension can make internal or external call.	0: OFF 1: ON	OFF
12	100 : DELAY TIMER (000-255) : 000	Mobile extension call will be placed after delay time.	000~255	0
13	100 : ANNOUNCE (00-70) : 00	It can be announced for remote control.	0~70	0
14	100 : SUFFIX DID TBL T (1:ON/0:OFF) : OFF	It provide flexible DID table index when DID type 2 is used.	0: OFF 1: ON	OFF

## Table 3.3.9.12-1 MOBILE EXTENSION (PGM 236)

## 3.3.9.13 Hot Desk Attributes – PGM 250

A Hot Desk station allows a user to login for access to the system features and resources. Once logged in, the user is provided access to system features and resources employing the database for the user's assigned station.

PROCEDURE:	
HOTDESK ATTRIBUTE PRESS FLEX KEY (1-3)	1. Press the <b>[PGM]</b> button and dial 250.
	Press the desired Flex button; refer to Table 3.3.9.13-1.
	Use the dial-pad to enter the appropriate data.
	Press the [Save] button to store the data entry.

### Table 3.3.9.13-1 HOT DESK ATTRIBUTES (PGM 250)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NO OF AGENT (000-140) 000	Assign number of hot desk agents.	000-140	000
2	VIEW AGENT RANGE N/A	View the assigned station number for agents.		
3	AUTO LOGOUT TMR (hour) (00-24) : 00	A Hot desk station will return to inactive if the logged in user takes no action for the Auto Logout timer.	0~24 Hrs.	00

## 3.3.9.14 CO Call Rerouting – PGM 252

System can reroute incoming call to CO. If called number matched with compare digits of Table 252, the call are routed to Rerouting number.

PROCEDURE:		
CRR ATTRIBUTE PRESS FLEX KEY (1-3)	1. Press the <b>[PGM]</b> button and dial 252.	
	Press the desired Flex button; refer to Table 3.3.9.14-1.	
	Use the dial-pad to enter the appropriate data.	
	Press the <b>[Save]</b> button to store the data entry.	

### Table 3.3.9.14-1 CALL REROUTING ATTRIBUTES (PGM 252)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENABLE CRR (1:ON/0:OFF) : OFF	Enable CRR	0: OFF 1: ON	OFF
2	INIT CRR PRESS <b>[Save]</b> KEY	Initialize all data		
3	CRR ATTRIBUTES ENTER BIN NO (000-169)	If PGM 252-BTN1 is set 'ON', BTN3 is available. (Ex. enter the bin number 000)	000-169	
	CRR TABLE 000 PRESS FLEX KEY (1-4)	Press the desired Flex button, refer to Table 3.3.9.14-2	Flex button 1-4	

### Table 3.3.9.14-2 CRR TABLE ATTRIBUTES (PGM 252)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CRR 000 COMPARE CO GRP GRP NO (01-20) : 01	Enter group number for compare digits in incoming.	01-20	01
2	CRR 000 RECEIVE DGTS	Enter receive digits.		
3	CRR 000 CO+TEL NUMBER	Enter co group (or individual co, access co) plus telephone number.		
4	CRR 000 TYPE 	N/A : press digit '0' NET TYPE : '1' for transit out DISA TYPE : '2' for using DISA	0-2	N/A

## 3.3.9.15 Digit Conversion Tables – PGM 270

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

Each Table includes 200 entries of up to 16 digits; entries in the Tables can be any digit (01–15), or "\*", "#".

Each Index can be applied by Apply Option. (All/Station/CO line/Disable)

PROCEDURE:	
DIGIT CONVERSION TABLE ENTER TABLE NO (01–15)	1. Press the <b>[PGM]</b> button and dial 270 and enter the table number (Ex. 01).
01 DIGIT CONVERSION ENTER BIN NO (001–200)	2. Dial Digit Conversion Table Number (01–15) and enter the bin umber (Ex.001).
01/001 DIGIT CONV. PRESS FLEX KEY (01–17)	<ul> <li>3. Dial conversion Bin No (001–200).</li> <li>Flex 1: Apply Time Type</li> <li>Flex 2: Dialed Digit</li> <li>Flex 3: Unconditional Changed Digit</li> <li>Flex 4–6: Day/Night Timed Changed Digit</li> <li>Flex 7–15: LCR Time (Day/Time Zone Changed Digit)</li> <li>Flex 16 : Ring mode table</li> <li>Flex 17 : Apply Option</li> </ul>
	<ul><li>4. Use the dial-pad to enter the dialed number.</li><li>5. Press the [Save] button to store the data entry.</li></ul>

#### Table 3.3.9.15-1 DIGIT CONVERSION TABLE ATTRIBUTES (PGM 270)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01/001 APPLY T–TYPE (0–2): UNCONDITIONAL	The Apply time type to be applied when the dialed digit is dialed.	0: Unconditional 1: Follow DNT 2: Follow LCR	Unconditional
2	01/001 DIALED DIGIT	The dialed digits	Max. 24 digits	
3	01/001 UNCOND CHANGED	The dialed digits are converted to this digit stream unconditionally.	Max. 24 digits	
4	01/001 DAY CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is DAY.	Max. 24 digits	
5	01/001 NIGHT CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is NIGHT.	Max. 24 digits	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	01/001 TIMED CHANGED	The dialed digits are converted to this digit stream when Apply Time	Max. 24 digits	
	[]	type is 'FOLLOW DNT' and current ring mode is TIMED.		
7	01/001 D1/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 1.	Max. 24 digits	
8	01/001 D1/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 2.	Max. 24 digits	
9	01/001 D1/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 3.	Max. 24 digits	
10	01/001 D2/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 1.	Max. 24 digits	
11	01/001 D2/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 2.	Max. 24 digits	
12	01/001 D2/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 3.	Max. 24 digits	
13	01/001 D3/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 1.	Max. 24 digits	
14	01/001 D3/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 2.	Max. 24 digits	
15	01/001 D3/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 3.	Max. 24 digits	
16	01/001 RING MODE TBL (00–15) : 0	The dialed digits are converted according to the auto ring mode time.	00-15	0
17	01/001 APPLY OPTION (0–3): ALL	The Apply Option can be applied according to the caller.	0. All 1. Reserved 2. CO Line 3. Disable	All

#### Table 3.3.9.15-1 DIGIT CONVERSION TABLE ATTRIBUTES (PGM 270)

# 3.3.10 NETWORKING DATA – PGM 320 to 324

## 3.3.10.1 Network Basic Attribute – PGM 320

PROCEDURE:	
NET BASIC ATTRIBUTE PRESS FLEX KEY (1-8)	1. Press the <b>[PGM]</b> button and dial 320.
	Press the Flex button 1~8 for the desired setting, refer to Table 3.3.10.1-1.
	Use the dial-pad to enter the required data.
	Press the [Save] button to store the new data.

### Table 3.3.10.1-1 NETWORK BASIC ATTRIBUTE (PGM 320)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NET ENABLE (1:ON/:OFF) :OFF	Enable Networking function	0: OFF 1: ON	OFF
2	NET RETRY COUNT (00-99) :00	Not used.	00-99	00
3	NET CNIP ENABLE (1:ON/:OFF) :ON	The name of calling station is sent to the called system between iPECS eMG80. CNIP is displayed at called party stations display based on the programming.	0: OFF 1: ON	ON
4	NET CONP ENABLE (1:ON/:OFF) :OFF	Reserved for future usage.	0: OFF 1: ON	OFF
5	NET SIGNAL METHOD (1:FAC/:UUS) :FAC	Select the information element type for QSIG supplementary service message.	0: UUS 1: FAC	FAC
6	NET CAS ENABLE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF
7	NET VPN ENABLE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF
8	NET CC RETAIN MODE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF

## 3.3.10.2 Network Supplementary Attribute – PGM 321

PROCEDURE:	
NET SUPPLEMENTARY ATTR PRESS FLEX KEY (1-9)	1. Press the <b>[PGM]</b> button and dial 321.
	Press Flex button 1~9 for the desired setting, refer to Table 3.3.10.2-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.2-1.
	Press the [Save] button to store the new data.

## Table 3.3.10.2-1 NETWORK SUPPLEMENTARY ATTRIBUTE (PGM 321)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NET TRANSFER MODE (1:RERT/0:JOIN) :REROUT	Select type for Transfer and Call forward – Rerouting or Join	1: RERT 0: JOIN	REROUT
2	TCP PORT FOR BLF (9500-9999) :9500	TCP port for sending BLF message to BLF Manager	0000-9999	9500
3	UDP PORT FOR BLF (9500-9999) :9501	UDP port for sending BLF message to BLF Manager	0000-9999	9501
4	BLF MANAGER IP 0 .0 .0 .0	IP Address of BLF Server used only when iPECS is configured with LDK systems for Voice Networking		0.0.0.0
5	DURATION OF BLF STS (01-99) 100 mm sec : 10	Duration of BLF status message sending to BLF Server.	01-99 (msec)	10
6	MULTI CAST IP 0 .0 .0 .0	IP address of Multicast for BLF service.		0.0.0.0
7	NET TRANS FAULT RCL TMR (001-300)sec : 010	Network transfer fault recall timer to be used when no responses from other systems.	001-300 (seconds)	10
8	VOIP CALL REROUTE CO GR (00-20) : 00	SIP outgoing call is rerouted via alternative backup CO line when call is failed or there is no answer during 3 seconds.	00-20	00
9	BLF SERVICE USAGE (1:ON/:OFF) :ON	Enable/disable for BLF manager function.	0: OFF 1: ON	ON

## 3.3.10.3 Network CO LINE Attribute – PGM 322

PROCEDURE:	
NET COL ATTRIBUTE ENTER CO RANGE	1. Press the <b>[PGM]</b> button and dial 322 and enter CO range (Ex. 0101).
01-01 NET COL PGM PRESS FLEX KEY (1-2)	Use the dial-pad to enter the CO Range.
	Press the Flex button 1~2 for the desired setting, refer to Table 3.3.10.3-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.3-1.
	Press the [Save] button to store the new data.

### Table 3.3.10.3-1 NETWORK BASIC ATTRIBUTE (PGM 322)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-01 NET CO GRP ( 00 – 24 ) : 00	Networking CO group programming for Networking call.	00-24	00
2	01-01 NET CO TYPE (0:PSTN/1:NET) : PSTN	Select network CO Line Type	0: PSTN 1: NET	PSTN

## 3.3.10.4 NET Numbering Plan Table – PGM 324

PROCEDURE:	
NET NUM PLAN TABLE ENTER BIN NO (000-251)	1. Press the <b>[PGM]</b> button and dial 324 and enter bin number (Ex.001).
001 NET NUM PLAN TBL PRESS FLEX KEY (01 – 16)	Use the dial-pad to enter the 3-digit Table index (bin) number, 000 ~ 251.
	Press the Flex button, 1~16 for the desired setting, refer to Table 3.3.10.4-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.4-1.
	Press the [Save] button to store the new data.

### Table 3.3.10.4-1 NETWORK NUMBERING PLAN (PGM 324)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001 SYSTEM USAGE (0:NET/1:PSTN) : NET	Select system usage	0: NET 1: PSTN	NET
2	001 NUM PLAN CODE	<ul> <li>'*' means any digits can be inserted between 0 ~ 9.</li> <li>The digits followed by '#' are an internal station number.</li> </ul>	16 digits	
3	001 NUM PLAN CO GRP (00 - 24) :	'00' means an internal net station number	00-24	
4	001 CPN INFORMATION PRESS FLEX KY (1-4)	Flex 1: ISDN CPN INFORMATION Flex 2: (Flex button 1-4) 1: 00 CPN INFORMATION 01 2: 00 CPN INFORMATION 02 3: 00 CPN INFORMATION 03 4: 00 CPN INFORMATION 04	16 digits	
5	001 ALT SPD BIN (2000-4999) :	Alternative Dial Number (System SPD Bin) when the networking path has a fatal problem.	2000~4999	
6	DEST SYSTEM IP ADDR 0 .0 .0 .0	IP Address of destination MPB system only when iPECS eMG80 are configured for Voice Networking.		0.0.0.0
7	DEST SYSTEM PORT NO (0000-9999) : 5588	Port Number of destination system for Networking.	0000-9999	5588
8	001 DIGIT REPEAT (0:NO/1:YES): NO	When the number plan code (Flex 2) is for PSTN call or transit-call, this number code can be enveloped in SETUP message or not whether if this field is set or not.	0: NO 1: YES	NO

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	001 NET PSTN ENBLOCK (0:NO/1:YES) : NO	Choose "Transit-out Public Line" to En-block or Over-lap.	0: NO 1: YES	NO
10	001 CO ATD CODE CLI (1:ON/0:OFF) : OFF	Determine whether if Centralized ATD CLI is sent or not when slave system makes transit call.	0: OFF 1: ON	OFF
11	001 FIREWALL ROUTING (1:ON/0:OFF) : ON	Select IP address (Firewall IP address or Non-firewall IP address). If the destination system (VOIB) is in same VPN then Non-firewall IP address should be sent. Otherwise the firewall IP address should be sent. ON : Send firewall IP address OFF : Send Non-firewall (Internal) IP address	0: OFF 1: ON	ON
12	001 AUTHO CODE COS USE (0:NO/1:YES): NO	When there's a transit out call request from user of slave system by seizing CO line, apply COS according to the authorization code.	0: NO 1: YES	NO
13	001 SMDR DIAL HIDDEN (0:NO/1:YES): NO	Determine to display dialed digit of transit out call or not at the slave system; it can contain authorization code.	0: NO 1: YES	NO
14	001 NET PSTN CLI (0:NET/1:PSTN): NET	NET: Send network station number for CLI PSTN: Send full CLI (e.g., 02-450-1000)	0: NET 1: PSTN	NET
15	001 SITE NAME	It is comment field to set name of network site.	Max. 12 characters	
16	001 EMERGENCY RERTE TMR (00-10) : 00	When timer is '0': The reroute emergency call is not work. When timer is set '1'~'10': The reroute emergency call is activated after this timer. This is only work when PGM 112-18th is transit-out CO group.	00-10	00

## Table 3.3.10.4-1 NETWORK NUMBERING PLAN (PGM 324)

### 3.3.10.5 Network Feature Code Table – PGM 325

PROCEDURE:	
NET FEATURE CODE TBL ENTER BIN NO (01-20)	1. Press the <b>[PGM]</b> button and dial 325 and enter the bin number (Ex.01).
01 NET FEATURE CODE TBL PRESS FLEX KEY (1-2)	Use the dial-pad to enter the bin no.
	Press the Flex button 1~2 for the desired setting, refer to Table 3.3.10.5-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.5-1.
	Press the [Save] button to store the new data.

#### Table 3.3.10.5-1 NETWORK FEATURE CODE TABLE (PGM 325)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01 NET FEATURE CODE	Networking Feature Code programming for Networking paging call.	16 digits	
2	01 NET DEST NONE (1-6)	<ul> <li>Select network feature type (1-6) and dial associated number.</li> <li>INT PAGE ZONE (01-35)</li> <li>EXT PAGE ZONE : (1-1)</li> <li>ALL CALL PAGE ZONE : (1-3 : 1(INT), 2(EXT), 3(ALL))</li> <li>DOOR OPEN : 1~2</li> <li>Conference Room (1-9)</li> <li>Call park (01-19)</li> </ul>	1 : INT PAGE 2 : EXT PAGE 3 : ALL CALL PAGE 4: DOOR OPEN 5:Conference Room (1-9) 6:Call park (01- 19)	N/A

# 3.3.11 TNET (Centralized Networking) - PGM 330 ~ 336

In a Centralized Control TNET (Transparent Networking), remote devices may be registered to a Central MPB/MPB (CM) and to a Local MPB/MPB (LM). In this way, the CM maintains control of the remote device. Should the WAN connection between an LM and CM fail (2 second polling error), the LM will initiate operational control of the locally registered devices. Calls between the systems (CM & LM) can automatically shift to PSTN Modules registered with the LM for Fail-over operation. The configuration and characteristics of LMs and CM are configurable as is Fail-over operation.

## It will be supported in eMG80 2.0 version.

## 3.3.11.1 TNET Basic Attributes – PGM 330

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

PROCEDURE:	
TNET BASIC ATTRIBUTES PRESS FLEX KEY (1 – 1)	1. Press the <b>[PGM]</b> button and dial 330.
TNET ENABLE (1:ON/0:OFF) : OFF	Press Flex button 1.
	Use the dial-pad to enable or disable TNET, Central Control networking.
	Press the <b>[Save]</b> button to store the new data.

### 3.3.11.2 TNET CM Attributes – PGM 331

Each LM (Local MPB), which is part of a Central Control Network, must be defined with the IP Address of the CM (Central MPB) as well as the LM configuration data that will be sent to the CM at the time the LM registers with the CM. The port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM must be equal or less than the ports defined in the CM for the LM, see PGM 332, in order to register properly.

PROCEDURE:	
TNET CM ATTRIBUTES PRESS FLEX KEY (1 – 6 )	1. Press the <b>[PGM]</b> button and dial 331.
	Press the Flex button, 1~6 for the desired setting, refer to Table 3.3.11.2-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.11.2-1.
	Press the <b>[Save]</b> button to store the new data.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CM REGISTER REQ (1:ON/0:OFF) : ON	This field informs the LM to attempt registration with the CM. This field must be set to ON for proper registration.	0: OFF 1: ON	OFF
2	CM SERVER TYPE 0:LIK / 1:CM : LIK(0)	This field defines Central Call Manager type. (It is not used in version 5.0)	LIK or CM	LIK
3	CM IP ADDRESS xxx.xxx.xxx	This field defines the IP address of the CM that will be used by the LM.	IPv4 address	
4	CM IPKTS PORT (0001 - 9999) :5588	In the TNET environment, the IP KTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0000-9999	5588
5	CM TOTAL PORT (000 – 999) : 011	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or less than the port count in the CM for the LM devices.	000-999	000
6	POLLING COUNT (00 – 99) : 05	This field defines the maximum polling failures an LM considers a WAN fault.	00-99	05
7	POLLING INTERVAL (00 – 99) : 02	This field defines the interval time between LM to CM polling attempts.	00-99	02

#### Table 3.3.11.2-1 TNET CM ATTRIBUTES (PGM 331)

## 3.3.11.3 TNET LM ATTRIBUTES - PGM 332

The CM (Central MPB/MPB) must be programmed with the MAC and IP address of each LM (Local MPB) in the Centralized Control network as well as the maximum configuration of each LM. The port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM, sees PGM 331, must be equal to or less than the ports defined in the CM for the LM, in order to register properly. VoIP channels are needed to support RTP Packet relay or codec translation between other devices. The CO port count must include any VoIP channels required.

PROCEDURE:	
TNET LM ATTRIBUTES ENTER BIN NO(01-15)	1. Press the <b>[PGM]</b> button and dial 332.
TNET LM(01) ATTRIBUTES PRESS FLEX KEY (1- 4)	Use the dial pad to enter the bin number associated with the LM.
	Press the Flex button, 1~4 for the desired setting, refer to Table 3.3.11.3-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.11.3-1.
	Press the [Save] button to store the new data.

### Table 3.3.11.3-1 TNET LM ATTRIBUTES (PGM 332)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LM(01) MAC ADDRESS 0000000000000	This field defines the MAC address of the LM that will be part of the TNET environment and is used by the CM for authorization.	MAC address	
2	LM(01) IP ADDRESS xxx.xxx.xxx	This field displays the IP address of the LM.	IPv4 address	
3	LM(01) IPKTS PORT (0001 - 9999) :5588	In the TNET environment, the IP KTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0000-9999	5588
4	LM (01) TOTAL PORT (000 – 999) : 011	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or more than the available port count in the LM.	000-999	000
5	LM (01) MULTICAST IP 239.20.19.1	This field defines the multicast IP address that could be used in TNET branch site.	IPv4 address	

### 3.3.11.4 FoPSTN Attributes – PGM 333

The Fail-over function allows the systems in a Centralized Control network (TNET) environment to complete calls from system to system over a PSTN (analog or digital) line should the WAN connection to the CM fail. A CO Gateway/Board must be registered to the LM for local control and access CO services. Users may call others in the normal manner and the call is routed over CO facilities to the remote CM. When calls are directed to a DID line at the receiving system, the system will select a line from the assigned CO Group and dial the Tel Number with the station number dialed as the trailing digits.

PROCEDURE:	
FoPSTN ATTRIBUTES PRESS FLEX KEY (1–3)	1. Press the <b>[PGM]</b> button and dial 333.
	Press the Flex button 1~3 for the desired setting, refer to Table 3.3.11.4-1.
	For Flex button 1 enable or disable FO. For Flex button 2, press the <b>[Save]</b> button to reset the FO table. For Flex button 3, dial the table bin number to input data.
	For Flex button 3, use the dial-pad to enter the required data, refer to Table 3.3.11.4-1.
	Press the <b>[Save]</b> button to store the new data.

### Table 3.3.11.4-1 FAIL-OVER ATTRIBUTES (PGM 333)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENABLE FoPSTN (1:ON/0:OFF) : ON	This field is used to enable or disable Fail- over operation from the CM or LM.	0: OFF 1: ON	OFF
2	INIT FoPSTN TABLE PRESS <b>[Save]</b> KEY	This field is used to initialize the FO table.		
3	FoPSTN ATTRIBUTES ENTER BIN NO(000-199)			
3-1	FoPSTN 001 NUM PLAN xxxxxxxx	Station numbers associated with the remote system. A range can be indicated by using "*" to indicate the range.	Max 8 digits	
3-2	FoPSTN 001 CO GROUP GRP NO (00-24) : 01	This field defines the CO Group of the local system that will be used to place calls to the stations entered in the FO Numbering Plan, should WAN failure occur.		
3-3	FoPSTN 001 TEL NUMBER xxxxxxxxxxxxxxxxxxxxx	This field defines the telephone number the system should dial to place a call to the stations entered in the FO Numbering Plan, should Wan failure occur. An "*" may be entered as a wild-card to indicate insertion of the dialed station number.		

## 3.3.11.5 TNET LM External Contact Attributes – PGM 334

Each LM incorporates relay contacts, which can be employed as a Door Lock Release. The contact activates a 3<sup>rd</sup> party Door Lock Release mechanism activated by dialing the Door Unlock code at a local station. Note assigning other functions to the contact may cause unexpected operation.

PROCEDURE:		
TNET LM EXT CONTACT ENTER BIN NO (01-15)	1. Press the <b>[PGM]</b> button and dial 334.	
LM(01) EXT CONTACT PRESS FLEX_KEY (1-4)	Select LM number	
	Select Flex button 1~4 for the desired External Control contact.	
	Use the dial-pad to enter desired data.	
	1. LBC + station number, (ex. 150)	
	2. Door Lock Release	
	3. External Page 1 access	
	4. External Page 2 access	
	Press the <b>[Save]</b> button to store the External Contact data entry.	

## 3.3.11.6 TNET LM Music Attributes – PGM 335

The CM does not provide BGM/MOH to an LM. The LM employs local BGM and MOH facilities, which reduces traffic load on the WAN and IP channel processors. The LM uses IP Multicast for local BGM and MOH transport.

PROCEDURE:	
TNET LM MUSIC ATTR ENTER BIN NO (01-15)	1. Press the <b>[PGM]</b> button and dial 335
MUSIC ASSIGN PRESS FLEX_KEY (1-3)	Select LM number
Refer to Table 3.3.11.6-1 DISPLAY	Select the desired Flex button; refer to Table 3.3.11.6-1.
	Use the dial-pad to select the desired Music Source, refer to Table 3.3.11.6-1.
	To save the Music Source, press the <b>[Save]</b> button.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	BGM TYPE (0-3)	Assigns the source for BGM.	00: Ring-back 01: Int music	Music 1
	MUSIC 1 (1)	2011	02: Ext music	
			03: VSF MOH	
			04: SLTMOH1	
			05: SLTMOH2	
			06: SLTMOH3	
			07: SLTMOH4	
			08: SLTMOH5	
			09: VSFMOH2	
			10: VSFMOH3	
2		Assign the source for	00: Ring-back	Music 1
	MOH TYPE (0-3)	MOH.	01: Int music	
	MUSIC 1 (1)		02: Ext music	
			03: VSF MOH	
			04: SLTMOH1	
			05: SLTMOH2	
			06: SLTMOH3	
			07: SLTMOH4	
			08: SLTMOH5	
			09: VSFMOH2	
			10: VSFMOH3	
3	INT/EXT1 MUSIC	Assigns the input for	0: Internal	Internal
	(0:INT/1:EXT1): INT	source 1 (Internal or	1: Ext. Music 1	
		External)		

### Table 3.3.11.6-1 MUSIC SOURCES FOR MOH & BGM (PGM 335)

## 3.3.11.7 TNET LM Alarm Attributes – PGM 336

The LM incorporates circuitry to monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the monitoring circuitry. For the Alarm, the signal to the LM stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates.

PROCEDURE:	
TNET LM ALARM ATTR ENTER BIN NO (01-15)	1. Press the <b>[PGM]</b> button and dial 336.
LM(01) ALARM ATTR PRESS FLEX KEY (1-4)	Select LM number
	Press the desired Flex button; refer to Table 3.3.11.7-1.
	Use the dial-pad to enter desired data for the attribute, refer to Table 3.3.11.7-1.
	Press the <b>[Save]</b> button to store the data entry.

### Table 3.3.11.7-1 ALARM ATTRIBUTES (PGM 336)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ALARM ENABLE (1:ON/0:OFF) : OFF	This parameter enables the external contact monitoring circuitry.	0: OFF 1: ON	OFF
2	ALARM CONTACT TYPE (1:CLOSE/0:OPEN) : CLOSE	This parameter establishes the contact state that will activate the Alarm, close or open.	0: Open 1: Close	CLOSE
3	ALARM/DOORBELL MODE (1:ALARM/0:BELL): ALARM	The contact can be treated to function as a doorbell instead of an alarm.	0: Bell 1: Alarm	ALARM
4	ALARM SIGNAL MODE (1:RPT/0:ONCE) : RPT	The assigned stations will receive a Repeating signal or single burst (ONCE) of alarm tone.	0: Once 1: Repeat	RPT

# 3.3.12 Zone Data - PGM 436 - 441, 444

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

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If iPECS devices are separated by a NAPT server or direct peer-to-peer communications is not available, packet relay must be employed to assure communication. In packet relay, RTP packets are received by a local VoIP channel (MPB or VOIB), which is under control of the MPB, and the IP address is translated from a public to the device's private address. The VoIP channels implement a secure channel using IPSec protocol. Devices can be assigned as part of an "RTP Relay group" to use the same VoIP channels to implement relay of RTP packets. Packet relay groups also provide for conversion of multi-cast packets from the MPB to uni-cast and back again at the group level to multi-cast. Note packet relay requires an MPB or VoIP channel be available locally for each simultaneous call that requires packet relay. Programs 436 to 441 define device zone assignments and zone configurations. These programs are available only in Web admin. Holiday and Vacation assignments for each zone are defined in Program 444.

## 3.3.12.1 Zone Holiday Assignment – PGM 444

Holidays and vacation day intervals for each zone can be established to define a specified Service mode (Day, Night, and Timed) Up to 40 holidays and 5 vacation intervals can be defined.

PROCEDURE:	
ZONE HOLIDAY ASSIGNMENT ENTER BIN (01-32)	<ol> <li>Press the [PGM] button and dial 444 and enter the bin number (Ex.01).</li> </ol>
ZONE(01) HOLIDAY ATTR PRESS FLEX KEY (1-3)	Use the dial-pad to enter the bin (Zone) number (01~32).
	Press the Flex button, $1 \sim 3$ , for the desired setting, refer to Table 3.3.12.1-1.
	Use the dial pad to enter the required data, refer to Table 3.3.12.1-1.
	Press the [Save] button to save any changes.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ZONE(01) RING MODE(0-3) TIMED-R	Enter the desired Service mode for the Holiday or Vacation.	0 -3 0: DAY 1: NIGHT 2: TIMED 3: N/A	TIMED
2	ZONE(01) VACATION ENTER BIN NO(1-5)	Assign a date range for the vacation entering the start and end dates as yymmdd - yymmdd.	12 digits	None
3	ZONE(01) HOLIDAY ENTER BIN NO(01-40)	Assign a date for the holiday for the Zone as MMDD.		None

#### Table 3.3.12.1-1 ZONE HOLIDAY ASSIGNMENT (PGM 444)

## 3.3.13 GREEN MODE

The system can disable the power of a Digital Phone or SLT (Single Line Telephone) installed in the system at night or during holiday mode. The power On/Off can be controlled by Web Admin manually or automatically according to the assigned power On/Off time.

### 3.3.13.1 Green mode activation – PGM 500

It is applied for SLIB, DSIB and HYIB.

PROCEDURE:	
GREEN MODE ACTIVATION PRESS FLEX KEY (1-4)	1. Press the <b>[PGM]</b> button and dial 500.
	Press the Flex button, $1 \sim 4$ , for the desired setting, refer to Table 3.3.13.1-1.
	Use the dial pad to enter the required data, refer to Table 3.3.13.1-1.
	Press the [Save] button to save any changes.

### Table 3.3.13.1-1 GREEN MODE ACTIVATION (PGM 500)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	POWER SAVE USAGE (1:EN/0:DIS) : DISABLE	Enable or Disable power usage.	0: Disable 1: Enable	DISABLE
2	POWER ON/OFF (1:ON/0:OFF) : ON	Power ON/OFF manually all of stations in Power Save used board.	0: OFF 1: ON	ON
3	POWER SAVE MODE PRESS SLOT BTN (F1-F6)	Enables or Disables Power Save Usage Mode of each board.	Flex button1-6	
4	POWER CURRENT STATE CHECK SLOT BTN (F1-F6)	Displays the current status of board power ON/OFF.	Flex button1-6	

## 3.3.13.2 Green mode time setting – PGM 501

It is applied for SLIB, DSIB and HYIB.

PROCEDURE:	
GREEN MODE TIME ENTER WEEK DAY NO (1-7)	<ol> <li>Press the [PGM] button and dial 501 and enter the day from 1 to 7 by dial pad (Ex.1).</li> </ol>
(MON) GREEN MODE TIME F1:ON TIME F2:OFF TIME	Press the desired Flex button 1 or 2.
	Press the Flex button, $1 \sim 2$ , for the desired setting, refer to Table 3.3.13.2-1.
	Use the dial pad to enter the required data, refer to Table 3.3.13.2-1.
	Press the <b>[Save]</b> button to save any changes.

### Table 3.3.13.2-1 GREEN MODE TIME (PGM 501)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	POWER ON TIME (HH:MM) NOT ASSIGNED	Enable power on time		Not assigned
2	POWER OFFIME (HH:MM) NOT ASSIGNED	Enable power off time		Not assigned

## 3.3.14 INITIALIZATION — PGM 450

The system has been pre-programmed with certain features, which are based on the default database. The defaults are loaded into memory when the system is initialized. The system should always be initialized when installed or the database is suspected of being corrupt. The system can be initialized manually during installation, refer to the *iPECS eMG80 Hardware Description* & Installation Manual.

This program allows all or any of several distinct portions or the database to be initialized, returned to default.

PROCEDURE:	
INITIALIZATION PRESS FLEX KEY (01-17)	1. Press the <b>[PGM]</b> button and dial 450.
	Select a Flex button to initialize the desired data, refer to Table 3.3.14-1.
	Press the <b>[Save]</b> button, the selected data is initialized and confirmation tone is received.

#### Table 3.3.14-1 INITIALIZATION DATA (PGM 450)

BTN	DISPLAY	REMARK
1	INITIALIZATION FLEX NUM PLAN	It will initialize numbering plan.
2	INIT STATION DATA STATION DATA(ENT STA RNG)	It will initialize station attributes for selected stations.
3	INIT COL DATA COL DATA(ENT COL RNG)	It will initialize CO line attributes for selected CO lines.
4	INIT COL DATA SYSTEM DATA	It will initialize system attributes.
5	INITIALIZATION STATION GROUP	It will initialize hunt attributes.
6	INITIALIZATION ISDN TABLES	It will initialize ISDN related attributes. (MSN/Flexible DID, COLP, DID conversion)
7	INITIALIZATION SYSTEM TIMER	It will initialize system timer attributes.
8	INITIALIZATION TOLL TABLES	It will initialize toll tables.

BTN	DISPLAY	REMARK
9	INITIALIZATION LCR DATA	It will initialize LCR attributes.
10	INITIALIZATION OTHER TABLES	It will initialize miscellaneous tables. (Exec/Sec, CCR, Prefix, Authorization code, Auto ring mode, VM prefix, System SPD Zone, Multicast table, Mobile Extension)
11	INITIALIZATION FLEX BUTTON	It will initialize flexible button and DSS/LSS.
12	INITIALIZATION NET DATA	It will initialize networking attributes.
13	INITIALIZATION ALL DATA	It will initialize all programs.
14	SYSTEM RESTART RESTART NOW	It will restart the MPB.
15	UNUSED	
16	INITIALIZATION PERSONAL GROUP	It will initialize Personal Group.
17	INITIALIZATION Default password *	It will initialize(remove) password if it is *

Table 3.3.14-1 INITIALIZATION DATA (PGM 450)

# 3.3.15 PRINT-OUT DATABASE — PGM 451

The system can output all or portions of the system database in order to provide a 'hard-copy'. The data is output over the appropriate Serial port (Serial 1 or Serial 2).

PROCEDURE:	
DATABASE PRINT OUT PRESS FLEX KEY (01-22)	1. Press the <b>[PGM]</b> button and dial 451.
	Select Flex button 1~22 to output the desired data, refer to Table 3.3.15-1.
	For Station, Station Flex buttons, and CO/IP line data, use the dial pad to enter the desired range for stations or CO/IP lines, or for all skip this step.
	Press the <b>[Save]</b> button, after output, confirmation tone is heard.

BTN	DISPLAY	REMARK
1	DATABASE PRINT OUT FLEX NUM PLAN	
2	DATABASE PRINT OUT IP SETTING PLAN	
3	DATABASE PRINT OUT STA DATA(ENT STA RNG)	A station range must be entered to output the Station data.
4	DATABASE PRINT OUT COL DATA(ENT COL RNG)	A CO/IP line range (01~21) must be entered to output CO/IP data.
5	DATABASE PRINT OUT SYSTEM DATA	
6	DATABASE PRINT OUT STATION GROUP	
7	DATABASE PRINT OUT ISDN TABLES	
8	DATABASE PRINT OUT SYSTEM TIMER	
9	DATABASE PRINT OUT TOLL TABLES	

### Table 3.3.15-1 DATABASE PRINT OUT (PGM 451)

BTN	DISPLAY	REMARK
10	DATABASE PRINT OUT LCR DATA	
11	DATABASE PRINT OUT OTHER TABLES	
12	DATABASE PRINT OUT NATION SPECIFIC	
13	DATABASE PRINT OUT FLX BTN(ENT STA RNG)	A station range must be entered to output the Station Flex button data. Data may be output in 20 or 10 character format, see Flex button 17 below.
14	DATABASE PRINT OUT ALL DATA	
15	DATABASE PRINT OUT LCD PRINT(0-2):NORMAL 24	
16	DATABASE PRINT OUT TO QUIT PRESS <b>[Save]</b>	
17	STRING LENGTH (1:20/0:10): 20(CHAR)	The Station Flex button print out can be provide in a 20 or 10 character format, default is 20 characters.
18	DATABASE PRINT OUT BOARD ATTRIBUTES	
19	DATABASE PRINT OUT NETWORKING TABLE	
20	DATABASE PRINT OUT HOTEL DATA	
21	FLEX BTN LCD PRINT STR LEN(0-1): 20	Print out strings those are used in flexible button to display the content.
22	WORKING LCD PRINT	Print out strings those are used to activate some features.

## Table 3.3.15-1 DATABASE PRINT OUT (PGM 451)

## 3.3.16 VIRTUAL TRACE DIP-SWITCH — PGM 452

The Virtual Trace Dip-switch is used to enable and disable traces for various functions as defined in Table 3.3.16-1.

PROCEDURE:	
VIRTUAL TRACE DIP SW PRESS FLEX KEY (01-22)	1. Press the <b>[PGM]</b> button and dial 452.
	To enable trace, press the desired trace button 1-9. The Flex button LEDs indicate trace setting, On/Off, press the desired Flex button to toggle Trace Enable,
	LED on: trace enable LED off: trace disabled.
	To enable selected trace settings, press the [Save] button.

#### Table 3.3.16-1 VIRTUAL TRACE DIP-SWITCH (PGM 452)

		UAL TRACE DIP-SWITCH (PG	JIVI 432)	
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VIRTUAL TRACE DIP SW CALL TRACE : (OFF)	'Call Trace' is enabled for output.	0: OFF 1: ON	OFF
2	VIRTUAL TRACE DIP SW VOIP TRACE : (OFF)	VoIP Trace is enabled for output.	0: OFF 1: ON	OFF
3	VIRTUAL TRACE DIP SW HTTP TRACE : (OFF)	HTTP Trace is enabled for output.	0: OFF 1: ON	OFF
4	VIRTUAL TRACE DIP SW MULTICAST TRACE : (OFF)	Multicast Data (normally registration data between MPB and local mode device) Trace is enabled for output.	0: OFF 1: ON	OFF
5	VIRTUAL TRACE DIP SW CTI TRACE : (OFF)	CTI Device Trace is enabled for output.	0: OFF 1: ON	OFF
6	VIRTUAL TRACE DIP SW RAW DATA TRACE : (OFF)	Detailed Data Trace is enabled.	0: OFF 1: ON	OFF
7	VIRTUAL TRACE DIP SW MPMP TRACE: (OFF)	MPB to MPB Data Trace is enabled for output.	0: OFF 1: ON	OFF
8	VIRTUAL TRACE DIP SW CPU RE TRACE: (OFF)	CPU Redundancy Data Trace is enabled for output. It is not used.	0: OFF 1: ON	OFF
9	VIRTUAL TRACE DIP SW MISU/VMIU TRACE:( OFF)	MISU/VMIU Trace is enabled for output.	0: OFF 1: ON	OFF
10	VIRTUAL TRACE DIP SW DSP TRACE (OFF)	DSP Trace is enabled for output.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
11	VIRTUAL TRACE DIP SW SIP TRACE (OFF)	SIP Trace is enabled for output.	0: OFF 1: ON	OFF
12	VIRTUAL TRACE DIP SW ISDMR TRACE (OFF)	ISMDR Trace is enabled for output.	0: OFF 1: ON	OFF
13	VIRTUAL TRACE DIP SW SIP MSG TRACE (OFF)	SIP MSG Trace is enabled for output.	0: OFF 1: ON	OFF
14	VIRTUAL TRACE DIP SW FULL SIP TRACE (OFF)	FULL SIP Trace is enabled for output.	0: OFF 1: ON	OFF
15	VIRTUAL TRACE DIP SW HOTEL TRACE (OFF)	Hotel trace is enabled for output.	0: OFF 1: ON	OFF
16	VIRTUAL TRACE DIP SW SIP EXT TRACE (OFF)	SIP EXT Trace is enabled for output.	0: OFF 1: ON	OFF
17	VIRTUAL TRACE DIP SW DEBUG TRACE (OFF)	DEBUG Trace is enabled for output.	0: OFF 1: ON	OFF
18	VIRTUAL TRACE DIP SW IPATD TRACE (OFF)	IPATD Trace is enabled for output.	0: OFF 1: ON	OFF
19	VIRTUAL TRACE DIP SW ISDN TRACE (OFF)	ISDN Trace is enabled for output.	0: OFF 1: ON	OFF
20	VIRTUAL TRACE DIP SW SPI TRACE (OFF)	SPI Trace is enabled for output.	0: OFF 1: ON	OFF
21	VIRTUAL TRACE DIP SW DECT TRACE (OFF)	DECT Trace is enabled for output.	0: OFF 1: ON	OFF
22	VIRTUAL TRACE DIP SW HTTPXML TRACE (OFF)	HTTPXML Trace is enabled for output.	0: OFF 1: ON	OFF

## Table 3.3.16-1 VIRTUAL TRACE DIP-SWITCH (PGM 452)

# 3.3.17 VIRTUAL DIP-SWITCH — PGM 453

The Virtual Dip Switch is employed to change from in-band to SMDI for External Voice Mail communications and manually poll each IP KTS device.

PROCEDURE:	
VIRTUAL DIP SWITCH PRESS FLEX KEY (1-6)	1. Press the <b>[PGM]</b> button and dial 453.
	To enable trace, press desired Flex button 1~6. The Flex button LEDs indicates Dip switch setting, On/Off. Press the desired Flex button to toggle setting,
	LED On: enabled
	LED Off: disabled
	To enable call trace, press the <b>[Save]</b> button.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VIRTUAL DIP SWITCH DEVICE POLLING: (ON)	'Device polling'. If enabled (On), the system will check each registered device, Gateway/Board and iPECS Phone to determine if the device is alive or not.	0: OFF 1: ON	ON
2	VIRTUAL DIP SWITCH SMDI SETTING: (OFF)	SMDI setting is enabled for output.	0: OFF 1: ON	OFF
3	VIRTUAL DIP SWITCH MULTICAST LED: (OFF)	If this value is set, the LED commands from MPB will be sent to Gateway/boards and terminals in the multi-cast mode.	0: OFF 1: ON	OFF
4	VIRTUAL DIP SWITCH AUTO NEGO: (MANUAL)	This field enables negotiation of speed between the LAN switch port and the system.	0: AUTO 1: MANUAL	MANUAL
5	VIRTUAL DIP SWITCH FULL-HALF: (FULL)	The duplex mode of LAN connections can be set according to this field.	0: FULL 1: HALF	FULL
6	VIRTUAL DIP SWITCH 10-100 TX: (100)	The speed of the Ethernet interface is established based on this field, 10 Base T or 10/ 100 Base T.	0: 100 1: 10	100

#### Table 3.3.17-1 VIRTUAL DIP-SWITCH (PGM 453)

## 3.3.18 DECT ATTRIBUTES — PGM 491

DECT Attributes define functions associated with the DECT equipment and operation. Generally, the entry will turn the feature ON (enable) or OFF (disable).

## Note iPECS eMG80 supports only GDC-600BE.

PROCEDURE:	
DECT ATTRIBUTES PRESS FLEX KEY (1-3)	1. Press the <b>[PGM]</b> button and dial 491.
	Press the Flex button for the desired Attribute; refer to Table 3.3.18-1.
	Use the dial pad to enter the required data.
	Press the <b>[Save]</b> button to store the data entry.

#### Table 3.3.18-1 DECT ATTRIBUTES (PGM 491)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	AUTO CALL RLS (1:ON/0:OFF) : OFF	If enabled, when the other party of an active internal call disconnects, GDC-400H/450H/500H returns to idle.	0: OFF 1: ON	OFF
2	BASE FAULT ALARM (1:EN/0:DIS) : DISABLE	If enabled, DECT Base station (GDC-600BE) alarms are sent to the Attendant.	0: Disable 1: Enable	Disable
3	CHAIN FAULT ALARM (1:EN/0:DIS) : DISABLE	Not used.	0: Disable 1: Enable	Disable

# 4. WEB SERVICE

# 4.1 General

The iPECS eMG80 incorporates a Web Server, which is employed by the system's Web Service. Using a Web browser the system's Web Server can be accessed and the database managed in a user-friendly environment. In addition to modifying the system database, Web Admin provides for Maintenance such as system file upload, remote upgrade, database download and maintenance functions.

The default database includes assignment of a private IP address to the system. This address (10.10.10.2) may be used to access the system from the LAN. However, a routable IP address must be assigned for access from a remote location.

To access the iPECS Web Server requires:

Operating iPECS series system IP address assigned in the system and is known TCP port assigned for the for the KSU LAN port and is known iPECS eMG80 connected to an accessible LAN iPECS eMG80 password (Maint, Admin, and User) if any, is known

## 4.1.1 PC/Browser

- MS Explore 10.0, Chrome 24.0, Firefox 18.0 or higher version is recommended (HTML5 support required)
- Windows PC, at least 32MB RAM (64MB or more RAM is recommended)
- NIC (Network Interface Card)

## 4.1.2 Environment for LAN connection

- IEEE 802.3, 10/100 Base T
- Static/DHCP addressing
- Firewall, requires Network Administrator to allow access.
- Remote access requires a routable IP address for the iPECS eMG80 Web Server. This must be assigned to the system prior to access.

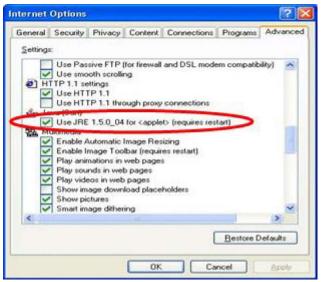
## 4.1.3 Web Browser setting

Web browsers may store (cache) a copy of the iPECS Web pages in a cache memory. The Web browser may use these copies to provide a "quick view". If the Web page has been altered by data entered in Station Admin or a file upgrade, the cached copy will be out-of-date and could cause unexpected system operation. To assure proper page views and data entry, the browser should be set to eliminate the use of the cached pages. For Explorer, in "Internet Options", enable refresh on "Every visit to the page", for other browser, the procedure may be different.

## 4.1.4 Password Encryption

When enabled in PGM 161, iPECS eMG80 implements decryption of the password employing RC-6 block encryption. iPECS eMG80 employs a Sun Java Virtual Machine applet to implement AES encryption. The PC entering the Password must have a JAVA Virtual Machine and the JRE (Java Runtime Environment) Explorer option enabled to properly handle encrypted passwords. The Sun JVM is downloaded from the Java home page (www.java.com). Once downloaded, execute the downloaded file. To enable the Explorer JRE option,

- 1. From the Explorer menu select Internet Options-Advanced.
- 2. From the Advanced Internet Options check the [Use JRE....] Option.



 After restarting the computer, access the iPECS eMG80 Web Manager, section 4.2. "Applet iPECSPwd started" will display in the bottom left corner to indicate password encryption is active.

# 4.2 iPECS eMG80 Web Access & Login

In the browser 'ADDRESS' field, enter the MPB IP address (default is 10.10.10.2) and TCP port. Select GO; the Web server returns the iPECS eMG80 Web Services Login page, Figure 4.2.1-1. The eMG80 Web services include the Admin and Maintenance functions and the Station Program User Portal. To access the Admin and Maintenance function, a valid User Id and Password matching the assignments in the System Password or User Management, Programs 162 and 255 respectively must be entered. The default Maintenance User Id is 'admin' and the password is '1234'. The system will return the Admin & Maintenance Main page, section 4.3.

To access the Station program, the user must enter their Station number and full Authorization code (station number and Auth code) in Tables Data – Station Authorization Code (PGM 227). The system will return the Station Program Main page as shown in section 4.5.

← → C 🗋 10	0.10.10.2/a_index.html	ବ୍☆ ≡
	IVER ID: Login	

Figure 4.2-1 iPECS eMG80 Home page

# 4.3 Web Admin & Maintenance Main Page Overview

In the Web Admin Login screen (see section 4.2) enter the User Id and Password then click the **[Login]** button to access the iPECS Admin & Maintenance Main Page, refer to Figure 4.3-1.

PECS ECS eMG80	Administration Maintenance	Change Language	Log Out
PGM Search	Favorite PGM		
System ID & Numbering Plans	10 20 25 30		
Station Data			
Board Based Data	System ID(100) CO/IP Ring Assignment(144)		3
CO Line Data	System Attributes(160-161) Common Attributes(111)	2	3
System Data	Flex Buttons(115/129)	2	
Station Group Data	Keyset Admin Password(162) System Overview	2	
ISDN Line Data	Terminal Attributes(112)     1       CLI Attributes(113)     1		
SIP Data	System&Device IP(102~103)		
Tables Data			
Networking Data			
Zone Data			
Device Login			
DECT Data			
Green Mode			
Initialization			

Figure 4.3-1 iPECS eMG80 Admin & Maintenance Main Page

The Admin & Maintenance Main Page has three sections,

Menu bar – Upper frame

Web site directory & navigation section - Left frame

Favorite Programs and Entry section - Central frame

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

Administration – access to system database.

Maintenance – permits databases to be downloaded, including all data, system speed dial, LCR, SMDR, MPB and Gateway/Board file.

## 4.3.1 Favorite Program Groups

To make it easy to access frequently used program, the iPECS Admin Main Page displays a Favorite PGM list. Favorite PGM list displays a bar graph with the number and rank of use of each program. By clicking on the program name in the left side of the graph, the Program is accessed directly, and by clicking on the number icons in the upper-left corner, the number of Favorites can be managed. Note the bar graph is only refreshed when the Admin and Maintenance Main page is accessed.

# 4.3.2 iPECS Web Page Navigation

The Administration Navigation frame displays on the left after login; refer to Figure 4.3-1. Selecting a Program group from either the Navigation pane or the Favorites list will display the selected Web Admin entry page.

Each of the system's data entry Web pages includes a frame for data display and modification. To modify data, click in the data field, either a drop-down menu will appear for entry selection or a cursor will appear in the field and the user may type in the data required. Once all new data for a Web page has been entered, the **[Save]** button must be clicked to send the new page to the system and save the modified data.

In some cases, where mentioned, it may be necessary to reset the system. The system can be reset manually as described in the iPECS eMG80 Hardware Description and Installation Manual or by selecting the Reset System button on the Initialization Web page.

# 4.4 Web Admin Programming

# 4.4.1 System ID & Numbering Plans

Selecting the System ID & Numbering Plans expands the Navigation page to display the available Program groups displayed in the left frame as shown in Figure 4.4.1-1.

PECS PECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans $~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~$	10 20 25 30	
System ID(100) System Overview Device Port Num Change(101) System&Device IP(102~103) CO Device Sequence Number(104) Flexible Station Number(105) Flexible Numbering Plan(106~109)	System D(100) CO/P Ring Assignment(144) System Attributes(160~161) Common Attributes(111) Fix: Buttons(115/129) Keyset Admin Password(162) System Overview	2 2 2 2 2 2 2
8 Digit Table(238) Station Data	Terminal Attributes(112) CLI Attributes(113) System&Device IP(102~103)	1
Board Based Data		
CO Line Data		
System Data		
Station Group Data		
ISDN Line Data		
SIP Data		
Tables Data		
Networking Data		
Zone Data		
Device Login		
DECT Data		
Green Mode		
Initialization		

Figure 4.4.1-1 System ID & Numbering Plans sub-menu

## 4.4.1.1 System ID – PGM 100

Selecting System ID will display the Input Entry page, Figure 4.4.1.1-1.

PECS PECS eMG80	Administratio	n Maintenance	
PGM Search	Favorite PGM	System ID(100) ×	
System ID & Numbering Plans 🛛 🗸 🗸			
> System ID(100)	Attribute	Value	Range
System Overview	Nation Code	U.S.A	_
Device Port Num Change(101)	Site Name		Max 24 Characters
System&Device IP(102~103)	My Area Code		Max 6 Digits
CO Device Sequence Number(104) Flexible Station Number(105)			
Flexible Numbering Plan(106~109)			
8 Digit Table(238)			
Station Data			
Station Data			
Board Based Data			
CO Line Data			
System Data			
Station Group Data			
ISDN Line Data			
SIP Data			
Tables Data			
Networking Data	Multi Area Code		Max 6 Digits
Zone Data			
Device Login			
DECT Data			
DEGI Dura			
Green Mode			
Initialization			

Figure 4.4.1.1-1 System ID

Under System ID, the country is identified using the international dial codes (Nation Code). A twenty-three (23) character Site Name and the local "My Area Code" maybe defined. This information is used to set gain, frequencies and other system characteristics specific to the country and regional regulatory requirements. The Site Name is primarily useful for the installer/programmer as a reference to customer.

In addition, the system employs one of the eight (8) basic Flexible Number Plans as detailed in Appendix B. Individual items from the selected Numbering Plan can be changed under Flexible Numbering Plan in section 4.4.1.7.

#### Note

To change Nation code, Dip-switch 1 pole # 2 is ON; you cannot change the Nation code while the switch is OFF.

## 4.4.1.2 System Overview

Selecting System Overview will display the System Overview page, Figure 4.4.1.2-1. This page displays the system capacity, the available application, and Device ID list. Note that data cannot be entered on this page.

PECS PECS eMG80	Adminis	stration N	laintenance				Change	Change Languag	Change Language	Change Language	Change Language	Change Language Log (	Change Language Log Out
M Search	Favorite P	3M System Ov	erview X										
System ID & Numbering Plans 🛛 🗸 🗸		System (	apacity Overview										
System ID(100)		max port / slot		availabl	e port / slot								
System Overview	Total	300	133	167									
	CO & STA	214	86	128									
Device Port Num Change(101)	CO Line	74	54										
System&Device IP(102~103)	Station	140	32										
CO Device Sequence Number(104)		( include hot desi	(0)										
Flexible Station Number(105)	MISU	771	771	0/0									
Flexible Numbering Plan(106~109)	VSF	8/2	8/2	0/0									
8 Digit Table(238)	MCIB	31/1	32/1	0									
	WTIB	1	0	1									
Station Data		Curto											
		-	n License Overviev										
Board Based Data		icense	000E2FE40C102388 Status	5	Currently use								
CO Line Data	Network	icense	Not activated		currently use	'							
	EZATTD		Not activated										
Bystem Data	CTI(TAPI)		Not activated										
	Soft Phone	1	Not activated		0								
Station Group Data			Not activated										
SDN Line Data	Soft Phone	Video Phone	(2 copies free)		0								
	DeskTop U	JCS Client	Not activated		0								
SIP Data	Mobile UC	S Client	Not activated		0								
	Hotel		Not activated										
Tables Data	TNET(LOC	AL-SURVIVAL)	Not activated										
	NMS		Not activated										
Networking Data	SIP Phone		Not activated		0								
Zone Data		rer Number)	Not activated		0								
zone Data	IPCR (Age	nt ID Number)	Not activated		0								
Device Login		rver Number)	Not activated		0								
	SIP VM (Ag	ent Number)	Not activated		0								
DECT Data	IP Commu	nicator	Not activated (2 copies free)		0								
Hotel Data	Office IP At	tendant	Not activated		0								
	Hotel IP At		Not activated		0								
reen Mode	Contact Ce	enter	Not activated		0000000000	0							
	CCS SIP		0 (No free)										
Initialization	VOIU chan	nel	Not activated Available VOIU 2 c	hannels									
	VOIB chan	nel	Not activated Available VOIB 0 cl										
	VMIU chan	nel	Not activated Available VMIU 2 c										

Figure 4.4.1.2-1 System Overview

#### 4.4.1.3 Device Port Number Change – PGM 101

Selecting Device Port Num Change (101) will display the input entry page, Figure 4.4.1.3-1.

DECS CS eMG80	Admini	istrati	on Maintenance							Chan	ge Langua	age	Log Out
PGM Search	Favorite F	GM	Device Port Num Change(101)										
System ID & Numbering Plans 🛛 🗸													Save
System ID(100)	Order	Seq	Logical Num 🌡 a		Device	DEV ID	MAC Address	IP Address	Device		Current	New	Admir
System Overview	⊥a	Seq	Logical Null ±		Туре		MAC AUTESS	IF Addiess	Delete	Port	Port	Port	DB Mov
Device Port Num Change(101)	<u> </u>				E1IB	O Device							
System&Device IP(102~103)	0 2	7	5 - 34				b40edcbf5606	10.10.10.2		30	30		
CO Device Sequence Number(104)	03	8		5 - 38			b40edcbf5606	10.10.10.2		4	4		
Flexible Station Number(105)	0 1	9			LCOB4	65	b40edcbf5606	10.10.10.2		4	4		
Flexible Numbering Plan(106~109)	0 4		39 - 46		VOIU	97	b40edcbf5606	10.10.10.2		8	8		
8 Digit Table(238)	0 5	14	47 - 54		VOIB	100 STA	b40edcbf55ca	10.10.10.10		8	8		
Station Data													
eranen e ara	0 1	1	100 101 102 103 104 105 106 107		HYIB8	160	b40edcbf5606	10.10.10.2		8	8		
Board Based Data	0 2	2			HYIB8	160	b40edcbf5606	10.10.10.2		8	8		
CO Line Data	○ 3	3	116 117 118 119 120 121 122 123 124 129 130 131	SLIB16	119	b40edcbf5606	10.10.10.2		16	16			
						SU Device	•						
System Data	0 1	17	1 - 7		MISU	9	b40edcbf5606	10.10.10.2		7	7		
Station Group Data						SF Device							
	01		1 - 4		VMIU	8	b40edcbf5606	10.10.10.2		4	4		
ISDN Line Data	0 2	16	5 - 8		VMIB	7	b40edcbf55ca	10.10.10.10		4	4		
SIP Data			Re-order logical numb	er Admin DB mov	e accordin	g to the re	ordered logical n	umber					
T-11- D-1-			OB Move' option O	0									
Tables Data	Uncheck	Admir	DB Move' option O	X (There is no	change in	'Admin Di	3)						
Networking Data			A Device, you have to program again belo			ked 'Admir	DB Move' option.						
Zone Data	- Flex buttor	ns (PG		n you have to progr	am again.								
Device Login	- CO/IP Ring	g Assi	vard & Preset Call Forward (PGM120) gnment (PGM144)										
DECT Data	- Flexible D	D tab	gnment (PGM204) le (PGM231) ember Assignment (PGM190)										
Green Mode	- and so on		ennier Assignment (POM190)										
nitialization													

Figure 4.4.1.3-1 Device Port Num Change

The system supports changing port count of a device or deleting devices. To change the port count or delete a device, click the radial button to the left of that device. Then a pop-up window displays. In this window, the Device ID, Mac address, IP address and port count of the device can be modified. Also checking the **[Device Delete]** check box will delete the device.

If the **[Device Delete]** box is checked and the system restarts, the logical port numbers for the CO Lines and Stations will change based on the new Order numbering. If the **[Admin DB Move]** box is checked, the basic database for each device is moved with the reordered logical CO Line and Station numbers otherwise the database is not moved with the new Order numbers. Certain Station data is not moved even though the DB move option is checked including the Programs listed below and these data may require modification to match the customer needs.

- Flex buttons (PGM115/129)
- Preset Call Forward (PGM120)
- CO/IP Ring Assignment (PGM144)
- ICLID Ring Assignment (PGM204)
- Flexible DID Conversion (PGM231)
- Station Group Member Assignment (PGM190)

#### 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103

Selecting System & Device IP Address Plan will display the input entry page, Figure 4.4.1.4-1. This page has two major segments, the System IP Address Plan and the device IP Address Plan.

IPECS eMG80	A	dmin	istrati	on Maintenand	e								Change	e Language	Log Ou
PGM Search	Favo	orite I	PGM	System&Device IP(10	02~103)	×									
System ID & Numbering Plans         ~           System ID (100)         System Overview           Device Port Num Change(101)         >           > System&Device IP(102-103)         CO Device Sequence Number(104)           Flexible Station Number(105)         Flexible Station Number(105)           Flexible Numbering Plan(106~109)         8           Digit Table(238)         Station Data           Board Based Data	Router Syster Autom Secon Secon Firewa Secon	r IP A n IP I atic I d Sy: d Sy: all IP . IAC F d MA	ddres: Range b Net N P Assi stem IF stem N Addres Range C Ran	k: 255.255.256.0 5: [10.10.10.1 [10.10.10.10 task: 255.255.255.0 pn: ON ♥ Address: [0.0.0 et Mask: 255.255.255.0 0:00000000000 ge: [00000000000 ge: [00000000000 0.0.0	- 00000	10.254	0								Save
CO Line Data	Order														
System Data	⊥ª	Seq	Zone	Logical Num ≟ª	Туре	DEV ID	MAC Address	IP Address	Mode	ARP	Register	Version	CPU	Remar	k
Station Group Data	2	7	1	5 - 34	E1IB	43	b40edcbf5606	CO Device 10.10.10.2	L	OFF 🗸	Multicast 🗸	1.0Ai	MSC1K		
ISDN Line Data	3	8	1	35 - 38	BRIB2	118	b40edcbf5606	10.10.10.2	L	OFF V	Multicast V	1.0Ai	MSC1K		
ISDN LINE Data	1	9	1	1 - 4	LCOB4	65	b40edcbf5606	10.10.10.2	L	OFF 🖂	Multicast 🗸	1.0Ai	MSC1K		
SIP Data	4	13	1	39 - 46	VOIU	97	b40edcbf5606	10.10.10.2	L	OFF 🔽	Multicast 🗸	1.0Ai	MSC1K		
Tables Data	5	14	1	47 - 54	VOIB	100	b40edcbf55ca	10.10.10.10	L	OFF 💌	Multicast 🔽	1.0Ae	MSC1K		
								STA							
Networking Data	1	1	1	100 101 102 103 104 105 106 107	HYIB8	160	b40edcbf5606	10.10.10.2	L	OFF 🔽	Multicast 🗸	1.0Ai	MSC1K		
Zone Data	2	2	1	108 109 110 111 112 113 114 115	HYIB8	160	b40edcbf5606	10.10.10.2	L	OFF 💌	Multicast 🗸	1.0Ai	MSC1K		
Device Login				116 117 118 119 120											
DECT Data	3	3	1	121 122 123 124 125 126 127 128 129 130 131	SLIB16	119	b40edcbf5606	10.10.10.2	L	OFF 🔽	Multicast 🗸	1.0Ai	MSC1K		
Green Mode								MISU Device							
	1	17	1	1 - 7	MISU	9	b40edcbf5606	10.10.10.2	L	OFF 🖂	Multicast 🗸	1.0Ai	MSC1K		
Initialization								VSF Device							
	1		1	1 - 4	VMIU	8	b40edcbf5606	10.10.10.2	L	OFF 🔽	Multicast 🗠	1.0Ai	MSC1K		
	2	16	1	5 - 8	VMIB	7	b40edcbf55ca	10.10.10.10	L	OFF 🔽	Multicast 🗠	1.0Ae	MSC1K		
					Virtual			MCIB Device							
	1	18	1	1 - 32	MCIB	116				OFF 🔽	Multicast 😪				

Figure 4.4.1.4-1 System & Device IP Address Plan

#### System IP Address Plan

The System IP Address Plan sets several IP addresses including the MPB IP address that is required for external VoIP calls, the IP address for the router, and the system's internal private IP address Plan. Note that the LAN and Router addresses must be routable IP addresses for access to an external VoIP network, remote access by an iPECS Phone or remote Web access. When used, the LAN port of the VVMU (Voice over IP device unit) must also have a routable IP address for access for access to/from an external VoIP network and a remote iPECS device.

When "Automatic IP Assign" is enabled, the system will assign IP addresses to each iPECS IP terminal and the VVMU using the System IP address range defined. These addresses are used for communications between the system and other VVMU and terminals.

The system may be connected to a LAN that is segmented by two separate private IP address schemes. This segmenting technique is often used to separate voice and data devices. However, with this segmenting technique, the system will normally treat the segmented devices such as IP softphones, as remote devices, using valuable WAN bandwidth. Assigning the "Second Sys IP address" with a valid IP address from the second segment permits the system to communicate directly with the devices over the LAN.

iPECS can be installed behind a NAPT server, if the NAPT server provides fixed address translation and port forwarding to the system. In this case, the system will employ the "Firewall IP address" as the fixed IP address for communication with remote devices. This address must be assigned as the "MFIM" address in the remote device.

#### Device IP Address Plan

TDM board is registered with own slot number. It is registered automatically without any configuration.

#### To register IP device:

As Gateway/board and terminals are registered to the iPECS, a slot number is assigned, which indicates the order of registration. Also, based on the type of device (CO Gateway/board, Terminal or Station board) the system assigns a logical Sequence Number. Thus, Sequence Numbers for CO Gateway/board, Terminals are independently assigned based on the type of Gateway/board. These Sequence Numbers are employed to provide a relationship between the physical MAC address and the logical port numbers of the device.

The system may assign a default private IP address to each Sequence Number. If desired, this program may be used to modify the assigned IP address for each Gateway/board and iPECS Phone.

Each Gateway/board and terminal can be assigned for "Direct Send". With Direct Send enabled, the system will employ the Ethernet MAC address of the device to send iPECS protocol messages to the device. This reduces the overall LAN traffic by eliminating the need for IP address headers in the messages.

The system normally employs IP multi-cast protocol to respond to a registration request from a Gateway/board or terminal. When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the "Local Device" assignment. When disabled (Off), the system will send an IP uni-cast message to the device in response to a registration request.

ATTRIBUTE	DESCRIPTION	DEFAULT
MPB DHCP	Controls the DHCP client function for the MPB in the KSU.	OFF
MPB IP Address	Public IP Address of the KSU LAN port that required for remote user and external VoIP network access. IPv4 format.	10.10.10.2
MPB Subnet Mask	Defines the system subnet for MPB IP addresses.	255.255.255.0
Router IP Address	IP Address of router for external network (WAN) access. Required for shared voice and data LAN, external VoIP and remote Web access.	10.10.10.1
System IP Range	Range for private IP addresses of Modules/Terminals.	
System Subnet Mask	Define the system subnet for private IP addresses.	255.255.255.0
Automatic IP Assign	The system automatically assigns IP addresses to modules and terminals (ON) or, when OFF, IP addresses are assigned manually in Device IP Address Table or from the DHCP address assigned to the device.	ON

#### Table 4.4.1.4-1 SYSTEM IP ADDRESS PLAN

ATTRIBUTE	DESCRIPTION	DEFAULT
Second System IP Address	When devices have different address schemes on the same LAN, enter an IP address from the second LAN for use by the eMG80 system.	0.0.0.0
Second System Net Mask	Net mask of the second private IP addresses	255.255.255.0
Firewall IP Address	When the system is installed behind a NAPT server, the fixed IP Address provided by the NAPT server must be assigned here. Also, use this IP address to identify the MPB in remote devices.	0.0.0.0
First MAC Range	MAC Address Range to register a device regardless of the 3rd DIP- switch.	000000000000 000000000000
Second MAC Range	MAC Address Range to register a device regardless of the 3rd DIP- switch.	000000000000 000000000000
DNS IP Address	IP Address of Domain Name Server, which iPECS eMG80 will use to resolve a URL to an IP address. The DNS provides the resolution after receiving the name from iPECS.	0.0.0.0

Table 4.4.1.4-1 SYSTEM IP ADDRESS PLAN

#### 4.4.1.5 CO Device Sequence Number - PGM 104

Selecting CO Gateway/board Sequence Number will display the input entry page, Figure 4.4.1.5-1. Selecting the blue colored text in the Table header will sort the table based on the selected column.

PECS ECS eMG80	Administratio	on	Maintenance		Chang	je Language
PGM Search	Favorite PGM	CO Dev	ice Sequence Numbe	r(104) ×		
System ID & Numbering Plans 🛛 🗸 🗸						
System ID(100)		- 10	-			
System Overview	Ordering Num ≟ª 2	Type <u>⊥</u> ª E1IB	Sequence Number 1ª	° CO Line Num ≟° 5	10.10.10.2	Order 2
evice Port Num Change(101)	3	BRIB2	8	35	10.10.10.2	3
System&Device IP(102~103)	1	LCOB4		1	10.10.10.2	1
CO Device Sequence Number(104)	4	VOIU	13	39	10.10.10.2	4
Flexible Station Number(105) Flexible Numbering Plan(106~109)	5	VOIB	14	47	10.10.10.10	5
Board Based Data CO Line Data System Data Station Group Data						
SDN Line Data						
SIP Data						
Tables Data						
Networking Data						
Networking Data Zone Data						
-						

Figure 4.4.1.5-1 CO Device Sequence Number

The system configures the CO/IP Line numbers as discussed in section 2.3. Each slot is assigned the starting CO/IP Line number based on the Order Numbering. In place of the default Order Numbering, the "Order" number assigned in this PGM can be used to reorder the CO/IP numbering.

#### 4.4.1.6 Flexible Station Numbering Plan - PGM 105

Selecting Flexible Station Number will return the data entry page, Figure 4.4.1.6-1. This page permits changes in the Station Numbering Plan using one of three methods:

Not Use Range Input: use to change an individual station number.

<u>Ordering Range (Table index)</u>: use to change the station numbers associated with a range of "Order Numbers" (the indexes). The "Start Station Number" is assigned to the station with the first index then the station number is incremented by one and assigned to the next station in the range. The process is repeated until the station number with the last index is changed.

<u>Station Range</u>: use to change station numbers over a range of stations using the "Start Station Number" as the first station number for the range. The station number is incremented by one for each successive station in the range.

New Station number: use to change the number of an individual station.

iPECS iPECS eMG80	Adn	ninistration	Maintenance		Chang	je Language	Log Out
PGM Search	Favorit	te PGM Flexible S	itation Numbe	r(105) ×			
System ID & Numbering Plans $\sim$	Enter Sta	ation Index Range (1	- 140) :			2 Load	Save
System ID(100) System Overview Device Port Num Change(101)		ndex Range 1-25					Joave
System&Device IP(102~103)			Multiple Statio	on Number to cha	inge		
CO Device Sequence Number(104) > Flexible Station Number(105)	🔘 En	ter Ordering Range :		St	tart Station Number :		
Flexible Numbering Plan(106~109)	🔘 En	iter Station Range :	-	St	tart Station Number :		
8 Digit Table(238)			R	ange Save			
	Index ↓ <sup>8</sup>	Station Number 18	IP Address  8	MAC Address	<sup>a</sup> New Station Number	r	
Station Data	1	100	10.10.10.2	b40edcbf5606	100		
Board Based Data	2	101	10.10.10.2	b40edcbf5606	101		
	3	102	10.10.10.2	b40edcbf5606	102		
CO Line Data	4	103	10.10.10.2	b40edcbf5606	103		
System Data	5	104	10.10.10.2	b40edcbf5606	104		
	6	105	10.10.10.2	b40edcbf5606	105		
Station Group Data	7	106	10.10.10.2	b40edcbf5606	106		
ISDN Line Data	8	107	10.10.10.2	b40edcbf5606	107		
	9	108	10.10.10.2	b40edcbf5606	108		
SIP Data	10	109	10.10.10.2	b40edcbf5606	109		
Tables Data	11	110	10.10.10.2	b40edcbf5606	110		
	12	111	10.10.10.2	b40edcbf5606	111		
Networking Data	13	112	10.10.10.2	b40edcbf5606	112		
Zone Data	14	113	10.10.10.2	b40edcbf5606	113		
	15	114	10.10.10.2	b40edcbf5606	114		
Device Login	16	115	10.10.10.2	b40edcbf5606	115		
	17	116	10.10.10.2	b40edcbf5606	116		

Figure 4.4.1.6-1 Flexible Station Number

Each iPECS IP and LDP Phone and SLT is assigned a logical order number, shown as the "Index" number on the Web page, during the registration process. The station Index number is incremented from 1 as each terminal device is registered. At registration, station numbers increment sequentially with the index and are assigned starting at station 100. The Station Numbering Plan allows the station numbers to be two (2) to eight (8) digits in length as long as the number of digits in the Station numbers is the same.

#### 4.4.1.7 Flexible Numbering Plan - PGM 106 ~ 109

Selecting Flexible Numbering Plan will display the input entry page, Figure 4.4.1.7-1. Selecting the blue colored text in the Table header will sort the table based on the selected column.

PECS ECS eMG80	Adm	inistrati	on Maintenance		Change Language	Log Ou	t
PGM Search	Favorite	PGM	Flexible Numbering Plan(106~109)	×			
System ID & Numbering Plans 🛛 🗸 🗸				~		Save	
System ID(100)	Order <u>↓</u> a		Attribute ↓ª		Value	Udve J	
System Overview			-	301	-		
Device Port Num Change(101)	1	Interna	al Page Zone	335			
System&Device IP(102~103)	2	Interna	al All Call Page	543		^	
CO Device Sequence Number(104)	3	MeetN	de Page	544			
Flexible Station Number(105)	4	Extern	al Page Zone - 1	545		•	
Flexible Numbering Plan(106~109)	5	Extern	al All Call page	548			
8 Digit Table(238)	6	All Ca	ll Page	549			
Station Data	7	SMDR	Account Code Enter	550			
Station Data	8	Flash	Command To CO Line	551			
Board Based Data	9	SLT L	ast Number Redial	552			
	10	Do-No	ot-Disturb(DND)	553			
CO Line Data	11		orward	554			
System Data	12	Speed	d Dial Program	555			
•	13		te Message Wait/Call Back	556			
Station Group Data	14		age Wait/Call-Back Answer	557			
ISDN Line Data	15		peed Dial Access	558			
	16		FWD Cancel	559			
SIP Data	17		:O System Hold	560			
Tables Data	18		rogram Mode Access	561			
Tables Data	19		lant Unavailable	562			
Networking Data	20		eature	564			
	21		Reset	565			
Zone Data	22		Call Pick-Up	566			
Device Login	23		rsal Night Answer	567			
	24		nt Code With Bin	568			
DECT Data	25		ng COS	569			
Green Mode	26		Igent ON/OFF Duty	571			
	27		Supervisor Login	572			
Initialization	28		Supervisor Logout	573			
	29		Help Code	574			
	30		Call In Queue Display	575			
	31		Supervisor Status	576			
	32		Supervisor Monitor	577			

Figure 4.4.1.7-1 Flexible Number Plan

Feature dial codes for the system can be assigned using the system's Flexible Number Plan. Feature codes should be one (1) to four (4) digit in length and must not conflict. For example, Feature codes 53 and 536 represent a conflict. The system will not update the database until correct data is entered. Table 4.4.1.7-1 provides a brief description for each feature and the default codes as they appear in basic Numbering Plan 1. The default values for other numbering plans, which may be selected under System Id section 4.4.1.1, are provided in Appendix B.

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
1	Internal Page Zone	Internal Page Zone access codes.	301~335
2	Internal All Call Page	Internal All Call Page access code.	543
3	Meet Me Page	Meet-Me-Page answer code.	544
4	External Page Zone – 1	External Page Zone 1 access code.	545
5	External All Call Page	External All Call Page access code.	548
6	All Call Page	All Call Page access code.	549
7	SMDR Account Code Enter	Dial code to signify the start of an SMDR Account Code.	550
8	Flash Command To CO Line	Dial code to generate a Flash on the active CO Line.	551
9	SLT Last Number Redial	SLT Last number redial feature access code.	552
10	Do-Not-Disturb (DND)	Dial code to activate Do-Not-Disturb.	553
11	Call Forward	Code to activate Call Forward.	554
12	Speed Dial Program	SLT Speed Dial programming access code.	555
13	Activate Message Wait/Call Back	Code to activate Message Wait/Call Back.	556
14	Message Wait/Call-Back Answer	Code to return Message Wait/Call Back.	557
15	SLT Speed Dial Access	SLT Speed Dial access code.	558
16	DND/FWD Cancel	Code to cancel DND/FWD/MSG Wait.	559
17	SLT CO System Hold	Code to place a CO Line call on System Hold.	560
18	SLT Program Mode Access	SLT user program access code.	561
19	Attendant Unavailable	Code to make attendant "unavailable".	562
20	AME Feature	Dial code to assign an Answering Machine Emulation Flex button.	564
21	Alarm Reset	Code to terminate an Alarm signal.	565
22	Group Call Pick-Up	Group Call Pick-up code.	566
23	Universal Night Answer	Universal Night Answer code.	567
24	Account Code With Bin	Dial code for entering an Account Code.	568
25	Walking COS	Dial code to activate Walking Class-of-Service.	569
26	ACD Agent ON/OFF Duty	Code to toggle ACD Supervisor ON and OFF duty.	571
27	ACD Supervisor Login	Supervisor log-in code.	572
28	ACD Supervisor Logout	Supervisor log-out code.	573
29	ACD Help Code	Agent & Supervisor code for Supervisor help.	574
30	ACD Call In Queue Display	Dial code to display calls in queue.	575
31	ACD Supervisor Status	Dial code to display group status.	576
32	ACD Supervisor Monitor	Dial code to activate Supervisor monitor.	577
33	ACD Reroute Queued Call Answer	Code to reroute call after answer.	578
34	ACD Reroute Queued Call No Answer	Code to reroute call prior to answer.	579
35	Camp-On Answer	Dial code to answer a Camped On call.	621
36	Call Park Locations	Dial code to place/retrieve a call in a system Park Orbit.	#601~#619
37	Station Group Pilot Number	Station group pilot number.	401~440
	Station Group Pilot Number Station User VSF Features Access		*66
38		VSF feature access code.	
39	Call Coverage Ring	Code for Call Coverage button.	76 *77
40	Direct Call Pick-Up	Dial code to activate Directed Call Pick-up.	*77
<u>41</u> 42	Access CO Group Access Individual CO/IP	Dial code to access a CO Line from a group. Dial code to access a specific CO/IP Line.	89
	TACCESS INDIVIDUAL CU/IP	TUIAL CODE TO ACCESS & SDECITIC CU/TP LINE.	88

Table 4.4.1.7-1 FLEXIBLE NUMBERING PLAN CODES

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
44	Access Held Individual CO/IP	Dial code to access a specific CO/IP Line from Hold.	8#
45	Access CO In First CO Group	Dial code to access the 1 <sup>st</sup> available CO/IP Line in any accessible group.	9
46	Attendant Call	Dial code to call Main Attendant.	0
47	VM MSG Wait Enable	Dial code for external Voice mail to activate Message Wait indication.	*8
48	VM MSG Wait Cancel	Dial code for external Voice Mail to deactivate Message Wait indication.	*9
49	Door Open	Dial code to activate Door 1 contact.	#*1
50	Door Open	Dial code to activate Door 2 contact.	#*2
51	MCID Request	Dial code to activate Malicious Caller Id (Except USA version).	*0
52	Unsupervised Conf Timer Extend Code	Dial code to extend unsupervised conference time.	##
53	PTT Group Logon/Logoff	Push-To-Talk group login and logout dial code. The station must have a PTT button for proper operation.	#0
54	ACD Agent Primary Login	ACD Agent Primary Login code.	581
55	ACD Agent Primary Logout	ACD Agent Primary Logout code.	582
56	ACD Agent Secondary Login	ACD Agent Secondary Login Code.	583
57	ACD Agent Secondary Logout	ACD Agent Secondary Logout Code.	584
58	Wrap-up End	ACD Agent Wrap-up end code.	585
59	Not Used		586
60	ENTER INTO CONF ROOM	Code for a station to enter a conference room.	59
61	ENTER INTO CONF-GROUP	Code for a station to initiate a conference group.	68
62	STATION ICR	Code for a station to activate ICR forward.	587
63	PICK UP GROUP PICK-UP	Pick Up Group Call Pick-up dialing code.	588
64	EMERGENCY PAGE	Code for emergency page.	589
65	REMOTE MEX CONTROL	Code to control the mobile extension settings remotely.	580
66	Agent ON/OFF Duty In ALL GRP	Code to change the state of the Agent ON/Off duty in all hunt groups.	58*
67	SLT ACNR	Dial code for an SLT to activate ACNR	58#
68	ACD Supervisor Ring Mode	Code to check and change ACD group Ring mode by ACD group supervisor.	570
69	Company Directory Name	Code to check and record a user's Name greeting for the Company Directory feature.	563
70	ISDN Supplementary HOLD	ISDN Supplementary HOLD Numbering Plan Code.	57*
71	ISDN Supplementary Conference	ISDN Supplementary Conference Numbering Plan Code (Not supported).	57#
72	Forced Channel Seize	Code to disconnect an existing call and seize the CO/IP Line or connect to the station.	56*
73	Override DND/Forward	Dial code to override DND or Call Forward activated by a station.	56#
74	Cancel call back	Code to cancel a Callback request.	
75	Transfer to VSF Number	While on a CO/IP Line call, this code may be used to transfer a call to a valid system announcement,	55*

Order	ATTRIBUTE	JTE DESCRIPTION	
	[Transfer] + [55*] + valid system announcement (01-70). The outside party receives the system		
76	CCR	announcement and DISA service activates. It is used in digit conversion.	#2

Table 4.4.1.7-1 FLEXIBLE NUMBERING PLAN CODES

## 4.4.1.8 8-Digit Table - PGM 238

Selecting Flexible Numbering Plan will display the input entry page, Figure 4.4.1.8-1.

PGM Search	Favo	rite PGM 8	Digit Table(2	38) ×	
System ID & Numbering Plans 🛛 🗸 🗸					
System ID(100) System Overview	Prefix U	Jsage : OFF 💊	•		
Device Port Num Change(101)	Order	Feature	Value	Range	
System&Device IP(102~103)	1	8 Digit String		Max 6 Digits	
CO Device Sequence Number(104)		Add Digit	0	0 - 4	
Flexible Station Number(105)	2	8 Digit String		Max 6 Digits	
Flexible Numbering Plan(106~109)	2	Add Digit	0	0 - 4	
8 Digit Table(238)	3	8 Digit String		Max 6 Digits	
o Digit Tuble(250)	3	Add Digit	0	0 - 4	
Station Data		8 Digit String		Max 6 Digits	
	4	Add Digit	0	0 - 4	
Board Based Data	~	8 Digit String		Max 6 Digits	
CO Line Data	5	Add Digit	0	0 - 4	
	-	8 Digit String		Max 6 Digits	
System Data	6	Add Digit	0	0 - 4	
Station Group Data	_	8 Digit String		Max 6 Digits	
	7	Add Digit	0	0 - 4	
ISDN Line Data		8 Digit String		Max 6 Digits	
SIP Data	8	Add Digit	0	0 - 4	
oir Dala		8 Digit String		Max 6 Digits	
Tables Data	9	Add Digit	0	0 - 4	
		8 Digit String	,	Max 6 Digits	
Networking Data	10	Add Digit	0	0 - 4	

Figure 4.4.1.8-1 8 Digit Table

The iPECS eMG80 supports a Station Numbering Plan of up to 8 digits. By combining a prefix digit string (8 Digit String) of up to six (6) digits with the Add Digit count (digit count from the Station Numbering assigned in PGM 105), Station Numbering can support up to 8 digits. Note that multiple prefixes (8 Digit Strings) can be assigned.

## 4.4.2 Station Data

Selecting the Station Data group returns the Station Data menu displayed in the left frame as shown in Figure 4.4.2-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search System ID & Numbering Plans	Favorite PGM	
Station Data 🗸 🗸 🗸		
Station Type(110) Common Attributes(111) Terminal Attributes(112) CLI Attributes(113) Flex Buttons(115/129) Station COS(116) CO/IP Group Access(117) Internal Page Zone(118) Ptt Group Access(119) Preset Call Forward(120) Idle Line Selection(121) Station IP Attribute(122) Station Timer(123) Linked Station(124) Station ICM Group(125) VM Attributes(127) Station Personal CCR(128) Station Name Display Station Data Copy Station CTI IP Address	Common Attributes(111) Station Group Attributes(191) CO Call Rerouting(252) System&Device IP(102~103) Station Group Assignment(190) Flex Buttons(115/129) VM Attributes(127) SIP CO Attributes(133) CO/IP Ring Assignment(144)	7     7     7       7     7     7       7     7     7       6     6     6       6     6       6     6       6     6
Board Based Data		
CO Line Data		
System Data		
Station Group Data		
ISDN Line Data		
SIP Data		
Tables Data		
Networking Data		
Zone Data		

Figure 4.4.2-1 Station Data Main Page

### 4.4.2.1 Station Type - PGM 110

Selecting Station Type will display the Station Type data input entry page. Enter a valid station range and click **[Load]** to modify the Station Type data..

PECS ECS eMG80		Administration	Maintenance	Chai	nge Lar	iguage	Log Out	t
PGM Search	^	Favorite PGM 5	Station Type(110)					
System ID & Numbering Plans		Enter Station Range	:		0	Load	Save	
Station Data	~	Station Range 100-1				Loud	Jave	
Station Type(110)		Station Number 1ª	station Type	Associated Station Nu	Imber			
Common Attributes(111)		100						
Terminal Attributes(112)		101		<b>v</b>				
CLI Attributes(113)		102		✓				
Flex Buttons(115/129)		103		✓				
Station COS(116)		104		✓				
CO/IP Group Access(117)		105		✓				
Internal Page Zone(118)		106	SLT (DTMF)	✓				
Ptt Group Access(119)		107	SLT (DTMF)	✓				
Preset Call Forward(120)		108		✓				
Idle Line Selection(121)		109	SLT (DTMF)	✓				
Station IP Attribute(122)		110		✓				
Station Timer(123)		111		✓				
Linked Station(124)		112		✓				
Station ICM Group(125)		113		✓				
VM Attributes(127)		114	SLT (DTMF)	✓				
Station Personal CCR(128)		115	SLT (DTMF)	✓				
Station Name Display		116	SLT (DTMF)	✓				
Station Data Copy		117	SLT (DTMF)	✓				
Station CTI IP Address		118	SLT (DTMF)	✓				
Board Based Data		119		✓				
Duaru Daseu Data		120		✓				
CO Line Data		121		✓				
		122		✓				
System Data		123	SLT (DTMF)	✓				
Station Group Data		124	SLT (DTMF)	✓				
		125	SLT (DTMF)	✓				
ISDN Line Data		126						

Figure 4.4.2.1-1 Station Type

Each station is assigned a type selected from the "Station Type" drop-down menu. The type is used by the system to recognize the station's capability and set default Flex button configurations. In addition, for standard iPECS DSS/BLF consoles the "Associated Station Number" is required so the system will recognize the station that is used with the console. Note this is not used with the Serial DSS/BLF Consoles.

#### 4.4.2.2 Common Attributes - PGM 111

Selecting Common Attributes will display the common attributes data input page, Figure 4.4.2.2-1. Enter a valid station range and click the **[Load]** button to enter Common Attributes data.

Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations when saved.

PECS ECS eMG80	Adm	inistration	Maintenance	Change Language	Log Out
PGM Search	Favorite	e PGM Co	ommon Attributes(111) ×		
System ID & Numbering Plans	Enter Sta	tion Range :	2	Load	Save
Station Data ~		ange 100-14	9		Caro
Station Type(110)		Check All	Attribute <u>⊥</u> ª	Value	
Common Attributes(111)	1		Admin	Enable 🔽	
Terminal Attributes(112)	2		COPGM	Disable 🗸	î
CLI Attributes(113)	3		Automatic Hold	ON V	~
Flex Buttons(115/129)	4		Individual CO Access	Enable 🗸	
Station COS(116)	5		CO/IP Line Queuing	Enable 🗸	
CO/IP Group Access(117)	6		Ring Line Preference	Enable V	
Internal Page Zone(118)	7		Speed Dial Access	Enable V	
Ptt Group Access(119)	8		Alarm / Door Bell	Disable V	
Preset Call Forward(120)	9		Station Account		
Idle Line Selection(121)	10		Forced SMDR Account Code	OFF V	
Station IP Attribute(122)	10		Loop LCR Account	OFF V	
Station Timer(123)	12		Door Open	Enable V	
Linked Station(124)	13		Flex Button PGM		
Station ICM Group(125)	14		Prefer CO or Group		
VM Attributes(127)	14		Emergency CO or Group		
Station Personal CCR(128)	16			4	
Station Name Display	17		ICM Tenancy Group Number	1	
Station Data Copy			Call Time Restriction	OFF V	
Station CTI IP Address	18		PROCTOR MONITORING Power-Failure	OFF V	
	19		Line Release Cost Display	OFF 💌	
oard Based Data	20		Active PTT Group Number		
:0 Line Data	21		Hot Desk Station		
	22		SMDR Hidden Dialed Digits	Disable 🗸	
ystem Data	23		Left Msg Exec		
	24		Station Web Level	LEVEL 1 💌	
tation Group Data	25		Headset page mode	Speaker 💙	
3DN Line Data	26		Progress Indication	OFF 🔽	
	27		3.1KHz Audio	OFF 💌	
IP Data	28		PICK UP By Flex Button	ON 💌	
ables Data	29		Prepaid Call	OFF 💌	
ubico Dala	30		Prepaid Money (0 - 999999) & Used Prepaid Money	0	
letworking Data	31		SIP USER TABLE INDEX	0	
	32		SIP USER TABLE INDEX 2	0	
Ione Data	✓ 33		SIP USER TABLE INDEX 3	0	

Figure 4.4.2.2-1 Common Attributes

Common Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 4.4.2.2-1 for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ADMIN	Enables station access to the system Database.	Disable Enable	Enable
CO PGM	A station can be permitted to change the CO/IP Line numbers (ports) associated with a Flexible button.	Disable Enable	Disable
Automatic Hold	Enables Auto Hold for the station. With Auto Hold enabled, the system will place an active external call on hold if the user presses a CO/IP Line or DSS button.	OFF ON	ATD: ON Others: OFF
Individual CO Access	Permits stations to use dial codes to access individual CO/IP Lines.	Disable Enable	Enable
CO/IP Line Queuing	Permits the station to queue for the next available Line when an All Lines Busy signal is received.	Disable Enable	Enable
Ringing Line Preference	Enables Ringing Line Preference for the station. Calls that ring the telephone can be answered by going off-hook without selecting the CO/IP Line button.	Disable Enable	Enable
Speed Dial Access	Allows the station to access System Speed Dial bins.	Disable Enable	Enable
Alarm/Door Bell	Assigns a station to receive Alarm/Door Bell signal.	Disable Enable	Disable
Station Account	When ON, the station user must enter an authorization code to access CO/IP Lines.	OFF ON	OFF
Forced SMDR Account Code	When On, the user must enter an Account code to place an outgoing call.	OFF ON	OFF
Loop LCR Account	The Station may be required to enter a Station Authorization code to access LOOP LCR operation.	OFF ON	OFF
Door Open	Enables use of Door open feature by station.	Disable Enable	Enable
Flex Button PGM	The ability to assign Flexible buttons of the iPECS IP and LDP Phones can be controlled. When allowed here, the user may assign features to Flexible buttons but requires special assignments to configure CO/IP Line buttons.	OFF ON	ON
Prefer CO or Group	The System will seize this CO/IP Line or a Line from the CO/IP group number when the station dials "9" (First available Co access code)	CO/IP Line/ CO Group number	
Emergency CO or Group	This field defines the CO/IP Line or Group employed by the system to place Emergency Assistance calls.	CO # or CO Group #	Any CO
ICM Tenancy Group	Assigns stations to an ICM Tenancy Group.	1~15	1
Call Time Restriction	All outgoing calls will disconnect at expiration of the Call Restrict Timer, see System Timers section 4.4.5.20.	OFF ON	OFF
Proctor Monitoring Power-Fail	Enables use of PABX ANI Link device for E-911 support, Only an SLT port can be used for this feature.	OFF ON	OFF
Line Release Cost Display	When a CO/IP line is released, the disconnect cause or call- cost is displayed in the LCD of the iPECS IP or LDP Phone.	OFF ON	OFF
Active PTT Group Number	A station can be assigned to a PTT (Push-to-Talk) group and the group enabled so the station can place and receive PTT announcements for the group.	0~9	
Hot Desk Station	A station can be assigned as a Hot Desk phone. Users and agents can login and use resources of the system through the Hot Desk phone.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
-			
SMDR Hidden Dialed Digits	Enables hiding dialed digits in SMDR output.	Disable Enable	Disable
	When a call forwards to the Secretary of an	OFF	
Left Msg Exec	Executive/Secretary pair, messages can be left for the Executive (ON) or Secretary (OFF).	ON	ON
	Based on this level, the user will be able to view the specified		
	programs within the Station User Web portal. Level 1 can view	LEVEL 1 ~	
Station Web Level	all programs, Levels 2 and 3 are configured in "Station Web	LEVEL 3	LEVEL 1
	Authorization" under System Data. This is a Web only PGM.		
	When a page announcement is received, it is normally played	SPKR/	
Headset page	over the Speaker of the iPECS IP or LDP Phone. For headset	HEADSET/	SPKR
mode	users, the page can played to the headset or both the headset and speaker.	BOTH	SFRIC
Deserves	When employing a non-ISDN terminal, specifically a modem		
Progress	or analog FAX, the ISDN call SETUP message must include	OFF ON	OFF
Indication	this message and "Progress Indication" should be set to "ON".	ON	
	When an analog device (SLT or FAX) uses an ISDN Line in		
	the system, the Information Element of the ISDN SETUP	OFF ON	
3.1 KHz Audio	message must indicate the device only has 3.1 KHz audio		OFF
	capabilities. If an SLT or analog FAX will be allowed access to		
	the ISDN Lines, this parameter must be "ON"		
Pickup by flexible	It is used to set pick up by flex button.	OFF	
button	ON: user can pick up by DSS button.	ON	ON
	OFF: Users cannot pickup by DSS button.		
Prepaid Call	Enables Pre-paid Call feature.	OFF ON	OFF
	An amount can be associated with the station as prepayment		
Prepaid Money (0	for outgoing calls. The assigned "Pre-paid Money" is reduced	000000 -	0
- 999999)	by the calculated call cost (Call Metering or cost/minute). This	999999	0
&	parameter displays the remaining funds for outgoing calls.		
Used Prepaid	Prepaid Money is often used in small hospitality businesses.	000000 -	0
Money	The "Used Pre-paid Money" displays the money that has been	999999	0
	used.		
	Index to SIP User ID table, PGM 126, for the station. Note		
SIP USER TABLE		0~150	0
INDEX	It is selected in "SIP user ID selection" in PGM 133.		
	User can use different use ID for service provider.		
	Index to SIP User ID table, PGM 126, for the station. Note		
SIP USER TABLE	PGM 126 is accessible by Web only.	0~150	0
INDEX2	It is selected in "SIP user ID selection" in PGM 133.		
	User can use different use ID for service provider.		
SIP USER TABLE	Index to SIP User ID table, PGM 126, for the station. Note PGM 126 is accessible by Web only.		
INDEX3	It is selected in "SIP user ID selection" in PGM 133.	0~150	0
	User can use different use ID for service provider.		
	Call Coverage Attributes		
Call Coverage	The Call Coverage feature permits an iPECS IP or LDP	OFF	
Mode	Phone user to receive ring and answer calls for other stations.	ON	OFF
Call Cover Delay	When a covered station rings, the <b>{CALL COVERAGE}</b>	0~9	0
· · · ·			

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Ring	button LED will flash at the covering station and the station will receive ring (immediate or delayed by 0 to 9 ring cycles).		
Call Coverage On Busy	OFF: Call Coverage is implemented when a covered station is in the idle state ON: Call Coverage is implemented when a covered station is on idle or busy state	OFF ON	ON
Call Coverage Through Mobile Ext	OFF: Call Coverage Ring is not delivered to Mobile Extension ON: Call Coverage Ring is not delivered to Mobile Extension	OFF ON	ON
Call Coverage On Busy Range	External Call Only: Call Coverage only for external calls when the covered station is busy External and Internal Call: Call Coverage both for external & internal calls when the covered station is busy	External Call Only/ External and Internal Call	External Call Only
Call Coverage Delay Ring Method	by Originator: Call Coverage Delay is implemented by the covered station's "Call Cover Delay Ring" delay count' by Member: Call Coverage Delay is implemented by covering station's "Call Cover Delay Ring" delay count'	by Originator/ by Member	by Originator
Call Coverage For Wakeup Ring	OFF: Wakeup Ring to covered station is not covered ON: Wakeup Ring to covered station is covered	OFF ON	OFF
Call Coverage Ring Type on Member	Silence: No audible ring is presented and the user must press the flashing Call Coverage button to answer the call. Normal Ring: Audible ring is presented and the call can be answered by simply lifting the handset or pressing the Speaker button.	Silence/ Normal Ring	Normal Ring
	Tone/Ring Attributes	I	
Call Time Tone	A tone can be sent periodically indicating the elapsed time of an outgoing CO/IP call. The Elapsed Call Timer, see System Timers section 4.4.5.20, determines the period between tones.	OFF ON	OFF
Camp-on Tone	Permits camp-on tone to be sent to a station when the station receives a camp-on request.	OFF ON	ON
ICM Dial Tone Source	One of four dial tone sources can be selected for each station: Dial-tone MOH 1 MOH 2 VSF MOH	Dial Tone/ Internal music/ External music/ VSF MOH/ SLT MOH1~5/ VSF MOH2/ VSF MOH3	Dial Tone
ICM Ring Back Tone Source	One of four ring back tones can be selected for each station: Ring Back tone MOH 1 MOH 2 VSF MOH	Ring Back Tone/ Internal music/ External music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Ring Back Tone
Off hook ring type	While the station is Off hook ring, the type of ring can be adjusted as a single burst, muted normal ring, system ring or no audible ring signal.	BURST/ MUTE/ Refer to System Attributes SILENCE	Refer to System attributes

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SIP color ring	Color ring is provided from assigned SIP VM (UMS). SIP extension number that is connected to SIP VM (UMS) server should be assigned.		
Gain table index	Selects one of three Tables employ to set the gain from a device to other device types. PGM 410 to 417 under the Maintenance tab set the individual gains.	1-3	1
Tone table index	Tone table can be programmed.	1-5	1
	Routing Attributes		
Call Forward	Enables Call Forward to be activated by the station.	OFF ON	OFF
DND	Enables DND to be activated by the station. The station can be limited to activate DND for outside calls (CO/IP Only) or for internal calls (ICM only), if desired.	OFF/ ALL/ ICM call only/ CO call only	OFF
Off-net Forward	A station must be allowed Off Net Fwd to forward external incoming calls outside the system or otherwise establish a CO-to-CO connection (Unsupervised Conference). (Except USA version)	Disable Enable	Enable
UCD Group Service	When unavailable, DID/DISA calls to the station can route to the ACD Group to which the station is a member.	OFF ON	OFF
Ring Group Service	When unavailable, DID/DISA calls to the station can route to the Ring Group to which the station is a member.	OFF ON	OFF
UCD Login Priority	ACD Group members may be assigned a priority, 0-9. Members with the highest priority are sent calls ahead of lower priority members. This field is the same as PGM 191- button 19.	0~9	0
Prime Line	Enables Delayed Prime Line (Idle Line) activation, see Idle Line Selection section 4.4.2.11, and Prime Line Delay timer section 4.4.5.20.	HOT WARM	WARM
Auto ACD DND	If an Agent does not answer an ACD call in the ACD No Answer timer, the Agent enters an Unavailable state with the Reason code entered here. The reason code is sent in ACD Event messages.	None #, *, 1~9	NONE
Forward if OOS	If a station is Out-of-Service and has previously forwarded calls, the system will forward the calls to the previous destination if enabled here.	OFF ON	OFF
LDT Table Index	LCR operation for the station will employ the LDT Table index defined by this entry.	No of LDT Table	1
Web Call Back Service	When enabled, the station can activate call back from the Station Web portal.	Disable Enable	Disable
MSN Wait	When a call that is corresponding to a MSN Telephone Number comes in to system, the call is basically routed to idle stations that have free MSN button that is assigned for the corresponding Telephone Number. And also the call can be routed to busy stations in the following condition. OFF : if a keyset is in a busy status, cannot receive incoming MSN Telephone Number corresponding call even though it has a free(idle) corresponding MSN LOOP Button ON : if a keyset is in a busy status, can receive incoming MSN	OFF ON	OFF

ATTRIBUTE

	Telephone Number corresponding call if it has a free(idle) corresponding MSN LOOP Button.		
DID Restrict	A call routed using DID normally routes to the appropriate station. If desired, a Station can be restricted from receiving DID calls.	OFF ON	OFF
DISA Restrict	A call routed using DISA normally routes to the appropriate station. If desired, a Station can be restricted from receiving DISA calls.	OFF ON	OFF
Pre-Sel Msg DND	When the user activates Pre-Selected or Custom Messages, the system can automatically activate DND for the station so that the station will not receive ring and the call is routed based on the DND treatment.	OFF ON	OFF
	Voice Attributes		
Page Access	Allows station to access paging facilities.	OFF ON	OFF
Forced hands Free Mode	When placing an intercom call, a user can change the ICM signaling mode, Tone Ring to Hands free answer mode or HF Answer to Tone Ring.	OFF ON	OFF
Group Listening	Enables Group Listen feature, audio is sent to both the handset and speaker with the handset microphone active and speakerphone microphone OFF.	Disable Enable	Disable
Override Privilege	Enables intrusion to gain access to an active CO/IP call.	Disable Enable	Disable
Voice Over	Enables use of Voice Over by the station.	Disable Enable	Enable
Barge In Mode	Barge-in permits an authorized Station to intrude into other existing outside/internal calls or to force disconnection existing of an existing call.	Disable/ Only Monitor/ Monitor & Join & Disconnect	Disable
CAMP ON ENABLE	When On, a Station that is busy on a call, can receive Camp- on tones from another calling Station or CO/IP Line.	OFF ON	ON
Video Show on Calling (ex. IP Video Door Phone)	<ul> <li>When VoIP video door phone rings to a video-enabled IPKTS handset, the video streaming commences immediately while the IPKTS handset is in the ringing and the video stream continues when answered.</li> <li>OFF : normal implementation (video starts after answer)</li> <li>ON: video stream from this Video Door Phone to the ringing video-enabled LIP Phone even though this is alerting stage.</li> <li>Condition : A VOIU/VOIB channel for RTP-Packet-Relay purpose is required to serve ring-back-tone generation via a DSP channel.</li> <li>That is because system does pre-answer to the Video Door</li> </ul>	OFF ON	OFF

#### Table 4.4.2.2-1 Common Attributes

DESCRIPTION

Phone even though the receiving station is on alerting state.

DEFAULT

RANGE

#### 4.4.2.3 Terminal Attributes - PGM 112

Selecting Terminal Attributes will display the Terminal Attributes data input page, Figure 4.4.2.3-1. Enter a valid station range and click **[Load]** to enter Terminal Attributes data. Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations when saved.

	~						
PGM Search		Favorite	PGM Te	rminal Attributes(112)			
System ID & Numbering Plans	E	Enter Stati	on Range :			2 Load	ſs
Station Data ~			nge 100-149	3			6
Station Type(110)		Order <u>∔</u> a	Check All	Attribute <u>↓</u> ª	Value		
Common Attributes(111)		1		Auto Speaker Selection	ON 💌		
> Terminal Attributes(112)		2		No Touch Answer	OFF 💌		
CLI Attributes(113)		3		Headset Ring	Speaker 💌		
Flex Buttons(115/129)		4		Speakerphone	ON 🔽		
Station COS(116)		5		LCD Display LED	MVVI 🔽		
CO/IP Group Access(117)		6		Message Scroll Speed	3		
Internal Page Zone(118)		7		E&MIC Headset	OFF 💌		
Ptt Group Access(119)		8		Enblock Mode	OFF 🗸		
Preset Call Forward(120)		9		Back Light Usage	BUSY ONLY		
Idle Line Selection(121)		10		By-Pass DTMF	OFF V		
Station IP Attribute(122)		11		Serial DSS Usage	Enable 🗸		
Station Timer(123)				SLT Attributes			
Linked Station(124)		1		Data Security	OFF 💌		
Station ICM Group(125)		2		Modem Enable	OFF 🔽		
VM Attributes(127)		3		SLT CID Type	FSK 🔽		
Station Personal CCR(128)		4		Howling Tone to SLT	ON V		
Station Name Display		5		Send SLT CLI Info	ON V		
Station Data Copy		6		SLT Flash Mode	Flash Transfer 🔽		
Station CTI IP Address		7		SLT Configuration Mode	Default 🗸		
Board Based Data		8		BLOCK Back Call	OFF 🗸		

Figure 4.4.2.3-1 Terminal Attributes (PGM 112)

Terminal Attributes define features and functions available to the terminal itself. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 4.4.2.3-1 for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT			
	Attributes					
Auto Speak	Enables [SPEAKER] activation when a CO/IP Line, DSS or	OFF	ON			
Selection	other feature button is pressed; there is no need to lift handset.	ON	ON			
No-Touch Answer	Enables No-touch answer, which automatically connects	OFF	OFF			
	transferred calls to the station's speakerphone after a short tone.	ON	OFF			
	Salasta davias ta rassiva incoming ring signala. Speakar	Speaker/				
Headset Ring	Selects device to receive incoming ring signals, Speaker, Headset or Both.	Headset/	SPEAKER			
		Both	<u> </u>			
Speekerphone	Salasta Speakerphone or Headast mode	OFF	ON			
Speakerphone	Selects Speakerphone or Headset mode.	ON	ON			
	The LCD LED, upper left of LCD, may be used for Intercom Call	RING	N4)A/I			
LCD Display LED	ring Indication or Message Wait Indication.	MWI	MWI			

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Message Scroll Speed	Select message scroll speed (Not used at present).	0 ~7	3
E & Mic Headset	Select Ear & Mic or Headset mode for the iPECS IP or LDP Phone.	OFF ON	OFF
En-block mode	When On, the user-dialed digits are stored at the iPECS IP or LDP Phone until explicitly sent by the user. When sent, all dialed digits are sent to the system in a block. En-block mode is only available to iPECS IP or LDP Phones with 3-Soft keys.	OFF ON	OFF
Back Light Usage	The backlight of iPECS IP and LDP Phones is assigned to stay off, light only when the station is busy, or light constantly.	Always Off/ Busy Only/ Always On	Busy Only
BY PASS DTMF	When detected, DTMF from an SLT may be regenerated by CO/IP Line interface circuitry, the SLT port can by-pass detection so DTMF is not detected.	OFF ON	OFF
Serial DSS Usage	Enables an LIP-8000 station to have a Serial DSS/BLF Console attached.	Disable Enable	Enable
	SLT Attributes		
Data Security	Disables override and camp-on tones to the station. This feature is commonly used for an analog modem or FAX to assure tones do not affect received information.	OFF ON	OFF
MODEM Enable	It is used to set modem attributes.	OFF ON	OFF
SLT CID TYPE	SLT can send CID by programming options.	FSK/ DTMF	FSK
Howling Tone to SLT	Permits Howler tone to be sent to an SLT when left off-hook.	OFF ON	ON
Send SLT CLI Info	When allowed, the system sends CLI information to the SLT.	OFF ON	ON
SLT Flash Mode	<ul> <li>When an SLT activates a Hook-flash the system will perform one of the following operations:</li> <li>Flash Transfer – active call placed on hold and dial tone is returned.</li> <li>Flash-Drop – the active call is dropped.</li> <li>Flash-Ignore – the Hook-flash is ignored, no action is taken.</li> <li>Hold Release – the active call is placed on hold and if the SLT returns to idle the call is dropped.</li> </ul>	Flash xfer/ Flash Drop/ Flash Ignore/ Hold Release	FlashTransf er
SLT configuration mode	For the South African region, the SLT gain is adjusted based on the SLT Configuration Mode.	Default/ Short/ Long/ Far	Default
Block Back Call	When an SLT attempts to transfer a CO/IP call to another CO/IP Line, the transfer can be blocked and the call released.	OFF ON	OFF

Table 4.4.2.3-1 Terminal Attributes

#### 4.4.2.4 CLI Attributes - PGM 113

Selecting CLI Attributes will display the CLI Attributes data input page, Figure 4.4.2.4-1. Enter a valid station range and click **[Load]** to enter CLI Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored for the entire range of stations when saved.

	<u>^</u>					
PGM Search	Favorite	e PGM CL	l Attributes(113) X			
System ID & Numbering Plans	Enter Sta	tion Range :		2	Load	ſ
Station Data ~		ange 100-14	9			
Station Type(110)	Order <u>↓</u> a	Check All	Attribute <u>↓</u> ª	Valu	le	
Common Attributes(111)	1		DID DISA Wait/Show 2nd PSTN CLI	ON 💌		
Terminal Attributes(112)	2		CLIP Display	OFF 🔽		
CLI Attributes(113)	3		COLP Display	OFF 💌		
Flex Buttons(115/129)	4		CLIR Service	OFF 💌		
Station COS(116)	5		COLR Service	OFF 🗸		
CO/IP Group Access(117)	6		CLI Name Display	OFF 🔽		
Internal Page Zone(118)	7		CLI/IP Message Wait	OFF 🔽		
Ptt Group Access(119)	8		FAST SLT CLI Enable	TRN	*	
Preset Call Forward(120)	9		E.164 Call Log CLI (for SIP Extension)	OFF 🔽		
Idle Line Selection(121)			CID Password			
Station IP Attribute(122)	10		Station CLI 1	100		
Station Timer(123)	11		Station CLI 2			
Linked Station(124)	12		Station CLI 3			
Station ICM Group(125)	13		Station CLI 4			
VM Attributes(127)	14		Station CLI 5			
Station Personal CCR(128)	15		CLI/Redirect Display	Original CL		
Station Name Display	16		Station or Attendant	-	×	
Station Data Copy	10		Station of Facility and			

Figure 4.4.2.4-1 CLI Attributes (PGM 113)

CLI Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable) or enter is made in the text box. Refer to Table 4.4.2.4-1 for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DID DISA Wait/Show 2nd PSTN CLI	When a busy station receives a DID/DISA call, the call may queue to the station instead of receiving busy treatment. With DID/DISA Call Wait, the caller will hear Ring-back tone and the CO/IP Line LED flashes. Also, the CLI for the new incoming call displays.	OFF ON	ON
CLIP Display	CLIP (Calling Line Identification Presentation), a carrier service, sends the number of the calling party to the system in the call SETUP message. If enabled here, the number will be shown in the iPECS Phone LCD.	OFF ON	OFF
COLP Display	COLP (Connected Line Id Presentation), a carrier service, sends the number of the answering party to the system in the call CONNECT message. If enabled here, the number will be shown in the iPECS Phone LCD.	OFF ON	OFF

#### Table 4.4.2.4-1 CLI Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CLIR Service	CLIR (Calling Line Identification Restriction), a carrier service, removes calling party Id sent from the ISDN to the called party with a RESTRICT instruction in the SETUP message. If enabled here, the system will send the RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	OFF ON	OFF
COLR Service	COLR (Connected Line Id Restriction), a carrier service, removes connected party Id sent from the ISDN to the calling party with a RESTRICT instruction in the CONNECT message. If enabled here, the system will send the restrict instruction to the PSTN when the station answers an ISDN call.	OFF ON	OFF
CLI Name Display	When the CLI data in the call SETUP message from the carrier matches a number in Speed Dial, the system can display the name associated with the Speed Dial bin, if set to ON.	OFF ON	OFF
CLI/IP Message Wait	A log of missed calls with caller identification can be maintained for the user, permitting the user to call back the identified party. Up to 1000 entries are maintained in the log, system-wide.	OFF ON	OFF
FAST SLT CLI Enable	If this option is set to ON, when a transferred call is routed to an SLT or DECT phone, the CLI for the CO/IP call is sent to the SLT or DECT phone instead of transferring station number.	TRN/ Original CLI	TRN
E.164 Call Log CLI (for SIP Extension)	When enabled, the E.164 format CLI is sent to SIP Extensions for an incoming CO/IP call.	OFF ON	OFF
Station CLI 1	When not restricted by CLIR or COLR, this entry is added to the number in the selected COIP/CLIP Table and sent in the ISDN call SETUP or CONNECT message in place of the station number.	12 digits	100
Station CLI 2	When not restricted by CLIR or COLR, this entry is added to the number in the selected COIP/CLIP Table and sent in the ISDN call SETUP or CONNECT message in place of the station number.	16 characters	Related with PGM 143 – Station CLI Type
Station CLI 3	When not restricted by CLIR or COLR, this entry is added to the number in the selected COIP/CLIP Table and sent in the ISDN call SETUP or CONNECT message in place of the station number.	16 characters	Related with PGM 143 – Station CLI Type
Station CLI 4	When not restricted by CLIR or COLR, this entry is added to the number in the selected COIP/CLIP Table and sent in the ISDN call SETUP or CONNECT message in place of the station number.	16 characters	Related with PGM 143 – Station CLI Type
Station CLI 5	When not restricted by CLIR or COLR, this entry is added to the number in the selected COIP/CLIP Table and sent in the ISDN call SETUP or CONNECT message in place of the station number.	16 characters	Related with PGM 143 – Station CLI Type
CLI / Redirect Display	When an incoming call is Redirected in the carrier's network, the call SETUP message will contain an original and redirected CLI. This selection determines if the iPECS	Original CLI/ Redirect CLI	Original CLI

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	IP and LDP Phone will display the original or redirected number.		
Station or Attendant	When the system sends a station number with CLIP or COLP, the number can be either the Attendant number or the number of the station.	Station Attendant	Station

Table 4.4.2.4-1 CLI Attributes

## 4.4.2.5 Flexible Buttons - PGM 115/129

Selecting Flex Buttons will display the Flex buttons data input page, Figure 4.4.2.5-1. Enter a valid Station range and click **[Load]** to enter Flex button data.

PECS eMG80	Adminis	tration	Maintenance		Ch	ange Language 🛛 Log	Out
PGM Search	Favorite PG	Flex Butto	ons(115/129) ×				
System ID & Numbering Plans	Enter Station	Range :			Load	Sav	e
Station Data ~		_					
Station Type(110)	Check All	Button	Туре		Value	DSS Label	
Common Attributes(111)		Flex Button 1	CO Line	~	1		
Terminal Attributes(112)		Flex Button 2	CO Line	~	2		
CLI Attributes(113)		Flex Button 3	CO Line	~	3		
Flex Buttons(115/129)		Flex Button 4	CO Line	~	4		٦
Station COS(116)		Flex Button 5	CO Line	~	5		7
CO/IP Group Access(117)		Flex Button 6	CO Line	~	6		7
Internal Page Zone(118)		Flex Button 7	CO Line	~	7		1
Ptt Group Access(119)		Flex Button 8	CO Line	~	8		=
Preset Call Forward(120)		Flex Button 9	CO Line	~	9		-
Idle Line Selection(121)		Flex Button 10	CO Line	~	10		4
Station IP Attribute(122)		Flex Button 11	Loop	~			5
Station Timer(123)		Flex Button 12	Loop	~			-
Linked Station(124)		Flex Button 13	N/A	· ·			=
Station ICM Group(125)		Flex Button 14	N/A	· ·			-
VM Attributes(127)		Flex Button 15	N/A	×			-
Station Personal CCR(128)		Flex Button 16	N/A	×			-
Station Name Display		Flex Button 17	N/A	~			-
Station Data Copy		Flex Button 18		~			-
Station CTI IP Address		Flex Button 19	N/A				_
	-	Flex Button 19	N/A	~			_
Board Based Data			N/A	~			_
CO Line Data		Flex Button 21	N/A	~			_
		Flex Button 22	N/A	~			_
System Data		Flex Button 23	N/A	*			

Figure 4.4.2.5-1 Flex Buttons Assignment

Each Flex button for each iPECS IP and LDP Phone and DSS Console can be assigned a function (TYPE) as below. After selecting the Type for a button, enter the value, if required. The types available from the drop-down menu are shown in Table 4.4.2.5-1 below. In addition, for the LIP Phone models 8040, 8050, and 9070 and the LSS Console models, a label can be assigned that is used as the designation for the button in the LCD of the phone.

Issue 1.1

TYPE	REMARK				
Empty	Empty (unassigned), may be defined by the user.				
CO Line	Assigns button to access a defined CO/IP line.				
CO Group	Assigns button to access a free line in the CO/IP Group.				
Loop	Assigns button to access a loop line.				
Station Number	Assigns button as DSS/BLF for the assigned station number.				
Programming (Numbering Plan)	Assigns button to dial a code from the Flexible Numbering Plan, see Appendix B section.				
Programming (PGM)	Assigns button to perform a User Program function from the Fixed Numbering Plan, Appendix B section.				
Station Speed Bin	Station Speed Dial bin.				
System Speed Bin	System Speed Dial bin.				
Net Station Number	Refer to section 4.4.10.4 Network Numbering Plan Table - PGM 324.				

#### 4.4.2.6 Station COS - PGM 116

Selecting Station COS will display the Station COS data input page, Figure 4.4.2.6-1. Enter a valid station range and click **[Load]** to enter the Station COS data.

iPECS eMG80	Administration	n Maintenance		Change Lar	nguage Log Out
PGM Search	Favorite PGM	Station COS(116) ×			
System ID & Numbering Plans	Enter Station Rang	e :		2 Load	Save
Station Data $\sim$	Station Range 100-				0000
Station Type(110)	Check All	Attribute	Value		
Common Attributes(111)		Day COS	1 💌		
Terminal Attributes(112)		Night COS	1 💌		
CLI Attributes(113)		Timed Ring COS	1 💌		
Flex Buttons(115/129)					
> Station COS(116)					
CO/IP Group Access(117)					
Internal Page Zone(118)					
Ptt Group Access(119)					
Preset Call Forward(120)					
Idle Line Selection(121)					
Station IP Attribute(122)					
Station Timer(123)					

Figure 4.4.2.6-1 Station COS

All stations are assigned a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls, refer to Table 4.4.2.6-1. Separate COS assignments are made for Day, Timed and Night Mode operation. As a default all stations are assigned with a Station COS of 1 for all modes, no restrictions. The station COS interacts with the CO Line COS to establish overall dialing or Toll restrictions. This interaction and the resulting restrictions are given in Table 4.4.2.6-2.

Long distance calls are determined by the 1st dialed digit ("0" or "1") and the number of digits dialed. If the 1st digit dialed is a LD code, default "0" or "1", or, if the number of digits dialed exceeds the assigned LD digit counter in System Data SMDR Attributes section 4.4.5.17, the call is consider a Long Distance call and appropriate restrictions applied.

STATION COS	RESTRICTIONS					
1	No restrictions are placed on dialing from the station.					
2	The assignments in Exception Table A are monitored for allow and deny numbers.					
3	The assignments in Exception Table B are monitored for allow and deny numbers.					
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.					
5	The leading digit dialed cannot be a Long Distance code, default "0" or "1", and further denied/allowed based on Exception Table C.					
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 7 digits, and further denied/allowed based on Exception Table C.					
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.					
8	The assignments in the Exception Table D are monitored for allow and deny numbers.					
9	The assignments in the Exception Table E are monitored for allow and deny Numbers					
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.					
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.					

#### Table 4.4.2.6-1 STATION COS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5		
STA COS	No Restriction	No Restriction	No Restriction	Only Local Call (LD	No Restriction		
1				code/counter) and			
				Table C			
STA COS	Exception Table A	Exception Table A	No Restriction	Only Local Call (LD	No Restriction		
2	governs the dialing	governs the dialing		code/counter) and			
				Table C			
STA COS	Exception Table B	No Restriction	Exception Table B	Only Local Call (LD	No Restriction		
3	governs the dialing		governs the	code/counter) and			
			dialing	Table C			
STA COS	Exception Table A &	Exception Table A	Exception Table B	Only Local Call (LD	No Restriction		
4	B governs the dialing	governs the dialing	governs the	code/counter) and			
			dialing	Table C			
STA COS	Local Call only (LD	Local Call only (LD	Local Call only	Only Local Call (LD	No Restriction		
5	Code, "1" or "0") and	Code, "1" or "0")	(LD Code, "1" or	code/counter) and			
	Table C	and Table C	"0") and Table C	Table C			
STA COS	Only Local Call (LD	Only Local Call (LD	Only Local Call	Only Local Call (LD	No Restriction		
6	code/counter) and	code/counter) and	(LD code/counter)	code/counter) and			
	Table C	Table C	and Table C	Table C			
STA COS	In-house dialing only	In-house dialing	In-house dialing	In-house dialing only	In-house		
7		only	only		dialing only		
STA COS	Exception Table D	Exception Table D	No Restriction	Only Local Call (LD	No Restriction		
8	governs the dialing	governs the dialing		code/counter) and			
				Table C			

#### Table 4.4.2.6-2 STATION/CO COS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 9	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing		No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing		No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction

Table 4.4.2.6-2 STATION/CO COS

# 4.4.2.7 CO/IP Group Access - PGM 117

Selecting CO/IP Group Access will display the CO/IP Group Access data input page, Figure 4.4.2.7-1. Enter a valid station range and click **[Load]** to enter CO/IP Group Access data. Check the appropriate boxes to allow or delete access to each CO/IP Group.

iPECS iPECS eMG80	Administration	Maintenance	Change Language	Log Out
PGM Search	Favorite PGM CO.	IP Group Access(117) X		
System ID & Numbering Plans	Enter Station Range :		2 Load	Save
Station Data 🗸 🗸	Station Range 100-149			Jave
Station Type(110)	CO/IP Group	Unselect All		
Common Attributes(111)	Group 1			
Terminal Attributes(112)	Group 2			
CLI Attributes(113)	Group 3			
Flex Buttons(115/129)	Group 4			
Station COS(116)	Group 5			
> CO/IP Group Access(117)	Group 6			
Internal Page Zone(118)	Group 7			
Ptt Group Access(119)	Group 8			
Preset Call Forward(120)	Group 9			
Idle Line Selection(121)	Group 10			
Station IP Attribute(122)	Group 11			
Station Timer(123)	Group 12			
Linked Station(124)	Group 13			
Station ICM Group(125)	Group 14	✓		
VM Attributes(127)	Group 15			
Station Personal CCR(128)	Group 16			
Station Name Display	Group 17			
Station Data Copy	Group 18			
Station CTI IP Address	Group 19			
	Group 20			

Figure 4.4.2.7-1 CO/IP Group Access

Stations can be allowed or denied access to CO Lines and IP Channels by group. As a default, all stations are allowed access to all groups except Private Lines (group 00) and unused CO Lines. The CO Line of an RSGM is assigned as a Private Line by default.

## 4.4.2.8 Internal Page Zone Access - PGM 118

Selecting Internal Page Zone will display the Internal Page Zone data input page, Figure 4.4.2.8-1. Enter a valid station range and click **[Load]** to enter the Internal Page Zone Access data. Check the appropriate boxes to allow or delete access to each Internal Page Zone.

PECS eMG80	Administration	Maintenance	Change Language	Log Out	
PGM Search	Favorite PGM	nal Page Zone(118)			
System ID & Numbering Plans					
Station Data 🗸 🗸 🗸	Enter Station Range :		C Load	Save	
	Station Range 100-149				
Station Type(110)	Internal Page	Select All			
Common Attributes(111)	Internal Page Zone 1				
Terminal Attributes(112)	Internal Page Zone 2				
CLI Attributes(113)	Internal Page Zone 3				
Flex Buttons(115/129)	Internal Page Zone 4				
Station COS(116)	Internal Page Zone 5				
CO/IP Group Access(117)	Internal Page Zone 6				
Internal Page Zone(118)	Internal Page Zone 7				
Ptt Group Access(119)	Internal Page Zone 8				
Preset Call Forward(120)	Internal Page Zone 9				
Idle Line Selection(121)	Internal Page Zone 10				
Station IP Attribute(122)	Internal Page Zone 11				
Station Timer(123)	Internal Page Zone 12				
Linked Station(124)	Internal Page Zone 13				
Station ICM Group(125)	Internal Page Zone 14				
VM Attributes(127)	Internal Page Zone 15				
Station Personal CCR(128)	Internal Page Zone 16				
	Internal Page Zone 17				
Station Name Display	Internal Page Zone 18				
Station Data Copy	Internal Page Zone 19				
Station CTI IP Address	Internal Page Zone 20				
Board Based Data	Internal Page Zone 21				
	Internal Page Zone 22				
CO Line Data	Internal Page Zone 23				
	Internal Page Zone 24				
Bystem Data	Internal Page Zone 25				
Station Group Data	Internal Page Zone 26				
•	Internal Page Zone 27				
ISDN Line Data	Internal Page Zone 28				
SIP Data	Internal Page Zone 29				
	Internal Page Zone 30				

Figure 4.4.2.8-1 Internal Page Zone

Each iPECS IP and LDP Phone is assigned to receive announcements from each Internal Page Zone. A station can be assigned to any, all or no zones. Note a remote station or a station not assigned to any Internal Zone will not receive any page announcements including Internal All Call. As a default, all stations except remote stations are assigned to zone 1.

## 4.4.2.9 PTT Group Access - PGM 119

Selecting PTT Group Access will display the PTT Group Access data input page, Figure 4.4.2.9-1. Enter a valid Station range and click **[Load]** to enter the PTT Group Access data. Check the appropriate boxes to allow or delete access to each PTT Group.

iPECS iPECS eMG80	Administration	Maintenance	Change Language Log Out
PGM Search		up Access(119) ×	
System ID & Numbering Plans	Enter Station Range :		C Load Save
Station Data 🗸 🗸 🗸	Station Range 100-149		
Station Type(110)	Internal Page	Select All	
Common Attributes(111)	PTT Group 1		
Terminal Attributes(112)	PTT Group 2		
CLI Attributes(113)	PTT Group 3		
Flex Buttons(115/129)	PTT Group 4		
Station COS(116)	PTT Group 5		
CO/IP Group Access(117)	PTT Group 6		
Internal Page Zone(118)	PTT Group 7		
> Ptt Group Access(119)	PTT Group 8		
Preset Call Forward(120)	PTT Group 9		
Idle Line Selection(121)	PTT Group 0		
Station IP Attribute(122)			
Station Timer(123)			
Linked Station(124)			

Figure 4.4.2.9-1 PTT Group Access

Each iPECS IP or LDP Phone is assigned to receive PTT announcements from any combination of the ten (10) PTT groups. Note a station not assigned to any group will not receive PTT page announcements including Internal All PTT group page. As a default, all stations except remote stations are assigned to group 0.

### 4.4.2.10 Preset Call Forward - PGM 120

Selecting Preset Call Forward will display the Preset Call Forward data input page, Figure 4.4.2.10-1. Enter a valid station range and click **[Load]** to enter the Station Preset Call Forward data.

iPECS iPECS eMG80	Adminis	stration Main	tenance		Change Langua	ge Log Out
PGM Search	Favorite P	3M Preset Call For	ward(120) ×			
System ID & Numbering Plans	Enter Station	Range :			Icoad	Save
Station Data ~	Station Rang	_				Care
Station Type(110)	Check All	Call Forward Type	De	stination		
Common Attributes(111)		Unconditional	N/A			
Terminal Attributes(112)		Internal Busy	N/A			
CLI Attributes(113)		Internal No Answer	N/A	:		
Flex Buttons(115/129)		Internal DND	N/A	:		
Station COS(116)		External Busy	N/A	:		
CO/IP Group Access(117)		External No Answer	N/A			
Internal Page Zone(118)		External DND	N/A	:		
Ptt Group Access(119)		Transfer Mail Box	N/A 💌	:		
> Preset Call Forward(120)						
Idle Line Selection(121)						
Station IP Attribute(122)						
Station Timer(123)						
Linked Station(124)						

Figure 4.4.2.10-1 Preset Call Forward

Stations can be programmed so that incoming CO/IP and Intercom calls forward to a preset station or station group. This allows an external or internal call to initially ring at a station and forward to a pre-determined destination. Preset Forward can be separately assigned Unconditional, Internal Busy, Internal No Answer, Internal DND, External Busy, External No Answer, External DND preset forwarding to any station, hunt group, system speed dial bin (off-net) or Station ICR. As a default, no Preset Call Forward is assigned.

For "Transfer Mail-Box" enter the Station Group number of the Voice Mail group (external VM, VSF or Feature Server Voice Mail group). This will permit iPECS IP or LDP Phone users to forward calls directly to the desired user's Voice Mail-Box.

## 4.4.2.11 Idle Line Selection - PGM 121

Selecting Idle Line Selection will display the Idle Line Selection data input page, Figure 4.4.2.11-1. Enter a valid Station range and click **[Load]** to enter the Idle Line Selection data.

iPECS iPECS eMG80	Administration	Maintenance	Change Language Log Out
PGM Search	Favorite PGM Idle	Line Selection(121)	
System ID & Numbering Plans	Enter Station Range :		2 Load Save
Station Data 🗸 🗸 🗸	- Station Range 100-149		
Station Type(110)	Destination	Value	
Common Attributes(111)	<ul> <li>No Selection</li> </ul>		
Terminal Attributes(112)	Flex Button		
CLI Attributes(113)	🔿 CO Line		
Flex Buttons(115/129)	🔵 CO Group		
Station COS(116)	<ul> <li>Station/Net</li> </ul>		
CO/IP Group Access(117)	🔵 Hunt Group		
Internal Page Zone(118)	Station Speed		
Ptt Group Access(119)	🔘 System Speed		
Preset Call Forward(120)			
> Idle Line Selection(121)			
Station IP Attribute(122)			
Station Timer(123)			

Figure 4.4.2.11-1 Idle Line Selection

When a station goes to an off-hook condition (lifts handset or presses **[SPEAKER]** button), the system normally provides intercom dial tone. In place of dial tone, the station can be programmed to access a CO Line, CO/IP Group or call a Station or Station Group as described in Table 4.4.2.11-1 when the station goes off-hook. The Idle Line Selection (Prime Line) can be either immediate or delayed after going off-hook. The immediate/delay selection is based on the Hot/Warm assignment in Common Attributes - Prime Line, section 4.4.2.2.

ТҮРЕ	DESCRIPTION
No Selection	Returns Intercom dial tone.
Flex Button	Flex button, activates Flex button as if pressed.
CO Line	CO/IP path seizes CO line.
CO/IP Group	CO/IP Group, seizes CO line from the CO/IP Group.
Station/Net	Station, calls the assigned station.
Hunt group	Hunt group, calls the assigned hunt group.
Station speed	Station speed, calls the assigned station speed.
System speed	System speed, calls the assigned system speed.

Table 4.4.2.11-1 IDLE LINE SELECTION TYPE & VALUE

### 4.4.2.12 Station IP Attributes - PGM 122

Selecting Station IP Attributes will display the Station IP Attributes data input page, Figure 4.4.2.12-1. Enter a valid Station range and click **[Load]** to enter the Station IP Attributes data.

iPECS iPECS eMG80	Admin	istration	Maintenance	Change Language Log Out
PGM Search	Favorite F	PGM Station IP	Attribute(122) ×	
System ID & Numbering Plans	Enter Static	n Range :		2 Load Save
Station Data 🗸 🗸 🗸		- nge 100-149		
Station Type(110)	Change	Attribute	Value	
Common Attributes(111)		Direct IP Call	Enable 💌	
Terminal Attributes(112)				
CLI Attributes(113)				
Flex Buttons(115/129)				
Station COS(116)				
CO/IP Group Access(117)				
Internal Page Zone(118)				
Ptt Group Access(119)				
Preset Call Forward(120)				
Idle Line Selection(121)				
> Station IP Attribute(122)				
Station Timer(123)				

Figure 4.4.2.12-1 Station IP Attributes

Stations are allowed access to the systems VoIP resources based on the Station IP Attributes.

### 4.4.2.13 Station Timers - PGM 123

Selecting Station Timers will display the Station Timers input page, Figure 4.4.2.13-1. Enter a valid Station range and click **[Load]** to enter the Station Timers data.

iPECS iPECS eMG80	Adm	ninistration Maintenance		Change L	.anguage	Log Out
PGM Search	Favorit	e PGM Station Timer(123) ×				
System ID & Numbering Plans	Enter Sta	tion Range :		0	Load	Save
Station Data 🗸 🗸 🗸	Station R	ange 100-149				
Station Type(110)	Change	Attribute	Value		Range	
Common Attributes(111)		Station Forward No Answer Timer	0	(*1 sec)	000-600	
Terminal Attributes(112)		Cut Off Timer	0	(*1mm)	00-99	
CLI Attributes(113)						
Flex Buttons(115/129)						
Station COS(116)						
CO/IP Group Access(117)						
Internal Page Zone(118)						
Ptt Group Access(119)						
Preset Call Forward(120)						
Idle Line Selection(121)						
Station IP Attribute(122)						
> Station Timer(123)						
Linked Station(124)						

Figure 4.4.2.13-1 Station Timers

Certain timers can be assigned on a station basis. Available timers, description and valid inputs are given in Table 4.4.2.13-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Forward No Answer Timer	This timer determines the duration the station will ring prior to Ring-No-Answer Forward. This setting affects both manual and Preset Call Forward and overrides the System No answer forward timer section 4.6.1.	000-600 (seconds)	000
Cut Off Timer	Allowed length of CO/IP calls when station is assigned Call Time restriction in Common Attributes, PGM 111, button 17.	00-99 (minutes)	00

#### Table 4.4.2.13-1 STATION TIMERS (PGM 123)

# 4.4.2.14 Linked Station - PGM 124

Selecting Linked Station will display the Linked Station input page, Figure 4.4.2.14-1. Enter a valid Station range and click **[Load]** to enter the Linked Station data.

CS eMG80	<u> </u>							
'GM Search	Favorite PGM	Station Timer(123)	× Terminal A	ttributes(112) 🗶	Linked S	tation(124)	×	
System ID & Numbering Plans	Enter Station Rang	a ·		2	Load			Save
Station Data ~	Station Range 100-				LUAU			Save
Station Type(110)	Station Number 18	MAC Address	IP Address	Router IP Addres	s Mode	ARP	Register	Codec
Common Attributes(111)	100					OFF 💌	Multicast 🖂	G.711 💌
Terminal Attributes(112)	101					OFF 💌	Multicast 🖂	G.711 💌
CLI Attributes(113)	102					OFF 😽	Multicast 🖂	G.711 💌
Flex Buttons(115/129)	103					OFF 💌	Multicast 🖂	G.711 💌
Station COS(116)	104					OFF 💌	Multicast 🖂	G.711 💌
CO/IP Group Access(117)	105					OFF 💌	Multicast 🖂	G.711 💌
Internal Page Zone(118)	106					OFF 💌	Multicast 🔽	G.711 🔽
Ptt Group Access(119)	107					OFF 💌	Multicast 🖂	G.711 🔽
Preset Call Forward(120)	108					OFF 🖂	Multicast 🖂	G.711 🔽
Idle Line Selection(121)	109					OFF 🖂	Multicast 🖂	G.711 🔽
Station IP Attribute(122)	= 110					OFF 💌	Multicast 🖂	G.711 🔽
Station Timer(123)	111					OFF 😽	Multicast 🖂	G.711 🔽
Linked Station(124)	112					OFF 🗸	Multicast 🖂	G.711 🗸
Station ICM Group(125)	113					OFF 😽	Multicast 🖂	G.711 💌
VM Attributes(127)	114					OFF 😽	Multicast 🖂	G.711 💌
Station Personal CCR(128)	115					OFF 🗸	Multicast 🖂	G.711 🗸
Station Name Display	116				·	OFF 🗸	Multicast 🖂	G.711 🔽
Station Data Copy	117					OFF 🗸	Multicast 🖂	G.711 🔽
Station CTI IP Address	118				<b>.</b>	OFF 🗸	Multicast 🖂	G.711 🗸
	119					OFF V	Multicast 👽	6.711

Figure 4.4.2.14-1 Linked Station Pair

A station can be linked to another station so that the two stations effectively act as a single station with the attributes of the primary station number. An unregistered or registered station may be linked to a primary station. When unregistered station linking is used, the linked station does not reduce the system's capacity. However, in this case, the linked station must be an iPECS IP Phone, Phontage, UCS Client. Unregistered linking of stations connected to other modules is not allowed.

When a pre-registered station is to be linked to the primary station, it maintains its database except that the station number is the same as the primary station. In this case, the linked station will reduce the system capacity by one.

When a station is linked, characteristics of the connection to the system can be defined such as local device connection and codec type.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MAC Address	Assigns the MAC address of a linked station.		
IP Address	The IP Address of the linked station.	IPv4 address	
Router IP Address	Set the Router IP address for a linked station.	IPv4 address	
Mode	Display operating mode of the station, remote or local and NAT or NAPT.	Remote: R/NAPT R/NAT R Local remote LO/NAPT LO/NAP LO Local L/NAPT L/NAT L/NAP L/NAP L	L (Local)
ARP	If enabled, the system will directly send packets using the MAC address.	OFF ON	OFF
Register	Normally, iPECS IP devices register using multi-cast packets. When separated from the system, that is when the device is remote, unicast is used.	Multicast Unicast	Multicast
Codec Type	CODEC type.	G.711/ G.723.1/ G.729/ System, use the codec defined for the system	G.711

#### Table 4.4.2.14-1 LINKED STATION TABLE

## 4.4.2.15 Station ICM Tenancy Group - PGM 125

Selecting Station ICM Tenancy Group displays the Station ICM Tenancy Group input page, Figure 4.4.2.15-1. Select ICM Tenancy Group, the system will display the ICM Tenancy Group Characteristics. Check the appropriate box to allow access to the group and enter the Station number of the group Attendant.

iPECS iPECS eMG80	Administration	Maintenance	Change Language Log Out
PGM Search	Favorite PGM	Station (St. Source) X	
	Favorite PGM	Station ICM Group(125)	
System ID & Numbering Plans	Enter ICM Tenancy	Group No (1 - 15) : Load	Save
Station Data 🗸 🗸 🗸	ICM Tenancy Group	1	
Station Type(110)	ATD STA Number :		
Common Attributes(111)	Select All	Set Access Group	
Terminal Attributes(112)		Access Group 1	
CLI Attributes(113)		Access Group 2	
Flex Buttons(115/129)		Access Group 3	
Station COS(116)		Access Group 4	
CO/IP Group Access(117)		Access Group 5	
Internal Page Zone(118)		Access Group 6	
Ptt Group Access(119)		Access Group 7	
Preset Call Forward(120)		Access Group 8	
Idle Line Selection(121)		Access Group 9	
Station IP Attribute(122)		Access Group 10	
Station Timer(123)		Access Group 11	
Linked Station(124)		Access Group 12	
> Station ICM Group(125)		Access Group 13	
VM Attributes(127)		Access Group 14	
Station Personal CCR(128)		Access Group 15	

Figure 4.4.2.15-1 Station ICM Tenancy Group

Stations can be assigned to an ICM Tenancy group under Common Attributes section 4.4.2.2. Up to 15 Tenant groups can be defined. Each group is configured to allow or deny placing intercom calls, including transfers, to stations in other groups and an Attendant station can be defined for each group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Tenancy ATD	Attendant station for the ICM Tenant group. ATD receives dial '0' calls and controls Day/Night Service.	Station No.	
Group Access	ICM tenancy groups allowed access by stations of the selected group.	1~15	1

Table 4.4.2.15-1 STATION ICM TENANCY	GROUP ATTRIBUTES

# 4.4.2.16 Station Voice Mail Attributes – PGM 127

Selecting VM Attributes displays the Station Voice Mail Attributes input page, Figure 4.4.2.16-1. Enter a valid Station range and click **[Load]** to enter the Station Voice Mail Attributes data.

PECS PECS eMG80		Administratio	on Maintena	ance		Change Langua	ge Log Ou
PGM Search	F	avorite PGM	VM Attributes(127)	×Q			
System ID & Numbering Plans	Ente	er Station Ran	qe:		0	Load	Save
Station Data 🗸 🗸 🗸		ion Range 10	_				
Station Type(110)		ler 1ª Check		tribute <u>↓</u> ª		Value	
Common Attributes(111)				Basic Attributes			
Terminal Attributes(112)	1		VSF Access		Enable 💌		
CLI Attributes(113)	2		Two Way Reco	rd	OFF 🔽		
Flex Buttons(115/129)	3		VMIU/VMIB Slot	: Seq.			
Station COS(116)	4		Multi Language	9	Prompt1 🗸	,	
CO/IP Group Access(117)	5		Pre-Sel Msg La		Prompt1 🗸		
Internal Page Zone(118)	6		Default VM grou				
Ptt Group Access(119)	7			Recording Option	OFF 🗸		
Preset Call Forward(120)	8			Recording Dest.			
Idle Line Selection(121)	9		VSF Backup De	-	OFF 🔽		
Station IP Attribute(122)	= 10						
Station Timer(123)			VSF Backup St				
Linked Station(124)	11		VSF Backup Pr		OFF 🔽		
Station ICM Group(125)	12		VSF MSG Date/		ON 💌		
VM Attributes(127)	13		VM Password (	Check		ber & password 💌	
Station Personal CCR(128)	14		VMID Number		100		
	15	j 🗌	Retrieve MSG N	/lethod	LIFO 💌		
Station Name Display	16	i 🗌	WakeUp Annou	unce (0 - 70)	0		
Station Data Copy				Enhanced Attribute			
Station CTI IP Address	1		VM Message N	0		10 , Saved: 000 , Urgen	t:000)
Board Based Data	2		VM COS		1 🔽		
	3		Administrator N	failBox	Disable 💌		
CO Line Data	4		Announce only	MailBox	Disable 💌		
	5		Announce only	Option	Previous Me	nu 💌	
System Data	6		Company Direc	ctory - First Name			
Station Group Data	7		Company Direc	ctory - Last Name			
	8		Cascade MailB	lox			
SDN Line Data	9		Cascade Type		Disable	~	
	10			nd/Fast-Forward Time	04	(3-99 sec)	
SIP Data	- 11		VM notify retry c		03	(0-99)	
Tables Data	12		VM notify dial tir		15	(0-99 sec)	
			rin nour, diaran	E-Mail notification		(2.50.000)	
Networking Data	1		VSF MSG - SMT	TP Mail Server Address			
Zone Data	2			eiver Mail Address			
Zone Dala	✓ 3			FP Mail Server ID	L		

Figure 4.4.2.16-1 Station VM Attributes

The Station VM Attributes are divided into three sub-sections. The Basic Attributes assign general characteristics of the Station's Voice Mail and announcements. Enhanced Attributes assign characteristics including VM COS, notification, cascading and Company Directory Names. The E-Mail Notification section defines various SMTP server data such as the Station and System E-mail account data.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Basic Attributes		
VSF Access	The station must be permitted VSF access to access the built-in Voice Mailbox.	Disable Enable	Enable
Two way Record	When allowed, the station can activate the Two-way record feature to record a conversation.	OFF ON	OFF
VMIU/VMIB Slot Seq.	The sequence number defines the VMIU or VMIB where messages for the station are stored	Seq. No.	
Multi Language	The selected language is employed for prompts played to the user when accessing the VSF.	Prompt 1~6	Prompt 1
Pre-selected Message Language	The selected language is employed for prompts played to an external CO caller if the called station has activated Pre-selected Message.	Prompt 1~6	Prompt 1
Default VM group number	When the user has no Voice messages and selects the <b>[Call Back/Msg]</b> button, the "Default VM group number" is called.		
Auto Talk Recording Option	This field enables unconditional recording of all calls placed/received by the station. Recordings, in .wav format, are stored at the Phontage/UCS Client defined as the Call Recording Station below.	OFF ON	OFF
Auto Talk Recording Destination	When Auto Call recording is defined for a station, the recording Phontage or UCS Client station number is defined here.	Station	
VSF Backup Delete Option	A Phontage or UCS Client may monitor voice messages for another station as a backup. The Phontage or UCS Client will include the message count for the station in the Voice message count. When enabled here, the Phontage/UCS Client may delete messages for the station.	OFF ON	OFF
VSF Backup Station	A Phontage or UCS Client may monitor voice messages for another station as a backup. The Phontage or UCS Client will include the message count for the station in the Voice message count. This field defines the Phontage or UCS Client station number that will be used as the VSF back up.	Station	
VSF Backup Prompt	A Phontage or UCS Client may backup VSF Prompts.	OFF ON	OFF
VSF MSG Date/Time	When ON, the data/time the message was received is played to the user prior to the message.	OFF ON	ON
VM Password check	When ON, the user must enter their valid Authorization code to access their VSF Voice Mailbox. The password can be defined as none, the Authorization code only or the normal Station Number and Authorization code.	No password/ Password only/ Station number and password	Station number and password
VMID Number	When using an adjunct VM, the system can translate the Mailbox number from the user's station number to the assigned VMID. The system sends the station number or VMID, if assigned, to the VM (in-band or SMDI) in order to identify the appropriate Voice Mailbox.	Max. 8 digit	
Retrieve MSG Method	Messages stored in the VSF may be retrieved in either a FIFO (first-in-first-out) or LIFO (last-in-first-out) order	FIFO/ LIFO	LIFO

Table 4.4.2.16-1 STATION VM ATTRIBUTES
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ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	based on this entry.		
WAKEUP ANNC.	A VSF system announcement can be recorded to play to the station as a Wakeup Announcement.	0-70	0
	Enhanced Attributes		
VM Message No	Number of Voice Messages in the user's Mailbox.		
VM COS	Each Voice Mailbox is assigned one of five VM Classes of Service (COS) that determines basic characteristics of the Mailbox such as message retention. The Voice Mail COS attributes are set in PGM 253.	1-5	1
Administrator Mailbox	A Mailbox can be assigned as an Administrator Mailbox permitting broadcast messaging and control of other user mailboxes.	Disable Enable	Disable
Announce Only Mailbox	A mailbox can be configured so that the connected party will hear the greeting but cannot leave a message, Announce Only. After the greeting, the call is routed based on the "Announce Only Option.	Disable Enable	Disable
Announce Only Option	This option determines if the caller will be disconnected or returned to the previous menu after hearing the Announce Only Mailbox greeting.	Previous Menu/ Hang Up	Previous menu
Company Directory – First Name	This field is first name of a station for Company Directory feature.	Max. 12 characters	N/A
Company Directory – Last Name	This field is last name of a station for Company Directory feature.	Max. 12 characters	N/A
Cascade Mailbox	Message cascading copies or moves messages left for the originating mailbox to another mailbox. This field is destination mail box station.	Station No	N/A
Cascade Type	Message cascading can be configured for several options including all or Urgent messages only and move or copy. When configured for "Move", the message is removed from the original mailbox and moved to the cascade mailbox. If configured for "Copy" the message is copied to the cascade mailbox and remains in the original mailbox.	Disable/ Copy Immediate/ Copy Urgent/ Move Immediate/ Move Urgent	Disable
Message RW/FF Time	While listening to a message the user may rewind or Fast forward. The Rewind and Fast Forward time are determined by this field.	03 - 99	04
VM Notify retry count	If the notification to the user's mobile repeatedly fails, after the retry count, the system will send the call to the Attendant to complete the notification.	00 - 99	03
VM Notify dial time	When the mobile notification call is placed, the system will terminate the call, considering the call a failed attempt, if no digits are received from the mobile phone user before the timer expires.	00 - 99	15 sec
	E-Mail notification		
VSF MSG – SMTP Mail Server Address	This field defines the address or url of the SMTP mail server for the notification.	IP v4 addressor Mail server name	
VSF MSG – Receiver Mail Address	This field defines the E-mail address to notify when a new VSF message is received for the station.	e-mail address	

Table 4.4.2.16-1	STATION	<b>VM ATTRIBUTES</b>
	• • • • • • • •	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF MSG – SMTP Mail Server ID	This field defines the account Identification for the system configured in the SMTP server.		
VSF MSG – SMTP Mail Server P/W	This field defines the password for the system's E-mail account in the SMTP server.		
VSF MSG – Attached Message	When E-mail notification is enabled in the VM COS (PGM 236), the E-mail may include the voice mail as a wav file attachment. The proper information must be assigned for the receiver mail and system mail account information.	OFF ON	ON
VSF MSG – Delete Message	After sending an E-mail notification the system will automatically delete the Voice message from the user's Voice Mailbox if this parameter is ON.	OFF ON	OFF
VSF MSG – SMTP Security	The system can support basic security policies when communicating with the SMTP E-mail server. Note the server must also be configured for the selected security protocol.	No Security/ SSL/ TLS	No Security
VSF MSG – SMTP Port	This field defines the TCP/IP port the system will employ when communicating with the SMTP E-mail server.	0 - 65535	25
VSF MSG – SMTP Sender Mail Address	This field defines the E-mail address used to send the new Voice Message notification via E-mail.	E-mail address	

#### Table 4.4.2.16-1 STATION VM ATTRIBUTES

# 4.4.2.17 Station Personal CCR Table – PGM 128

Selecting Station Personal CCR displays the Station Personal CCR Table input page, Figure 4.4.2.17-1. Enter a valid Station range and click **[Load]** to enter the Station Personal CCR Table data.

PGM Search	Favorite PGM S	tation Personal CCR(128)					
System ID & Numbering Plans	Enter Station Range :			0	Load		
Station Data ~	Station Range 100-11	0					
Station Type(110)	Attribute	Туре		Value		VMID	
Common Attributes(111)	1 Destination	N/A	~		STA:		
Terminal Attributes(112)	2 Destination	N/A	~		STA:		
CLI Attributes(113)	3 Destination	N/A	~		STA:		
Flex Buttons(115/129)	4 Destination	N/A	~		STA:		
Station COS(116)	5 Destination	N/A	~		STA:		
CO/IP Group Access(117)	6 Destination	N/A	~		STA:		
Internal Page Zone(118)	7 Destination	N/A	~		STA:		
Ptt Group Access(119)	8 Destination	N/A	~		STA:		
Preset Call Forward(120)	9 Destination	N/A	~		STA:		
Idle Line Selection(121)	0 Destination	N/A	~		STA:		
Station IP Attribute(122)	CCR One Digit	OFF 🗸					
Station Timer(123)	CCR Table Usage	OFF 🖌					
Linked Station(124)	* Button Used As	System Numbering Plan 🛛 🗸					
Station ICM Group(125)	# Button Used As	System Numbering Plan 🗸					
VM Attributes(127)							
Station Personal CCR(128)							
Station Name Display							
Station Data Copy							
Station CTI IP Address							

Figure 4.4.2.17-1 Station Personal CCR Table

#### Table 4.4.2.17-1 STATION CCR Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Digit dialed by outside caller.		NA
1-0 Destination	A destination type and value can be programmed by dialed digit. 14		
	kinds destination is available.		
	If this option is ON, CCR table can be activated.	ON	
CCR Table Usage	If this option is OFF, CCR table is not available, instead of that, dialing	OFF	OFF
	digits by outside caller can be recognized as DISA dialing.	UFF	
	* can be used as the following:		
	System Numbering Plan	Refer to	System
*Button Used As	Replay Greeting		Numbering
	Access Mailbox	Description	Plan
	Leave Message Immediate		
	# can be used as the following:		
	System Numbering Plan	System	System
# Button Used As	Replay Greeting	Refer to	Numbering
	Access Mailbox	Description	Plan
	Leave Message Immediate		

#### Table 4.4.2.17-2 STATION CCR DESTINATIONS

DESTINATION TYPES			
Route to a Station			
Route to a Station Group			
Route with System Speed Dial			
Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)			
Route to VSF Announcement			
Route to VSF Announcement and disconnect			
Route to Networked Station.			
Conference Room			
Internal Page			
External page			
All Call Page			
Route to voice mail(station group/station number)			
Company Directory			
Record VM Greeting			

### 4.4.2.18 Station Name Display

Selecting Station Name Display will display the Station Name input page, Figure 4.4.2.18-1. Enter a valid Station range and click **[Load]** to enter the Station Name data.

iPECS eMG80	Administratio	on Maintena	ance	Change Language	Log Out
PGM Search	Favorite PGM	Station Name Disp	lay ×		
System ID & Numbering Plans					
Station Data V	Enter Station Ran	ge:		2 Load	Save
Station Data	Station Range 10	0-125			
Station Type(110)	Station Number	<sup>la</sup> Station Name <sup>la</sup>	Input Name		
Common Attributes(111)	100				
Terminal Attributes(112)	101				
CLI Attributes(113)	102				
Flex Buttons(115/129)	103				
Station COS(116)	104				
CO/IP Group Access(117)	105				
Internal Page Zone(118)	106				
Ptt Group Access(119)	107				
Preset Call Forward(120)	108				
Idle Line Selection(121)	109		[		
Station IP Attribute(122)	110		[		
Station Timer(123)	111				
Linked Station(124)	112				
Station ICM Group(125)	113				
VM Attributes(127)	114				
Station Personal CCR(128)	115		[		
> Station Name Display	116		[		
Station Data Copy	110		[		

Figure 4.4.2.18-1 Station Name Display

A twelve (12) character Name can be assigned to each Station for display in the LCD of the called station.

# 4.4.2.19 Station Data Copy

Selecting Station Data Copy will display the Station Data Copy data input page, Figure 4.4.2.19-1. Enter a valid Source Station, Destination Station Range and click **[Copy]** to copy the station data. Note that this function is not available for an Attendant station.

iPECS iPECS eMG80	Administration	Maintenance	Change Language	Log Out
PGM Search	Favorite PGM Station D	ata Copy 🗙		
System ID & Numbering Plans				Сору
Station Data 🗸 🗸 🗸	Attribute	Value		Coby
Station Type(110) Common Attributes(111) Terminal Attributes(112) CLI Attributes(113) Flex Buttons(115/129) Station COS(116) CO/IP Group Access(117) Internal Page Zone(118) Ptt Group Access(119) Preset Call Forward(120) Idle Line Selection(121) Station IP Attribute(122) Station Timer(123) Linked Station(124) Station ICM Group(125) VM Attributes(127) Station Personal CCR(128) Station Name Display > Station Data Copy Station CTI IP Address	Source Station Number Destination Station Range Copy Option Result	Value     Value		

Figure 4.4.2.19-1 Station Data Copy

# 4.4.2.20 Station CTI IP Address (1<sup>st</sup> Party TAPI)

Selecting Station CTI IP Address displays the page shown in Figure 4.4.2.20-1. Enter a Station Range and click **[Load]** to display and modify the CTI IP address.

PECS PECS eMG80	A	dministration	Maintena	nce		Change Language	Lo
PGM Search	<u>^</u>			×			
	Fave	prite PGM Static	on CTI IP Addre	ess C			
System ID & Numbering Plans	Enter	Station Range :			6	Load	ſ
Station Data 🗸 🗸 🗸		n Range 100-125					
		Station Number	ID Address	State			
Station Type(110)	1	100	IP Address 0.0.0.0	State Deactivated			
Common Attributes(111)	2	100	0.0.0.0	Deactivated			
Terminal Attributes(112)	3	101	0.0.0.0	Deactivated			
CLI Attributes(113)	4	102	0.0.0.0	Deactivated			
Flex Buttons(115/129)	5	103	0.0.0.0	Deactivated			
Station COS(116)	6	105	0.0.0.0	Deactivated			
CO/IP Group Access(117)	7	106	0.0.0.0	Deactivated			
Internal Page Zone(118)	8	107	0.0.0.0	Deactivated			
Ptt Group Access(119)	9	108	0.0.0.0	Deactivated			
Preset Call Forward(120)	10	109	0.0.0.0	Deactivated			
Idle Line Selection(121)	11	110	0.0.0.0	Deactivated			
Station IP Attribute(122)	12	111	0.0.0.0	Deactivated			
	13	112	0.0.0.0	Deactivated			
Station Timer(123)	14	113	0.0.0.0	Deactivated			
Linked Station(124)	15	114	0.0.0.0	Deactivated			
Station ICM Group(125)	16	115	0.0.0.0	Deactivated			
VM Attributes(127)	17	116	0.0.0.0	Deactivated			
Station Personal CCR(128)	18	117	0.0.0.0	Deactivated			
Station Name Display	19	118	0.0.0.0	Deactivated			
Station Data Copy	20	119	0.0.0.0	Deactivated			
Station CTI IP Address	21	120	0.0.0.0	Deactivated			
	22	121	0.0.0.0	Deactivated			
Board Based Data	23	122	0.0.0.0	Deactivated			
	24	123	0.0.0.0	Deactivated			
CO Line Data	25	124	0.0.0.0	Deactivated			
	26	125	0.0.0.0	Deactivated			

Figure 4.4.2.20-1 Station CTI IP Address

The system supports 1st party TAPI (Telephony Application Programming Interface) for CTI (Computer Telephony Integration). The system will send specific TAPI information to the IP address for activity by the associated Station.

# 4.4.3 Board Based Data

Selecting the Board Based Data program group returns the sub-menu displayed in the left frame as shown in Figure 4.4.3-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans	10 20 25 30	
Station Data		
Board Based Data ~	Common Attributes(111) Station Group Attributes(191)	8
H.323 VoIP Attributes(130) T1/E1/PRI Attributes(131) Board Base Attributes(132)	CO Call Rerouting(252) System&Device IP(102~103) Station Group Assignment(190) Station Type(110)	7 7 7 6
CO Line Data	Flex Buttons(115/129) VM Attributes(127)	6 6
System Data	SIP CO Attributes(133) CO/P Ring Assignment(144)	6 6
Station Group Data		
ISDN Line Data		
SIP Data		
Tables Data		
Networking Data		

Figure 4.4.3-1 Board Based Data Main Page

# 4.4.3.1 H.323 VoIP Attributes - PGM 130

Selecting H.323 VoIP Attributes returns the H.323 VoIP Attributes data input page, Figure 4.4.3.1-1. Enter the VoIP gateway Sequence number (refer to section 4.4.1.5) and click **[Load]** to enter VoIP data.

PECS ECS eMG80	Administration Ma	intenance	Change Langua
PGM Search	Favorite PGM H.323 VoIP A	ttributes(130) ×	
System ID & Numbering Plans	Enter Sequence Number (1 - 262		
Station Data		COAU	
	Sequence Number 13	Mahar	Damas
loard Based Data	Attribute     H323 Setup Mode	Value Fast V	Range
H.323 VoIP Attributes(130)	H323 Tunneling Mode		
T1/E1/PRI Attributes(131)	H323 DTMF Path		
Board Base Attributes(132)	DiffServe	4	0-63
	RAS Usage	4 OFF V	0-03
CO Line Data	RAS MultiCast IP Port	1718	1-65535
System Data	RAS MultiCast IP Address	224.0.1.41	
	RAS UniCast IP Port	1719	1-65535
tation Group Data	RAS UniCast IP Address	82.134.80.2	
SDN Line Data	RAS Keep Alive Time	120	001-999(1sec)
	RAS Number Plan Prefix	9	Max 23 Digits
IP Data	RAS Light RRQ Usage	OFF 🗸	
ables Data	RAS GateWay ID(128Char)		
	TCP Keep Alive	ON 🗸	
etworking Data	Fail Over Usage	OFF 🗸	
one Data	Call Setup No Response Time	5	0, 3 - 10 sec
	FailOver CO Group Number		1 - 21 CO Group
evice Login	Q.931 Port Range	2048 - 2559	TCP Port
ECT Data	H.245 Port Range	2560 - 3071	TCP Port
.20, 2010	RAS Port Range	2048 - 3071	UDP Port
Green Mode	Media Port Range	6000 - 7036	UDP Port
nitialization	Data Sharing Port Range	8500 - 8548	TCP Port
nuanzauori	Exter	rnal CODEC Priority Configu	uration
	1 st priority	None 💌	
	2nd priority	None 💌	
	3rd priority	None 💌	
	4th priority	None 💌	
	5th priority	None 🔽	

Figure 4.4.3.1-1 H.323 VoIP Attributes

The VOIP channels may be used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned. The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

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

This page also allows setting the IP TOS bit for Diffserv, a commonly recognized packet prioritization protocol. Higher priority packets are given priority in the Default gateway or Layer 3 Switch queue. However, they are the first to be discarded in the event of long queue delays,

which may cause excess packet loss and poor voice quality.

Refer to Table 4.4.3.1-1 for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
H323 Setup Mode	IP calls can be set-up using the H.323 normal or Fast Start mode.	Normal/ Fast	Fast
H323 Tunneling Mode	IP calls can be set-up using the H.245 encapsulation (Tunneling).	OFF ON	ON
H323 DTMF Path	During a call, DTMF can be sent in-band or out- of-band (H.245)	Out-band/ In-band/ 2833	IN
(0-63) DIFFSERV	This parameter sets DiffServ pre-tagging for Voice packet. Note high values may cause high packet discard levels.	0~63	4
RAS Usage	Determine whether VOIB (VOIU) board will be used as a Gatekeeper.	OFF ON	OFF
RAS Multicast IP Port	Multi-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1718
RAS Multi-cast IP Address	Multi-cast IP address for RAS Information of Gatekeeper.	IP Address	224.0.1.41
RAS Uni-cast IP Port	Uni-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1719
RAS Uni-cast IP Address	Uni-cast IP address for RAS Information of Gatekeeper.	IP Address	82.134.80.2
RAS Keep Alive Time	The time between exchange of RAS Information between GK and VoIP channel.	001-999 (seconds)	120
RAS Number Plan Prefix	The numbering plan for Calling Number in RAS Setup.	Max. 23 digit	9
RAS Light RRQ Usage	The system can be assigned to use the simple RRQ (Registration Request) message (ON) or the full RRQ message (OFF).	OFF ON	OFF
RAS Gateway ID	The Gatekeeper ID.	128 characters	
TCP Keep-Alive	The system will send a polling message every 75 seconds to assure the status of the TCP connection.	OFF ON	ON
Fail Over Usage	If an H.323 call fails to set-up in the "Call Setup No Response time below, the system will attempt to place the call on the Failover CO/IP group also defined below.	OFF ON	OFF
Call Setup No Response Time	When Failover is enabled, the system places the fail-over call if this timer expires before the system receives a response to setup messages.	0, 3-10 Sec.	5
Failover CO Group Number	The system will place the Fail-over call employing a CO/IP line from the assigned CO/IP Line Group.	1-21 CO group	
Q.931 Port Range	IP-Binding H.323 signaling option: Q.931 TCP Port Range.	TCP port	2048-2559

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
H.245 Port	Range IP-Binding H.323 signaling option: H.245 TCP Port Range.	TCP port	2560-3071
RAS Port Range	IP-Binding H.323 signaling option: RAS UDP Port Range.	UDP port	2048-3071
Media Port Range	IP-Binding media option: Media UDP Port Range.	UDP port	6000-7036
Data Sharing Port Range	IP-Binding option: Data Sharing TCP Port Range.	TCP port	8500-8548
External CODEC Priority Configuration	The system supports five Codecs and, for negotiating purposes, the priority of each can be defined. Codecs not assigned a consecutive priority are not available during negotiations with the host.	None/ g.711-u/ g.711-a/ g.723.1/ g.729/ g.729-a	none

#### Table 4.4.3.1-1 H.323 VOIP ATTRIBUTES

## 4.4.3.2 T1/PRI Attributes - PGM 131

Selecting T1/PRI Attributes returns the T1/PRI Attributes data input page, Figure 4.4.3.2-1. Enter the Device Sequence number (refer to section 4.4.1.5) and click **[Load]** to enter T1/PRI data.

iPECS iPECS eMG80	Administr	ration Maintenan	ce	Change Language	Log Out
PGM Search	Favorite PGN	M T1/E1/PRI Attributes	131) ×		
System ID & Numbering Plans	Enter Sequenc	ce Number (1 - 262) :	Load	)	Save
Station Data	Sequence Nur			,	
Board Based Data	<ul> <li>Attrib</li> </ul>	oute Valu	le		
H.323 VoIP Attributes(130) T1/E1/PRI Attributes(131) Board Base Attributes(132)	T1 setup Mod T1 line Mode PRI Line Mod PRI/E1 CRC	e B8ZS V de TE V			
CO Line Data	E1 R2DSP C		~		
System Data	DCO PX Type	e STANDARD			
Station Group Data					
ISDN Line Data					

Figure 4.4.3.2-1 T1/PRI Attributes

Each T1/PRI module can be assigned for various attributes of the interface. The T1 interface framing and line coding can be selected and, for the PRI, TE or NT operation can be selected. Refer to Table 4.4.3.2-1 for a description of the features and the input required.

#### Table 4.4.3.2-1 T1/PRI ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
T1 Setup Mode	Select T1 Setup mode D4 frame: Using In-Band Control Protocol. ESF: Using Data link Message.	ESF/ D4	D4
T1 Line Mode	Select T1 line coding (AMI/B8ZS).	AMI/ B8ZS	B8ZS
PRI Line Mode	Select TE/NT Mode.	TE/NT	TE
PRI /E1 CRC Check	Enable CRC (Cyclical Redundancy Check).	OFF ON	OFF
E1 R2DSP check	Used for R2-E1 Device or E1 Device.	OFF/ ON	OFF
DCO PX Type	Reserved for future usage for R2 E1 Device.	S1240/ TDX1B/ STANDARD/ CONGES_DIS	STANDARD

## 4.4.3.3 Board Base Attributes - PGM 132

Selecting Board Base Attributes returns the Board Base Attributes data input page, Figure 4.4.3.3-1. Enter the Sequence number (refer to section 4.4.1.5) and click **[Load]** to enter attribute values.

iPECS iPECS eMG80	Adminis	stration Maintenance	Ch	ange Language	Log Out		
PGM Search	Favorite P	GM Board Base Attributes(132) ×					
System ID & Numbering Plans	Plans Enter Sequence Number (1 - 262) : 2 Load Save						
Station Data	Sequence Range 7						
Board Based Data 🗸 🗸	Check All	Attribute	Value	Range			
		Router IP Address		IP Address			
H.323 VoIP Attributes(130) T1/E1/PRI Attributes(131)		Device Codec Type	System Codec 💌				
		Firewall IP Address		IP Address			
> Board Base Attributes(132)		RTP Packet Relay Firewall IP Address		IP Address			
CO Line Data		RTP Security	ON 💌				
		Tnet Enable	OFF 💌				
System Data		VSF MSG - Sender Mail Address		Max 40 Characters			
Station Group Data		T38 Enable	OFF 💌				
· · · · · · · · · · · · · · · · · · ·		USE Board IP for SIP	OFF 💌				
ISDN Line Data		T38 Port Usage	DIFF WITH VOICE 💌				
SIP Data							
Tables Data							

Figure 4.4.3.3-1 Board Base Attributes

Appliances (Devices and IP Phones) can be connected to the iPECS over a managed WAN without the need to employ a VoIP channel. In this case, the system does not implement security (IPSec) or QoS treatment over the link. To implement the managed WAN connectivity, the iPECS must be assigned with the IP address of the router for all appliances that may attempt a point-to-point connection over the managed WAN, including devices on the iPECS LAN. Note that if the device's Router IP address is not defined, the system will use the Router IP address defined in System & Device IP Address Plan.

The default codec employed by each device can be specifically defined as G.711, G.729, G.723, G.722, or the system default codec assigned.

Appliances include support for SRTP (Secure Real-Time Protocol), which employs Advanced Encryption Standard (AES) to secure RTP packets. If RTP security is enabled then IPSEC or SRTP is implemented for RTP packet.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Router IP Address	Enter the Default gateway (Router) IP address associated with the selected devices.	IP Address	
Device Codec Type	Select the CODEC type for each device.	G.711, G.723.1, G.729, G.722, or SYSTEM CODEC	SYSTEM CODEC

#### Table 4.4.3.3-1 BOARD BASE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Firewall IP Address	Enter the Firewall IP address of the selected devices.		0.0.0.0
RTP Packet Relay Firewall IP Address	Enter the Firewall IP address associated with the Remote Phone or Gateway if there a dual broadband connection for SIP trunks and Remote phones (using a VOIB).		0.0.0.0
RTP Security	SRTP implements AES (Advanced Encryption Standard) for packets between other devices with RTP Security enabled.	OFF ON	ON
TNET Enable	When a module or station is to be connected in a Centralized Control network (TNET), the device must be enabled for TNET operation.	N/A	
VSF MSG-Sender Mail Address	VSF e-mail address for sending Notification of voice mails to e-mail.	Max 40 characters	
T38 Enable	T38 mode ON/OFF for FAX data transfer between other iPECS gateways.	OFF ON	OFF
USE Board IP for SIP	VOIB IP will be used for SIP Signaling in Multi NAT circumstance.	OFF ON	OFF
T38 Port Usage	The TCP/IP port employed for T38 packets is negotiated and the system can allow the port to be the same as or different from the preceding Voice packets.	DIFF WITH VOICE SAME AS VOICE NET TRIGERING	DIFF WITH VOICE

#### Table 4.4.3.3-1 BOARD BASE ATTRIBUTES

# 4.4.4 CO Line Data

Selecting the CO Line Data program group returns the sub-menu displayed in the left frame as shown in Figures 4.4.4-1.

PECS eMG80	Administration	Maintenance	Change Langua	ge 🛛 Log Out
PGM Search	Favorite PGM			
System ID & Numbering Plans	10 20 25 30			
Station Data				
Board Based Data		mmon Attributes(111)		11
		Group Attributes(191) O Call Rerouting(252)	7	
CO Line Data	*	&Device IP(102~103)	7	
CO Line Overview	Station Gro	pup Assignment(190)	7	
Common Attributes(140)		Station Type(110)	6	
Analog Attributes(141)	F	lex Buttons(115/129)	6	
		VM Attributes(127)	6	
VoIP Attributes(142)		IP CO Attributes(133)	6	
ISDN Attributes(143)	CONPR	Ring Assignment(144)	6	
CO/IP Ring Assignment(144)				
DID Service Attributes(145)				
DISA Service Attributes(146)				
CO/IP Preset Fwd Attr(147)				
NA ISDN Line Attributes(150)				
CID/CPN Attributes(151)				
T1 CO Line Attributes(152)				
DCOB CO Line Attributes(153)				
System Data				
Station Group Data				
ISDN Line Data				
SIP Data				
Tables Data				
Networking Data				
Zone Data				
Device Login				
DECT Data				
Green Mode				
Initialization				

Figure 4.4.4-1 CO Line Data Main Page

## 4.4.4.1 Common Attributes - PGMS 140

Selecting Common Attributes will display the Common Attributes data input page, Figure 4.4.4.1-1. Enter a valid CO range and click **[Load]** to enter the Common Attributes data.

	tration Maintenance			Change Language	Log Out
Favorite PC	GM Common Attributes(140)	×			
Enter CO Rai	nge (1 - 74) :	-	Ø	Lood	
				LUAU	Save
Check All	Attribute <u>⊥</u> ª	Value		Range	
~	CO Type	Normal 💌		0-21	
	CO Line COS			0.21	
	CO Line Type				
	Universal Answer	OFF 🗸			
	CO/IP Group Authorization	OFF V			
	CO Tenancy Group	0		0-15	
	CO/IP Name Display				
				Max 12 Characters	
	_	ON V			
_					
_					
_		OFF 🔽			
				0-6	
_					
	_				
_					
	Collect Call Answer Timer		*100ms	1-250	
_	Collect Call Idle Timer				
	Gain Table Index			1-3	
_				1-5	
				1-15	
	-				
	Cut Off Timer	0	(*mm)	00-99	
	Disa Delay Timer	0	(*sec)	0-9	
	Disa Answer Timer	0	(*sec)	0-9	
	CO Line MOH		/		
	CO Dial Tone	ON V			
	Enter CO Range 1- CO Range 1- Check All Check All C	Enter CO Range (1 - 74) :         CO Range 1-10         Check All       Attribute 1°         C CO Type         C O Type         C O Line COS         C O Line COS         C O Line Type         C OLINE Type         C OLINE Type         Universal Answer         C O COLINE Type         C OLINE Type         Universal Answer         C OLINE Type         C OLINE Type         Universal Answer         C O Tenancy Group         C O Name Assign         D ISA Account Code         D ISA CO Access         Wait If VSF Busy         SMS Outgoing         SMS Received Station         Reject Anonymous Incoming Call         Prefix Table ID         L DT Table Index         E ENBLOC Sending         DID Preserve Name         Burst Tone To Caller         Collect Call Blocking         Collect Call Idle Timer         Gain Table Index         Digit Conv. Table         Tone Table Index         Disa Delay Timer         Disa Answer Timer         Disa Answer Timer         Co Line MOH	Enter CO Range (1 - 74) :         CO Range 1-10         Check All       Attribute 1       Value         CO Type       Normal *         CO Type       Normal *         CO CIP Group       1         CO Line COS       COS 1 *         CO Line Type       CO *         Universal Answer       OFF *         CO Co Tenancy Group       0         CO To Tenancy Group       0         CO To Colle Code       ON *         CO Name Assign       OFF *         CO Name Assign       ON *         DISA Account Code       ON *         DISA CO Access       OFF *         Wait If VSF Busy       ON *         SMS Outgoing       Disable *         SMS Received Station       O         Reject Anonymous Incoming Call       OFF *         Prefix Table ID       O         LDT Table Index       1         ENBLOC Sending       OFF *         Burst Tone To Caller       OFF *         OID Preserve Name       OFF *         OID Preserve Name       OFF *         Outer Call Blocking       Disable *         Collect Call Blocking       Disable *         Collect Call Idle Timer	Particite Form       Continuent Attributes [140]         Enter CO Range (1 - 74) :       Image: Color Type       Value         CO Color	Parvine Form       Common Antibulates (140)         Enter CO Range (1 - 74):       Image: Common Antibulates (140)         CO Range 1-10         Check All       Attribute (1)       Value       Range         C CO Type       Normal V       0-21         C Co Line COS       COS 1 V       0-21         C C Line COS       COS 1 V       0         C C Line COS       COS 1 V       0         C C Dire Cos       0       0-15         C C Dire Cos       0       0-15         C C OTP Group Authorization       OFF V       0         C C OTP Arancy Group       0       0       0-15         C C OTP Name Display       OFF V       0       0         C C Name Assign       Max 12 Characters       0       0 ISA CO Access       OFF V         D ISA Account Code       O N       Max 12 Characters       0         Mait If VSF Busy       O N       Max 12 Characters       0         SMS Received Station       Image: Collect Call Anonymous Incoming Call       OFF V       Image: Collect Call         Burst Tone To Caller       OFF V       Image: Collect Call Answer Timer       Image: Collect Call Answer Timer       Image: Collect Call Answer Timer       Image: Collect Call Blocking       Image: Col

Figure 4.4.4.1-1 Common Attributes

Common Attributes define various characteristics of CO lines facilities under control of the system. Most characteristics require an On/Off setting; refer to Table 4.4.4.1-1. Specific descriptions for Class-of-Service and CO line Call Metering tones are provided in Table 4.4.4.1-3.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
СО Туре	Each CO Line is assigned a type, Normal, DID or TIE Line.	Normal/ DID/ TIE/ Unused	Normal
CO/IP Group	Each CO/IP Line is assigned to a group; grouping should be based on the Line type, technology and COS.	0-21	1
CO Line COS	Each CO/IP Line is assigned a Class-of-Service that interacts with the Station COS, refer to Table 4.4.4.1-2 CO COS 1: Station COS applies CO COS 2: Exception Table A governs CO COS 3: Exception Table B governs CO COS 4: Restricts LD calls & Exception Table C CO COS 5: Overrides Station COS 2~6 with no restrictions.	COS 1~5	COS 1
CO Line Type	Each CO/IP Line can be assigned as connected to a CO Line or a PBX/CTX Line.	PBX CO	СО
Universal Night Answer	Universal Night Answer (UNA) allows any station user to answer a call on the CO/IP line by dialing the UNA code.	OFF ON	OFF
CO/IP Group Authorization	Each CO/IP Group can be assigned to require the user enter an Authorization Code.	OFF ON	OFF
CO Tenancy Group	Only stations in the assigned Tenancy group are permitted access to the defined CO Line.	00-15	0
CO/IP Name Display	The IP Phone display can indicate the CO line/IP channel number or the twelve (12) character name, if assigned below.	OFF ON	OFF
CO Name Assign	Each CO Line and IP group can be assigned a twelve (12)-character name for display purposes.	Max. 12 characters	
DISA Account Code	With DISA Account Code "ON", users are required to enter a DISA Authorization code. Codes are entered in the Authorization Code Table, section 4.4.9.9.	OFF ON	ON
DISA CO Access	When enabled, DISA users may access the VoIP facilities of the system.	OFF ON	OFF
Wait If VSF Busy	When a DID/DISA call assigned to receive a VSF announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or route to the DID/DISA Destination -PGM 167	OFF ON	ON
SMS Outgoing	Each CO line can be assigned to support PSTN SMS.	Disable Enable	Disable
SMS Received Station	When a PSTN SMS is received, the system delivers the message to the assigned station.	Station	
Reject Anonymous Incoming Call	When REJECT ANONYMOUS is enabled, incoming calls without Caller ID are rejected.	OFF ON	OFF
Prefix Table ID	When the Prefix Dialing Table (PGM 206) feature is used, this Prefix Table ID is employed. If this value is set to 0, the Prefix Table feature is disabled.	0 – 6. 0 means disable	0
LDT Table Index	When LCR is configured, this LDT Table index is referenced for outgoing calls on this CO/IP Line.	0-10 ( LDT Table index)	1

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ENBLOCK Sending	This entry determines if the system sends dialed digits to the ISDN line as they are received (OFF), or collects all digits and forwards them in a block. (ON).	OFF ON	OFF
DID preserve Name	For DID lines, the CLI is normally displayed only during ringing. If enabled here, the CLI will be displayed for the entire call duration.	OFF ON	OFF
Burst Tone to Caller	Send to burst tone to caller if it's set ON.	OFF ON	OFF
Collect Call Blocking	This parameter defines the type of Collect Call Blocking supported for E1 CO lines with R2 signaling. (Intended for Brazil only)	Disable/ Double Answer/ Double Answer w/Indication	Disable
Collect Call Answer Timer	These parameters determine treatment of an incoming call when Collect Call Blocking Double Answer is	1-250 (100ms)	10
Collect Call Idle Timer	assigned. In this case, the system answers the call and maintains the connection for the Call Answer time then, the system will disconnect for the Call Idle time before finally reconnecting the call.	1-250 (100ms)	20
Gain table index	One of three Gain tables can be configured for TDM connections.	1-3	1
Tone table index	One of the five Tone table can be configured for use with the CO/IP Line.	1-5	1
Digit conversion table index	One of the 15 Digit Conversion Tables can be configured for use for this CO/IP Line.	01-15	01
	Timer Attributes		
CO CUT OFF TIMER	When the Station is assigned Call Time restriction is assigned, this timer defines the allowed call duration.	00-99 00 = disable	0
DISA Delay Timer	Once answered, the system attaches a DTMF receiver to the DISA call to receive caller-dialed digits. This timer introduces a delay before attaching the DTMF receiver to the CO line. (Intended for Russia only)	0-9	0
DISA Answer Timer	When a call is received on a CO line with DISA service, the system will answer the call when the DISA Answer Timer expires. (Intended for Russia only)	0-9	0
	Tone Attributes		
CO Line MOH	A held call can be connected to one (1) of ten (10) possible audio sources while on Hold as Music-on-Hold (MOH).	Refer to Sys Hold/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Internal Music
CO Dial Tone	ISDN Lines may provide a digital signal rather than actual	OFF ON	ON
CO Ring Back Tone	tones. In this case, the iPECS can provide the tones. If the ISDN provides the tone, the Tone is "ON", for an	OFF ON	OFF
CO Error Tone	iPECS eMG80-generated tone, the tone is set to "OFF".	OFF ON	OFF

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Busy Tone		OFF	OFF
		ON	
		Dial Tone/	
		Internal Music/	
CO Line Dial Tone	One of eleven sources can be defined as dial tone for use	External Music/	Dial Tone
Source	by the CO line.	VSF MOH/	Dial Tone
		SLT MOH1~5/	
		VSF MOH2~3	
		Ring Back Tone/	
		Internal Music/	
CO Ring Back Tone	One of eleven sources can be defined as ring back tone	External Music/	Ring Back
Source	for use by the CO line.	VSF MOH/	Tone
		SLT MOH1~5/	
		VSF MOH2~3	
COL Ring Tone	One of twelve Ring Tones can be configure for use by this CO Line.	00-12	0

Table 4.4.4.1-1 Common Attributes

#### Table 4.4.4.1-2 STATION/CO LINE TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") & Table C	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) & Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) & Table C	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 9	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction

ENTRY	CALL METERING TYPE
00	- None
01	- 50 Hz
02	- 12 KHz
03	- 16 KHz
04	- Singular Polarity Reverse (SPR)
05	- Plural Polarity Reverse (PPR)
06	- No Polarity Reverse (NPR)

Table 4.4.4.1-3 CALL METERING FUNCTION

### 4.4.4.2 Analog Attributes - PGMS 141

Selecting Analog Attributes will display the Analog Attributes data input page, Figure 4.4.4.2-1. Enter a valid CO range and click **[Load]** to enter the Analog (PSTN) Attributes data.

PGM Search	Favorite PC	GM Analog Attributes(141) ×					
System ID & Numbering Plans	Enter CO Ra	nge (1 - 74) :		0 [	oad		S
Station Data	CO Range 1-						<u> </u>
Board Based Data	Check All	Attribute <u>⊥</u> ª		Value		Range	
CO Line Data	~	CO Line Signal	DTMF	*			
CO Line Data		Data(Fax) Station Number					
CO Line Overview		SMDR Metering Unit	None	*			
Common Attributes(140)		Line Drop (CPT)	OFF 🔽				
Analog Attributes(141)		Maintain CPT on Talking (answered by User)	OFF 🔽				
VoIP Attributes(142)		Flash Timer	50		(*10ms)	000-300	
ISDN Attributes(143)		Open Loop	4		(*100ms)	00-20	
CO/IP Ring Assignment(144)		ICLID Ring Timer	0	(*1sec)		00-20	
DID Service Attributes(145)		PROCTOR SERVICE ON/OFF	OFF 🔽				
DISA Service Attributes(146)		Analogue Line Monitor	ON 🔽				
CO/IP Preset Fwd Attr(147)							
NA ISDN Line Attributes(150)							
CID/CPN Attributes(151)							

Figure 4.4.4.2-1 Analog Attributes

Analog Attributes define various characteristics of Analog CO Lines under control of the system. Most characteristics require an On/Off setting; refer to Table 4.4.4.2-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Line Signal	Each analog CO Line can be assigned to send either DTMF or Pulses for dialed digits to the PSTN.	DTMF Pulse	DTMF
Data(Fax) Station Number	Each CO line can be assigned to recognize a FAX call when a specified station answers.	Station Number	
SMDR Metering Unit	This field selects the call-metering signal from the PSTN to indicate call cost, refer to Table 4.4.4.1-3.	See Table 4.4.4.1-3	None
Line Drop (CPT)	Each CO Line can be programmed to disconnect if error tone is detected.	OFF ON	OFF
Maintain CPT on talking (Answer by User)	The system can continuously monitor the CO Line during a call and, if error tone is detected, drop the call.	OFF ON	OFF
Flash Timer	This time sets the flash time.	000-300 (*10 msec)	50
Open Loop	This entry sets the duration of open loop that will be recognized as a "Disconnect Signal".	00-20 (*100 msec)	04
ICLID Ring Timer	When a call is received, the system may use ICLID (Incoming Caller ID) to route the call. The system will delay routing a call for this duration while awaiting ICLID. Enter a 00 to disable ICLID routing.	00-20 (*Sec)	00
Proctor Service	Each analog CO line can be assigned to send the station number as DTMF digits for Proctor service.	OFF ON	OFF
Analog Line monitor	The system can monitor and report faults on an	OFF ON	ON

Table 4.4.4.2-1 Analog ATTRIBUTES

### 4.4.4.3 VoIP Attributes - PGMS 142

Selecting VoIP Attributes will display the Analog Attributes data input page, Figure 4.4.4.3-1. Enter a valid CO range and click **[Load]** to enter the VoIP Attributes data.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM VoIP Attributes(142) ×	
System ID & Numbering Plans	Enter CO Range (1 - 74) :	C Load Save
Station Data	CO Range 1-10	
Board Based Data	Check All Attribute 1ª Value Range	
CO Line Data ~	CO VoIP Mode Common	
CO Line Overview Common Attributes(140) Analog Attributes(141) > VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DID Service Attributes(145) DISA Service Attributes(146) CO/IP Preset Fwd Attr(147) NAJEDN Line Attributes(150)		

#### Figure 4.4.4.3-1 VoIP Attributes

Table 4.4.4.3-1	VolP	ATTRIBUTES
	1011	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO VoIP Mode	The VoIP channels can support iPECS, H.323 or SIP protocols. This field defines the protocol for the VoIP channel(s).	SIP only/	COMMON

#### 4.4.4.4 ISDN Attributes - PGMS 143

Selecting ISDN Attributes will display the ISDN Attributes data input page, Figure 4.4.4.4-1. Enter a valid CO range and click **[Load]** button to enter the ISDN Attributes data.

iPECS iPECS eMG80	Adminis	s <mark>tration</mark> Mainten	ance		Change Language	Log Out
PGM Search	Favorite P	GM ISDN Attributes(14	43) ×			
System ID & Numbering Plans	Enter CO Ra	nge (1 - 74) :		8	Load	Save
Station Data	CO Range 1					Jave
Board Based Data	Check All	Attribute <u>↓</u> <sup>a</sup>	Value	Range		
CO Line Data ~		ТЕІ Туре	Automatic 💌			
		ISDN-SS CD/CR(CFU)	No Service 🛛 🔽			
CO Line Overview		Advice of Charge	No Service 🛛 💌			
Common Attributes(140)		ISDN Line Type	u-Law 🔽			
Analog Attributes(141)		Calling Sub-address	OFF 💌			
VoIP Attributes(142)		Screening Indicator	User Provided, NO S 💌			
> ISDN Attributes(143)		ISDN Plus Code		Max 4 Digits		
CO/IP Ring Assignment(144)		CP/Alert inband	OFF 💌			
DID Service Attributes(145)		Disconnect inband	OFF 💌			
DISA Service Attributes(146)						
CO/IP Preset Fwd Attr(147)						
NA ISDN Line Attributes(150)						
CID/CPN Attributes(151)						
T1 CO Line Attributes(152)						
DCOB CO Line Attributes(153)						

Figure 4.4.4-1 ISDN Attributes

PGM 143 assigns attributes associated with ISDN lines in the entered range.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ТЕІ Туре	The TEI (Terminal Endpoint Identifier) is a unique identifier for each device attached to the ISDN line. When the system shares an ISDN connection with other devices, the TEI should be automatic to assure no conflict with the other attached devices. Otherwise, the Fixed identifier option should be employed.	Fixed/ Automatic	Automatic
ISDN – SS CD/CR(CFU)	Permits a user to access to ISDN Supplementary Call Deflection Service. (Except USA version).	No Service/ Call Deflection/ Call Rerouting	No Service
Advice of Charge	When assigned, the system will analyze the Advice of Charge information in the Facility Message according to the ETSI specifications with appropriate regional protocol support.	No AOC/ Italy & Spain/ Finland/ Australia/ Belgium/ ETSI STD	No Service
ISDN Line Type	The system will encode voice using the A-law or u- law PCM format to match the installed ISDN back bone.	µ-Law/ A-Law	µ-Law

#### Table 4.4.4.4-1 ISDN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Calling Sub-address	For outgoing calls, the user's station number may be included in the ISDN call SETUP message Sub-address field.	OFF ON	OFF
Screening indicator	The ISDN Screening Indicator can be configured.	User Provided/ No Service/ User Provided/ Pass/ User Provided/ Fail/ Network Provided.	No Service
ISDN PLUS Code	When the incoming CLI starts with "+", this value will be inserted in place of the "+" sign.	0000-9999	-
CP/Alert inband	Send progress indication with in-band information in Call proceeding and Alerting messages.	OFF ON	OFF
Disconnect inband	Send progress indication with in-band information in Disconnect message.	OFF ON	OFF

Table 4.4.4.4-1 ISDN ATTRIBUTES

# 4.4.4.5 CO/IP Ring Assignment - PGM 144

Selecting CO/IP Ring Assignment will display the CO/IP Ring Assignment data input page, Figure 4.4.4.5-1. Enter a valid CO range and click **[Load]** to enter the CO/IP Ring Assignment data.

iPECS iPECS eMG80	Admini	stration	Maintenance			Change Language	Log Out
PGM Search	Favorite P	GM CO/P	Ring Assignment(1	44) <mark>×</mark>			
System ID & Numbering Plans	Enter CO Ra	inge (1 - 74) :				ad	Save
Station Data	CO Range 1						Jave
Board Based Data	Check All	At	tribute	Value	Range	Station Delay Value [Station:Delay]	
CO Line Data ~			<ul> <li>Station Range</li> </ul>	Range : Delay :	0~9	[100:0]	
CO Line Overview			🔵 Hunt Group				
Common Attributes(140) Analog Attributes(141)		Day	<b>○</b> VSF	Announcement : Auto Drop :	0~70		
VoIP Attributes(142)			🔵 AA Ring Time		0~30		
ISDN Attributes(143)			🔘 Net Station				
> CO/P Ring Assignment(144) DID Service Attributes(145)			<ul><li>● Station Range</li></ul>	Range : Delay :	0~9	[100:0]	
DISA Service Attributes(145)			🔵 Hunt Group				
CO/IP Preset Fwd Attr(147) NA ISDN Line Attributes(150)		Night	<b>○</b> VSF	Announcement : Auto Drop :	0~70		
CID/CPN Attributes(151)			🔿 AA Ring Time		0~30		
T1 CO Line Attributes(151)			🔘 Net Station				
DCOB CO Line Attributes(153)			<ul> <li>Station Range</li> </ul>	Range : Delay :	0~9	[100:0]	
System Data			🔵 Hunt Group				
Station Group Data		Timed Ring	<b>○</b> VSF	Announcement : Auto Drop :	0~70		
ISDN Line Data			🔿 AA Ring Time		0~30		
ISUN LINE DATA			🔿 Net Station				

Figure 4.4.4.2-1 CO/IP Ring Assignment

Each "Normal" CO/IP line is assigned to signal a station, station group or VSF Announcement for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring mode. A delay from 1 to 9 Ring cycles can also be assigned, based on this assignment, the station/Hunt group will receive audible ring after a delay of the number of Ring cycles entered. In addition, when assigned to ring a VSF Announcement, the system can be programmed to disconnect after the announcement, 'Auto Drop'.

When CO/IP Lines are programmed to Ring an external AA/VM, VSF or Feature Server Group as an Automated Attendant, the signal can be on an immediate or delayed basis allowing stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

### 4.4.4.6 DID Service Attributes - PGM 145

Selecting DID Service Attributes will display the DID Service Attributes data input page, Figure 4.4.4.6-1. Enter a valid CO range and click **[Load]** button to enter the DID Service Attributes data.

iPECS eMG80	Adminis	stration Maintenance			Change Language Log Out
PGM Search	Favorite Po	GM DID Service Attributes(	145) × C		
System ID & Numbering Plans	Enter CO Ra	nge (1 - 74) :		C Load	Save
Station Data	CO Range 1				
Board Based Data	Check All	Attribute	Value		Range
CO Line Data	✓	DID Start Signal	Wink 💌		
CO Line Data		DID Conversation Type	Use 'as is' (no treatment)	~	
CO Line Overview		Number of Digits Expected from DID Circuit	3		2-4
Common Attributes(140) Analog Attributes(141) VoIP Attributes(142)		DID Digit Mask	#***		Must be 4 digits (include *' and #) #: ignore digit, *: any kind of digit
ISDN Attributes(143) CO/IP Ring Assignment(144)					
> DID Service Attributes(145)					
DISA Service Attributes(146)					
CO/IP Preset Fwd Attr(147)					
NA ISDN Line Attributes(150)					
CID/CPN Attributes(151)					
T1 CO Line Attributes(152)					
DCOB CO Line Attributes(153)					

Figure 4.4.4.6-1 DID Service Attributes

DID lines can be assigned the type of "Start" signaling and treatment of received digits. Digits can be used "as is" to route the call within the system, digits can be converted and used to route the call, or digits can be converted to a Table index to determine the call routing from a Table look-up. Refer to Table 4.4.4.6-1 for additional description of attributes and values.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DID Start Signal	Assigns the type of DID start signaling, Immediate, Wink or Delayed for the CO/IP Line.	Immediate/ Wink/ Delayed	Wink
DID Conversion Type	The received DID digits can be treated to determine call routing, simple conversion (Convert), use "as is" (no treatment), or modify using Flexible DID Conversion Table (Look-up).	DID Digit Conversion/ Use 'as is'/ Modify using Flexible DID conversion table	Use 'as is'
Number of Digits Expected from DID Circuit	The number of digits expected from the PSTN DID circuit. (In USA version, use Table in section 4.4.4.9.1)	2~4	3
DID Digit Mask	DID digit modification sequence: "#" deletes the digit, "*" accepts the digit "as is", a digit $(0~9)$ replaces the digit. The modification is based on the position of the digit $(1~4)$ in the received number. (In USA version, use Table in section 4.4.4.9.1)	(0~9, *, #)	#***

### Table 4.4.4.6-1 DID SERVICE ATTRIBUTES

## 4.4.4.7 DISA Service Attributes - PGM 146

Selecting DISA Service Attributes will display the DISA Service Attributes data input page, Figure 4.4.4.7-1. Enter a valid CO range and click **[Load]** to enter the DISA Service Attributes data.

iPECS iPECS eMG80	Admini	stration	Maintenance	Change Language	Log
PGM Search	Favorite P	GM DISA S	Service Attributes(146)		
System ID & Numbering Plans	Enter CO Ra	ange (1 - 74) : [		C Load	S
Station Data	CO Range 1	L			
Board Based Data	Check All	Feature	Value	Range	
CO Line Data	-	Day	VSF Announcement : 0 Auto Drop : 🔄	0 - 71 (0:Service OFF, 71:Only Tone Mode)	
CO Line Overview Common Attributes(140)		Night	VSF Announcement : 0 Auto Drop : 🔄	0 - 71 (0:Service OFF, 71:Only Tone Mode)	
Analog Attributes(141)		Timed Ring	VSF Announcement : 0 Auto Drop :	0 - 71 (0:Service OFF, 71:Only Tone Mode)	
VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DID Service Attributes(145)					
<ul> <li>DISA Service Attributes(146)</li> <li>CO/IP Preset Fwd Attr(147)</li> </ul>					
NA ISDN Line Attributes(150) CID/CPN Attributes(151)					
T1 CO Line Attributes(152) DCOB CO Line Attributes(153)					

Figure 4.4.4.7-1 DISA Service Attributes

DISA Service can be enabled on CO lines based on the system operation mode (Day, Night, and Timed). DISA calls may be routed to dial tone and await user dialing (simple routing) or through a multi-layered Audio Text menu assigning a VSF Announcement and a Customer Call Route (CCR) Table Index. The system can be instructed to disconnect after the announcement, 'Auto Drop', or follow the CCR Table routing with a user-recorded announcement requesting specific inputs from the user.

## 4.4.4.8 CO/IP Preset Forward Attributes - PGM 147

Selecting CO/IP Preset Forward Attributes will display the CO/IP Preset Forward Attributes data input page, Figure 4.4.4.8-1. Enter a valid CO range and click **[Load]** to enter the CO/IP Preset Forward Attributes data.

iPECS iPECS eMG80	Administ	tration Maintenance	)		Change Langua	ige Log Out
PGM Search	Favorite PG	M CO/IP Preset Fwd Attr(147)	×			
System ID & Numbering Plans	Enter CO Rar	oge (1 - 74) :	~		Coad	Save
Station Data	CO Range 1-					Dave
Board Based Data	Check All	Attribute	Valu	ie	Range	
CO Line Data ~		PRESET FWD TIMER	0	(*1 sec)	00-99	
CO Line Data		PRESET ICLID RING TBL INDEX			Max 3 Digits(001-250)	
CO Line Overview		PRESET VMID DIGIT			Mailbox ID (Max 4 digit)	
Common Attributes(140)						
Analog Attributes(141)						
VoIP Attributes(142)						
ISDN Attributes(143)						
CO/IP Ring Assignment(144)						
DID Service Attributes(145)						
DISA Service Attributes(146)						
> CO/IP Preset Fwd Attr(147)						
NA ISDN Line Attributes(150)						
CID/CPN Attributes(151)						
T1 CO Line Attributes(152)						
DCOB CO Line Attributes(153)						

Figure 4.4.4.8-1 CO/IP Preset Forward Attributes

The CO/IP Preset Call Forward feature enables a CO line to initially ring at multiple stations and forward to a pre-determined destination. A separate timer can be defined for each CO/IP line for no-answer. The destination can be any index to the ICLID Ring Table in section 4.4.75 or a Voice Mailbox. The VMID field allows selecting a specific mailbox when the CO line call forwards to an external VM group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Preset FWD Timer	An incoming call, which remains unanswered for this timer, is routed as defined in the ICLID Ring Table Index of section 4.4.7.5.	00-99 (Sec.)	00
Preset ICLID Ring Table Index	If an incoming call remains unanswered after the Preset Fwd time above, the call is routed as defined in the ICLID Ring Table index defined here, see section 4.4.7.5.	001-250	
Preset VMID Digit	Each CO/IP line can be assigned a VMID (Voice Mail Id) that is sent to the external VM group to identify the desired Mailbox for the call.	Mailbox ID (Max. 4 digits)	

## 4.4.4.9 NA ISDN Line Attributes - PGM 150

Selecting NA (North America) ISDN Line Attributes will display the NA ISDN Line Attributes data input page, Figure 4.4.4.9-1. Enter a valid CO range and click **[Load]** to enter the NA ISDN Line Attributes data.

iPECS iPECS eMG80	Adminis	tration Mainte	nance			Change Language	Log Out
PGM Search	Favorite PC	GO/IP Preset Fw	d Attr(147)	NA IS	DN Line Attribute	es(150) ×	
System ID & Numbering Plans	Enter CO Rai	nae (1 - 74) :				2 Load	Save
Station Data	CO Range 1-						Dave
Board Based Data	Check All	Attribute	Valu	e	Range		
CO Line Data 🗸		Local Exchange Type	NI1 💌				
		SPID Number			Max 20 Digits		
CO Line Overview		Directory Number			Max 20 Digits		
Common Attributes(140)		EKTS Mode	None 🔽				
Analog Attributes(141)		Type for 1 2 3	Unknown	*			
VoIP Attributes(142)		Type for 4 5 6	Unknown	*			
ISDN Attributes(143)		Type for 7 8 9	Unknown	*			
CO/IP Ring Assignment(144)		Type for 10 11	Unknown	*			
DID Service Attributes(145)							
DISA Service Attributes(146)							
CO/IP Preset Fwd Attr(147)							
> NA ISDN Line Attributes(150)							
CID/CPN Attributes(151)							
T1 CO Line Attributes(152)							
DCOB CO Line Attributes(153)							

Figure 4.4.4.9-1 NA ISDN Line Attributes

To comply with the North American ISDN standards, certain attributes must be defined for the system. These include Directory (telephone) Number and Service Profile Id (SPID) for the device. Note that this programming is required only for "Country Code" 1, USA installations. Refer to Table 4.4.4.9-1 for information on individual attributes.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Local Exchange Type	The type of ISDN determines several specifics of the protocol and is required for proper operation.	NI 1/ NI 2/ 5 ESS/ Nortel	NI 1
SPID Number	The Service Profile Identifier (SPID) is a number assigned to a fully initializing ISDN terminal and enables the Stored Program Control switching System (SPCS) to identify the ISDN terminal at layer 3 of the D-channel signaling protocol. The SPID is a free-formatted numeric string composed of 9 to 20 numeric {0-9} and International Alphabet (IA5) characters. The SPID uniquely identifies a particular set of subscription parameters assigned to a TSP.	20 digits	

### Table 4.4.4.9-1 NA ISDN LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Directory Number	Initializing terminals are required to store a 7-digit DN in order to perform the compatibility checking procedures that are part of call termination.	20 digits	
EKTS Mode	The EKTS (Electronic Key Telephone Service) terminal permits a user to operate those features that are specific to EKTS, as well as voice features that may function distinctly in the EKTS environment. EKTS allows a DN to be shared by more than one terminal, on the same or on different interfaces.	NONE/ EKTS	EKTS
Type for 1/2/3	ISDN CALLED NO uses the International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 1~3digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown
Type for 4/5/6	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 4~6 digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown
Type for 7/8/9	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 7~9 digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown
Type for 10/11	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials more than 10 digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown

### Table 4.4.4.9-1 NA ISDN LINE ATTRIBUTES

## 4.4.4.10 CID/CPN Attributes - PGMS 151

Selecting CID/CPN Attributes will display the CID/CPN Attributes data input page, Figure 4.4.4.10-1. Enter a valid CO range and click **[Load]** to enter the CID/CPN Attributes data.

Pecs ECS eMG80	Adminis	stration Maintenance		Chang	e Language 🛛 Lo
PGM Search	Favorite P0	GM CID/CPN Attributes(151) ×			
System ID & Numbering Plans	Enter CO Ra	nge (1 - 74) :		0	.oad) (
Station Data	CO Range 1-				
Board Based Data	Check All	Attribute <u>↓</u> <sup>a</sup>	Value		Range
CO Line Data	~	CID Password COLP Table Index	N/A 🗸		Max 12 Characters
CO Line Overview		CLIP Table Index	N/A V		
Common Attributes(140)		Type of Number for Calling Party Info	National 🗸		
Analog Attributes(141)		Incoming Prefix Code Insertion	OFF 🗸		
VoIP Attributes(142)		Outgoing Prefix Code Insertion	ON V		
ISDN Attributes(143)		International Access Code			Max 4 Digits
CO/IP Ring Assignment(144)		My Area Code			Max 6 Digits
DID Service Attributes(145)		My Area Prefix Code			Max 4 Digits
DISA Service Attributes(146)		CLI TRANSIT	CFW 💌		
CO/IP Preset Fwd Attr(147)		ISDN Redirecting number	No Service 🔽		
NA ISDN Line Attributes(150)		Choice Incoming CLI	Transit Point CLI 💌		
CID/CPN Attributes(151)		Calling Party Numbering Plan	ISDN/Telephony 🔽		
T1 CO Line Attributes(152)		Called Party Numbering Plan	Unknown 🔽		
DCOB CO Line Attributes(153)		Station CLI Type	Stataion CLI 1 💌		
Sustan Data		DID Remove Number	0		00-99
System Data		One Digit Remove	Disable 💌		
Station Group Data		CID Mode	FSK 🔽		
IODNU izza Data		RCID Detect	All 💌		
ISDN Line Data		RCID Request	AUTO 🔽		
SIP Data		RCID Request First Delay Timer	20	*10ms	10-150
		RCID No-Answer Timer	20	*sec	1-300
Tables Data		RCID Digit Number	7		4-10
Networking Data		RCID Request Count	1 🔽		
-		RCID Request Retry Delay Timer	10	*10ms	10-30

Figure 4.4.4.10-1 CID/CPN Attributes

Refer to Table 4.4.4.10-1 for information on individual attributes.

### Table 4.4.4.10-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
COLP Table Index	When an incoming call on an ISDN Line is answered, the system will send caller id using the number from the CLIP/COLP Table (section 4.4.7.2) entry defined by this parameter. The station number is included as a suffix of the caller id. For "Using Station's COLP Attribute", the Station CLI type entered below will be used in place of the station number.		N/A

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CLIP Table Index	When a call is placed on an ISDN Line, the system will send caller id using the number from the CLIP/COLP Table (section 4.4.7.2) entry defined by this parameter. The station number is included as a suffix of the caller id. For "Using Station's CLIP Attribute", the Station CLI Type entered below will be used in place of the station number.		N/A
Type of Number for Calling Party Info	For outgoing calls on an ISDN Line, this parameter defines the "Type of Number Plan" provided in Calling Party Information Element of the ISDN call SETUP message.	Unknown/ International/ National/ Unused/ Subscriber	National
Incoming Prefix Code Insertion	Regional ISDN providers may use the Local Area Prefix code for special services. In cases where the code is not provided in the incoming call SETUP message, the system can insert the My Local Prefix and My Area Code below in SMDR, LNR, displays, etc.	OFF ON	OFF
Outgoing Prefix Code Insertion	Regional ISDN providers may use the Local Area Prefix code for special services. The system can insert the "My Area Code" and "My Local Prefix Code" in the Connect message as defined in those items below.	OFF ON	ON
International Access Code	When an incoming call includes the international Country code in the ISDN call SETUP message, the Country code can be included in the station display. To include the Country code, Incoming Prefix insertion, and CLI display in Station Data, section 4.4.2.4 must be ON.	4 digits	-
My Area Code	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Area Code in the call SETUP messages defined under the Incoming/Outgoing Prefix Code Insertion entries above.	Max. 6 digits	-
My Area Prefix Code	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will use this code for insertion of the Local Prefix Code in the call SETUP messages if Local Prefix Insertion is enabled above.	Max. 4 digits	-
CLI Transit	When the system must send CLI to the ISDN for an off- net call, the CLI can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station.	ORI/ CFW	CFW
ISDN Redirecting Number	When the system needs to send a Redirecting number to the ISDN for an off-net call, the Redirecting number can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station. If it is no service then system will not send this information. If it is configured for OGR CLI (original CLI) then system will send original CLI that is received from incoming CO line. If it is CFW CLI then system will send the redirecting CLI that is the CLI of the off-net call forwarding station.	NO SERVICE/ ORG CLI/ CFW CLI	NO SERVICE

### Table 4.4.4.10-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Choice incoming CLI	Incoming CLI Choice – When ISDN setup message has two CLIs (Transit Point CLI / Original CLI), this option determines the CLI the system will recognize.	Original CLI/ Transit Point CLI	Transit point CLI
Calling party numbering Plan	ISDN Calling Party Numbering Plan can be configured.	Unknown, ISDN/Telephony, Data/Numbering, Telex, National Std, Private, Reserved	ISDN/ Telephony
Called party numbering Plan	ISDN Calling Party Numbering Plan can be programmable.	Unknown, ISDN/Telephony, Data/Numbering, Telex, National Std, Private, Reserved	Unknown
Station CLI Type	When the Station CLI is used with the CLIP or CLOP, one of five Station CLIs as defined in PGM 114 section 4.4.7.2 is used for this CO/IP Line as selected here.	Station CLI 1 – Station CLI 5	Station CLI 1
DID Remove Number	When a DID call is received on an ISDN Line, this entry determines the number of digits that will be removed starting at the first received digit.	00~99	00
One Digit Remove	Selects one digit remove mode in ISDN Called Digits for Italy DID.	Enable Disable	Disable
CID mode	The type of CID signal can be assigned according to the type of CID from the carrier.	Disabled/ FSK/ DTAS FSK/ DTMF/ R–CID	FSK
RCID detect	Russia CID Detect Mode.	LOCAL/ ALL	ALL
RCID request	Russia CID Request Mode.	USER/ AUTO	AUTO
RCID Request First Delay Timer	Russia CID First Delay Timer.	010–150 (10msec)	020
RCID No-Answer Timer	Russia CID NO–Answer Timer.	001–300 (Sec.)	020
RCID Digit Number	Russia CID Digit Number.	04–10	07
RCID Request Count	Russia CID Request Count.	1–3	1
RCID Request Retry Delay Timer	Russia CID Retry Delay Timer.	10–30 (10msec)	10

Table 4.4.4.10-1 CID/CPN ATTRIBUTES

## 4.4.4.11 T1 CO Line Attributes - PGM 152

Selecting T1 CO Line Attributes will display the T1 Line Attributes data input page, Figure 4.4.4.11-1. Enter a valid CO range and click **[Load]** to enter the T1 Line Attributes data.

	Adminis	stration Mai	ntenance			Change Language
GM Search	Favorite P	GM T1 CO Line A	ttributes(	152) <mark>×</mark>		
ystem ID & Numbering Plans	Enter CO Ra	nge (1 - 74) :				Icoad
Station Data	CO Range 1					
Board Based Data	Check All	Attribute	V	alue	Range	
O Line Bete	<u> </u>	Pause Timer	2	(*1 sec)	1-9	
0 Line Data	Ť	RELEASE GUARD	20	(*100ms)	1-60	
CO Line Overview		DT DELAY	10	(*100ms)	2-50	
Common Attributes(140)		INTER DIGIT	15	(*20ms)	15-30	
Analog Attributes(141)		WINK Timer	10	(*20ms)	07-15	
VoIP Attributes(142)		OP RATE	60-40 (	 10pps) 🔽		
ISDN Attributes(143)		SEZ DTC	3	(*20ms)	0-127	
CO/IP Ring Assignment(144)		RELEASE	7	(*20ms)	0-127	
DID Service Attributes(145)		IASG TY	DTMF	~		
DISA Service Attributes(146)		RING DTC	2	(*100ms)	2-9	
CO/IP Preset Fwd Attr(147)		RING STOP	60	(*100ms)	10-60	
NA ISDN Line Attributes(150)		COLLECT DIGIT	3	1	1-6	
CID/CPN Attributes(151)		STORE TIME	15	(*1sec)	01-15	
T1 CO Line Attributes(152)						
DCOB CO Line Attributes(153)						

Figure 4.4.4.11-1 T1 CO Line Attributes

North American T1 standards require that the T1 terminating device, in this case the iPECS eMG80, include various "adjustable" timers and counters as described below.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Pause Timer	A timed pause may be included in a Speed Dial number, in which case, the pause time is defined by this entry. Not currently implemented.	1~9 (seconds)	2
RELEASE GUARD	The release guard timer defines the length of time the system will maintain a Line as busy after the call has been terminated to assure the PSTN has sufficient time to 'clear down' the circuit. Not currently implemented.	01~60 (100 ms)	20
DT DELAY	The DT (Dial tone) Delay timer defines the duration dial tone must be received for DT recognition. Not currently implemented.	02~50 (100 ms)	10
INTER DIGIT	The Inter Digit timer defines the duration between digit transmissions. Not currently implemented.	15~30 (20 ms)	15
WINK Timer	For TIE or DID Lines the Wink timer defines the length of time the 'wink' (T1 TIE line circuit reversal) will last.	7~15 (20 ms)	10
OP RATE	For Pulse signaling, defines the duration and make/break ratio of each pulse.	0: 60-40(10pps) 1: 66-33(10pps) 2: 60-40(20pps)	60-40 (10pps)

### Table 4.4.4.11-1 T1 CO LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		3: 66-33(20pps)	
SEZ DTC	This timer defines the length of a valid 'line seizure' signal.	0~127 (20 ms)	3
RELEASE	For Ground Start, this timer defines the minimum length of time ground will not be applied to the TIP side from the PSTN.	0~127 (20 ms)	7
IASG TY	Incoming Address Signaling Type defines the type of signaling (DTMF or Pulse) expected.	PULSE/ DTMF	DTMF
RING DTC	The Ring DTC (detect) timer defines the minimum acceptable length of the Ring-on time during a ring cycle.	2~9 (100 ms)	2
RING STOP	The Ring Stop timer defines the maximum Ring-off time during a ring cycle.	10~60 (100 ms)	60
COLLECT DGT	Collect DGT (digits) defines the number of digits expected on a DID line.	1~6	3
STORE TIME	For DID lines, this timer defines the maximum delay between incoming DID digits.	1~15 (second)	15

Table 4.4.4.11-1 T1 CO LINE ATTRIBUTES

## 4.4.4.12 DCOB CO Line Attributes - PGM 153

Selecting DCOB CO Line Attributes will display the DCOB Line Attributes data input page, Figure 4.4.4.12-1. Enter a valid CO range and click **[Load]** button to enter the DCOB Line Attributes data.

PECS ECS eMG80	Adminis	s <mark>tration</mark> Maintenance		Char	nge Language	L
PGM Search	Favorite P	OCOB CO Line Attributes(153)				
System ID & Numbering Plans	Enter CO Ra	nge (1 - 74) :		2	Load	ſ
Station Data	CO Range 1					
Board Based Data	Check All	Attribute	Value	Range		
CO Line Data	~	Line Status	6	1-9		
CO Line Data		DNIS Service	OFF 🔽			
CO Line Overview		Number of CLI Digits	10	1-15		
Common Attributes(140)		DCOB Туре	DID	~		
Analog Attributes(141)		Call Category	1	1-9		
VoIP Attributes(142)		Number of Digits Expected from DID Circuit	0	0-32		
ISDN Attributes(143)						
CO/IP Ring Assignment(144)						
DID Service Attributes(145)						
DISA Service Attributes(146)						
CO/IP Preset Fwd Attr(147)						
NA ISDN Line Attributes(150)						
CID/CPN Attributes(151)						
T1 CO Line Attributes(152)						
> DCOB CO Line Attributes(153)						

Figure 4.4.4.12-1 DCOB CO Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Line Status	This parameter defines the code the system will send to indicate idle line status in accordance with E1R2 specifications.	1~9	6
DNIS Service	In R2, this field determines whether system will send caller information to PX or not.	OFF ON	OFF
Number of CLI Digits	This parameter defines the number of digits expected as the Calling Line Identification from digital CO lines.	01~15	10
DCOB Туре	According to this type, the line can be restricted to the type of service, incoming DID and outgoing calls (DOD).	DID/DOD, DOD, DID	DID
Call Category	This parameter defines the code sent in response to a call category request from the network in accordance with E1R2 specifications.	1~9	1
Number of Digits Expected from DID circuit	This parameter defines the number of digits expected as DID digits from digital CO lines. If set to "0", the number of digits defined in PGM 145 is used.	0~32	0

### Table 4.4.4.12-1 DCOB LINE ATTRIBUTES

# 4.4.5 System Data

Selecting the System Data program group returns the sub-menu displayed in the left frame as shown in Figures 4.4.5-1.

iPECS iPECS eMG80	Administration Mainte	nance	Change Language	Log Out
System Data 🗸 🔺	Favorite PGM			
System Attributes(160~161)				
Keyset Admin Password(162)	10 20 25 30			
Alarm Attributes(163)				
Attendant Assignment(164)	Common Attributes	(111)		11
Multicast RTP/RTCP(165)	Station Group Attributes		8	
DISA COS(166)	CO Call Rerouting		7	
DID/DISA Destination(167)	System&Device IP(102-	-103)	7	
External Control Contacts(168)	Station Group Assignment		7	
LCD Display Mode(169)	Station Type		6	
LED Flashing Rate(170)	Flex Buttons(115 VM Attributes		6	
Music Sources(171)	SIP CO Attributes		6	
PBX Access Codes(172)	CO/IP Ring Assignment	(144)	6	
RLP Priority(173)				
RS-232 Port Settings(174)				
Serial Port Selections(175)				
Break / Make Ratio(176)				
SMDR Attributes(177)				
System Date & Time(178) 🛛 🗧				
System Multi Language(179)				
System Timers(180~182,186)				
In Room Indication(183)				
Web Access Authorization				
Station Web Authorization				
NTP Attributes(195)				
SNMP Attribute(196)				
Hot Desk Attributes(250)				
System Call Routing(251)				
CO Call Rerouting(252)				
VM COS Attributes(253)				
Static Route Table(254)				
Access Control List(255)				
System Speed Dial				
Custom Messages				
PPTP Attributes				

Figure 4.4.5-1 System Data Main Page

# 4.4.5.1 System Attributes - PGMS 160 & 161

Selecting System Attributes will display the System Attributes data entry page, Figure 4.4.5.1-1. Selecting the blue colored text in the Table header will sort the table based on the selected column.

PECS CS eMG80	A	dministration Maintenance	Change Lan	guage Log C
M Search	Favo	rite PGM System Attributes(160~161) ×		
rstem ID & Numbering Plans				Save
ation Data	Order			
	Order ↓ª	Attribute <u>↓</u> ª	Value	Range
oard Based Data	1	Attd Call Queued RBT	МОН	
O Line Data	2	Camp-On MOH/Ring-Back Tone	МОН	
	3	CO Dial Tone Detect	OFF 🗸	
/stem Data 🗸 🗸	4	CO Line Choice	Last 🗸	
System Attributes(160~161)	5	DISA Retry Count	3 🗸	
System Password(162)	6	External Night Ring	OFF 🗸	
Alarm Attributes(163)	7	Hold Preference	System 🗸	
Attendant Assignment(164)	8	Print LCR Converted digits		
Multicast RTP/RTCP(165)	9	Attendant Call Queuing	OFF 🗸	
DISA COS(166)	10	USE PGM_0 IN ALL ATD	OFF 🗸	
DID/DISA Destination(167)	11	Offnet Prompt Usage	OFF 🗸	
xternal Control Contacts(168)	12	CO to CO Unsupervised Conference Timer Extend	OFF 🗸	
.CD Display Mode(169)	13	ACD Manager Print	OFF 🗸	
ED Flashing Rate(170)	14	CALL LOG Num	15 (Num)	15-50
Ausic Sources(171)	15	Repeat DTMF tone	ON V	
PBX Access Codes(172)	16	Off-Hook Ring Type	Mute 🗸	
RLP Priority(173)	17	Page Warning Tone		
RS-232 Port Settings(174)	18	Automatic Privacy		
Serial Port Selections(175)	19	Privacy Warning Tone		
Break / Make Ratio(176)	20	ACD Print Enable	OFF V	
SMDR Attributes(177)	20	ACD Print Timer	10 (*1sec)	001-255
System Date & Time(178)	22	Clear ACD Database	OFF V	001 200
iystem Multi Language(179)	22	Override First CO Group		
ystem Timers(180~182,186)	23	Codec Type	G.711 V	
n Room Indication(183)	25	G.711 Packetization	20 (*1ms)	10/20/30
Veb Access Authorization	26	G.723 Packetization	30 (*1ms)	30/60
tation Web Authorization	20	Network Time/Date	Disable	30/00
ITP Attributes(195)	27	Incoming Toll Check		
3NMP Attribute(196)		_	ON 💌	00001-
Hot Desk Attributes(250)	29	Web Server Port	80	65535
System Call Routing(251)	30	Web Admin Password Encryption	OFF 💌	
CO Call Rerouting(252)	31	Auth Retry Count	3	1-9
/M COS Attributes(253)	32	Old Auth Code Usage	ON 🔽	
Static Route Table(254)	✓ 33	COS 7 when Auth Fail		

Figure 4.4.5.1-1 System Attributes

System Attributes define settings that affect system wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 4.4.5.1-1 for a description of the Attributes and the data entries required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ATD Call Queued RBT	When calling a busy attendant, the system will provide either ring-back tone or MOH. If MOH is selected, the source must be defined in section 4.4.5.5.	MOH/ Ring-Back Tone	МОН
Camp-On MOH/Ring- Back Tone	When Camp-On is used, the calling station will receive either ring-back tone or MOH. If MOH is selected, a source must be defined in section 4.4.5.5.	MOH/ Ring-Back Tone	МОН
CO Dial Tone Detect	The system can use dial-tone detection or a timed pause for speed dial numbers that contain a Pause.	OFF ON	OFF
CO Line Choice	CO Lines are selected by the system from groups using either the LAST used, FIRST or ROUND robin method.	LAST FIRST ROUND	LAST
DISA Retry Count	A DISA user is allowed to retry erroneous authentication code entries. This entry sets the number of retries before the system disconnects.	1~9	3
External Night Ring	CO/IP calls, which are assigned UNA, can activate the Loud Bell Contact. While in the Night mode, an incoming call will activate the contact.	OFF ON	OFF
Hold Preference	A single depression of the <b>[Hold]</b> button places the call on the preferred hold, System or Exclusive.	System/ Exclusive	System
Print LCR Converted digits	SMDR will output the number dialed by either the system's LCR or the user.	LCR/ USER	LCR
Attendant Call Queuing	The system can be configured to queue incoming calls to a busy Attendant	OFF ON	OFF
USE PGM_0 IN ALL ATD	This field allows Main Attendants to activate Day/Night mode and other System Attendant menus except PGM 06 – Record system announcement. (Not available in USA version.)	OFF ON	OFF
Off-net Prompt Usage	When a call is routed to a destination external to the iPECS, the Off Net routing prompt can be played. (Not available in US version.)	OFF ON	OFF
CO to CO Unsupervised Conference Timer Extend	When an Unsupervised Conference is established with DISA, Off-Net Fwd, etc., the Unsupervised Conference timer, section 4.4.5.20, determines the allowed duration of the call. If enabled here, the user may extend the allowed duration.	OFF ON	OFF
ACD Manager Print	When the optional ACD Event messages are required, the system must be enabled here to send the events.	OFF ON	OFF
CALL LOG Num	The Call Log saves the Outgoing call, Received call, or Lost call information and can be displayed by pressing Call Log Display Button. The maximum size of the Call Log per station is defined here.	15~50	15
Repeat DTMF tone	If enabled, the system will repeat DTMF tones to the caller's station when the call is routed to an off-net location.	OFF ON	ON
Off-Hook Ring Type	Off-hook ring can be a single tone burst or muted normal ring.	MUTE/ BURST	MUTE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Page Warning Tone	A warning tone can be sent prior to a page announcement.	OFF ON	ON
Automatic Privacy	Automatic Privacy can be disabled, allowing stations to join an active CO/IP call. A warning tone can be provided, see Privacy Warning Tone below.	OFF ON	ON
Privacy Warning Tone	If desired, a warning tone can be provided when privacy is overridden.	OFF ON	ON
ACD Print Enable	ACD statistics can be periodically sent to the assigned serial port. To provide periodic reports, this feature must be ON.	OFF ON	OFF
ACD Print Timer	This entry defines the time, in 10-second increments, between the periodic ACD reports assigned above.	001~255 (10 sec)	010
Clear ACD Database	When a periodic report is sent, the ACD database can be cleared automatically, if "ON".	OFF ON	OFF
Override 1st CO Group	When a user dials '9', the system can search all CO/IP Groups for the first available CO/IP line.	OFF ON	ON
Codec Type	The default codec can be defined as G.711, G.729, G.722 or G.723.1 for decreased bandwidth needs. The selected codec will be used on all internal communications as well as for remote iPECS devices.	G.729/ G723.1/ G711/ G722	G711
G711 Packetization	The G.711 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.711 codec is used.	10/20/30 (1 msec)	020
G723 Packetization	The G.723.1 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.723.1 codec is used.	30/60 (1 msec)	030
Network Time/Date	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. ISDN sync is not available in USA version.	Disable/ ISDN/ NTP	Disable
Incoming Toll Check	The system can invoke COS dialing restrictions when a user dials while connected to incoming call.	OFF	ON
Web Server Port	This field determines the TCP port employed to access the system WEB server.	00001-65535	80
Web Admin Password Encryption	When desired, a Java VM installed in the user's PC can be used to implement RC-6 block encryption of the Web Admin password.	OFF ON	OFF
Auth Retry Count	When an Authorization code is required, the user may attempt to enter a Valid code up to the maximum value defined in this field.	1-9	3
Old Auth Code Usage	System Authorization codes are entered by the user as "*" and the code (ON) or "*"+ the Auth code index and the code (OFF).	OFF ON	ON
COS 7 when Auth Fail	If a user fails to enter a valid Authorization code in the number of attempts assigned in Auth Retry Count above, the station is disconnected or the Station COS is changed to COS 7. In the latter case, the user must employ COS Restore in Station User PGM 2 to return the station to the normal COS.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Unified Message Format	System Integration Messages are sent out the defined serial or TCP channel.	OFF ON	OFF	
Conference Room CO Tel Number	ISDN DID number an external party must dial to enter a Conference room, Phontage only.	Max. 15 digits		
Record warning tone	When call recording is active, a tone can be sent to all connected parties to indicate the conversation is being recorded.	OFF ON	ON	
MPB DIFF SERVE	Diff-Serv Code Point applied to packets from the iPECS eMG80 LAN port of the MPB.	00-63	04	
Device Upgrade Mode	Transfer mode for upgrades from MPB to an iPECS device.	FTP TFTP	FTP	
CO Transfer Tone	When a CO call is transferred to a busy extension, Ring Back Tone or Music On Hold will be played to the CO Line.	MOH/ Ring-Back Tone	Ring-Back Tone	
Conference Warning Tone	When a new member joins a conference room, the system provides warning tone to conference members.	OFF ON	ON	
TLS for Web	Enables Transport Layer Security (TLS) for Web access.	Enable Disable	Disable	
Dummy Dial Tone	When a CO line does not provide dial tone, the system can provide dummy dial tone.	Unused/ Use	Unused	
SIP Station Mode	SIP phones may set-up a point-to-point RTP connection (PTP) or to assure a controlled connection, RTP can be routed via a VoIP channel (RTD).	RTD/ PTP	RTD	
SMS Center Number	When the PSTN will be used to send SMS, the phone number of the Short Message Service Center must be entered.	23 digits		
SMS Center CLI	When the CO/IP Line will be used to receive SMS, the Caller Id expected from the Short MSG Service Center must be defined.	23 digits		
SMS Protocol	The Short Message Service Protocol must be selected to support SMS.	No PSTN SMS/ ETSI-P1/ ETSI-P2/ KT-LivingNet/ SIP-Text/ SIP-XML/ KT IP-PBX/ SKN IP-PBX/ KT XML	NONE	
G.722 Packetization	The G.722 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.722 codec is used.	10/20/30 (1 msec)	020	
Transit-out security	The system will check the IP address for transit-out calls in the master system. If not valid the transit-out call is denied.	Unused/ Use	Use	
Emergency call attendant Notify	The Attendant can be notified when another user in the system dials emergency number	Unused/ Use	Use	

Table 4.4.5.1-1 SYSTEM ATTRIBUTES
-----------------------------------

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
First digit * in SPD	Normally, when "*" is the first digit in a Speed Dial number, the Display Security feature is activated so that the number is not shown in the LCD of iPECS IP or LDP Phones. Otherwise, the "*" is sent as the first digit to the carrier.	Display Security/ Digit *	Display Security
Use Strong Password	When enabled, passwords in PGM 162 must be longer than 6 digits and include both numbers and characters.	OFF	
VSF/VMIB SMTP port	SMTP port used for the VSF gateways (VMIU/VMIB)	00001~65535	00025
CTI IP	When assigned, the system will accept 3 <sup>rd</sup> party TAPI messages only from assigned IP address.		0.0.0.0
Intercom busy service	When busy, an intercom call may use Off-hook Voice- Over or Intrusion to connect to the called intercom party.	Voice-over/ Intrusion	Voice over
Auto save new message	After listening to a voice message, if the user takes no action, the system can automatically save the message or leave the message in the new message category.	Unused/ Use	Unused
IGMP query usage	The system employs multi-cast packets for registration and certain general functions such as MOH. With some multicast snoop enabled Layer 2 switches, multicast packets are not forward unless an IGMP query device exists in the network. This entry enables the IGMP query option and system sends periodic IGMP query message to avoid multicast blocking.	OFF ON	OFF
IGMP query interval timer	This timer defines the interval for each IGMP query message.	0~3600 (Sec.)	180
IGMP query all host	IGMP queries are sent to all IP hosts (ON) on the network or to iPECS devices only. For All Hosts, IP address 224.0.0.1 is used otherwise the iPECS OFF specific 239.20.19.50 IP address is used. If problems ON occur with MOH, the "All Hosts" may correct the issue.		ON
IGMP query generic	This entity specifies a group addresses being queried. If ON is selected, all multicast group are queried. If OFF is selected, iPECS registering device group (239.20.19.50) is queried only. This should be ON when there is a MOH problem.	OFF ON	OFF
Ring group indication	When a station calls a Ring Group, DSS/BLF buttons assigned for the calling station will flash and muted ring is received.	OFF ON	OFF
Restrict star and pound	If enabled, calls using * or # as the first digit are prohibited by the system.	d, calls using * or # as the first digit are OFF	
Restricted Dialing	If a restricted number is called, the system will output	OFF	ON
Display After Answer	an SMDR record for the call after the call is answered. If It's ON, VOIU/VOIB will apply IP-Binding with information in PGM130 (Flex 18 – Flex 24-3) / PGM133 (Media port)	ON OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
New 5 Wake Up Usage	New Wake-Up function usage option.	OFF ON	OFF
Easy 5 Wake Up Usage	If this value is set to ON, and New 5 Wake Up Usage is also set to ON, each station user can enter his wake up time, without entering wake up type, wake up index.	OFF ON	OFF
ACD Group Queuing Call Indication	If there are queued group call, the queuing indication can be served to group member by Mute Ring and LED Button Flashing.	OFF/ ON(RING and LED)/ ON(LED only)	OFF
Station VM Feature Usage	If this option is set to ON, Station VM feature (PGM 127) can be used.	OFF ON	ON
End code(#) usage in System Auth Code	If this option is set to ON, End code (#) must be entered when system Auth code is entered.	OFF ON	OFF
Remote VM Access	If this value is OFF, the user cannot access to VSF mailbox via DID, DISA CO call and so on (i.e. through CO line channel).	OFF ON	ON
Transfer Tone Usage	If this value is ON, Warning tone is served to the [transfer to] station. This is only applied to screened transfer case.	OFF ON	OFF
CID Password Usage	If this value is ON, a user must enter the CID password to modify an admin value about CID setting.	OFF ON	OFF
LCR Dial Tone Detect	If this value is set to ON, the system first checks dial tone in case on analog CO Lines then LCR dialing is completed. If no dial tone is detected, the call is rerouted to Alternate DMT Index. If LCR type is set to M13, LCR dial tone detect option is not applied.	OFF ON	OFF
ICM call log	If this value is set to ON, the system provides an ICM Call log for iPECS IP and LDP Phones.	OFF ON	OFF
Mobile Phone Presence Service port	This is for an interface between eMG80 and external server that sends http/xml data. Currently the first usage of this port is 'mobile phone presence' service. If set to a valid port the presence service will be implemented and the system will await messages for presence from the external server.	00000~65535	00000
Mobile Phone Presence State Sync	When the system receives presence information for a mobile extension from external server, the system synchronizes the station's call state with this presence information. A busy presence will set the station to busy.	OFF/ DSS LED only/ Station Status	OFF
Mobile Phone Presence Force Idle Timer	The system will return a station's state to idle if there is no updated presence information from external server for the duration of this timer.	0~3600 (Sec.)	0
Attendant Password Usage	If this value is set to ON, system requests a password: When a user enters Attendant program ([PGM] + 0, When an Attendant enters Speed program, When a user assigns attendant program code ([PGM]	OFF ON	OFF

Table 4.4.5.1-1 SYSTEM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	+ 0) to Flexible button,		
Pickup station name	Name of picked up station is display when pickup	OFF	
usage	internal call.	ON	OFF
Display LCR mode	Display "LCR MODE" when LCR is activated.	OFF ON	ON
VM Notify to Mobile	If this value is set to ON, an analog Loop Start CO Line can be used for the VM notification call to the	DISABLE	DISABLE
Extension over LCO	Mobile Extension.	ENABLE	
MODEM Associated CO line	When a call is received by the assigned CO Line, the call is routed to the system's built-in modem.	1-74	0
Display {MEET ME}	If this value is set to OFF, <b>{MEET ME}</b> soft button is	OFF	
Soft button	not displayed during a paged.	ON	ON
Number of CLI Wait	The system check the status of each device with a		_
List	polling message periodically using this timer.	0-255	0
	SMDR/ACD/Alarm Mail Attribute		
	Common SMTP Attributes		•
SMTP Mail Server IP	SMTP Mail server IPv4 address to receive the SMDR	12-digits	0.0.0.0
Address	E-mail reports.	12-digits	0.0.0.0
SMTP Mail Server	SMTP Mail server Domain address to receive the	Max. 100	
Domain Address	SMDR e-mail reports.	characters	
Sender Mail Address	Program SMDR/ACD/Alarm mail Sender mail Address	Max. 40 characters	
	Domain name of SMTP Mail server to receive SMDR		
Sender System Domain Name	reports. This field is used in place of SMTP Mail Server IP Address above.	Max. 18 characters	
	This field defines the user's ID for SMTP Mail server.		
	If the user's ID and password is assigned, SMTP Mail	Max. 40	
SMTP Mail Server ID	server will check the validity of the user ID and password.	characters	
	This field defines the user's password for SMTP Mail		
SMTP Mail Server	server. If the user's ID and password is assigned,	Max. 20	
Password	SMTP Mail server will check the validity of user ID and password.	characters	
	The system can support basic security policies when communicating with the SMTP E-mail server. Note	No security/	
SMTP Security	the server must also be configured for the selected security protocol.	SSL/ TLS	No security
	This field defines the TCP/IP port the system will		
SMTP Port	employ when communicating with the SMTP E-mail server. (It is moved to web admin PGM 160-161)	1-65535	25
	SMDR Attributes		
	Swith Attributes		
SMDR Mail Send Weekly Set	Sets day of week to send SMDR data weekly.	0-7	N/A
SMDR Mail Send Daily	Sets time-of-day for SMDR data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the	00-23	00
Set	day).		
SMDR Mail Auto Send	If the SMDR buffer is full, the system can	OFF	OFF
Set	automatically send a notification by E-mail.	ON	

Table 4.4.5.1-1 SYSTEM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT			
SMDR Mail Auto Delete Set	Delete SMDR records after sending E-mail.	OFF ON	OFF			
SMDR Receiver Mail	User E-mail address to receive the SMDR e-mail	Max. 40				
Address	reports.	characters				
	ACD Attributes					
ACD Mail Send Weekly Set	Sets day of week to send ACD statistic data weekly.	0-7	N/A			
ACD Mail Send Daily Set	Sets time-of-day for ACD statistic data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day).	00-23	N/A			
ACD Database Delete After Mail Send	Delete ACD statistic data after sending E-mail	OFF ON	OFF			
ACD Receiver Mail	User e-mail address to receive the ACD E-mail	Max. 40				
Address	reports.	characters				
Alarm Attributes						
Alarm Receiver Mail Address	User E-mail address to receive Alarm reports.	Max. 40 characters				

 Table 4.4.5.1-1 SYSTEM ATTRIBUTES

# 4.4.5.2 System Password - PGM 162

Selecting System Password will display the System Password data entry page, Figure 4.4.5.2-1.

System Data v		
	Favorite PGM System Password(162) ×	
System Attributes(160~161)		
System Password(162)		S
Alarm Attributes(163)		_
Attendant Assignment(164)	Admin Passowrd (Save : )	
Multicast RTP/RTCP(165)	Enter Current Admin Password	
DISA COS(166)	Enter New Admin Password (MAX 12 digits)	
DID/DISA Destination(167)	Confirm New Admin Password	
External Control Contacts(168)	Maint Password (Save : )	
LCD Display Mode(169)	Enter Current Maint Password	
LED Flashing Rate(170)	Enter New Maint Password (MAX 12 digits)	
Music Sources(171)	Confirm New Maint Password	
PBX Access Codes(172)		
RLP Priority(173)		
RS-232 Port Settings(174)		
Serial Port Selections(175)		
Break / Make Ratio(176)		
SMDR Attributes(177)		
System Date & Time(178)		
System Multi Language(179)		
System Timers(180~182,186)		
In Room Indication(183)		

Figure 4.4.5.2-1 System Password

The Maintenance password gives access to Maintenance services on remote.

## 4.4.5.3 Alarm Attributes - PGM 163

Selecting Alarm Attributes will display the Alarm Attributes data entry page, Figure 4.4.5.3-1.

PECS eMG80		Administration Main	tenance	Change Language
System Data	~	Favorite PGM Alarm Attribute	es(163) ×	
System Attributes(160~161) System Password(162)			0	
Alarm Attributes(163) Attendant Assignment(164)		Attribute	Value	
Multicast RTP/RTCP(165)		Alarm Enable	OFF 💌	
DISA COS(166)		Alarm Contact Type	Close 🕶	
DID/DISA Destination(167)		Alarm Mode	Alarm 🔽	
External Control Contacts(168)		Alarm Signal Mode	Repeat 💌	
LCD Display Mode(169)		Emergency Call Notify	ON 💌	
LED Flashing Rate(170)		DCOB Fault Notify	ON 🔽	
Music Sources(171)		SIP Registration Fault Notify	ON 🔽	
PBX Access Codes(172)				
RLP Priority(173)				
RS-232 Port Settings(174)				
Serial Port Selections(175)				



The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the external contact. For the Alarm, the signal to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates. Refer to Table 4.4.5.3-1 for a description of the features and the data entries required for each attribute.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Alarm Enable	This entry enables/disables the contact monitoring	OFF	OFF	
	circuitry.	ON	OFF	
Alarm Contact Tura	This parameter establishes the contact state that will	Close/	Close	
Alarm Contact Type	activate the Alarm, close or open.	Open	Close	
Alarm Mode	The contact can be treated to function as a doorbell or an	Alarm/	Alarm	
Alarm Mode	alarm.	Door-Bell	Alaini	
Alarm Signal Mode	The assigned stations will receive a Repeating signal or	Repeat/	Papaat	
	single burst (Once) of alarm tone.	Once	Repeat	
Emergency Call	This entry enables/disables the Emergency call	OFF		
Notify	notification.	ON	ON	
DCOB Fault Notify		OFF		
	This entry enables/disables DCOB Fault notification.	ON	ON	
SIP Registration	This entry enables/disables SIP Registration Fault	OFF		
Fault Notify	notification.	ON	ON	

# 4.4.5.4 Attendant Assignment - PGM 164

Selecting Attendant Assignment will display the Attendant Assignment data entry page, Figure 4.4.5.4-1.

iPECS iPECS eMG80	Administra	ation	Maintenance		Change Language	Log O
System Data 🗸 🗸				×		
System Attributes(160~161)	Favorite PGM	Atte	ndant Assignment(164)	×C		
System Password(162)						Sav
Alarm Attributes(163)						
> Attendant Assignment(164)	Attendant		Station Number			
Multicast RTP/RTCP(165)	System Attend		100			
DISA COS(166)	Main Attendar	nt				
DID/DISA Destination(167)	Main Attendar	nt				
External Control Contacts(168)	Main Attendar	nt				
LCD Display Mode(169)						
LED Flashing Rate(170)						
Music Sources(171)						
PBX Access Codes(172)						
RLP Priority(173)						
RS-232 Port Settings(174)						
Serial Port Selections(175)						
Break / Make Ratio(176)						
SMDR Attributes(177)						
System Date & Time(178)						

Figure 4.4.5.4-1 Attendant Assignment

A maximum of four (4) Attendants can be assigned with the iPECS eMG80. One is the System Attendant and the remaining are Main Attendants. The System Attendant has higher priority in call handling and system management functions. As a default, the System Attendant is assigned Station 100. Main Attendants are not assigned by default

# 4.4.5.5 Multi-cast RTP/RTCP - PGM 165

Selecting Multi-cast RTP/RTCP will display the Multi-cast RTP/RTCP data entry page, Figure 4.4.5.5-1.

PECS eMG80	Administrat	ion	Maintenance		Change Language	Log Ou
System Data v						
System Attributes(160~161)	Favorite PGM	Multicast	RTP/RTCP(16			
System Password(162)						
Alarm Attributes(163)						Save
Attendant Assignment(164)	Attribute	RTP Valu	e RTCP Value	Range		
Multicast RTP/RTCP(165)	BGM Internal	8100	8101	0000 - 9999		
DISA COS(166)	BGM External 1	8102	8103	0000 - 9999		
DID/DISA Destination(167)	BGM External 2	8104	8105	0000 - 9999		
External Control Contacts(168)	Internal Page	8106	8107	0000 - 9999		
LCD Display Mode(169)	Internal Page	8108	8109	0000 - 9999		
LED Flashing Rate(170)	Internal Page	8110	8111	0000 - 9999		
Music Sources(171)	Internal Page	8112	8113	0000 - 9999		
PBX Access Codes(172)	Internal Page	8114	8115	0000 - 9999		
RLP Priority(173)	Internal Page	8116	8117	0000 - 9999		
RS-232 Port Settings(174)	Internal Page	8118	8119	0000 - 9999		
Serial Port Selections(175)	Internal Page	8120	8121	0000 - 9999		
Break / Make Ratio(176)	Internal Page	8122	8123	0000 - 9999		
SMDR Attributes(177)	Internal Page	8124	8125	0000 - 9999		
System Date & Time(178)	Internal Page	8126	8127	0000 - 9999		
System Multi Language(179)	Internal Page	8128	8129	0000 - 9999		
System Timers(180~182,186)	Internal Page	8130	8131	0000 - 9999		
In Room Indication(183)	Internal Page	8132	8133	0000 - 9999		
Web Access Authorization	Internal Page	8134	8135	0000 - 9999		
Station Web Authorization	Internal Page	8136	8137	0000 - 9999		
NTP Attributes(195)	Internal Page			0000 - 9999		
SNMP Attribute(196)		8138	8139	0000 - 9999		
Hot Desk Attributes(250)	Internal Page	8140	8141			
System Call Routing(251)	Internal Page	8142	8143	0000 - 9999		
CO Call Rerouting(252)	Internal Page	8144	8145	0000 - 9999		
VM COS Attributes(253)	Internal Page	8146	8147	0000 - 9999		
Static Route Table(254)	Internal Page	8148	8149	0000 - 9999		
Access Control List(255)	Internal Page	8150	8151	0000 - 9999		
System Speed Dial	Internal Page	8152	8153	0000 - 9999		
Custom Messages	Internal Page	8154	8155	0000 - 9999		
PPTP Attributes	Internal Page	8156	8157	0000 - 9999		
	Internal Page	8158	8159	0000 - 9999		
Station Group Data	Internal Page	8160	8161	0000 - 9999		
ISDN Line Data	Internal Page	8162	8163	0000 - 9999		
ISDN LINE Data	Internal Page	8164	8165	0000 - 9999		
SIP Data	🔽 🛛 Internal Page	8166	8167	0000 - 9999		

Figure 4.4.5.5-1 Multi-cast RTP/RTCP

Multi-cast is employed by the system to send BGM, MOH, paging and Push-To-Talk packets. Employing a single multi-cast packet reduces the overall LAN traffic. In some cases, specifically when multiple systems are connected to the same default gateway (router) it may be advantageous to define different IP ports for each system.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
BGM Internal RTP & RTCP ports	RTP and RTCP ports for internal BGM.	0000-9999	8100
	·		(8101)
BGM External 1 RTP & RTCP ports	RTP and RTCP ports for external BGM 1.	0000-9999	8102
			(8103)
BGM External 2 RTP & RTCP ports	RTP and RTCP ports for external BGM 1.	0000-9999	8104
			(8105)
Internal Page 1 RTP & RTCP ports	RTP and RTCP ports for Internal Page 1.	0000-9999	8106
		0000 0000	(8107)
Internal Page 2 RTP & RTCP ports	RTP and RTCP ports for Internal Page 2.	0000-9999	8108 (8109)
Internal Page 3 RTP & RTCP ports	RTP and RTCP ports for Internal Page 3.	0000-9999	8110
internal rage of the difference points	iter and teror ports for internal rage s.	0000 3333	(8111)
Internal Page 4 RTP & RTCP ports	RTP and RTCP ports for Internal Page 4.	0000-9999	8112
			(8113)
Internal Page 5 RTP & RTCP ports	RTP and RTCP ports for Internal Page 5.	0000-9999	8114
			(8115)
Internal Page 6 RTP & RTCP ports	RTP and RTCP ports for Internal Page 6.	0000-9999	8116
			(8117)
Internal Page 7 RTP & RTCP ports	RTP and RTCP ports for Internal Page 7.	0000-9999	8118
			(8119)
Internal Page 8 RTP & RTCP ports	RTP and RTCP ports for Internal Page 8.	0000-9999	8120 (8121)
Internal Page 9 RTP & RTCP ports	RTP and RTCP ports for Internal Page 9.	0000-9999	8122
internal rage six in article poins	itti and ittor poils for internari age 5.	0000-3333	(8123)
Internal Page 10 RTP & RTCP ports	RTP and RTCP ports for Internal Page 10.	0000-9999	8124
			(8125)
Internal Page 11 RTP & RTCP ports	RTP and RTCP ports for Internal Page 11.	0000-9999	8126
			(8127)
Internal Page 12 RTP & RTCP ports	RTP and RTCP ports for Internal Page 12.	0000-9999	8128
			(8129)
Internal Page 13 RTP & RTCP ports	RTP and RTCP ports for Internal Page 13.	0000-9999	8130
		0000 0000	(8131)
Internal Page 14 RTP & RTCP ports	RTP and RTCP ports for Internal Page 14.	0000-9999	8132 (8133)
Internal Page 15 RTP & RTCP ports	RTP and RTCP ports for Internal Page 15.	0000-9999	8134
internal rage is it in a trior poins	itti and ittor poils for internari age 15.	0000-3333	(8135)
Internal Page 16 RTP & RTCP ports	RTP and RTCP ports for Internal Page 16.	0000-9999	8136
			(8137)
Internal Page 17 RTP & RTCP ports	RTP and RTCP ports for Internal Page 17.	0000-9999	8138
	-		(8139)
Internal Page 18 RTP & RTCP ports	RTP and RTCP ports for Internal Page 18.	0000-9999	8140
			(8141)
Internal Page 19 RTP & RTCP ports	RTP and RTCP ports for Internal Page 19.	0000-9999	8142
			(8143)
Internal Page 20 RTP & RTCP ports	RTP and RTCP ports for Internal Page 20.	0000-9999	8144
Internal Dage 21 PTD 9 PTCD - arts	PTD and PTCD parts for Internal Dags 24	0000 0000	(8145)
Internal Page 21 RTP & RTCP ports	RTP and RTCP ports for Internal Page 21.	0000-9999	8146 (8147)
			(8147)

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Internal Page 22 RTP & RTCP ports	RTP and RTCP ports for Internal Page 22.	0000-999	8148
			(8149)
Internal Page 23 RTP & RTCP ports	RTP and RTCP ports for Internal Page 23.	0000-9999	8150
Internal Page 24 RTP & RTCP ports	RTP and RTCP ports for Internal Page 24.	0000 0000	(8151) 8152
Internal Fage 24 KTF & KTCF poils	RTF and RTCF poils for internal Fage 24.	0000-9999	(8153)
Internal Page 25 RTP & RTCP ports	RTP and RTCP ports for Internal Page 25.	0000-9999	8154
			(8155)
Internal Page 26 RTP & RTCP ports	RTP and RTCP ports for Internal Page 26.	0000-9999	8156
			(8157)
Internal Page 27 RTP & RTCP ports	RTP and RTCP ports for Internal Page 27	0000-9999	8158
			(8159)
Internal Page 28 RTP & RTCP ports	RTP and RTCP ports for Internal Page 28	0000-9999	8160
			(8161)
Internal Page 29 RTP & RTCP ports	RTP and RTCP ports for Internal Page 29	0000-9999	8162
			(8163)
Internal Page 30 RTP & RTCP ports	RTP and RTCP ports for Internal Page 30	0000-9999	8164
			(8165)
Internal Page 31 RTP & RTCP ports	RTP and RTCP ports for Internal Page 31	0000-9999	8166
	DTD and DTCD sorts for Internal Days 22	0000 0000	(8167)
Internal Page 32 RTP & RTCP ports	RTP and RTCP ports for Internal Page 32	0000-9999	8168 (8160)
Internal Page 33 RTP & RTCP ports	RTP and RTCP ports for Internal Page 33	0000-9999	(8169) 8170
Internal Fage 55 KTF & KTCF poils	KTF and KTCF poils for internal Fage 35	0000-99999	(8171)
Internal Page 34 RTP & RTCP ports	RTP and RTCP ports for Internal Page 34	0000-99999	8172
			(8173)
Internal Page 35 RTP & RTCP ports	RTP and RTCP ports for Internal Page 35	0000-9999	8174
			(8175)
Internal Page All RTP & RTCP ports	RTP and RTCP ports for Internal All Call Page	0000-9999	8176
			(8177)
External Page 1 RTP & RTCP ports	RTP and RTCP ports for External Page 1.	0000-9999	8178
			(8179)
External Page 2 RTP & RTCP ports	RTP and RTCP ports for External Page 2.	0000-9999	8180
			(8181)
External Page All RTP & RTCP ports	RTP and RTCP ports for External All Call	0000-9999	8182
	Page.		(8183)
Page All RTP & RTCP ports	RTP and RTCP ports for All Call Page.	0000-9999	8184
			(8185)
PTT 1 RTP & RTCP ports	RTP and RTCP ports for PTT group 1.	0000-9999	8186
DTT 2 DTD & DTCD ports	RTP and RTCP ports for PTT group 2.	0000 0000	(8187)
PTT 2 RTP & RTCP ports	TTE and KICE poils for PTT group 2.	0000-9999	8188 (8189)
PTT 3 RTP & RTCP ports	RTP and RTCP ports for PTT group 3.	0000-9999	8190
		0000-3333	(8191)
PTT 4 RTP & RTCP ports	RTP and RTCP ports for PTT group 4.	0000-99999	8192
			(8193)
PTT 5 RTP & RTCP ports	RTP and RTCP ports for PTT group 5.	0000-99999	8194
• • • •			(8195)

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PTT 6 RTP & RTCP ports	RTP and RTCP ports for PTT group 6.	0000-9999	8196
			(8197)
PTT 7 RTP & RTCP ports	RTP and RTCP ports for PTT group 7.	0000-9999	8198
			(8199)
PTT 8 RTP & RTCP ports	RTP and RTCP ports for PTT group 8.	0000-9999	8200
			(8201)
PTT 9 RTP & RTCP ports	RTP and RTCP ports for PTT group 9.	0000-9999	8202
			(8203)
PTT All RTP & RTCP ports	RTP and RTCP ports for PTT group ALL	0000-9999	8204
			(8205)
BGM Internal VSF	RTP and RTCP ports for VSF BGM	0000-9999	8206
			(8207)
SLT MOH 1	RTP and RTCP ports for SLT MOH1	0000-9999	8208
			(8209)
SLT MOH 2	RTP and RTCP ports for SLT MOH2	0000-9999	8210
			(8211)
SLT MOH 3	RTP and RTCP ports for SLT MOH3	0000-9999	8212
			(8213)
SLT MOH 4	RTP and RTCP ports for SLT MOH4	0000-9999	8214
			(8215)
SLT MOH 5	RTP and RTCP ports for SLT MOH5	0000-9999	8216
			(8217)
VSF MOH2	RTP and RTCP ports for VSF MOH2	0000-9999	8218
			(8219)
VSF MOH3	RTP and RTCP ports for VSF MOH3	0000-9999	8220
			(8221)

Table 4.4.5.5-3 MULTI-CAST RTP/RTCP

## 4.4.5.6 DISA COS - PGM 166

Selecting DISA COS will display the DISA COS data entry page, Figure 4.4.5.6-1.

IPECS eMG80		Administration Main	tenance
System Data	~ ^		×
System Attributes(160~161) System Password(162) Alarm Attributes(163)		Favorite PGM DISA COS(166	×
Attendant Assignment(164)		Attribute	Value
Multicast RTP/RTCP(165)		Day COS	7 🗸
> DISA COS(166)		Night COS	7 💌
DID/DISA Destination(167)		Timed Ring COS	7 💌
External Control Contacts(16	(8)		
LCD Display Mode(169)			
LED Flashing Rate(170)			
Music Sources(171)			
PBX Access Codes(172)			
RLP Priority(173)			
RS-232 Port Settings(174)			
Serial Port Selections(175)			
Break / Make Ratio(176)			
SMDR Attributes(177)			
System Date & Time(178)			
System Multi Language(179	)		

### Figure 4.4.5.6-1 DISA COS

A DISA user is subject to the dialing restrictions assigned in the DISA Class-of-Service (COS). The restrictions applied are the same as with the corresponding Station COS levels 1~11 and interact with the CO/IP COS in the same manner. An assignment is made for Day, Timed and Night Ring mode of system operation. The default for all three modes (Day, Timed and Night) of DISA COS is 1, no restrictions.

## 4.4.5.7 DID/DISA Destination - PGM 167

Selecting DID/DISA Destination displays the Tenant Group input page, Figure 4.4.5.7-1. Select Tenant Group, the system will display the DID/DISA Destination Attributes.

iPECS iPECS eMG80	Administration Mainte	enance		Change Language	Log Out	
System Data 🗸 🔺						
System Attributes(160~161)	Favorite PGM DID/DISA Destin	ation(167) ×				×
System Password(162) Alarm Attributes(163)	Enter ICM Tenancy Group Number (	0 - 15) :	Load		Save	^
Attendant Assignment(164)	DID/DISA Route Table (Tenancy Gro	up:1)				
Multicast RTP/RTCP(165)	Attribute	Value				
DISA COS(166)		💿 Tone				
> DID/DISA Destination(167)	Busy Destination	🔘 Attendant (Ring Assign)				
External Control Contacts(168)	Dusy Destination	🔿 Station Group				
LCD Display Mode(169)		○ VSF Announcement				
LED Flashing Rate(170)		🔿 Tone				
Music Sources(171)	Error Destination	💿 Attendant (Ring Assign)				
PBX Access Codes(172)	End Destination	O Station Group				
RLP Priority(173)		○ VSF Announcement				
RS-232 Port Settings(174)		💿 Tone				
Serial Port Selections(175)	No Answer Destination	🔿 Attendant (Ring Assign)				
Break / Make Ratio(176)		O Station Group				
SMDR Attributes(177)		○ VSF Announcement				
System Date & Time(178)		💿 Tone				
System Multi Language(179)	DND Destination	O Attendant (Ring Assign)				
System Timers(180~182,186)		O Station Group				
In Room Indication(183)		○ VSF Announcement				
Web Access Authorization		Busy Prompt Usage	ON 🔽			
Station Web Authorization		Error Prompt Usage	ON 🔽			
NTP Attributes(195)	VSF Prompt Usage	Dnd Prompt Usage	ON 🔽			
SNMP Attribute(196)		No Ans Prompt Usage	ON 🔽			
Hot Desk Attributes(250)		Atd Xfer Prompt Usage	ON 💌			
System Call Routing(251)		💿 Tone				
CO Call Rerouting(252)	Reroute Busy Destination	🔿 Attendant (Ring Assign)				
VM COS Attributes(253)		🔿 Station Group				
Static Route Table(254)		📀 Tone				
Access Control List(255)	Reroute Error Destination	O Attendant (Ring Assign)				
System Speed Dial		🔿 Station Group				
Custom Messages		<ul> <li>Tone</li> </ul>				
PPTP Attributes	Reroute No Answer Destination	O Attendant (Ring Assign)				
Station Group Data		O Station Group				
		<ul> <li>Tone</li> </ul>				
ISDN Line Data	Reroute Net CO Busy Destination	Attendant (Ring Assign)     Station Group				
SIP Data		Ostation Group				~

Figure 4.4.5.7-1 DID/DISA Destination

When a DID line or DISA user dials an invalid/vacant or busy station number the caller will be sent to the assigned destination that is selected according to the CO Tenancy group of the DID/DISA line. The destination is separately defined for invalid, busy, and No Answer conditions and can be defined as the Attendant, busy tone, a Station Group or a VSF Announcement.

For calls on a DID line to a busy station, DID Call Wait can be assigned, refer to Common Attributes section 4.4.2.2. Also, for DID calls only, announcements (prompts) can be sent from the VSF gateway to the caller for various conditions, busy, error, DND, No Answer, or Attendant Transfer.

# 4.4.5.8 External Control Contacts - PGM 168

Selecting External Control Contacts will display the External Control Contact data entry page, Figure 4.4.5.8-1.

emg80	Administration	Maintenance	Change Language
stem Data v	Favorite PGM	External Control Contacts(168)	
System Attributes(160~161)		U	
System Password(162)			
Alarm Attributes(163) Attendant Assignment(164)	External Control Co	ontact Value	
Multicast RTP/RTCP(165)		Unused	
DISA COS(166)			
DID/DISA Destination(167)	First	O Door Open	
External Control Contacts(168)		External Control Device 1	
LCD Display Mode(169)		External Control Device 2	
LED Flashing Rate(170)		<ul> <li>Unused</li> </ul>	
Music Sources(171)		O LBC	
PBX Access Codes(172)	Second	🔿 Door Open	
RLP Priority(173)		External Control Device 1	
RS-232 Port Settings(174)		External Control Device 2	
Serial Port Selections(175)			
Break / Make Ratio(176)			
SMDR Attributes(177)			
System Date & Time(178)			
System Multi Language(179)			
System Timers(180~182,186)			
In Room Indication(183)			
Web Access Authorization			

Figure 4.4.5.8-1 External Control Contact

The system includes a programmable contact in the KSU and EKSU, which can be used to control external devices. Refer to Figure 4.4.5.8-1 for number of available contacts. Each contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station or group receives an external call. For LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UNA calls and will ignore any station assignment. The contact may alternatively activate as a Door Lock Release contact, when External Page Zone 1 is accessed or when External Page Zone 2 is accessed.

## 4.4.5.9 LCD Display Mode - PGM 169

Selecting LCD Display Mode will display the data entry page, Figure 4.4.5.9-1.

PECS ECS eMG80	Administration	Maintenance	Change Language Log
System Data v			
Oustana Attributes (400, 404)	Favorite PGM LCD D	isplay Mode(169) 🙁 🔀	
System Attributes(160~161)			
System Password(162)			S
Alarm Attributes(163) Attendant Assignment(164)	Attribute	Value	
Multicast RTP/RTCP(165)	LCD Date Display Mode		
DISA COS(166)	LCD Time Display Mode		
DID/DISA Destination(167)	Language Display Mode		
External Control Contacts(168)	LCD Weekday Display M		
> LCD Display Mode(169)			
LED Flashing Rate(170)			
Music Sources(171)			
PBX Access Codes(172)			
RLP Priority(173)			
RS-232 Port Settings(174)			
Serial Port Selections(175)			
Break / Make Ratio(176)			
SMDR Attributes(177)			
System Date & Time(178)			
System Multi Language(179)			
System Timers(180~182,186)			
In Room Indication(183)			
Web Access Authorization			
Station Web Authorization			
NTP Attributes(195)			
SNMP Attribute(196)			

Figure 4.4.5.9-1 LCD Display Mode

The LCD display mode sets the time (12/24 hr.), date (day/month order) and language. Refer to Table 4.4.5.9-1 and Table 4.4.5.9-2 for a description of the modes and the data entries required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCD Date Display Mode	Sets the Date display as month/day or day/month.	MM-DD-YY DD-MM-YY	DD-MM-YY
LCD Time Display Mode	Sets the Time display mode as 12 hour or 24-hour (military) time.	12 Hour Mode 24 Hour Mode	12 Hour
Language Display Mode	Sets the Language used in the display; refer to Table 4.4.5.9-2 below.		English
LCD Weekday Display Mode	Sets the Day-of-Week (DoW) display mode: no DoW display mmm/dd/DoW, (alpha month display, overrides setting of button 1 above. display mm/dd/DoW, numeric month display, overrides setting of button 1 above.	No Display/ Follow - PGM169/ Type1 (mmm/dd/DOW) Type2 (mm dd/DOW)	Follow - PGM169 BTN1

### Table 4.4.5.9-1 LCD DISPLAY MODES

LANGUAGE
English
Italian
Finnish
Dutch
Swedish
Danish
Norwegian
Hebrew
German
French
Portuguese
Spanish
Korean
Estonian
Russian
Turkish
Polish
Greek

### Table 4.4.5.9-2 LCD LANGUAGE SELECTION

# 4.4.5.10 LED Flashing Rate - PGM 170

Selecting LED Flashing Rate will display the data entry page, Figure 4.4.5.10-1.

PECS ECS eMG80	Administration	Maintenance Change La	anguage 🛛 Log Out
System Data 🗸 🗸 🗸		Flooking Dots (470) X	
System Attributes(160~161)	Favorite PGM LED	Flashing Rate(170)	
System Password(162)			Save
Alarm Attributes(163)			Dave
Attendant Assignment(164)	Attribute	Value	
Multicast RTP/RTCP(165)	CO Incoming Ring	Flash 30 IPM	
DISA COS(166)	CO Transfer Ring	Flash 120 IPM 🖌	
DID/DISA Destination(167)	COL Queue Ring	Flash 240 IPM Flutter 🛛 🖌	
External Control Contacts(168)	COL RCL Ring	Flash 480 IPM Flutter 🛛 🖌	
LCD Display Mode(169)	COL I Hold Ring	Flash 30 IPM Wink 🛛 💌	
LED Flashing Rate(170)	COL System Hold Ring	; Flash 60 IPM 💌	
Music Sources(171)	COL Exclusive Hold Ri	ng Flash 120 IPM 💌	
PBX Access Codes(172)	COL Outgoing Disable	d 🛛 🛛 🖌 Flash 240 IPM Flutter 💌	
RLP Priority(173)	COL Incoming Offnet C	FW Flash 240 IPM Flutter 💌	
RS-232 Port Settings(174)	COL DISA Indication	Flash 240 IPM	
Serial Port Selections(175)	COL Supplementary C	all Waiting 🛛 Flash 240 IPM Flutter 🛛 🗸	
Break / Make Ratio(176)	COL Supplementary Ca	all Hold 🛛 Flash 480 IPM 🔍	
SMDR Attributes(177)	DSS CO Ring	Flash 30 IPM	
System Date & Time(178)	DSS All Ring	Flash 60 IPM	
System Multi Language(179)	DSS Associated Ring	Flash 120 IPM	
System Timers(180~182,186)	DSS In DND	Flash 60 IPM	
In Room Indication(183)	DSS Lock Out	Flash 480 IPM Flutter	
Web Access Authorization	DSS Pre-select Messa		
Station Web Authorization	DSS ICM Hold	Flash 60 IPM	
NTP Attributes(195)	DSS Other	Flash 120 IPM	
SNMP Attribute(196)	UCD Queue Ring 2		
Hot Desk Attributes(250)			
System Call Routing(251)	UCD Queue Ring 6	Flash 120 IPM	
CO Call Rerouting(252)	UCD Queue Ring 7-X	Flash 240 IPM	
VM COS Attributes(253)	UCD DND (Off Duty)	Flash 120 IPM	
Static Route Table(254)	UCD Warning	Flash 120 IPM	
Access Control List(255)	UCD Help	Flash 120 IPM	
System Speed Dial	Feature Record	Flash 240 IPM	
Custom Messages	Feature Message Wait		
PPTP Attributes	DSS Out-Of-Service Sta		
	On-Demand Ring Mod		
Station Group Data	Night Ring Mode	Flash Off	
SDN Line Data	Timed Ring Mode	Flash 240 IPM	
	Auto Ring Mode	Flash 480 IPM 💌	
SIP Data	Paged Hold Button	Flash 60 IPM 💙	

Figure 4.4.5.10-1 LED Flashing Rate

The LED flash rate for various functions and states can be assigned any one of the system's 15 signals. The various functions and states are shown in Table 4.4.5.10-1. The 15 flash signals available in the system are shown in Table 4.4.5.10-2.

ATTRIBUTE DESCRIPTION RANGE DEFAULT					
ATTRIBUTE	DESCRIPTION	RANGE			
CO Incoming Ring	CO button Incoming ring flashing rate.	00-14	FLASH 30 IPM (2)		
CO Transfer Ring	CO button transfer ring flashing rate.	00-14	FLASH 120 IPM (10)		
COL Queue Ring	CO button queue call back ring flashing rate.	00-14	FLASH 240 IPMFLUTTER (6)		
COL RCL Ring	CO button recall ring flashing rate.	00-14	FLASH 480 IPMFLUTTER (8)		
COL I Hold Ring	CO button I hold flashing rate.	00-14	FLASH 30 IPM WINK (12)		
COL System Hold Ring	CO button system hold flashing rate.	00-14	FLASH 60 IPM (3)		
COL Exclusive Hold Ring	CO button exclusives hold flashing rate.	00-14	FLASH 120 IPM (10)		
COL Outgoing Disabled	CO button outgoing disabled flashing rate.	00-14	FLASH 240 IPMFLUTTER (6)		
COL Incoming Off-net CFW	CO button incoming off-net call forward flashing rate.	00-14	FLASH 240 IPMFLUTTER (6)		
COL DISA Indication	CO button DISA indication flashing rate.	00-14	FLASH 240 IPM (5)		
COL Supplementary Call Waiting	CO button supplementary call waiting flashing rate.	00-14	FLASH 240 IPMFLUTTER (6)		
COL Supplementary Call Hold	CO button supplementary hold flashing rate.	00-14	FLASH 480 IPM (8)		
DSS CO Ring	DSS button CO ring flashing rate.	00-14	FLASH 30 IPM (2)		
DSS All Ring	DSS button ICM ALL ring flashing rate.	00-14	FLASH 60 IPM (3)		
DSS Associated Ring	DSS button ICM ring associate device flashing rate.	00-14	FLASH 120 IPM (10)		
DSS Incoming Ring	DSS button station is in DND.	00-14	FLASH 60 IPM (3)		
DSS Lock Out	DSS button station is in lock out.	00-14	FLASH 480 IPMFLUTTER (8)		
DSS Pre-select Message	DSS button station is in pre-selected message.	00-14	FLASH 30 IPM (2)		
DSS ICM Hold	DSS button station is in ICM hold.	00-14	FLASH 60 IPM (3)		
DSS Other	DSS button station is in other state.	00-14	FLASH 120 IPM (10)		
UCD Queue Ring 2	CIQ #1 Threshold.	00-14	FLASH 60 IPM (3)		
UCD Queue Ring 6	CIQ #2 Threshold.	00-14	FLASH 120 IPM (10)		
UCD Queue Ring 7-X	CIQ #3 Threshold.	00-14	FLASH 240 IPM (5)		
UCD DND (Off Duty)	UCD an agent is off duty (UCD DND).	00-14	FLASH 120 IPM (10)		

Table 4.4.5.10-1 LED INDICATION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
UCD Warning	UCD warning tone.	00-14	FLASH 120 IPM (10)
UCD Help	UCD help request/response.	00-14	FLASH 120 IPM (10)
Feature Record	FEATURE voice record button.	00-14	FLASH 240 IPM (5)
Feature Message Wait	FEATURE message wait.	00-14	FLASH 30 IPM (2)
DSS Out-of-service state	DSS button a station is in out-of-service state.	00-14	FLASH OFF (00)
On-demand Ring mode	DND led of attendant station for ring mode.	00-14	FLASH 60 IPM (3)
Night Ring mode	DND led of attendant station for ring mode.	00-14	FLASH Off
Timed Ring mode	DND led of attendant station for ring mode.	00-14	FLASH 240 IPM (5)
Auto Ring mode	DND led of attendant station for ring mode.	00-14	FLASH 480 IPM (7)
Page Hold Button	HOLD LED for paging.	00-14	FLASH 60 IPM (3)
DSS Hunt DND(off duty)	DSS button station in Hunt DND.	00-14	FLASH 120 IPM (10)

#### Table 4.4.5.10-1 LED INDICATION

#### Table 4.4.5.10-2 LED FLASH RATE TABLE

Flash Rate	DESCRIPTION
1	Steady On
2	30 ipm flash (30% On)
3	60 ipm flash (30% On)
4	60 ipm double wink (30% On-Off-On-Off 7 &0% On)
5	240 ipm flash (30% On)
6	240 ipm flutter (30% On-Off-On-Off-On & 70% Off)
7	480 ipm flash (30% On)
8	480 ipm flutter (30% On-Off-On-Off-On & 70% Off)
9	15 ipm flash (30% On)
10	120 ipm flash (30% On)
11	120 ipm flutter (30% On-Off-On-Off-On & 70% Off)
12	30 ipm double flash (30% On-Off-On & 70% Off)
13	480 ipm double wink (30% On-Off-On-Off 7 &0% On)
14	480 ipm double flash (30% On-Off-On & 70% Off)

### 4.4.5.11 Music Sources - PGM 171

Selecting Music Sources will display the Music Sources data entry page, Figure 4.4.5.11-1.

iPECS iPECS eMG80	Administration	Maintenance	Change Language Log Ou
System Data 🔹 🗸			
System Attributes(160~161)	Favorite PGM Music So	ources(171) ×	
System Password(162)			
Alarm Attributes(163)			Save
Attendant Assignment(164)	Attribute	Value	
Multicast RTP/RTCP(165)	BGM Type	Internal Music 💌	
DISA COS(166)	МОН Туре	Internal Music 💌	
DID/DISA Destination(167)	Internal Music Type	Romance 🔽	
External Control Contacts(168)	SLT MOH TYPE	Station Number	
LCD Display Mode(169)	SLT MOH 1		
LED Flashing Rate(170)	SLT MOH 2		
> Music Sources(171)	SLT MOH 3		
PBX Access Codes(172)	SLT MOH 4		
RLP Priority(173)	SLT MOH 5		
RS-232 Port Settings(174)	EXT VSF MOH ASSIGN	VSF Number	
Serial Port Selections(175)	VSF MOH 2	(1 ~ 70)	
Break / Make Ratio(176)	VSF MOH 3	(1 ~ 70)	
SMDR Attributes(177)			
System Date & Time(178)			
System Multi Language(179)			
System Timers(180~182,186)			
In Room Indication(183)			

Figure 4.4.5.11-1 Music Sources

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. Up to three VSF announcements may be recorded and played as MOH to the connected caller. Also, up to five SLT ports may be used as MOH to the held caller.

# 4.4.5.12 PBX Access Codes - PGM 172

Selecting PBX Access Codes will display the PBX Access Codes data entry page, Figure 4.4.5.12-1.

PECS ECS eMG80	Administration	n Ma	intenance	Change Language Log O
System Data 🛛 🗸 🗸				
System Attributes(160~161)	Favorite PGM	PBX Access	Codes(172) ×	
System Password(162)				
Alarm Attributes(163)				Sav
Attendant Assignment(164)	Attribute	Value	Range	
Multicast RTP/RTCP(165)	PBX Access Code	91	max 2 digits (include *' and #')	
DISA COS(166)	PBX Access Code	9.2	max 2 digits (include *' and #')	
DID/DISA Destination(167)	PBX Access Code	9.3	max 2 digits (include *' and #')	
External Control Contacts(168)	PBX Access Code	9.4	max 2 digits (include *' and #')	
LCD Display Mode(169)				
LED Flashing Rate(170)				
Music Sources(171)				
PBX Access Codes(172)				
RLP Priority(173)				
RS-232 Port Settings(174)				
Serial Port Selections(175)				
Break / Make Ratio(176)				
SMDR Attributes(177)				
System Date & Time(178)				
System Multi Language(179)				
System Timers(180~182,186)				
In Room Indication(183)				
Web Access Authorization				

Figure 4.4.5.12-1 PBX Access Codes

When the system is used "behind" a PBX/CTX, the system needs to recognize the PBX/CTX Trunk access codes to implement proper dialing restriction, tone detection sequences and Flash timing. A maximum of four (4) Trunk Access Codes of one (1) or two (2) digits can be entered.

### 4.4.5.13 Ringing Line Preference Priority - PGM 173

Selecting Ring Line Preference Priority will display the Ringing Line Preference Priority data entry page, Figure 4.4.5.13-1.

iPECS iPECS eMG80	Adminis	tration Maintenance	Change Language Log Out
System Data 🗸 🔺			
System Attributes(160~161)	Favorite PC	M RLP Priority(173) ×	
System Password(162)			
Alarm Attributes(163)			Save
Attendant Assignment(164)	Priority	Value	
Multicast RTP/RTCP(165)	1	Transfer CO/IP Call 💌	
DISA COS(166)	2	CO/IP Recall	
DID/DISA Destination(167)	3	Incoming CO/IP Call 🐱	
External Control Contacts(168)	4	Queued CO/IP Call 💌	
LCD Display Mode(169)			
LED Flashing Rate(170)			
Music Sources(171)			
PBX Access Codes(172)			
> RLP Priority(173)			
RS-232 Port Settings(174)			
Serial Port Selections(175)			
Break / Make Ratio(176)			
SMDR Attributes(177)			
System Date & Time(178)			
System Multi Language(179)			
System Timers(180~182,186)			
In Room Indication(183)			

Figure 4.4.5.13-1 Ringing Line Preference Priority

When multiple calls are ringing at a station assigned Ringing Line Preference, the order of preference is based on the type of call: CO/IP Transfer, CO/IP Recall, Incoming call, CO/IP Queue. ICM calls are always assigned the lowest priority.

### 4.4.5.14 RS-232 Port Settings - PGM 174

Selecting RS-232 Port and USB 1&2 port Settings will display the RS-232 Port and USB 1&2 port Settings data entry page, Figure 4.4.5.14-1.

PECS ECS eMG80		Administration	Maintena	ince			Change Language	
System Data V		Founda DOM		×				
System Attributes(160~161)		Favorite PGM	S-232 Port Settin	gs(174) ×				
System Password(162)								
Alarm Attributes(163)								
Attendant Assignment(164)		Attribute	V	alue		Range		
Multicast RTP/RTCP(165)			Baudrate	115200 BAUE	) 🔽			
DISA COS(166)			CTS/RTS	OFF 🔽				
DID/DISA Destination(167)		Serial 1 Port Setting	Page Break	OFF 💌				
External Control Contacts(168)			Line Per Page	66		001-199		
LCD Display Mode(169)			XON/XOFF	XOFF 🔽				
LED Flashing Rate(170)			Baudrate	115200 BAUE	) 🗸			
Music Sources(171)		USB 1 Port Setting	CTS/RTS	OFF 🔽				
PBX Access Codes(172)			Page Break	OFF 🔽				
RLP Priority(173)			Line Per Page	66		001-199		
RS-232 Port Settings(174)			XON/XOFF	XOFF 🔽				
Serial Port Selections(175)			Baudrate	115200 BAUE	) 🗸			
Break / Make Ratio(176)			CTS/RTS	OFF 💌				
SMDR Attributes(177)		USB 2 Port Setting	Page Break	OFF 🔽				
System Date & Time(178)			Line Per Page	66		001-199		
System Multi Language(179)			XON/XOFF	XOFF 🔽				
System Timers(180~182,186)								
n Room Indication(183)								
eb Access Authorization								
Station Web Authorization								
NTP Attributes(195)								
SNMP Attribute(196)								
Hot Desk Attributes(250)								

Figure 4.4.5.14-1 RS232 Port and USB 1&2 port Settings

Certain characteristics of each port are programmable including baud rate, RS 232 control, and page settings. Refer to Table 4.4.5.14-1 for a description of the settings and the data entries available.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Baud Rate	This entry establishes the BAUD rate for the RS-232 serial port.	Unknown/ 9600/ 19200/ 38400/ 57600/ 115200	115200
CTS/RTS	The system's RS232 port can support Clear-to-Send (CTS) and Ready-to-Send (RTS), control leads. <b>It is not used.</b>	OFF ON	OFF
Page Break	The system can send a page break command over the serial port at the end of each page. See Lines per Page below for page length set-up.	OFF ON	OFF
Line Per Page	This entry sets the page length, the number of lines the system will send before sending the page break.	001~199	66
XON/XOFF This entry enables/disables XON/XOFF protocol. It is not used.		XON/ XOFF	XOFF

Table 4.4.5.14-1	<b>RS232 PORT</b>	and USB 1	&2 port Settings

### 4.4.5.15 Serial Port Selections - PGM 175

Selecting Serial Port Selections will display the Serial Port Selections data entry page, Figure 4.4.5.15-1. For each function select the desired output using the drop-down menu and, if a TCP channel is assigned, enter the TCP port.

System Data 🗸 🗸 🗸					v	
System Attributes(160~161)	Favorite PGM	Serial Port S	Selections(175)	4	× C	
System Password(162)						
Alarm Attributes(163)						
Attendant Assignment(164)	Attribut	e	Value		TCP PORT	
Multicast RTP/RTCP(165)	Off-line SMDR/Sta	atistics Print	Serial Port 1	~	NULL	
DISA COS(166)	ADMIN Data Print		Serial Port 1	~	NULL	
DID/DISA Destination(167)	Traffic Print		Serial Port 1	~	NULL	
External Control Contacts(168)	SMDI Print		Serial Port 1	~	NULL	
LCD Display Mode(169)	Call Information F	Print	Serial Port 1	~	NULL	
LED Flashing Rate(170)	On-line SMDR Pr	int	Serial Port 1	~	NULL	
Music Sources(171)	Trace Print		Serial Port 1	~	NULL	
PBX Access Codes(172)	Debug Print		Serial Port 1	~	NULL	
RLP Priority(173)	ACD Package Pri	nt	Serial Port 1	~	NULL	
RS-232 Port Settings(174)	SMDR Interface D	ata Print	Serial Port 1	~	NULL	
Serial Port Selections(175)						
Break / Make Ratio(176)						
SMDR Attributes(177)						
System Date & Time(178)						
System Multi Language(179)						
System Timers(180~182,186)						

Figure 4.4.5.15-1 Serial Port Selections

The system has six (6) serial ports (1 RS232, 3 TCP Channels and 2 USB serial). A serial port is assigned to each function that requires a serial output.

### 4.4.5.16 Break/Make Ratio - PGM 176

Selecting Break/Make Ratio will display the Break/Make Ratio data entry page, Figure 4.4.5.16-1.

IPECS IPECS eMG80		Administration	Maintenance
System Data	~ ^	Everity DOM Devel	×
System Attributes(160~161)		Favorite PGM Break	: / Make Ratio(176) X
System Password(162)			
Alarm Attributes(163)			
Attendant Assignment(164)		Attribute	Value
Multicast RTP/RTCP(165)		Break/Make Ratio	60/40 % 💌
DISA COS(166)			
DID/DISA Destination(167)			
External Control Contacts(168)			
LCD Display Mode(169)			
LED Flashing Rate(170)			
Music Sources(171)			
PBX Access Codes(172)			
RLP Priority(173)			
RS-232 Port Settings(174)			
Serial Port Selections(175)			
> Break / Make Ratio(176)			
SMDR Attributes(177)			
System Date & Time(178)			
System Multi Language(179)			
System Timers(180~182,186)			

Figure 4.4.5.16-1 Break/Make Ratio

For Pulse dial CO Lines, the system supports 10pps and break/make ratios of 60/40% or 66/ 34%.

# 4.4.5.17 SMDR Attributes - PGM 177

Selecting SMDR Attributes will display the SMDR Attributes data entry page, Figure 4.4.5.17-1.

PECS ECS eMG80	Administration Maintenance		Change Language	Log Ou
System Data 🗸 🗸 🗸				
System Attributes(160~161)	Favorite PGM SMDR Attributes(177)	x 0		
System Password(162)				
Alarm Attributes(163)				Save
Attendant Assignment(164)	Attribute	Value	Range	
Multicast RTP/RTCP(165)	Save Enable	OFF 💌		
DISA COS(166)	Print Enable	ON 💌		
DID/DISA Destination(167)	Record Type	Long Distance 💌		
External Control Contacts(168)	Long Distance Call Digit Counter	7	07-15	
LCD Display Mode(169)	Print Incoming Call	OFF 🔽		
LED Flashing Rate(170)	Print Lost Call	ON 💌		
Music Sources(171)	Records In Detail	ON V		
PBX Access Codes(172)	Hidden Dialed Digit	0	0-9	
RLP Priority(173)	Dialed Digit Hide Option	Right 🗸		
RS-232 Port Settings(174)	SMDR Currency Unit		Max 3 characters	
Serial Port Selections(175)	SMDR Cost Per Metering Pulse	000000	Must be 6 digits	
Break / Make Ratio(176)	SMDR Decimal Location	0	0-5	
SMDR Attributes(177)	Start Timer	0 (*1sec)	000-250	
System Date & Time(178)		1 0	Max 2 Digits	
System Multi Language(179)		2	Max 2 Digits	
System Timers(180~182,186)	Long Distance Code	3	Max 2 Digits	
In Room Indication(183)	Long Distance Code	4		
Web Access Authorization			Max 2 Digits	
Station Web Authorization		5	Max 2 Digits	
NTP Attributes(195)	SMDR Ring/CLI/CPN Service-I	Ring 💌		
SNMP Attribute(196)	SMDR Ring/CLI/CPN Service-II	CPN V		
Hot Desk Attributes(250)	Print MSN	OFF 🗸		
System Call Routing(251)	Print Serial No	OFF 🗸		
CO Call Rerouting(252)	SMDR Interface Service	OFF 🗸		
VM COS Attributes(253)	SMDR ICM Save	OFF 🗸		
Static Route Table(254)	SMDR ICM Print	OFF 🔽		
Access Control List(255)	SMDR Disconnect Cause	OFF 💌		
System Speed Dial	Long Time Call	0 (*10min)	000-144	
Custom Messages	SMDR Output Limit from any CO to NET Call	OFF 🔽		
PPTP Attributes	Transferred Call Charge Rate	Individual Station	<b>~</b>	
	Attendant Transfer Charge Rate	Individual Charging	~	
Station Group Data		1	Max 4 Digits	
	International Access Code	2	Max 4 Digits	
ISDN Line Data		3	Max 4 Digits	
SIP Data	✓	1	Max 4 Digits	

#### Figure 4.4.5.17-1 SMDR Attributes

Station Message Detail Recording (SMDR), which is output over an RS 232 port or TCP channel, contains details on both incoming and outgoing calls. Various SMDR attributes can be assigned including; output records for all calls or LD only, call cost per pulse when using call metering, etc. Refer to Table 4.4.5.17-1 for a description of each Attribute and the data entries required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Save Enable	The system can output all outgoing call records (ON) or, to allow for PSTN call set-up times, only records for calls that exceed the SMDR Timer (OFF). For SMDR Timer settings refer to "Start Timer", below.	OFF ON	OFF
Print Enable	The system can output SMDR records automatically as they occur (real-time) or only when requested. When this attribute is ON, SMDR is sent at call completion.	OFF ON	ON
Record Type	The system can record all outgoing calls or only long distance calls. Long distance calls are identified by the LD digit count and LD codes assigned in "Long Distance code"	Long Distance/ ALL calls	Long Distance
Long Distance Call Digit Counter	Dialed numbers, which exceed the assigned LD digit count are considered long distance calls for SMDR and COS purposes.	07-15	07
Print Incoming Call	The system can output records for Incoming calls as well as outgoing calls. If enabled, incoming as well as outgoing calls are recorded.	OFF ON	OFF
Print Lost Call	When incoming call records are enabled, the system can also provide records for unanswered incoming (abandoned) calls.	OFF ON	ON
Records In Detail	The system can output detailed call records (ON) or summary call information (total number of calls, cost and cost for each station).	OFF ON	ON
Hidden Dialed Digit	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. The Dialed Digit Hide Option below defines whether leading or trailing digits are hidden The station must be assigned for SMDR Hidden digits in Common Attributes section 4.4.2.2.	0~9	0
Dialed Digit Hide Option	When "HIDDEN DIALED DIGIT" is enabled, above, this field determines if leading or trailing digits are hidden.	Right/ Left	Right
SMDR Currency Unit	The unit of currency used for call cost can be identified with 3- characters for easy reference.	Max. 3 characters	
SMDR Cost Per Metering Pulse	When call metering is provided by the PSTN, the cost per metering pulse can be assigned.	6-digits	000000
SMDR Decimal Location	This value determines the position of the decimal in the Cost per Pulse entry above, starting from the right most digits.	0~5	0
Start Timer	To allow for call set-up times through the PSTN, a "Valid call timer" can be set.	000~250 (msec)	000
Long Distance Code	For SMDR and COS purposes, five (5) Long Distance codes of up to two (2) digits each can be assigned. If dialed as the 1st digits, the call is considered an LD call.	5 two digit LD codes,use * as wild card(any digit)	
SMDR CLI or Ring Service I	For incoming calls, the system will send the defined data item for "Field I". The data item may be CLI, CPN or Ring Service Time. Note the User dialed number is always provided for an outgoing call.	RING/ CLI/ CPN	RING
SMDR Ring/CLI/CPN Service II	For incoming calls, the system will send the defined data item for "Field II". The data item may be CLI, CPN or Ring Service Time.	RING/ CLI/ CPN	CPN
MSN PRINT ON SMDR	Print MSN number Information in SMDR Record.	OFF ON	OFF

Table 4.4.5.17-1 SMDR ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Print Serial No	Print record number as part of SMDR output, will reset to 1 when SMDR capacity is reached or SMDR Mail Auto Delete Set above is enabled.	OFF ON	OFF
SMDR Interface Service	When enabled, the system stores SMDR data to send to applications including NMS upon request.	OFF ON	OFF
SMDR ICM Save	When enabled, intercom call data is stored as part of the SMDR data.	OFF ON	OFF
SMDR ICM Print	When enabled, intercom call data is printed as part of the On- line SMDR.	OFF ON	OFF
SMDR Disconnect Cause	When enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.	OFF ON	OFF
Long time call	To monitor long duration external calls, a "Long Time Call" can be set. If CO call duration exceeds this value, a notification will be sent to NMS server and alarm. If set to "000" the feature is disabled.	000 ~ 144	000
Print SMDR from any CO to NET call	When a CO call is transferred to a Net transit-out CO, the local SMDR record is deleted.	OFF ON	OFF
Transfer Call Charge Rate	<ul> <li>When a call is transferred by a station, the SMDR record can be charged based on the following options.</li> <li>1. INDIVIDUAL: When a call is transferred to another station, the transferred call is charged both stations based on the time on the call.</li> <li>2. INTEGRATE XFERING: When a call is transferred to another station, the call is charged to the transferring station.</li> <li>3. INTEGRATE XFERED: When a call is transferred to another station, the call is charged to the station receiving the transfer.</li> </ul>	Individual/ Integrate Xfering/ Integrate Xfered	Individual Station
Attendant Transfer Charge Rate	<ul> <li>When a call is transferred by a station, the SMDR record can be charged based on the following options.</li> <li>1. INDIVIDUAL: When the Attendant places an outgoing call and transfer the call to a station, the Transfer Call Charge Rate above.</li> <li>2. ATD CHARGING: When Attendant places an outgoing call and transfers this call to a station, the call is charged to the Attendant.</li> <li>3. XFERED CHARGING: When the Attendant places an outgoing call is charged to the receiving station.</li> </ul>	Individual/ Atd charging/ Xfered charging	Individual charging
International Access Code	It is used to distinguish international call for SMDR.	Max. 4 digits	
Mobile Access Code	It is used to distinguish mobile call for SMDR.	Max. 4 digits	
VSF Voicemail indication	Calls to the Voice Mail may be shown as I (Incoming call) or V(New indication) for Voice Mail in the SMDR record.	I(Incoming call)/ V(New indication)	l(Incoming call)
Display Nxxxx for Net number	Display 'N' in SMDR to distinguish and it is network call.	OFF/ ON	OFF

Table 4.4.5.17-1 SMDR ATTRIBUTES

# 4.4.5.18 System Date & Time - PGM 178

Selecting System Date & Time will display the System Date & Time and DST data entry page, Figure 4.4.5.18-1.

<b>5</b>	Administratio	on l	Maintenar	ice	
tem Data 🗸 🍝	Favorite PGM	System D	ate & Tim	e(178)	×
System Attributes(160~161)					C
System Password(162)					
Alarm Attributes(163)	Attribute		Value		Range
Attendant Assignment(164)		e & Date (D			Kange
Multicast RTP/RTCP(165)		Hour	18		00-23
DISA COS(166) DID/DISA Destination(167)	Time	Minute	01		00-59
External Control Contacts(168)		Month	07		01-12
LCD Display Mode(169)	Date	Day	30		01-31
LED Flashing Rate(170)		Year	13		00-99
Music Sources(171)		Daylight Sa			
PBX Access Codes(172)	DST Mode	OFF 🗸			
RLP Priority(173)		Month	03		01-12
RS-232 Port Settings(174)	DOT OUNT		Second	*	-th
Serial Port Selections(175)	DST Start Time	Weekday	Sunday	~	•
Break / Make Ratio(176)		Hour	02		00-23
SMDR Attributes(177)		Month	11	1	01-12
System Date & Time(178)	DOT Faul Time		First	*	-th
System Multi Language(179)	DST End Time	Weekday	Sunday	~	
System Timers(180~182,186)		Hour	02		00-23
In Room Indication(183)				_	
Web Access Authorization					
Station Web Authorization					
NTP Attributes(195)					
SNMP Attribute(196)					
Hot Desk Attributes(250)					
System Call Routing(251)					
CO Call Rerouting(252)					

Figure 4.4.5.18-1 System Date & Time

The System Date and Time are established by the [Time & Date] menu. The date and time are employed for several features and functions including; LCR, LCD displays, SMDR outputs, Auto Ring mode Selection, Wake-up Alarm, etc.

If Daylight Savings Time is enabled the system time will be adjust one-hour forward and back at the DST start and end times, respectively.

# 4.4.5.19 System Multi Language - PGM 179

Selecting System Multi Language will display the System Multi Language data entry page, Figure 4.4.5.19-1.

PECS Is eMG80		Adm	inistration	Maintenance			Change Language Log
ystem Data 🗸 🗸 🗸	^				×		
System Attributes(160~161)		Favorite	PGM System	n Multi Languag	e(179) ×		
System Password(162)		Enter Dev	ice/GW Slot Sequ	ence Number (1	- 262) ·	Load	
Alarm Attributes(163)		Linter Dev	ice/Orr blot bega		- 202) .	Load	S
Attendant Assignment(164)		Device/Ga	ateway Sequence(	(Slot) Number 1	6		
Multicast RTP/RTCP(165)		Index	Attrib	ute	Value		
DISA COS(166)		1	U.S Prompt		OFF 🔽		
DID/DISA Destination(167)		2	KOREA Prompt		OFF 🔽		
External Control Contacts(168)		3	TURKIYE Prom	ot	OFF 🔽		
LCD Display Mode(169)		4	RUSSIA Prompt		OFF 🔽		
LED Flashing Rate(170)		5	AUSTRALIA Pro	mpt	OFF 🔽		
Music Sources(171)		6	GERMANY Pron	npt	OFF 🔽		
PBX Access Codes(172)							
RLP Priority(173)							
RS-232 Port Settings(174)							
Serial Port Selections(175)							
Break / Make Ratio(176)							
SMDR Attributes(177)							
System Date & Time(178)							
System Multi Language(179)							
System Timers(180~182,186)							
In Room Indication(183)							

Figure 4.4.5.19-1 System Multi-Language

The VMIU and VMIB support multiple languages; up to six languages may be supported simultaneously. Once the prompts are downloaded to the VMIU and VMIB, the caller receives the Language selection announcement for DISA and CCR calls as well as preceding a Hunt Group announcement or DID error announcement. The language selection announcement will only affect the language prompts enabled for use.

### 4.4.5.20 System Timers - PGMS 180 ~ 182 & 186

Selecting System Timers will display the System Timers data entry page, Figure 4.4.5.20-1.

PECS eMG80	Adm	inistration Maintenance			Change L	anguage 🛛 Log O
System Data v	<u> </u>		~			
System Attributes(160~161)	Favorite	PGM System Timers(180~182,186)	×			
System Password(162)						
Alarm Attributes(163)						Save
Attendant Assignment(164)	Order <u>⊥</u> ª	timer <u>⊥</u> ª	v	alue	Range	
Multicast RTP/RTCP(165)	1	Attendant Recall Timer	1	(*1min)	00-60	
DISA COS(166)	2	Call Park Recall Timer	120	(*1 sec)	000-600	
DID/DISA Destination(167)	3	Camp-on Recall Timer	30	(*1 sec)	000-600	
External Control Contacts(168)	4	Exclusive Hold Recall Timer	60	(*1sec)	000-600	
LCD Display Mode(169)	5	I-Hold Recall Timer	30	(*1 sec)	000-600	
LED Flashing Rate(170)	6	System Hold Recall Timer	30	(*1sec)	000-600	
Music Sources(171)	7	Transfer Recall Timer	30	(*1sec)	000-600	
PBX Access Codes(172)	8	ACNR Delay Timer	30	(*1sec)	000-300	
RLP Priority(173)	9	ACNR Pause Timer	30	(*1sec)	000-300	
RS-232 Port Settings(174)	10	ACNR Retry Counter	3		01-13	
Serial Port Selections(175)	11	ACNR Tone Detect Timer	30	(*1sec)	001-300	
Break / Make Ratio(176)	12	Automatic CO Release Timer	30	(*1sec)	000-300	
SMDR Attributes(177)	= 13	CCR Inter Digit Timer	30	(*100ms)	000-300	
System Date & Time(178)	14	Call Restrict Timer		PGM123-F2		
System Multi Language(179)	15	CO Dial Delay Timer	5	(*100ms)	00-99	
> System Timers(180~182,186)	16	CO Release Guard Timer	20	(*100ms)	010-150	
In Room Indication(183)	17	CO Ring Off Timer	60	(*100ms)	001-150	
Web Access Authorization	18	CO Ring On Timer	2	(*100ms)	1-9	
Station Web Authorization	19	Elapsed Call Timer	180	(*1sec)	005-900	
NTP Attributes(195)	20	Web Password Guard Timer	5	(*1min)	001-999	
SNMP Attribute(196)	21	Call Forward No Answer Timer	15	(*1sec)	000-600	
Hot Desk Attributes(250)	22	DID/DISA No Answer Timer	0	(*1sec)	000-255	
System Call Routing(251)	23	VSF User Maximum Record Timer	60	(*1sec)	000-999	
CO Call Rerouting(252)	23	VSF Valid User Message Timer	4	(*1sec)	0-9	
VM COS Attributes(253)	24	Door Open Timer	4	(*100ms)		
Static Route Table(254)	25	ICM Dial Tone Timer	10	(*1sec)	00-99	
Access Control List(255)	20	Inter Digit Timer	5	(*1sec) (*1sec)	01-20	
System Speed Dial	27	-	0		00-60	
Custom Messages		MSG Wait Reminder Tone Timer		(*1min)		
PPTP Attributes	29	Paging Timeout Timer	15	(*1 sec)	000-255	
	30	Pause Timer	3	(*1sec)	1-9	
Station Group Data	31	Soft Auto RLS Timer	10	(*1sec)	01-30	
ISDN Line Data	32	VM Pause Timer	30	(*1sec)	01-90	
IODIA Ellio Data	33	SLT Hook Switch Bounce Timer	1	(*100ms)	01-25	

Figure 4.4.5.20-1 System Timers

A number of timers can be assigned to control and affect many features and functions. Refer to Table 4.4.5.20-1 for a description of the timers and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Attendant Recall Timer	Determines the amount of time the Attendant receives recall after which the system will disconnect the call.	00~60 (minutes)	01
Call Park Recall Timer	Determines the amount of time before a parked call will recall the station that parked the call.	000~600 (seconds)	120
Camp-on Recall Timer	When a call is transferred using Camp-On, this entry determines the amount of time before the station that transferred the call receives recall.	000~600 (seconds)	030
Exclusive Hold Recall Timer	Determines the amount of time before a call placed on exclusive hold will recall the station	000~600 (seconds)	060
Hold Recall Timer	Determines the amount of time a call that is recalling the station will recall before also recalling the Attendant.	000~600 (seconds)	030
System Hold Recall Timer	Determines the amount of time before a call placed on system hold will recall the station.	000~600 (seconds)	030
Transfer Recall Timer	Determines the amount of time a transferred call will ring at the receiving station before recalling the station that transferred the call.	000~600 (seconds)	030
ACNR Delay Timer	If the ACNR Pause Timer expires and no CO/IP Line is available for ACNR recall, this timer sets the delay before ACNR attempts to access a CO/IP line again. The ACNR retry counter is not decremented by this action.	000~300 (seconds)	030
ACNR Pause Timer	This timer establishes the time between ACNR recall attempts.	000~300 (seconds)	030
ACNR Retry Counter	This counter sets the number of recall attempts for ACNR before ACNR is abandoned, for CIS: 1~9.	1~13	03
ACNR Tone Detect Timer	If call progress tones are not available for ACNR, the system will wait this duration after dialing before considering the called party as "busy/no answer".	000~300 (seconds)	30
Automatic CO Release Timer	If a user accesses a CO/IP Line and takes no action, the system will automatically release the CO/IP Line when this timer expires.	000~300 (seconds)	030
CCR Inter-digit Timer	Inter-digit timer used with Customer Call Routing function.	000~300 (seconds)	030
Call Restrict Timer	Not used, moved to PGM 180-BTN14 and will find the default 'check PGM 123-F2'.	00~99 (minutes)	Check PGM123- F2
CO Dial Delay Timer	Delay for through connection to prevent illegal dialing when the CO/PBX has slow response.	00~99 (minutes)	05
CO Release Guard Timer	When a CO/IP Line is returned to idle, the system will deny access for this time to assure the PSTN returns the CO/IP Line circuitry to idle.	000~150 (seconds)	020
CO Ring Off Timer	This timer sets the maximum 'OFF' duration of the incoming ring cycle for the Ring Detect circuitry of the system to detect an abandoned call.	000~150 (seconds)	060
CO Ring ON Timer	This timer sets the 'ON' time of the incoming ring cycle for the Ring Detect circuitry of the system to recognize an incoming call.	1~9 (100 msec)	2
Elapsed Call Timer	Users can receive a periodic tone indicating the length of an outgoing call. This timer sets the time before and between the tones. Note CO Warning Tone must be	005~900 (seconds)	180

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	enabled for the station in Station Data, section 4.4.2.		
Web Password Guard Timer	If no data packet is received during a Web connection, after the guard time a password check will be initiated by the system.	001~999 (minutes)	5
Call Forward No Answer Timer	When a user activates No-Answer Forward, calls will ring for this duration before being forward. The Station No-Answer Forward timer section 4.4.2.12 will take precedence.	000~600 (seconds)	15
DID/DISA No Answer Timer	A DID/DISA call to a busy station will forward to the DID/DISA Destination assigned under section 4.4.5.7 should this timer expires.	000~255 (seconds)	00
VSF User Maximum Record Timer	This timer sets the maximum duration allowed for the User Greeting in the system's VSF.	000~999 (seconds)	60
VSF Valid User Message Timer	This timer sets the minimum duration allowed for a User Greeting.	0~9 (seconds)	4
Door Open Timer	This timer sets the minimum time required to activate the contact assigned as a door open contact.	00~99 (100 msec)	20
ICM Dial Tone Timer	If a user goes off-hook to receive Intercom dial tone and takes no action for this timer, the user will receive error tone.	01~20 (seconds)	10
Inter Digit Timer	This timer sets the maximum time allowed between each user-dialed digit. At expiration, the user will receive error-tone.	01~20 (seconds)	5
MSG Wait Reminder Tone Timer	An iPECS IP or LDP Phone user will receive periodic reminder tones of a message waiting at intervals of this timer.	00~60 (minutes)	00
Paging Timeout Timer	Determines the maximum duration of a page after which the caller and Page Zone are released.	000~255 (seconds)	15
Pause Timer	A Timed pause of this duration is used in speed dial and during other automatically dialed digits sent to the PSTN.	1~9 (seconds)	3
Soft auto RLS Timer	When a Soft Key is used on the 6000 or 7000 series iPECS IP or LDP Phone, after expiration of this timer, the display will return to the previous display.	1-30	10
VM Pause Timer	When the system sends a "Pause" to Voice Mail using in-band signals, this timer defines the Pause duration. (Not available in the USA.)	1-90	30
SLT Hook Switch Bounce Timer	This timer determines the duration the system considers an actual state change in the hook-switch and not a spurious contact bounce.	01~25 (100 msec.)	1
SLT Maximum Hook Switch Flash Timer	This timer sets the maximum time an SLT user can depress the hook-switch for a Flash signal.	01~25 (100 msec.)	10
SLT Minimum Hook Flash Timer	This time sets the minimum time an SLT user must depress the hook-switch for a Flash signal.	000~250 (10 msec.)	30
Station Auto Release Timer	For an internal call, the system will return a station to idle if the call remains unanswered for this duration.	000~300 (seconds)	60
Unsupervised Conference Timer	This timer determines the duration of an "Unsupervised Conference" before the station is recalled or the conference is dropped.	00~99 (minutes)	10

Table 4.4.5.20-1 SYSTEM TIMERS

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Prime Line Delay Timer	This timer sets the delay (no action duration) for delayed (Warm) Prime Line operation.	01~20 (seconds)	5
Wink Signal Timer	This timer sets the duration of the "Seize Acknowledge Signal" (Wink) sent to the PSTN on a DID line.	010~200 (10 msec.)	10
En-block Inter Digit Timer	When an ISDN Line is assigned to send digits En-block, CO Attribute section 4.4.4.1, the system will send digits if the user dials "#" or this En-block inter-digit timer expires.	01~20 (seconds)	5
DTMF Duration Timer	This timer establishes the duration of DTMF tones sent on an analog CO line.	04~99 (10 msec.)	10
Flex DID Timer	The system will receive DID digits for this timer. After the timer expires, the system will use the last 2 to 4 digits received as DID digits.	01~99 (100 msec)	30
R2 Out Manage Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 In Manage Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 Disappear Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 Pulse Timer	Reserved for future usage for R2 timers.	01~30 (*20ms)	7
R2 Ready Timer	Reserved for future usage for R2 timers.	000~500 (*200ms)	7
Dial Tone Delay Timer	Reserved for future usage for R2 timers.	01~30 (*20ms)	20
Wake Up Fail Timer	Provide wake up fail indication to Attendant according to this timer.	00~99	20
VSF Cut Error Tone Timer	This timer determines the minimum voice message length to reduce the number of messages with dial- tone.	00~90 (seconds)	0
On Hook Auto Idle Timer	When an iPECS IP or LDP Phone receives a disconnect message or signal from CO line the phones goes to idle after this timer.	00~99 (seconds)	0
IP Watch Timer	To protect dual active in case of CPU redundancy and alarm IP conflict.	0~250 (1 sec.)	Not Used
Prepaid Call Drop Warning Timer	Prove warning tone when run out of prepaid money if this timer is not zero.	00-99	0
Emergency retry timer	System try to make emergency call according to the CO access rule/Prefer CO/CO group if system could not seize predefined emergency Co line within this timer.	00~99 (seconds)	0
Record Warning Repeat Timer	If record warning tone is set and this timer is set greater than 1, it works periodically when it's recorded.	000~999 (seconds)	0
Error Tone Timer	Error Tone Timer.	5~180 (seconds)	30
Howling Tone Timer	Howling Tone Timer.	0~180 (seconds)	30
VM Notify Play Delay Over LCO Timer	When VM notification to the mobile uses an analog loop start Line, system will treat the call as the answered after this timer and play the new message prompt.	1~99 (1 sec.)	10

Table 4.4.5.20-1 SYSTEM TIMERS

## 4.4.5.21 In-Room Indication - PGM 183

Selecting In-Room indication will display the In Room data entry page, Figure 4.4.5.21-1.

	Administration	Maintenance	Change Languag
rstem Data 🗸 🗸 🗸			
System Attributes(160~161)	Favorite PGM In R	toom Indication(183) X	
System Password(162) Alarm Attributes(163)	Enter In Room Number	(1 - 10) : Load	
Attendant Assignment(164)	In Room Number1		
Multicast RTP/RTCP(165)	Index	Station Number	
DISA COS(166)	Supervisor		
DID/DISA Destination(167)	Member 1		
External Control Contacts(168)	Member 2		
_CD Display Mode(169)	Member 3		
LED Flashing Rate(170)	Member 4		
Music Sources(171)	Member 5		
PBX Access Codes(172)	Member 6	;	
RLP Priority(173)	Member 7	;	
RS-232 Port Settings(174)	Member 8	;	
Serial Port Selections(175)	Member 9		
Break / Make Ratio(176)	Member 10		
SMDR Attributes(177)	Member 11		
System Date & Time(178)	Member 12		
System Multi Language(179)	Member 13		
System Timers(180~182,186)	Member 14		
In Room Indication(183)	Member 15		
Web Access Authorization	Member 16		
Station Web Authorization	Member 17		
NTP Attributes(195)	Member 18		
SNMP Attribute(196)	Member 19		
Hot Desk Attributes(250)	Member 20		
System Call Routing(251)			
CO Call Rerouting(252)			
VM COS Attributes(253)			
Static Route Table(254)	_		

### Figure 4.4.5.21-1 In-Room Indication

The Supervisor Station can set the In-Room Indication for all members in the In-Room indication group. Up to 10 Supervisors (groups) can be configured can be programmed, and each can have up to 20 members in the group, excluding the Supervisor.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Supervisor	Assign number of hot desk agent.		
Member 01~20	This entry assigns stations as members		

### 4.4.5.22 Web Access Authorization

Selecting Web Access Authorization will display the Web Access Authorization data entry page, Figure 4.4.5.22-1. This page is only displayed when a password is defined.

System Data 🛛 🗸 🗸	Favorite PGM Web Access Author	orization ×			
System Attributes(160~161)		C			
System Password(162)				Save	
Alarm Attributes(163)					
Attendant Assignment(164)	PGM	User	Admin		
Multicast RTP/RTCP(165)	System ID & Numbering Plans	Uncheck All	Uncheck All		
DISA COS(166)	System ID(100)	Visible	Visible	~	
DID/DISA Destination(167)	Device Port Num Change(101)	Visible	Visible	≡	
External Control Contacts(168)	System&Device IP(102~103)	Visible	Visible	*	
LCD Display Mode(169)	CO Device Sequence Number(104)	Visible	Visible		
LED Flashing Rate(170)	Flexible Station Number(105)	Visible	Visible		
Music Sources(171)	Flexible Numbering Plan(106~109)	Visible	Visible		
PBX Access Codes(172)	8 Digit Table(238) Station Data	Visible	Visible		
RLP Priority(173)		Uncheck All	Uncheck All		
RS-232 Port Settings(174)	Station Type(110)	Visible	Visible		
Serial Port Selections(175)	Common Attributes(111)	Visible	Visible		
Break / Make Ratio(176)	Terminal Attributes(112)	Visible	Visible		
SMDR Attributes(177)	CLI Attributes(113)	Visible	Visible		
System Date & Time(178)	Flex Buttons(115/129)	Visible	Visible		
System Multi Language(179)	Station COS(116) CO/IP Group Access(117)	Visible	Visible		
System Timers(180~182,186)		Visible	Visible		
In Room Indication(183)	Internal Page Zone(118)	Visible	Visible		
Web Access Authorization	Ptt Group Access(119)	Visible	Visible		
Station Web Authorization	Preset Call Forward(120)	Visible	Visible		
NTP Attributes(195)	Idle Line Selection(121) Station IP Attribute(122)	Visible	Visible		
SNMP Attribute(196)	Station Timer(123)	Visible	Visible		
Hot Desk Attributes(250)	Linked Station(124)	Visible	Visible		
System Call Routing(251)	Station ICM Group(125)	Visible	Visible		
CO Call Rerouting(252)	VM Attributes(127)	Visible	Visible		
VM COS Attributes(253)	Station Personal CCR(128)	Visible	Visible Visible		
Static Route Table(254)	Station Name Display	Visible	Visible		
Access Control List(255)	Station Data Copy	Visible	Visible		
System Speed Dial	Station CTI IP Address	Visible	Visible		
Custom Messages	Board Based Data				
PPTP Attributes	H.323 VoIP Attributes(130)	Uncheck All	Uncheck All		
	T1/E1/PRI Attributes(131)	Visible	Visible		
tation Group Data	Board Base Attributes(132)	Visible	Visible		
3DN Line Data	CO Line Data	Uncheck All	Uncheck All		
	Common Attributes(140)	Visible	Visible		

Figure 4.4.5.22-1 Web Access Authorization

Three different passwords can be assigned for the access to the iPECS Web administration so that the different levels of access to the program fields can be allowed. Two levels, the User and Admin level, have access to the assigned fields. The Maintenance password has access all the programming fields and the maintenance fields including trace settings, device log view, gain & cadence control, lock key install and device delete feature. In addition, the Maintenance level user can assign the authorities of the other user levels.

In the Maintenance menu the Database, SMDR, and Voice Mail Delete fields can be chosen by User level or Admin Level.

### 4.4.5.23 Station Web Access Authorization

Selecting Station Web Authorization will display the Web authorization data entry page, Figure 4.4.5.23-1.

PECS CS eMG80	Administration Maint	enance		Change La	anguage 🛛 Log Ot
System Data 🗸 🗸		therization ×			
System Attributes(160~161)	Favorite PGM Station Web Au	C			
System Password(162)					Save
Alarm Attributes(163)					Jave
Attendant Assignment(164)	PGM	Level 2	Level 3	Remark	
Multicast RTP/RTCP(165)	Station Program	Uncheck All	Uncheck All		
DISA COS(166)	Station Attributes	Visible	Visible		
DID/DISA Destination(167)	Station Call Forward	Visible	Visible		
External Control Contacts(168)	Preset Call Forward	Visible	Visible		
LCD Display Mode(169)	Station ICR Scenario	Visible	Visible		
LED Flashing Rate(170)	Station Speed Dial	Visible 🗸	Visible		
Music Sources(171)	Pre Select Message	Visible 🗸	Visible		
PBX Access Codes(172)	Flex Buttons	Visible 🗸	Visible		
RLP Priority(173)	Send Internal SMS	Visible	Visible		
RS-232 Port Settings(174)	Send External SMS	Visible	Visible		
Serial Port Selections(175)	Station Conference Group	Visible	Visible		
Break / Make Ratio(176)	System Conference Group	Visible	Visible		
SMDR Attributes(177)	SET 5 Wake Up Alarm	Visible	Visible		
System Date & Time(178)	Mobile Extension Table	Visible	Visible	Attendant Only	
System Multi Language(179)	Attendant Ring Mode	Visible	Visible	Attendant Only	
System Timers(180~182,186)	Attendant Wake Up Alarm	Visible	Visible 🗸		
In Room Indication(183)	Call Back	Visible	Visible		
Web Access Authorization	ACD Call Traffic	Visible	Visible	ACD Supervisor Only	
Station Web Authorization	Station Attributes	Uncheck All	Uncheck All		
NTP Attributes(195)	DND	Visible	Visible		
SNMP Attribute(196)	ICM Signaling Mode	Visible	Visible		
Hot Desk Attributes(250)	Call Coverage Mode	Visible	Visible		
System Call Routing(251)	Delay Ring Cycle	Visible	Visible		
CO Call Rerouting(252)	Ear-Mic Headset	Visible	Visible		
VM COS Attributes(253)	Authorization Code	Visible	Visible		
Static Route Table(254)	DID Call Wait	Visible	Visible 🗸		
Access Control List(255)	Choice Exec/Sec Message	Visible Visible	Visible		
System Speed Dial	Wake up Time	Visible	Visible		
Custom Messages	Attendant Wake up Time	Visible	Visible	Attendant Only	
PPTP Attributes	Headset or Speaker Mode	Visible	Visible		
TTTT Autoutes	Headset Ring Mode	Visible	Visible		
		🗸 Visible	🗸 Visible		
Station Group Data	User Name Registration				
Station Group Data	User Name Registration BGM Station Ring Type	Visible	Visible		

Figure 4.4.5.23-1 Station Web Access Authorization

Three access levels can be assigned to each station for access to the Station Web pages in PGM 113. Level 1 has access to all Station pages and attributes. The pages and attributes for Levels 2 and 3 are programmable.

### 4.4.5.24 NTP Attributes - PGM 195

Selecting NTP Attributes will display the System NTP Attributes entry page, Figure 4.4.5.24-1.

iPECS iPECS eMG80		Administration Main	tenance	Ch	ange Language 🛛 Log Out
System Data 🗸 🗸	^				
System Attributes(160~161)		Favorite PGM NTP Attributes	(195) ×		
System Password(162)					Save Client & Server Attributes
Alarm Attributes(163)					Apply Server Attributes
Attendant Assignment(164)			NTP Client Attribut	tes	
Multicast RTP/RTCP(165)		Netwrok Time/Data	Disable 🔽		
DISA COS(166)		NTP Primary Server Address			
DID/DISA Destination(167)		NTP Secondary Server Address			
External Control Contacts(168)		Standard Time Zone	(GMT+09:00)Seoul		~
LCD Display Mode(169)			NTP Server Attribut	tes	
LED Flashing Rate(170)		NTP Server Service	Enable 🗸		
Music Sources(171)		DDoS Protector	Disable 🗸		
PBX Access Codes(172)					
RLP Priority(173)					
RS-232 Port Settings(174)					
Serial Port Selections(175)					
Break / Make Ratio(176)					
SMDR Attributes(177)					
System Date & Time(178)					
System Multi Language(179)					
System Timers(180~182,186)					
In Room Indication(183)					
Web Access Authorization					
Station Web Authorization					
NTP Attributes(195)					
SNMP Attribute(196)					

Figure 4.4.5.24-1 NTP Attributes

The system can employ the Network Time Protocol (NTP) to synchronize the system time with an NTP time server. The system requests the time from the NTP server at 10-minute intervals and then determines the time differential. If the system time is more 2 seconds off the NTP time, the system time is adjusted to synchronize with the NTP server time.

### 4.4.5.25 SNMP Attribute - PGM 196

Selecting SNMP Attribute will display the SNMP Attributes entry page, Figure 4.4.5.25-1. (It will be supported in version 2)

PECS PECS eMG80	Administration Maintena	nce	Change Lang	juage 🛛 Log Ou
System Data V		x X		
System Attributes(160~161)	Favorite PGM SNMP Attribute(19)	6) <del></del>		
System Password(162)				Save
Alarm Attributes(163)				Dave
Attendant Assignment(164)	SNMP Agent			
Multicast RTP/RTCP(165)	SNMP Service OFF 🗸			
DISA COS(166)	SNMP MIB Type iPECS-N	IMS 🐱		
DID/DISA Destination(167)	SNMP Port 161			
External Control Contacts(168)				
LCD Display Mode(169)	SNMP S	ecurity		
LED Flashing Rate(170)	Read Only Community : public			
Music Sources(171)	Read Write Community : private			
PBX Access Codes(172)	Accept SNMP Packet from Any NM			
RLP Priority(173)	Accept SNMP Packet from These			
RS-232 Port Settings(174)		Read Only N		
Serial Port Selections(175)	0	Read Only Read Only		
Break / Make Ratio(176)		Read Only Read Only		
SMDR Attributes(177)		(todd offi)		
System Date & Time(178)		SNMP Trap		
System Multi Language(179)	Trap Community : public			
System Timers(180~182,186)			162	Notification
In Room Indication(183)	Тгар		162	Notification
Web Access Authorization	Destinations		162	Notification
Station Web Authorization			162	Notification
NTP Attributes(195)				
SNMP Attribute(196)				
Hot Desk Attributes(250)				
System Call Routing(251)				
CO Call Rerouting(252)				
oo oan Nerodung(252)				

Figure 4.4.5.25-1 SNMP Attribute

SNMP Attributes, as shown on the screen, are divided into three categories: SNMP Agent, SNMP Security, and SNMP Trap. The SNMP Service field enables the SNMP agent running in the iPECS call server. The SNMP port field defines the UDP port used for communications from the iPECS eMG80 for SNMP messages. This port should not be changed.

In SNMP Security are the Read Only and Read Write SNMP Community fields, 4 to 16 characters. The SNMP community designates an SNMP communication group to which an SNMP message belongs, and is a logical relationship between the SNMP agent (iPECS eMG80) and SNMP manager (iPECS NMS). The SNMP community settings must be the same for the iPECS eMG80 and the iPECS NMS server.

- Read Only Community (default=Public)—Defines a community string used when the iPECS NMS reads data from the iPECS eMG80.
- Read Write Community (default=Private)—Defines the community string used when iPECS NMS reads or writes data to the iPECS eMG80.

Although the iPECS eMG80 can accept packets from any SNMP manger such as iPECS NMS, for improved security, the IP address of specific servers can be defined and allowed Read only or Read Write access. It is recommended that the system be assigned with the IP address of a specific NMS server with Read Write access.

The SNMP Trap configuration defines the Trap Community, and the Trap Destination, which includes the IP Address of the SNMP manager, iPECS NMS, and the .message type. The Trap Community designates a communication group to which a Trap message belongs, and is a logical relationship between the SNMP agent (iPECS eMG80) and SNMP manager (iPECS NMS). This 4 to 16 character string should be the same as the Trap community string defined in the iPECS NMS. The Trap community should be the same for all the iPECS eMG80 systems registered to an iPECS NMS server whereas the SNMP community may be defined with different strings for each iPECS eMG80.

The Trap Destination defines the IP address of the iPECS NMS server and the port, 162. Enter the IP address of the NMS server but, the port should not be changed. The pull down menu next to the address is used to define the message type. Three values are available:

- Trap message type is defined in SNMPv1, but because iPECS-NMS and the iPECS eMG80 use SNMPV2, the Trap type message is not recommended.
- Notification message type sent from the SNMP agent once without checking the reception of the message.
- Inform message type requires an acknowledgement from the SNMP manager. If the agent does not receive a response, the message is resent. Inform messages are intended for use in environments with high packet loss however, use of the Inform message type may detrimentally affect the iPECS eMG80 performance.

The iPECS SNMP attributes are defined here. Refer to Table 4.4.5.25-1 for description and values that can be entered.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SNMP service	SNMP Service field is used to set the SNMP agent in the iPECS ON or OFF.	OFF ON	OFF
SNMP MIB Type	Select SNMP MIB specification. U-CEMS is KOREA telecom speciation.	iPECS-NMS/ U-CEMS	iPECS-NMS
SNMP Port	SNMP Protocol port number.		161
Read Only Community	Read only community should be used when SNMP manager (NMS) is trying to read data from SNMP agent (eMG80)	4 ~ 16 characters	public
Read Write Community	When the SNMP manager (NMS) needs to read and write data to the agent (iPECS eMG80). This attribute should be enabled.	4 ~ 16 characters	private
Trap Community	For the SNMP agent (eMG80), this field defines the destination IP address to receive trapped messages (Alarm/fault events).	4 ~ 16 characters	public
Trap Destination	IP address of iPECS NMS server, port 162 should not be changed.	IP address	Public
Message Type	Defines how the agent sends the Message.	Notification/ Inform/ Trap	Notification

#### Table 4.4.5.25-1 SNMP ATTRIBUTES

### 4.4.5.26 Hot Desk Attributes - PGM 250

Selecting Hot Desk Attributes will display the Hot Desk Attributes data entry page, Figure 4.4.5.26-1.

PECS S eMG80	Administratio	n Maintenand	e	Change Language
stem Data V	Favorite PGM	Hot Desk Attributes(2	x	
System Attributes(160~161)	Favorite FOW	HOLDESK ALLIDULES(2	250) ×	
System Password(162)				
Alarm Attributes(163)				
Attendant Assignment(164)	Attribute		Range	
fulticast RTP/RTCP(165)	Number of Agent	0	0-140	
DISA COS(166)	View Agent Rang			
DID/DISA Destination(167)	Auto Logout Time	er O	00-24	
External Control Contacts(168)				
.CD Display Mode(169)				
ED Flashing Rate(170)				
usic Sources(171)				
BX Access Codes(172)				
LP Priority(173)				
S-232 Port Settings(174)				
ial Port Selections(175)				
k / Make Ratio(176)				
R Attributes(177)				
stem Date & Time(178)				
tem Multi Language(179)				
stem Timers(180~182,186)				
Room Indication(183)				
b Access Authorization				
ion Web Authorization				
° Attributes(195)				
IMP Attribute(196)				
t Desk Attributes(250)				
ystem Call Routing(251)				

Figure 4.4.5.26-1 Hot Desk Attributes

A Hot Desk station allows a user to login for access to the system features and resources. Once logged in, the user is provided access to system features and resources employing the database for the user's assigned station.

User station numbers are assigned automatically by the system. The system assigns station numbers to each agent starting at the highest station number.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Number of Agent	Assign number of hot desk agent.	0-140	0
View Agent Range	View the assigned station numbers for agents.		N/A
Auto Logout Timer	A Hot desk station will return to inactive if the logged in user takes no action for the Auto Logout timer.	00~24 Hrs.	00

#### Table 4.4.5.26-1 HOT DESK ATTRIBUTES

### 4.4.5.27 System Call Routing - PGM 251

Selecting System Call Routing will display the System Call Routing data entry page, Figure 4.4.5.27-1. Enter a valid Index range and click **[Load]** to enter Call Routing data.

iPECS iPECS eMG80		Administration	Maintenance							Char	ige Language	Log Out
System Data 🗸 🔺			sk Attributes (250)	0		×						
System Attributes(160~161) System Password(162) Alarm Attributes(163)	Ente	r Index Range (0 - 159)		System Call Routir	ig(251)	X C D Lo	ad					Save
Attendant Assignment(164)		Range 1-5										
Multicast RTP/RTCP(165)	Del	Attribute Caller ID		Value				Max 23 E	Di ulta	Range		
DISA COS(166)		Called Num	N/A 💌 :						-			
DID/DISA Destination(167)		Called Num						Max 23 E	Digits M-DD format			
External Control Contacts(168) LCD Display Mode(169) LED Flashing Rate(170)		Time Condition	Start Date MON TUE WE Start Time	- End D D THU FRI - End Time		SUN 🗖 A	ALL 🗌 Holiday			aits) 0000-235	9	
Music Sources(171)		Destination	N/A		ST Valu	e			-		·> Dial Tone] in [	DISA active
PBX Access Codes(172)		Scenario Priority		]					iqhest priorit			
RLP Priority(173)		Scenario Active	OFF 💌					Scenario	o Enable/Dis	able		
RS-232 Port Settings(174)		Scenario VMID						vocie ma				
Serial Port Selections(175)		Scenario COS	0					0~11 (C	OS Level)			
Break / Make Ratio(176)		Scenario DISA Active	OFF V	]				DISA En	,			
SMDR Attributes(177)		Scenario ICM Grp	0						/ Group No			
System Date & Time(178)		Scenario ZoneNo	0					Zone Nu				
System Multi Language(179)		Scenario Start CO	0					Start Co				
System Timers(180~182,186)		Scenario End CO	0					End Co				
In Room Indication(183)									lumber (01~	16)		
Web Access Authorization		Scenario Group	0					00 : Unu		,		
Station Web Authorization		Zone Holiday	0					Zone Nu	umber			
NTP Attributes(195)												
SNMP Attribute(196)	Inde	x ≟ª Caller ID Called N	um Time Destination Pr						-	-	ay	
Hot Desk Attributes(250)	1			OFF	0	OFF	0	0	0	0		
> System Call Routing(251)	2			OFF	0	OFF	0	0	0	0		
CO Call Rerouting(252)	4			OFF	0	OFF	0	0	0	0		
VM COS Attributes(253)	5			OFF	0	OFF	0	0	0	0		
Static Route Table(254)	-				5		-		-	-		
Access Control List(255)												

Figure 4.4.5.27-1 System Call Routing

System Call Routing establishes scenarios with criteria to route calls. Criteria include time 0f day, day of week, Caller and Called numbers, etc. System Call Routing takes precedent over other system based call routing. However, Station and CO Call Routing scenarios take precedence over System Call Routing scenarios.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Caller ID	This field defines the Caller Id for the scenario.	Max. 23 Digits	N/A
Called Num	This field defines the Called number for this scenario.	Max. 23 Digits	
Time condition (Start Day and End Day, weeks, start time and end time)	The time and day for activation of the scenario can be defined.	YYYY-MM-DD hhmm (Must be 4 digits)	
Destination (Type and Value)	This field defines the destination type and value for call routing when the scenario criteria are met.	STA Hunt Group SPD PABX/ VSF/ VSF/	N/A

Table 4.4.5.27-1 S	System Call Routin	a Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		Net Station/ Company Directory-	
		Last name/ INT Page/ EXT Page/	
		All Page/ VM/ ICLID Table	
Scenario Priority	Each scenario can be assigned a priority. The highest priority scenario meeting the criteria is used to route the call.	0-9 (Highest priority)	
Scenario Active or Not	A scenario must be active to be employed. If not active the scenario is ignored.	ON OFF	OFF
Scenario VMID	A Voice Mail Id can be associated with the scenario for routing to a Voice Mailbox.	Voice mail ID	
Scenario COS	If DISA is active for the scenario, the COS can be assigned for the call.	0-11 (COS level)	0
Scenario DISA Active	The scenario can employ DISA for the incoming call routing.		OFF
Scenario ICM Group number	The scenario can route calls to a specific Tenancy group.		0
Scenario Zone	A zone can be assigned so that only CO calls to a CO/IP Line in the Zone will route based on the scenario.		0
Scenario Start CO and End CO	This field defines a range of CO/IP Lines that will employ to the scenario.		0
Scenario Group: this is used for scenario group by attendant.	Scenarios can be group allowing the Attendant to select a group of scenarios to route calls.		0
Zone Holiday	A Zone can be assigned for routing calls using the scenario during Holiday periods defined for the Zone.		0

Table 4.4.5.27-1 System Call Routing Attributes

### 4.4.5.28 CO Call Rerouting - PGM 252

Selecting CO Call Rerouting will display the CO Call Rerouting data entry page, Figure 4.4.5.28-1. Enter a valid Index range and click **[Load]** to enter Call Routing data.

PECS CS eMG80	Administration Maintenance	Change Language Log (
Alarm Attributes(163) Attendant Assignment(164) Multicast RTP/RTCP(166)	Analog Attributes(141) X CONP Preset Fwd Attr(147) X Senal Port Selections(175) X System Call Routing(251) C CO Call Rerouting(252) C	
DISA COS(166)	Enter Index Range (D - 165) :	Save
DID/DISA Destination(167)		Date
External Control Contacts(168)	Index Range 1-20	
LCD Display Mode(169)	Enable Co Call Rerouting : ON	
ED Flashing Rate(170)	Initialize CRR :	
Music Sources(171)	Index Compare CO Group Compare Digits CO + Rerouting Number Rerouting Type Alternate Dest CO Group	
PBX Access Codes(172)	1 1 N/A 💌	
LP Priority(173)	2 1 NA 💌	
S-232 Port Settings(174)	3 1 N/A 🗙	
erial Port Selections(175)		
Ireak / Make Ratio(176)		
MDR Attributes(177)	5 1 N/A M	
ystem Date & Time(178)	6 1 N/A 💌	
ystem Multi Language(179)	7 1 N/A 🗹	
ystem Timers(180~182,186)	8 1 N/A 💌	
Room Indication(183)	9 1 N/A 💌	
Veb Access Authorization	10 T	
tation Web Authorization	11 I NA 💌	
ITP Attributes(195)	12 1 N/A 💌	
NMP Attribute(196)	13 1 N/A M	
ot Desk Attributes(250)		
ystem Call Routing(251)	14 1 NA M	
CO Call Rerouting(252)	15 1 N/A M	
M COS Attributes(253)	16 1 N/A M	
itatic Route Table(254)	17 1 N/A 💌	
Access Control List(255)	18 1 N/A 💌	

Figure 4.4.5.28-1 CO Call Rerouting

CO Call Rerouting establishes routing for CO/IP calls with a specified caller id on CO/IP Lines from a specified group. The rerouting sends calls out over another CO/IP Line or group, a network destination, a DISA call or to another station. The incoming CO group and compare digits determine if the call should be rerouted and the destination is determined by the CO code and Telephone number, which is dialed when the incoming group and compare digits are matched. The routing type determines if the call is routed normal (N/A) or if the call is routed over a network or employs DISA.

Index	Incoming CO group	Compare Code	CO Code + Tel number	Routing Type
0	1	454	88005123456	N/A
1	2	456**	8901123456	N/A
2	1	42*555	9123456	N/A
3	5	353	8901123456	NET Туре
4	5	401		DISA Type

**Example CRR chart** 

- Index 0: If an incoming call on a CO/IP Line from group has digits "454" then seize CO 5 and send digit 123456.
- Index 1: If an incoming call on a CO/IP Line from group 2 has digits "456\*\*" then seize CO group 1 and send digit 123456.
- Index 2: If an incoming call on a CO/IP Line from group1 has digits "42\*555" then seize the first CO/IP Line and send digit 123456.
- Index 3; if an incoming call on a CO/IP Line from group 5 has digits "353" then seize CO group 1 and send digit 123456 as a transit-out call over the Network.
- Index 4: If an incoming call on a CO/IP Line from group 5 has digits "401" then activate DISA and await digits from the caller.

### 4.4.5.29 VM COS Attributes - PGM 253

Selecting VM COS Attributes will display the VM COS Attributes data entry page, Figure 4.4.5.29-1. Select a valid VM COS and click **[Load]** to enter VM COS data.

	Ad	dministration Maint	enance		Change Language	Log Ou
ystem Data v	<u>^</u>		×			
System Attributes(160~161)	Favo	rite PGM VM COS Attribu	tes(253) ×			
System Password(162)	Enter V	'M COS Range (1 - 5) :			2 Load	Sav
Alarm Attributes(163)						000
Attendant Assignment(164)	VM CO	S Range 1				
Multicast RTP/RTCP(165)	Order	Attribute	Value	Range		
DISA COS(166)	1	Greeting Length	60	0-99 sec		
DID/DISA Destination(167)	2	Message Length	0	0-600 sec		
external Control Contacts(168)	3	Number of Messages	0	0-250		
.CD Display Mode(169)	4	Retention Time	0	0-99 Day		
ED Flashing Rate(170)	5	E-Mail Notification	Notification and Delete 💌			
fusic Sources(171)	6	Future Delivery Message	OFF 🔽			
'BX Access Codes(172)	7	Confirm Message Receipt	OFF 🗸			
LP Priority(173)	8	Private Message Mark	OFF V			
RS-232 Port Settings(174)		_				
Serial Port Selections(175)						
Break / Make Ratio(176)						
SMDR Attributes(177)						
System Date & Time(178)						
System Multi Language(179)						
System Timers(180~182,186)						
n Room Indication(183)						
Veb Access Authorization						
Station Web Authorization						
ITP Attributes(195)						
NMP Attribute(196)						
lot Desk Attributes(250)						
system Call Routing(251)						
CO Call Rerouting(252)						
/M COS Attributes(253)						
Static Route Table(254)						

Figure 4.4.5.29-1 VM COS Attributes

VM COS establishes various common characteristics of the user's Voice Mailbox including greeting and message length, E-mail notification, message retention, etc.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Greeting Length	This defines maximum user greeting length.	0-99 (Seconds)	60
Message Length	This defines maximum user message recording time.	0-600 (Seconds)	0
Number Of Messages	This defines maximum number of voice mail message.	0-250	0
Retention Time	Voice mail messages will be automatically deleted after this number of days.	0-99 Days	0
E-Mail Notification	E-mail notification can be enabled or disabled and, if enabled, the message can be deleted after notification.	Disable/ Notification Only/ Notification & Delete	Notification & Delete
Future Delivery Message	Future Delivery of messages can be enabled or disabled.	OFF ON	OFF
Confirm Message Receipt	Confirm message receipt can be enabled or disabled.	OFF ON	OFF
Private Message Mark	Private message mark can be enabled or disabled.	OFF ON	OFF

Table 4.4.5.29-1 VM COS ATTRIBUTES
------------------------------------

### 4.4.5.30 Static Route Attributes - PGM 254

Selecting Static route Attributes will display the static route attributes data entry page, Figure 4.4.5.30-1.

PECS ECS eMG80	Ad	ministration Ma	intenance	Change Language Log C
System Data 🗸 🗸 🗸			Toble(254) X	
System Attributes(160~161) System Password(162) Alarm Attributes(163)	Favor	ite PGM Static Route	Table(254) C	8
Attendant Assignment(164)	Index	Feature	Value	
Multicast RTP/RTCP(165)		Net Address		
DISA COS(166)	1	Net Mask		
DID/DISA Destination(167)		Gateway IP Address		
External Control Contacts(168)		Net Address		
LCD Display Mode(169)	2	NetMask		
LED Flashing Rate(170)		Gateway IP Address		
Music Sources(171)		Net Address		
PBX Access Codes(172)	3	Net Mask		
RLP Priority(173)		Gateway IP Address		
RS-232 Port Settings(174)		Net Address		
Serial Port Selections(175)	4	NetMask		
Break / Make Ratio(176)		Gateway IP Address		
SMDR Attributes(177)		Net Address		
System Date & Time(178)	5	NetMask		
System Multi Language(179)		Gateway IP Address		
System Timers(180~182,186)				
In Room Indication(183)				
Web Access Authorization				
Station Web Authorization				
NTP Attributes(195)				
SNMP Attribute(196)				
Hot Desk Attributes(250)				
System Call Routing(251)				
CO Call Rerouting(252)				
VM COS Attributes(253)				
Static Route Table(254)				
Access Control List(255)				
System Speed Dial				

Figure 4.4.5.30-1 Static Route Table Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT						
Net address	Network IP address	IP address							
Net mask	Net mask								
Gateway IP address	Gateway(route) IP address	IP address							

#### Table 4.4.5.30-1 STATIC ROUTE TABLE ATTIBUTES

### 4.4.5.31 Access Control List – PGM 255

Access Control List will display the access control attributes data entry page, Figure 4.4.5.31-1. Enter a valid index range and click **[Load]** to enter ACL data.

PECS PECS eMG80	A	dministratio	n Main	tenance		Change Language Log Out
System Data 🗸 🔺	_			LLiet/255) X		
System Attributes(160~161)	Favo	orite PGM	Access Contro	0 List(255)		
System Password(162)	Enter I	ndex Range	(1 - 250) :			Z Load
Alarm Attributes(163)	Linori	ndoxiitango	(1 2007.			
Attendant Assignment(164)	Deny I	ndex 1-10				
Multicast RTP/RTCP(165)		sage : OFF				
DISA COS(166)		t ACL Action				
DID/DISA Destination(167)	Sort	Apply Sto	p) Clear) Save	Help		
External Control Contacts(168)	Index	Protocol	Port Number	Port Type	Source IP Address	Remark
LCD Display Mode(169)	1	N/A 💌	-	<b>v</b>	1	
LED Flashing Rate(170)						
Music Sources(171)	2	N/A 🔽	-	· · ·	/	
PBX Access Codes(172)						
RLP Priority(173)	3	N/A 💌	-	~	/	
RS-232 Port Settings(174)						
Serial Port Selections(175)	4	N/A 💌		<b>~</b>		
Break / Make Ratio(176)						
SMDR Attributes(177)	5	N/A 💌		~	′ ·	
System Date & Time(178)					1	
System Multi Language(179)	6	N/A 💌		<b>~</b>		
System Timers(180~182,186)			-		1	
In Room Indication(183)	7	N/A 💌		×		
Web Access Authorization			-		1	
Station Web Authorization	8	N/A 💌				
NTP Attributes(195)	9	N/A 🗸	-		1	
SNMP Attribute(196)	9	IN/A 💌				
Hot Desk Attributes(250)	10	N/A 🔽	-		1	
System Call Routing(251)						
CO Call Rerouting(252)						
VM COS Attributes(253)						
Static Route Table(254)						
> Access Control List(255)						
System Speed Dial						

Figure 4.4.5.31-1 Access Control List

Access Control determines the Source IP addresses that can access the system for specific protocols.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Protocol	This field defines the accessing protocol type.	N/A, ALL, TCP, UDP, ICMP	N/A
Port number	This field further defines the protocol TCP/IP port number.		
Port type	The port number can be configured as either the source or destination	DEST/	
гоп туре	port number.	SRC	
Source IP address	The allowed source IP address and net mask allowed access is defined by this field.		
Remark	This is a general remark field.		

#### Table 4.4.5.31-1 ACCESS CONTROL LIST

### 4.4.5.32 System Speed Dial

Selecting System Speed Dial will display the System Speed Dial entry page, Figure 4.4.5.32-1. Enter a valid range of System Speed Dial numbers and click **[Load]** to enter Speed Dial data.

PECS ECS eMG80	Ad	ministration	Maintenar	nce		Change Language	Log Or
System Data 🗸 🗸 🗸				×			
System Attributes(160~161)	Favor	ite PGM Sys	stem Speed Dial	×			
System Password(162)	Enter In	dex Range (20(	10 - 4999) ·			Coad	Sa
Alarm Attributes(163)	Linorin	down rainge (200					[] Ja
Attendant Assignment(164)	Index R	ange 2000-201	5				
Multicast RTP/RTCP(165)	Index	СО Туре	CO Value	Dial Digit	Name		
DISA COS(166)	2000	N/A 💽					
DID/DISA Destination(167)	2001	N/A 💽					
External Control Contacts(168)	2002	N/A 💽					
LCD Display Mode(169)	2003	N/A 💽					
LED Flashing Rate(170)	2004	N/A N					
Music Sources(171)	2005	N/A N					
PBX Access Codes(172)	2006	N/A N					
RLP Priority(173)	2007	N/A N					
RS-232 Port Settings(174)	2008	N/A N					
Serial Port Selections(175)	2009	N/A N					
Break / Make Ratio(176)	2010	N/A N					
SMDR Attributes(177)	2011	N/A N					
System Date & Time(178)	2012	N/A N					
System Multi Language(179)	2013	N/A N					
System Timers(180~182,186)	2013						
In Room Indication(183)	2014						
Web Access Authorization	2013	IN/A					
Station Web Authorization							
NTP Attributes(195)							
SNMP Attribute(196)							
Hot Desk Attributes(250)							
System Call Routing(251)							
CO Call Rerouting(252)							
VM COS Attributes(253)							
Static Route Table(254)							
Access Control List(255)							
System Speed Dial							
Custom Messages							
PPTP Attributes							

Figure 4.4.5.32-1 System Speed Dial List

The eMG80 has memory for 3000 Speed Dial numbers of up to 23 digits each. Each System Speed bin (index) is assigned the CO/IP Line for the Speed Dial, the number to be dialed and a name for Dial-by-Name.

### 4.4.5.33 Custom Messages

Selecting Custom Messages will display the Custom Message Table data entry page, Figure 4.4.5.33-1.

eMG80	Adminis	tration	Maintenanc		Change Language	Lo
stem Data 🛛 🗸 🗸						
/stem Attributes(160~161)	Favorite P(	OM Custon	n Messages	×		
rstem Password(162)						_
arm Attributes(163)						
tendant Assignment(164)	Index	Messag	je	Range		
ulticast RTP/RTCP(165)	1			Max 24 Characters		
SA COS(166)	2			Max 24 Characters		
D/DISA Destination(167)	3			Max 24 Characters		
ternal Control Contacts(168)	4			Max 24 Characters		
D Display Mode(169)	5			Max 24 Characters		
D Flashing Rate(170)	6			Max 24 Characters		
usic Sources(171)	7			Max 24 Characters		
IX Access Codes(172)	8			Max 24 Characters		
.P Priority(173)	9			Max 24 Characters		
3-232 Port Settings(174)	10			Max 24 Characters		
rial Port Selections(175)						
eak / Make Ratio(176)						
IDR Attributes(177)						
stem Date & Time(178)						
stem Multi Language(179)						
stem Timers(180~182,186)						
Room Indication(183)						
eb Access Authorization						
ation Web Authorization						
P Attributes(195)						
IMP Attribute(196)						
t Desk Attributes(250)						
stem Call Routing(251)						
) Call Rerouting(252)						
I COS Attributes(253)						
atic Route Table(254)						
cess Control List(255)						
stem Speed Dial						
stom Messages						

Figure 4.4.5.33-1 Custom Message

The system's 10 Custom messages can be defined with up to 24 characters each.

### 4.4.5.34 PPTP Attributes

Selecting PPTP Attributes will display the PPTP Attributes Table data entry page, Figure 4.4.5.34-1.

	Administra	tion	Maintenan	ice			Change Language	
/stem Data v	<u>^</u>							
System Attributes(160~161)	Favorite PGM	Custon	n Messages	х ррт	P Attributes	×Q		
System Password(162)								
Alarm Attributes(163)								
Attendant Assignment(164)	Attribut	0		Value		Range		
Multicast RTP/RTCP(165)	PPTP Usage		OFF 🔽	vuide		runge		
DISA COS(166)	PPTP Server II	P Address				IP Address		
DID/DISA Destination(167)	PPTP ID					Max 24 Chars		
External Control Contacts(168)	PPTP Passwo	rd				Max 24 Chars		
LCD Display Mode(169)	PPTP Service					Max 23 Digits		
LED Flashing Rate(170)		00				max 20 Digita		
Music Sources(171)								
PBX Access Codes(172)								
RLP Priority(173)								
RS-232 Port Settings(174)								
Serial Port Selections(175)								
Break / Make Ratio(176)								
SMDR Attributes(177)								
System Date & Time(178)								
System Multi Language(179)								
System Timers(180~182,186)								
In Room Indication(183)								
Web Access Authorization								
Station Web Authorization								
NTP Attributes(195)								
SNMP Attribute(196)								
Hot Desk Attributes(250)								
System Call Routing(251)								
CO Call Rerouting(252)								
VM COS Attributes(253)								
Static Route Table(254)								
Access Control List(255)								
System Speed Dial								
Custom Messages								

Figure 4.4.5.34-1 PPTP Attributes

When required, the system supports Point to Point Tunneling Protocol (PPTP). PPTP must be enabled and values for the PPTP server IP address, Id and password must be entered and a server name may be entered.

# 4.4.6 Station Group Data

Selecting the Station Group Data program group returns the sub-menu displayed in the left frame as shown in Figure 4.4.6-1.



Figure 4.4.6-1 Station Group Data

Stations can be grouped so that incoming calls will search (hunt) for an idle station in the group. The system allows assignment of three hunt processes, Circular, Terminal and UCD. In addition, there are eight (8) functional groups available: ACD (Automatic Call Distribution) based on UCD hunt, Ring, Call Pick-Up, External Voice Mail (SLT connected), VSF-Voice Mail, iPECS Feature Server Voice Mail and Network Voice Mail, and UCS Groups.

Certain types of groups can incorporate announcements, which are given to the calling party. The system's VSF can store up to seventy (70) announcements for use with Station Groups.

Note that a station can belong to multiple groups if the groups are all of the same type. Also note that when a station group is assigned to a group type (Circular, Terminal, ACD, VM, FS VM, VSF-VM, Net VM, UCS and Ring), the group attributes are initialized to the default values.

### 4.4.6.1 Station Group Overview

Selecting the Station Group Overview item will return the Station Group Overview page, Figure 4.4.6.1-1. This page displays the Station Group attributes (type, pick-up attribute and member stations) for all the Station Groups. Note that data cannot be entered on this page.

CS eMG80	Administratio	on	Maintenance		Cł	ange Language
PGM Search	Favorite PGM	Station	ı Group Overview	×		
System ID & Numbering Plans	Group Number 1	<sup>8</sup> Tumo 18	Pickup Attribute	Mombor I	iet Group Namo	
Station Data	401	N/A	г юкир Ангилисе	Mennber	list of oup name	
Station Data	401	N/A				
Board Based Data	402	N/A				
	404	N/A				
CO Line Data	405	N/A				
	406	N/A				
System Data	407	N/A				
Station Comm Data	408	N/A				
Station Group Data	409	N/A				
Station Group Overview	410	N/A				
Station Group Assignment(190)	411	N/A				
	412	N/A				
Station Group Attributes(191)	413	N/A				
Pick Up Group Overview	414	N/A				
Pick Up Group(192)	415	N/A				
Personal Group Overview	416	N/A				
Personal Group(260)	417	N/A				
Personal Group Attritube(261)	418	N/A				
	419	N/A				
ISDN Line Data	420	N/A				
	421	N/A				
SIP Data	422	N/A				
	423	N/A				
Tables Data	424	N/A				
Networking Data	425	N/A				
The monoming Data	426	N/A				
Zone Data	427	N/A				
	428	N/A				
Device Loain	429	N/A				

Figure 4.4.6.1-1 Station Group Overview

### 4.4.6.2 Station Group Assignment - PGM 190

Selecting Station Group Assignment will display the Station Group data entry page, Figure 4.4.6.2-1. Enter the desired Station Group number and click **[Load]** to display the Group Assignment.

iPECS iPECS eMG80	Administration	Maintenance	Change Language Log Out
PGM Search	Favorite PGM Station	Group Assignment(190)	
System ID & Numbering Plans	Enter Group Number :	Load	
Station Data	Group Number 401		
Board Based Data	Group Type : N/A 🗸 🗸		
CO Line Data	Pick-up Attribute : OFF 🔽	J	
System Data	Save Group Type	Add/Delete Group Member	
Station Group Data $\vee$	Station Range	•	Add Del Save
Station Group Overview	Unselect All	+ Station Num	ber
> Station Group Assignment(190)		Save / Delete	
Station Group Attributes(191) Pick Up Group Overview			
Pick Up Group(192)			
Personal Group Overview			
Personal Group(260)			
Personal Group Attritube(261)			

Figure 4.4.6.2-1 Station Group Assignments

Under Station Group Assignments the type, members and Pick-Up attributes are assigned to the Station Group. Note for the Net VM group, the network number must be assigned as the Net VM group member station.

ATTRIBUTE	- DESCRIPTION	RANGE	DEFAULT
Group Type	Defines the type of station group.	N/A, Circular, Terminal, ACD, Ring, Voice Mail, Pick-Up, VSF-VM, UMS VM, NET VM, UCS	N/A
Pick-up Attribute	Stations can pick-up group calls ringing at other stations in the group. This does not apply to the VM groups.	OFF ON	OFF
Member	Assigns stations as members of a station group or, for the Net VM group type, defines the Net Number of the group.		-

#### Table 4.4.6.2-1 STATION GROUP ASSIGNMENT

### 4.4.6.3 Station Group Attributes - PGM 191

Selecting Station Group Attributes will display the Station Group Attributes data entry page. Enter the Station Group number and click **[Load]**, the Web page for the selected group will be displayed as in Figure 4.4.6.3-1 to Figure 4.4.6.3-8 based on the Group type.

Each type of group has a different set of available attributes relating to announcements, timers, overflow, etc. Table 4.4.6.3-1 through Table 4.4.6.3-8 provides descriptions for the attributes and data entries required. Note that the attributes for the Circular and Terminal Hunt groups are given in Table 4.4.6.3-1 and the UCD attributes include the ACD functions Table 4.4.6.3-2.

IPECS IPECS eMG80	Administration Main	tenance	Change Language Log Out
PGM Search	Favorite PGM Station Group	Attributes(191) ×	
System ID & Numbering Plans	Enter Group Number :	Load	Save
Station Data	Group Number 401		
Board Based Data	Group Type : Circular Pick-up Attribute : OFF		
CO Line Data	Attribute	Value	Range
System Data	VSF Announce 1 Timer	15	000 - 999 (sec)
ojotom Data	Guar-Annc(Timer 0) Wait If Busy	ON V	
Station Group Data 🛛 🗸 🗸	VSF Announce 2 Timer		000 - 999 (sec)
Rhatian Oracun Oracniaur	VSF Announce 1 Location	0	00 - 70
Station Group Overview	VSF Announce 1 Auto Drop		00 10
Station Group Assignment(190)	VSF Announce 2 Location	0	00 - 70
Station Group Attributes(191) Pick Up Group Overview	VSF Announce 2 Auto Drop		
	VSF Announce 2 Repeat Timer	0	000 - 999 (sec)
Pick Up Group(192) Personal Group Overview	VSF Announce 2 Repeat	OFF V	
Personal Group(260)	Overflow Destination	STA/NET or Hunt	Station or Group Number
Personal Group Attributes(261)			Auto Drop 🔲 01 - 70
Tersonal Oroup Autobutes(201)		System Speed O	System Speed
ISDN Line Data	Overflow Timer	180	000 - 600 (sec)
	Wrap-Up Timer	2	000 - 999 (sec)
SIP Data	No Answer Timer	15	00 - 99 (sec)
Tables Data	Pilot Hunt		
	REPT No Member	OFF V	
Networking Data	Music Source	Internal Music 💌	
Zone Data	Allow Member Forward	ON V	OFF : Ignore Forward
	VSF Wait Station		Station Number
Device Login	Mail Box Password		Max 12 Digits
DECT Data		STA/NET or Hunt	Station or Group Number
	Forced Forward Destination	VSF Announcement 🔘 0	01 - 70
Hotel Data		System Speed 🔿	System Speed
Green Mode	Forced Forward Dest Usage	OFF 💌	
	Group Name		Max 12 Characters
Initialization	Max Queued Call Counter	99	00 - 99

Figure 4.4.6.3-1 Terminal & Circular Group Attributes

ATTRIBUTE

VSF Announce 1 Timer	station. If the queue period exceeds the VSF Announce 1 timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
Guar-Annc(Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement (OFF).	OFF ON	ON
VSF Announce 2 Timer	After the 1st announcement, the 2nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is the VSF Announcement number. An entry of 00 indicates no announcement.	00~70	00: none
VSF Announce 1 Auto	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	
Drop VSF Announce 2 Location	The Station Hunt Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is the VSF Announcement number. An entry of 00 indicates no announcement.	00~70	00: none
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement.	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to callers that remain in queue at intervals of the Announcement 2 Repeat Timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the Announce 2 Repeat Timer interval, defined above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or route to the assigned overflow destination. If VSF Announcement is selected, Auto Drop can be checked.	STA/NET or Hunt/ Number/ VSF Announce/ System SPD	
Overflow Timer	A call to the group will remain at the last station in the group or can be sent to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
Wrap-Up Timer	After terminating a group call, a Group member will be maintained in a busy state for the duration of the Wrap- Up timer.	000~999 (seconds)	002

Table 4.4.6.3-1 TERMINAL & CIRCULAR GROUP ATTRIBUTES

- DESCRIPTION

If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available

Up timer.

DEFAULT

RANGE

ATTRIBUTE	- DESCRIPTION	RANGE	DEFAULT
No Answer Timer	Calls to a station in the group are directed to the station, if unavailable or unanswered in the No Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
Pilot Hunt	A circular/terminal hunt group can be set so that only calls to the pilot number (station group number) will hunt.	OFF ON	ON
REPT No Member	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	OFF ON	OFF
Music Source	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone.	Ring back tone/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Internal Music
Allow Forward Member	A member activating Call forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal (OFF).	OFF ON	ON
VSF Wait Station	When a call overflows or routes to the VM group, a station number is used to identify the Mailbox for the group messages.	Station Number	
Mail Box Password	The password associated with a group Mailbox is defined here. The password is used in conjunction with the group Mailbox as with a normal station.	Max. 12 digits	
Forced Forward Destination	Calls to a hunt group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	Sta./NET, Hunt group, VSF Announcement, Sys. Speed	
Forced Forward Destination Usage	Calls to a hunt group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A name can be designated for the group.	Max. 12 characters	
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF Announcement 1, if	00-99	99

Table 4.4.6.3-1 TERMINAL & CIRCULAR GROUP ATTRIBUTES

assigned, is played.

PECS ECS eMG80	Administration Mai	intenance	Cha	nge Language 🛛 Log Ou	Jt
PGM Search	Favorite PGM Station Group	o Attributes(191) ×			
System ID & Numbering Plans	Enter Group Number :	Load		Save	
Station Data					
Board Based Data	Group Number 402 Group Type : ACD Pick-up Attribute : OFF				
CO Line Data	Attribute		Value	Range 📕	
System Data	VSF Announce 1 Timer	15		000 - 999 (sec) Y	
	Guar-Annc(Timer 0) Wait If Busy	ON V			
	VSF Announce 2 Timer	0		000 - 999 (sec)	
Station Group Overview	VSF Announce 1 Location	0		00 - 70	
Station Group Assignment(190)	VSF Announce 1 Auto Drop				
Station Group Attributes(191)	VSF Announce 2 Location	0		00-70	
Pick Up Group Overview	VSF Announce 2 Auto Drop				
Pick Up Group(192)	VSF Announce 2 Repeat Timer			000 - 999 (sec)	
Personal Group Overview	VSF Announce 2 Repeat	OFF V			
Personal Group(260) Personal Group Attributes(261)		STA/NET or Hunt		Station or Group Number	
ISDN Line Data	Overflow Destination			01 - 70	
SIP Data		System Speed 🔘		System Speed	
	Overflow Timer	180		000 - 600 (sec)	
Tables Data	Wrap-Up Timer	2		000 - 999 (sec)	
Naturalia a Data	No Answer Timer	0		00 - 99 (sec)	
Networking Data	REPT No Member	OFF 💌			
Zone Data	Music Source	Internal Music 💌			
	ACD Warning Tone	OFF 💌			
Device Login	Alternate destination	STA/NET or Hunt 🔿		Station or Group Number	
DECT Data		SYS SPD 🔿		System Speed	
Hotel Data	Supervisor Timer	30		000 - 999 (sec)	
	Supervisor Call Count	0		00 - 99	
Green Mode	Max Queued Call Counter	99		00 - 99	
Initialization	Supervisor 1			Station Number	
	Supervisor 2			Station Number	
	Supervisor 3			Station Number	
	Supervisor 4			Station Number	
	Supervisor 5			Station Number	
	Ucd Dnd Wran Timer	10		002 - 200 (sec)	

Figure 4.4.6.3-2 ACD Group Attributes

Table 4.4.6.3-2	ACD GROUP	ATTRIBUTES
		/

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
Guar-Annc (Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement. (OFF)	OFF ON	ON

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 2 Timer	After the 1st announcement, a 2nd timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	Each Station Hunt Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF announcement number. An entry of 00 indicates no announcement.	00~70	00: none
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement		
VSF Announce 2 Location	The Station Hunt Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF announcement number. An entry of 00 indicates no announcement.	00~70	00: none
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement		
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the VSF Announce 2 Repeat Timer. Note repeating must be "ON" under VSF Announce 2 Repeat below.	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce 2 Repeat Timer interval.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will queue to the group or route to the assigned Overflow Destination. If VSF Announce is assigned, Auto Drop is available.	Station or Group Number/ VSF Announce/ System SPD	
Overflow Timer	A call to a group will remain queued to the group or be sent to the assigned Overflow Destination after expiration of the Overflow Timer	000~600 (seconds)	180
Wrap-Up Timer	After terminating a group call, a Hunt Group member will be maintained in a busy state for the duration of the Wrap-Up timer.	000~999 (seconds)	002
ACD No Answer Timer	Calls to an agent in the group are directed to the station, if unanswered in the NO ANSWER TIMER, the call can be routed another agent	00-99 (seconds)	00
REPT No Member	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	OFF ON	OFF
Music Source	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone while in queue.	Ring back tone/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Internal Music

#### Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ACD Warning Tone	An ACD supervisor can monitor agent conversations. A warning tone can be provided to the agent and connected party when the supervisor activates the monitor feature.	OFF ON	OFF
Alternate Destination	When a call comes into the group and there are no group members available, the call will be routed to the assigned Alternate Destination.	STA/NET or Hunt Number/ System SPD	
Supervisor Timer	When calls have been in queue longer than the Supervisor Timer, the ACD supervisor is notified by a display of the longest queue time.	000~999 (seconds)	030
Supervisor Call Count	When the number of calls in queue exceeds the Supervisor Call Count, the ACD Supervisor is notified by a display of queued calls.	00~99	00
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF Announcement 1, if assigned, is played.	00-99	99
Supervisor 1 to 5	Any valid iPECS IP or LDP Phone with display can be assigned as a Supervisor, max. 5 ACD Supervisors.	Station	
UCD DND Wrap Timer	This parameter sets the duration a station will receive ring before the system places the station in UCD DND and unavailable for group calls. A setting of '00' disables automatic ACD DND.	002~200 (Sec.)	010
Entered Caller ID ICLID Usage	Within 5 seconds of a guaranteed announcement, the caller may dial digits as an ICLID. The user-dialed digits are compared to the ICLID Table entries, for routing or, for a single dialed digit, to the ACD CCR table below.	OFF ON	OFF
Forward Member Calls	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	OFF : no FWD ON : FWD	ON
Group Name	An ACD group name can be designated.	Max. 12 characters	
CIQ Route 1			Not selected
CIQ Route 2	When an ACD call is queued, the caller may be allowed		Not selected
CIQ Route 3	to dial a digit to exit the queue and route to another destination. The alternate destination is based on the		Not selected
CIQ Route 4	user-dialed digit and can be a station, hunt group,		Not selected
CIQ Route 5	system-speed bin, or network station. Dial the digit	_	Not selected
CIQ Route 6	below for the type of destination and enter the value		
CIQ Route 7	associated with the destination. 1: Enter a station number.		
CIQ Route 8	2: Enter a hunt group number.		
CIQ Route 9	3: Enter a system speed bin.		
CIQ Route 0	4: Enter a network station number		
	Agents using a headset can have ACD calls connected	OFF	
ZAP Tone	to them automatically preceded by a tone (Zap tone).	ON	OFF

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

to them automatically preceded by a tone (Zap tone).

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CIQ Ment Play On/OFF	If enabled, queued callers receive the CIQ message (You are # in queue) after the 1 <sup>st</sup> and 2 <sup>nd</sup> announcement.	OFF ON	OFF
VSF Wait Station	When an ACD call overflows or routes to the VM group, a station number is used to identify the Mailbox for the ACD group messages	Station	
Mail Box Password	The password associated with an ACD group Mailbox is defined here. The password is used in conjunction with the ACD group Mailbox as with a normal station.	Max. 12 digits	
CIQ Display To Agent - Mode	When an ACD call is in queue, the Call in queue information is displayed in the LCD of agent and supervisor phones.	OFF ON	OFF
CIQ #1 Page Alert - Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #1 Announcement to the CIQ #1 Page Zone after the CIQ #1 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #1 Announcement Repeat Timer.	00-99	10
CIQ #1 Page Alert - Message Number	VSF announcement number for the CIQ #1 Announcement.	00-70	0
CIQ #1 Page Alert – Page Zone	Page Zone to receive CIQ #1 Announcement.	00~15 or 00-40	00
CIQ #1 Page Alert - Delay Time	Delay timer for CIQ #1 Announcement	000-180	015
CIQ #1 Page Alert - Repeat Time	Interval for repeating the CIQ #1 Announcement.	000-180	045
CIQ #2 Page Alert - Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #2 Announcement to the CIQ #2 Page Zone after the CIQ #2 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #2 Announcement Repeat Timer.	00-99	20
CIQ #2 Page Alert - Message Number	VSF announcement number for the CIQ #2 Announcement.	00-70	0
CIQ #2 Page Alert – Page Zone	Page Zone to receive CIQ #2 Announcement.	00~15 or 00-40	00
CIQ #2 Page Alert - Delay Time	Delay timer for CIQ #2 Announcement	000-180	015
CIQ #2 Page Alert - Repeat Time	Interval for repeating the CIQ #2 Announcement.	000-180	025
CIQ #3 Page Alert - Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #3 Announcement to the CIQ #3 Page Zone after the CIQ #3 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #3 Announcement Repeat Timer.	00-99	30
CIQ #3 Page Alert - Message Number	VSF announcement number for the CIQ #3 Announcement.	00-70	0
CIQ #3 Page Alert - Page Zone	Page Zone to receive the CIQ #3 Announcement.	00~15 or 00-40	00

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CIQ #3 Page Alert - Delay Time	Delay timer for the CIQ #3 Announcement	000-180	015
CIQ #3 Page Alert - Repeat Time	Interval for repeating the CIQ #3 Announcement.	000-180	005
Forced Forward Destination	Calls to a hunt group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	Sta./NET, Hunt group, VSF Announcement, Sys. Speed	
Forced Forward Usage	Calls to a hunt group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Auto Ring Mode	Reference table of Auto Ring Mode Table Time for ACD Group Ring Mode. When Manual Change is selected, the Group supervisor can change the ACD group ring mode manually with ACD Group Ring Mode flexible number.	Manual Change Table 1 ~ 16	Manual Change
Day Destination	When the ACD Ring Mode Table schedule is in the Day mode, ACD group calls route to the destination defined here.	Normal Service, Sta./NET, Hunt group, VSF Announcement,	Normal Service
Night Destination	When the ACD Ring Mode Table schedule is in the Night mode, ACD group calls route to the destination defined here.	Sys. Speed Normal Service, Sta./NET, Hunt group, VSF Announcement, Sys. Speed	Normal Service
Timed Destination	When the ACD Ring Mode Table schedule is in the Timed mode, ACD group calls route to the destination defined here.	Normal Service, Sta./NET, Hunt group, VSF Announcement, Sys. Speed	Normal Service

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

PECS PECS eMG80	Administration Main	itenance Chang	e Language 🛛 Log Out			
PGM Search	Favorite PGM Station Group	Attributes(191) ×				
System ID & Numbering Plans	Enter Group Number :	Load	Save			
Station Data		2000	Jave			
Board Based Data	Group Number 403 Group Type : Ring Pick-up Attribute : OFF					
CO Line Data	Attribute	Value	Range			
Quatary Data	VSF Announce 1 Timer		0			
System Data		15	000 - 999 (sec)			
Station Group Data 🗸 🗸 🗸	Guar-Annc(Timer 0) Wait If Busy		000,000 ()			
	VSF Announce 2 Timer	0	000 - 999 (sec)			
Station Group Overview	VSF Announce 1 Location	0	00 - 70			
Station Group Assignment(190)	VSF Announce 1 Auto Drop					
Station Group Attributes(191)	VSF Announce 2 Location	0	00 - 70			
Pick Up Group Overview	VSF Announce 2 Auto Drop					
Pick Up Group(192)	VSF Announce 2 Repeat Timer	0	000 - 999 (sec)			
Personal Group Overview	VSF Announce 2 Repeat	OFF 💌				
Personal Group(260)		STA/NET or Hunt 🔿	Station or Group Numbe			
Personal Group Attributes(261)	Overflow Destination	VSF Announcement 🔿 0 Auto Drop	01 - 70			
		System Speed 🔘	System Speed			
ISDN Line Data	Overflow Timer	180	000 - 600 (sec)			
	Wrap-Up Timer	2	000 - 999 (sec)			
SIP Data	Music Source	Internal Music				
Tables Data	Max Queued Call Counter	99	00 - 99			
	Allow Member Forward	ON V	OFF : Ignore Forward			
Networking Data	Group Name		Max 12 Characters			
Zone Data	VSF Wait Station		Station Number			
Device Login	Mail Box Password		Max 12 Digits			
		STAINET or Hunt	Station or Group Numbe			
DECT Data	Forced Forward Destination	VSF Announcement O	01 - 70			
Hotel Data		System Speed 🔿	System Speed			
FIOLO Data	Forced Forward Dest Usage	OFF 💌				

### Figure 4.4.6.3-3 Ring Group Attributes

#### Table 4.4.6.3-3 RING GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
Guar-Ann(Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement. (OFF)	OFF ON	ON
VSF Announce 2 Timer	After the 1st announcement, a 2nd announcement Timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	Each Ring Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is	00~70	00: none

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	a VSF Announcement number. An entry of 00 indicates no announcement.		
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	
VSF Announce 2 Location	The Ring Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~70	00: none
VSF announce Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the VSF Announce 2 Repeat Timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce 2 Repeat Timer interval, defined above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to ring group member stations until answered. The call will remain at the last station or routes to the assigned Overflow Destination. If VSF Announce is assigned, Auto Drop is available.	Station or Group Number/ VSF Announce/ System SPD	
Overflow Timer	A call to a group will remain in the group or route to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
Wrap-Up Timer	After terminating group call, a Hunt Group member will be maintained in a busy state for the duration of the Wrap-Up Timer.	000~999 (seconds)	002
Music Source	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone.	Ring back tone/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Internal Music
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
Allow Forward Member	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	OFF : no FWD ON : FWD	ON
Group name	An group name can be designated.	Max.12 characters	
VSF Wait Station	When a call overflows or routes to the VM group, a station number is used to identify the Mailbox for the group messages.	Station	
Mail Box Password	The password associated with the group Mailbox is defined here. The password is used in conjunction with the group Mailbox as with a normal station.	Max. 12 digits	

#### Table 4.4.6.3-3 RING GROUP ATTRIBUTES

#### Table 4.4.6.3-3 RING GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Forced Forward Destination	Calls to a hunt group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	Sta./NET Hunt group. VSF Announcement Sys. Speed	
Forced Forward Usage	Calls to a hunt group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF

iPECS eMG80	Administration N	1aintenance	Ch	ange Language 🛛 Log Out		
PGM Search	Station Group Attributes(19	1) $\frac{x}{O}$				
System ID & Numbering Plans	Enter Group Number :	Load		Save		
Station Data	Group Number 404					
Board Based Data	Group Yathish de Mail Pick-up Attribute : ON					
CO Line Data	Attribute		Value	Range		
System Data	Wrap-Up Timer	2	]	002 - 900 (sec)		
Station Group Data	Put Mail Index	1 💌	2			
Station Group Data V	Get Mail Index	2 💌				
Station Group Overview	Hunt Type	Terminal 💌				
Station Group Assignment(190)	Overflow Timer	180		000 - 600 (sec)		
Station Group Attributes(191)		STA/NET or Hunt 🔿		Station or Group Number		
Pick Up Group Overview	Overflow Destination	VSF Announcement 🔿	0 Auto Drop	01 - 70		
Pick Up Group(192)		System Speed 🔘		System Speed		
Personal Group Overview		STA/NET or Hunt 🔿		Station or Group Number		
Personal Group(260)	Forced Forward Destination	VSF Announcement 🔿	0	01 - 70		
Personal Group Attritube(261)		System Speed 🔘		System Speed		
	Forced Forward Dest Usage	OFF 💌				
ISDN Line Data	Group Name			Max 12 Characters		
SIP Data	Server Type	3rd-PARTY TYPE 💌				
	Server Number	0		01 - 10		
Tables Data	Member Type	SLT TYPE 🔽 🛛 Ca	pacity (SIP TYPE Only) ()	0 - 140		

### Figure 4.4.6.3-4 External Voice Mail Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Wrap-Up Timer	After terminating a group call, the VM port will be maintained in a busy state for the duration of the Wrap-Up timer.	002~900 (seconds)	002
Put Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table that contains the "Put Mail" dial code.	1~4	1
Get Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table that contains the "Get Mail" dial code.	1~4	2
Hunt Type	The type of Hunt process applied to the SLT ports connected to the VM can be assigned as Circular or Terminal.	Terminal/ Circular	Terminal

#### Table 4.4.6.3-4 EXTERNAL VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Overflow Timer	A call to a group will remain at the last station in the group or be sent to the assigned Overflow Destination after expiration of the Overflow Time.	000~600 (seconds)	180
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or will route to the assigned Overflow Destination. If assigned VSF Announce, Auto Drop is available.	STA/NET or Hunt, VSF Announcement, System Speed	-
Forced Forward Destination	Calls to a hunt group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	Sta./NET, Hunt group, VSF Announcement, Sys. Speed	
Forced Forward Usage	Calls to a hunt group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A group name can be designated.	Max. 12 character	
Server type	Server Type can set 3rd or IPCR.	IPCR/ 3rd party	3rd party
Server number	Sever Number can set 01 ~ 10 for 237 table.	01-10	0
Member Type	Member type is assigned as SLT type or SIP Type. In case of SIP Type, enter the capacity from 1-140.	0-140 (SLT Type/ SIP Type)	SLT Type

PECS eMG80		Administration	Maintenance		Change Language	Log C
PGM Search		Station Group Attribut	es(191) ×			
System ID & Numbering Plans		Enter Group Number :		Load		Sa
Station Data		Group Number 405		Loud		00
Board Based Data		Group Type : Pick-Up Pick-up Attribute : ON				
CO Line Data		Attribute	Value	Range		
System Data		Auto Pick Up	OFF 💌			
Station Group Data	~	All Ring	OFF 💌			
Station Group Overview						
Station Group Assignment(190)						
Station Group Attributes(191) Pick Up Group Overview						
Pick Up Group(192)						
Personal Group Overview						
Personal Group(260)						
Personal Group Attritube(261)						



ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Pick Up	If a group member is ringing, other members of the Group can Pick-Up the ringing call by simply going "Off-hook".	OFF ON	OFF
All Ring	When a call is offered to a member of the Pick-Up Group in the Tone Ring mode, all members will ring. Note Auto Pickup above must be "ON".	OFF ON	OFF

#### Table 4.4.6.3-5 PICK-UP GROUP ATTRIBUTES

		Administration	Maintenance	
PGM Search		Station Group Attribut	tes(191) ×	
System ID & Numbering Plans		Enter Group Number :		Load
Station Data		Group Number 406		
Board Based Data		Group Type : VSF-VM Pick-up Attribute : OFF		
CO Line Data		Attribute	Value	Range
System Data		Retention Time (Day)	0	00 - 99
Station Crown Data	~	Dial Time Out (sec)	15	00 - 99
Station Group Data	Ŷ	Group Name		Max 12 Characters
Station Group Overview				
Station Group Assignment(190)				
Station Group Attributes(191)				
Pick Up Group Overview				
Pick Up Group(192) Personal Group Overview				
Personal Group(260)				
Personal Group Attritube(261)				

### Figure 4.4.6.3-6 VSF Group Attributes

# Table 4.4.6.3-6 VSF GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Retention Time (day) : For future use only	When voice messages are stored in the VSF, the system will maintain (store) the message for the maximum number of days set in this program (0 to 99 days). (Not used currently)	00-99 (day)	0
Dial Time Out (sec): For future use only	This timer determines the inter-digit time for a VSF-AA or a VM session. If this timer expires while the VSF AA or VM is awaiting user input, the system will assume the remote party has disconnected and will return the channel to idle.	00-99 (seconds)	15
Group Name	A group name can be designated.	Max. 12 characters	

iPECS iPECS eMG80		Administration Mai	intenance		Chang	e Language 🛛 Log Out
PGM Search		Favorite PGM Station Group	p Attributes(191) ×			
System ID & Numbering Plans		Enter Group Number :	Load			Save
Station Data		Group Number 407				Care
Board Based Data		Group Type : UMS-VM Pick-up Attribute : OFF				
CO Line Data		Attribute		Value		Range
System Data		VSF Announce 1 Timer	15	- sino		000 - 999 (sec)
		VSF Announce 2 Timer	0			000 - 999 (sec)
Station Group Data	~	VSF Announce 1 Location	0			00 - 70
Station Group Overview		VSF Announce 1 Auto Drop		J		
Station Group Assignment(190)		VSF Announce 2 Location	0			00 - 70
Station Group Attributes(191)		VSF Announce 2 Auto Drop		,		
Pick Up Group Overview		VSF Announce 2 Repeat Timer	0			000 - 999 (sec)
Pick Up Group(192)		VSF Announce 2 Repeat	OFF 💌			
Personal Group Overview			STA/NET or Hunt 🔘			Station or Group Number
Personal Group(260)		Overflow Destination	VSF Announcement 🔘	0	Auto Drop 📃	01 - 70
Personal Group Attributes(261)			System Speed 🔘			System Speed
		Overflow Timer	180			000 - 600 (sec)
ISDN Line Data		No Answer Timer	15			00 - 99 (sec)
SIP Data		Pilot Hunt	ON 🔽			
on Data			STAINET or Hunt 🔘			Station or Group Number
Tables Data		Alternate destination	SYS SPD 🔿			System Speed
Networking Data		Hunt Type	Circular 🔽			
Networking Data		Wrap-Up Timer	2			000 - 999 (sec)
Zone Data			STA/NET or Hunt 🔿			Station or Group Number
Device Login		Forced Forward Destination	VSF Announcement 🔿	0		01 - 70
Device Login			System Speed 🔘			System Speed
DECT Data		Forced Forward Dest Usage	OFF 💌			
		Group Name				Max 12 Characters

### Figure 4.4.6.3-7 iPECS Feature Server Voice Mail Group (UMS-VM) Attributes

#### Table 4.4.6.3-7 FEATURE SERVER VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available FS- VM channel. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
VSF Announce 2 Timer	After the 1st announcement, a 2nd Announcement Timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned VSF Announce 2 Location.	000~999 (seconds)	000
VSF Announce 1 Location	Each group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~70	00: none
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 2 Location	The Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~70	00: none
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement.	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the announcement 2 repeat timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce Repeat timer interval, above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or route to the assigned Overflow Destination. If assigned VSF Announce, Auto Drop is available.	STA/NET or Hunt, VSF Announcement, System Speed	
Overflow Timer	A call to a group will remain at the last station in the group or route to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
No Answer Timer	Calls to a station in the group are directed to the station, if unavailable or unanswered in the No Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
Pilot Hunt	A FS-VM hunt group can be set so that only calls to the pilot number (station group number) will hunt.	OFF ON	ON
Alternate Destination	When a call comes into the group and there are no group members available, the call will be routed to the assigned Alternate Destination.	STA/NET or Hunt, System SPD	
Hunt Group type	The hunt process for the FS-VM group can be defined as Circular or Terminal.	Circular Terminal	Circular
Wrap-Up Timer	After terminating any call, the FS port will be maintained in a busy state for the duration of the Wrap-Up Timer.	000~999 (seconds)	2
Forced Forward Destination	Calls to a group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	Sta./NET, Hunt group, VSF announcement, Sys. Speed	
Forced Forward	Calls to a hunt group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A group name can be designated.	Max. 12 characters	

PECS eMG80	Adm	inistration	Maintenance		Change Language	
PGM Search	Station	Group Attribut	tes(191) ×			
System ID & Numbering Plans	Enter Gro	up Number :		Load		
Station Data	Group Nu	mber 408				
Board Based Data	Group Typ Pick-up A	be : UCS ttribute : OFF				
CO Line Data	Attrik	oute	Value	Range		
System Data	UCS Se			01 - 16		
Station Group Data	~					
Station Group Overview						
Station Group Assignment(190)						
Station Group Attributes(191)						
Pick Up Group Overview						
Pick Up Group(192)						
Personal Group Overview						
Personal Group(260)						
Personal Group Attritube(261)						

Figure 4.4.6.3-8 iPECS UCS Server Group Attributes

#### Table 4.4.6.3-8 UCS GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
UC Server	UCS Server number, this value must be set to 1.		1	

### 4.4.6.4 Pick Up Group Overview

Selecting the Pick Up Group Overview item will return the Station Pick Up Group Overview page, Figure 4.4.6.4-1. This page displays the Station Group member stations for all the Station Pick Up Groups. Note that data cannot be entered on this page.

PECS CS eMG80	Administration	Maintenance	Change Language	Lo
PGM Search	Favorite PGM Pick Up C	Group Overview		
System ID & Numbering Plans	Group Number	Member List		
Station Data	0	Member List		
Board Based Data	1 2			
	3			
CO Line Data	4			
System Data	6			
Station Group Data	× 7			
Station Group Overview	8			
Station Group Assignment(190)	10			
Station Group Attributes(191)	11			
Pick Up Group Overview	12			
Pick Up Group(192)	13			
Personal Group Overview	14			
	15			
Personal Group(260)	16			
Personal Group Attritube(261)	17			
DN Line Data	19			
Dia Line Data	20			
IP Data	20			
	22			
ables Data	23			
letworking Data	24			
-	25			
ione Data	26			
Device Login	27			

Figure 4.4.6.4-1 Pick Up Group Overview

### 4.4.6.5 Pick Up Group Assignment - PGM 192

Selecting Pick Up Group will display the Pick Up Group Assignment entry page, Figure 4.4.6.5-1. Enter the desired Pick Up Group number and click **[Load]** to display the group member Assignment.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM Pick Up Group(192) X	
System ID & Numbering Plans	Enter Group Number (0 - 49) :	
Station Data	Group Number 1	
Board Based Data		
	Add/Delete Group Member	
CO Line Data	Station Range -	Add Del Save
System Data	Add Station Number +	Save
System Data	Unselect All Station Number	
Station Group Data 🗸 🗸	Save / Delete	
Station Group Overview		
Station Group Assignment(190)		
Station Group Attributes(191)		
Pick Up Group Overview		
> Pick Up Group(192)		
Personal Group Overview		

Figure 4.4.6.5-1 Pick Up Group Assignments

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Member Assign stations as members of the Pick-Up group.			

#### Table 4.4.6.5-1 PICK UP GROUP ASSIGNMENT

### 4.4.6.6 Personal Group - PGM 260

Selecting Personal Group will display the Personal Group entry page, Figure 4.4.6.6-1. Enter a valid Personal Group number and click load to enter group data.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM Personal Group(260) ×	
System ID & Numbering Plans	Enter Personal Group Number (1 - 70) :	
Station Data	Personal Group Number 1	
Board Based Data	Master Station : Save	
CO Line Data	Add/Delete Group Member	
System Data		i Del Save
Station Group Data		Dly
Station Group Overview Station Group Assignment(190) Station Group Attributes(191) Pick Up Group Overview Pick Up Group(192) Personal Group Overview > Personal Group(260) Personal Group Attritube(261)	(Save / Delete)	

Figure 4.4.6.6-1 Personal Group

Several stations can share same station number. That means Personal Group is extended feature of Linked Pair.

A Personal Group is composed with a master station and several member stations.

A master station and all member stations share master station's number.

By using this shared number, almost features (Call To xxx / Call From xxx / SMDR / Message Wait...) can be activated.

But, some features can be chosen by PGM 261 attribute about all station activating or individual station working.

In PGM 260, Personal group master and member can be assigned.

In PGM 261, Personal group attribute can be set.

### 4.4.6.7 Personal Group Attribute - PGM 261

Selecting Personal Group Attribute will display the Personal Group Attribute entry page, Figure 4.4.6.7-1. Enter a valid Personal Group number to enter the group data.

iPECS iPECS eMG80		Administration	Maintenance	Change Language Lo	g Out
PGM Search		Favorite PGM	Personal Group Attritube(261)		
System ID & Numbering Plans		Enter Personal Grou	p Number (1 - 70) :	ad]	Save
Station Data		Personal Group Nurr			
Board Based Data		Attribute	Value		
CO Line Data		Wake-Up Call-Forward	Individual 🗸		
System Data		Do-Not-Disturb	Individual 🔽		
Station Group Data	~	Linked Pair Mode	OFF (Cover Ring)		
Station Group Overview Station Group Assignment(190) Station Group Attributes(191) Pick Up Group Overview Pick Up Group (192) Personal Group Overview Personal Group (260) > Personal Group Attritube(261)					

Figure 4.4.6.7-1	Personal	Group	Attributes
------------------	----------	-------	------------

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Wake-Up	If this value is set to Overall, all member wake-up follow by master wake up. If this value is set to Individual, individual wake-up is worked by each station.	Individual/ Overall	Individual
Call-Forward	If this value is set to Overall, call forward setting affect to Master and all members. If this value is set to Individual, individual Call Forward is worked by each station.	Individual/ Overall	Overall
Do-Not Disturb	If this value is set to Overall, DND setting affect to Master and all members. If this value is set to Individual, individual DND is worked by each station.	Individual/ Overall	Individual
Linked Pair Mode	If this value is set to ON, Master and Member Stations are linked and only one station can be activated.	OFF(Cover Ring)/ ON(Cover Ring and State Sync.)	OFF(Cover Ring)

#### Table 4.4.6.7-1 PERSONAL GROUP ATTRIBUTES

# 4.4.7 ISDN Line & ICLID Routing Data

Selecting the ISDN Line Data program group returns the sub-menu displayed in the left frame as shown in Figure 4.4.7-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans		
Station Data	10 20 25 30	
Board Based Data	Station Group Attributes(191) Common Attributes(111)	8
CO Line Data	Station Group Assignment(190) CO Call Rerouting(252)	7
System Data	CO/IP Ring Assignment (144) Station Type(110)	6
Station Group Data	System ID(100)	5
ISDN Line Data 🗸 🗸	CLI Attributes(112)	5 5
ISDN Attributes(200)	Flex Buttons(115/129)	5
CLIP/COLP Table(201) MSN Table(202)		
ICLID Route Table(203)		
ICLID Ring Assignment(204)		
PPP Attributes(205) Prefix Dialing Table(206)		

Figure 4.4.7-1 ISDN Line Data

Each ISDN (Integrated Services Digital Network) Line provides digital services to the end-user. Basic Rate Lines have three (3) channels, 2 B channels and a D channel. The 2 B channels provide 64 Kbps each, a total of 128 Kbps for "Bearer" or voice channels. The D channel provides a 16 Kbps signaling channel. Primary Rate Lines have 23/30 64 Kbps 'B' channels and 1/2 64 Kbps signaling channels. For proper operation, entries are required for various attributes and Tables to match the ISDN circuit and services.

### 4.4.7.1 ISDN Attributes - PGM 200

Selecting ISDN Attributes will display the ISDN Attributes data entry page, Figure 4.4.7.1-1.

PECS PECS eMG80	Administra	<mark>tion</mark> Maintena	nce	Change Language
PGM Search	Favorite PGM	ISDN Attributes(200	) ×	
System ID & Numbering Plans				
Station Data	Attribu	te Value	Range	
Board Based Data	CO ATD Code		Max 2 Digits	
CO Line Data	CLI Print To S Display DID In			
System Data				
Station Group Data				
ISDN Line Data	~			
> ISDN Attributes(200) CLIP/COLP Table(201) MSN Table(202)				

#### Figure 4.4.7.1-1 ISDN Attributes

ISDN attributes define several characteristics of the ISDN interface. ISDN call cost services (Advice of Charge), CLI modification, voice encoding, and other characteristics of the interface are defined, refer to Table 4.4.7.1-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO ATD Code	When the system is set to send the station number with ISDN CLIP or COLP, either the station number or this ATD code will be sent based on Common Attributes section 4.4.2.2, EXT or ATD assignment.	Max.2 Digits	
CLI Print To Serial	The ISDN Calling Line Id may be included in call records, refer to SMDR Attributes section 4.4.5.17.	0: OFF 1: ON	OFF
Display DID Information	Display DID digit information on LCD and print it to serial port.	0: OFF 1: ON	OFF

Table 4 4 7 1-1	ISDN ATTRIBUTES
1 abic 4.4.7.1-1	ISDIN AT TRIBUTES

### 4.4.7.2 CLIP/COLP Table - PGM 201

Selecting CLIP/COLP Table will display the CLIP/COLP Table Attributes data entry page, Figure 4.4.7.2-1.

PECS eMG80	Administration	n Maintena	ance	Change Language	Log Ou
PGM Search	Favorite PGM	CLIP/COLP Table(2	201) <mark>×</mark>		
System ID & Numbering Plans					Save
Station Data	Table	Value	Range		Jave
Board Based Data	CID Password	value	Max 12 Characters		
	COLP table 0		Max 10 Digits (include *' and #')		
CO Line Data	COLP table 1		Max 10 Digits (include *' and #')		
System Data	COLP table 2		Max 10 Digits (include '*' and '#')		
oyotem Data	COLP table 3		Max 10 Digits (include '*' and \#')		
Station Group Data	COLP table 4		Max 10 Digits (include '*' and '#')		
ISDN Line Data	COLP table 5		Max 10 Digits (include '*' and #')		
ISON LINE Data	COLP table 6		Max 10 Digits (include '*' and #')		
ISDN Attributes(200)	COLP table 7		Max 10 Digits (include *' and #)		
CLIP/COLP Table(201)	COLP table 8		Max 10 Digits (include '*' and #')		
MSN Table(202)	COLP table 9		Max 10 Digits (include *' and #)		
ICLID Route Table(203)	COLP table 10		Max 10 Digits (include *' and #')		
ICLID Ring Assignment(204)	COLP table 11		Max 10 Digits (include '*' and \#')		
PPP Attributes(205)	COLP table 12		Max 10 Digits (include *' and #')		
Prefix Dialing Table(206)	COLP table 13		Max 10 Digits (include '*' and \#')		
SIP Data	COLP table 14		Max 10 Digits (include *' and #)		
oir Data	COLP table 15		Max 10 Digits (include *' and #')		
Tables Data	COLP table 16		Max 10 Digits (include '*' and #')		
Naturaling Data	COLP table 17		Max 10 Digits (include '*' and #')		
Networking Data	COLP table 18		Max 10 Digits (include *' and #')		
Zone Data	COLP table 19		Max 10 Digits (include *' and #)		
	COLP table 20		Max 10 Digits (include *' and #)		
Device Login	COLP table 21		Max 10 Digits (include *' and #)		
DECT Data	COLP table 22		Max 10 Digits (include '*' and #')		
	COLP table 23		Max 10 Digits (include *' and #')		
Green Mode	COLP table 24		Max 10 Digits (include *' and #)		

Figure 4.4.7.2-1 CLIP/COLP Table

Normally, the system will send the primary Directory Number of the ISDN Line in the ISDN call SETUP and CONNECT messages to identify the caller (CLIP) or the answering (COLP) party respectively. Under certain circumstances, it may be desirable to provide the secondary or DID number for the ISDN Line. In these cases, the CLIP/COLP Table may be used to define the digits sent. The number sent is selected based on the index assigned for the ISDN Line under ISDN line Attributes section 4.4.4.

The CLI Station Number is sent in place of the station number. For all other entries, the station number is sent as a suffix to the number in the Table. Note that this number is sent only if CLIR/COLR is disabled under the CLIR Service and COLR Service assignments in the Station ISDN Attributes.

### 4.4.7.3 MSN Table - PGM 202

Selecting MSN Table will display the MSN Table data entry page, Figure 4.4.7.3-1.

PECS ECS eMG80	Adm	inistration Maintenan	ce	Change Language
PGM Search	Favorite	PGM MSN Table(202) X		
System ID & Numbering Plans	Enter Inde	ex Range (1 - 500) :		2 Load
Station Data	Index Rar			
Board Based Data	Index	Value		Range
oo Line Dete	c	O Line Range	-	(1 - 74)
CO Line Data	1 Ir	ndex of Flexible DID Table		(0 - 9999)
System Data	C	alled Telephone Number		MAX 23 Digits (Include *' and #')
	c	O Line Range	-	(1 - 74)
Station Group Data	2 Ir	ndex of Flexible DID Table		(0 - 9999)
SDN Line Data	~ 0	alled Telephone Number		MAX 23 Digits (Include *' and #')
	C	O Line Range	-	(1 - 74)
ISDN Attributes(200)	3 Ir	ndex of Flexible DID Table		(0 - 9999)
CLIP/COLP Table(201)	С	alled Telephone Number		MAX 23 Digits (Include *' and #')
MSN Table(202)	C	O Line Range	-	(1 - 74)
ICLID Route Table(203)	4 Ir	ndex of Flexible DID Table		(0 - 9999)
ICLID Ring Assignment(204)	C	alled Telephone Number		MAX 23 Digits (Include *' and #')
PPP Attributes(205)	C	O Line Range	-	(1 - 74)
Prefix Dialing Table(206)	5 Ir	ndex of Flexible DID Table		(0 - 9999)
SIP Data	C	alled Telephone Number		MAX 23 Digits (Include *' and #)
	c	O Line Range	-	(1 - 74)
Fables Data	6 Ir	ndex of Flexible DID Table		(0 - 9999)
Networking Data	c	alled Telephone Number		MAX 23 Digits (Include *' and #)
Networking Data	C	O Line Range	-	(1 - 74)
Zone Data	7 Ir	ndex of Flexible DID Table		(0 - 9999)
	C	alled Telephone Number		MAX 23 Digits (Include *' and #)
Device Login	C	O Line Range	-	(1 - 74)

Figure 4.4.7.3-1 MSN Tables

When an ISDN Line assigned for DID operation receives an incoming call, the call will be routed to a station based on the Flexible DID Table Index assigned in the MSN Table. Each iPECS configuration has a different capacity as indicated by the entry range in Table 4.4.7.3-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Line Range	Enter the CO Line Range.	1-74	None
Index of Flexible DID Table	Index to the Flexible DID Table, section 4.4.9.12.	0~9999	None
Called Telephone Number	Telephone Number (called number)	Max. 23 Digits (Include * and #)	None

Table 4.4.7.3-1	<b>MSN TABLE</b>	ATTRIBUTES
-----------------	------------------	------------

### 4.4.7.4 ICLID Route Table - PGM 203

Selecting ICLID Route Table will display the ICLID Route Table data entry page, Figure 4.4.7.4-1. Select the ICLID Table Index range desired, blue text above the table header. Selecting the blue colored text in the Table header will sort the table based on the selected column.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM ICLID Route Table(203)	
System ID & Numbering Plans	Enter Index Range (1 - 250) :	2 Load Save
Station Data	Index Range 1-10	
Board Based Data	Index ICLID Ring Assign Index Caller Telephone Number Caller Nam	ne Ring Tone
CO Line Data		
System Data	3	
Station Group Data	4            5	
ISDN Line Data 🗸 🗸	6	
ISDN Attributes(200) CLIP/COLP Table(201) MSN Table(202)		
<ul> <li>ICLID Route Table(203)</li> <li>ICLID Ring Assignment(204)</li> <li>PPP Attributes(205)</li> <li>Prefix Dialing Table(206)</li> </ul>		

Figure 4.4.7.4-1 ICLID Route Table

The system can employ ICLID (Incoming Calling Line Id) to determine the routing of incoming external calls. Each CO/IP Line, including DID Lines and ACD group calls may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table and, if a match is found, will route the call to the destination defined in the ICLID Ring Assignment Table index assigned here.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ICLID Ring Assign Index	Index to the ICLID Ring Assignment Table that determines the call routing.	001~250	None
Caller Telephone Number	ICLID (Incoming Caller Id) to match for the index. If the Caller Id matches the Table entry, the index is used to select the route.	24 Digits	None
Caller Name	ICLID name that is sent by the system to the destination for the ICLID routed call.	12 characters	None

Table 4.4.7.4-1 ICLID ROUTE TABLE ATTRIBUTES
--

### 4.4.7.5 ICLID Ring Assignment Table - PGM 204

Selecting ICLID Ring Assignment Table will display the ICLID Ring Assignment Table data entry page, Figure 4.4.7.5-1.

iPECS iPECS eMG80	Administ	ration Mai	ntenance	Change Language Log Out
PGM Search	Favorite PG	M ICLID Ring As	signment(204) ×	
System ID & Numbering Plans	Enter Table N	umber (1 - 250) :	Load	Save
Station Data	Table Numbe		2000	Jave
Board Based Data		tribute	Value	Range Station Delay Value [Station:Delay]
CO Line Data		<ul> <li>Station Range</li> </ul>	Range: -	0~9 [100:0]
System Data		🔵 Hunt Group		
Station Group Data	Day	<b>○</b> VSF	Announcement : Auto Drop :	0~70
ISDN Line Data 🗸 🗸		🔿 AA Ring Time		0~30
ISDN Line Data ~		🔿 Net Station		
ISDN Attributes(200) CLIP/COLP Table(201)		<ul> <li>Station Range</li> </ul>	Range:	0~9 [100:0]
MSN Table(202)		🔵 Hunt Group		
ICLID Route Table(203) > ICLID Ring Assignment(204)	Night	<b>○</b> VSF	Announcement : Auto Drop : 🔄	0~70
PPP Attributes(205)		🔿 AA Ring Time		0~30
Prefix Dialing Table(206)		🔿 Net Station		
SIP Data		<ul><li>● Station Range</li></ul>	Range: Delay:	0~9
		🔵 Hunt Group		
Tables Data	Timed Ring	O VSF	Announcement : Auto Drop :	0~70
Networking Data		🔿 AA Ring Time		0~30
Zone Data		O Net Station		

Figure 4.4.7.5-1 ICLID Ring Assignment Table

If the Incoming Caller ID matches an entry in the ICLID Route Table, the index from the Table is used to determine the call routing from the ICLID Ring Assignment Table. Separate ring assignments are made for Day, Night, and Timed Ring mode for each index, 001 to 250, in this table. When assigned to ring to a VSF announcement, the call can be automatically dropped after the announcement by entering '#' after the announcement number.

When CO Lines are programmed to Ring an external AA/VM, VSF or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

### 4.4.7.6 ISDN PPP Attributes - PGM 205

Selecting PPP Attributes will display the PPP Attributes data entry page, Figure 4.4.7.6-1.

PECS PECS eMG80	Administration	Maintenance		Change Language	Log O
PGM Search	Favorite PGM PP	PP Attributes(205) ×			
System ID & Numbering Plans					Sar
Station Data	Attribute	Value	Range		
Board Based Data	PPP Destination	100	Station Number		
	User ID 1	likppp01	Max 12 Characters		
CO Line Data	User Password 1	******	Max 12 Characters		
System Data	User ID 2	likppp02	Max 12 Characters		
-,	User Password 2	******	Max 12 Characters		
Station Group Data	PPP SERVER IP /	Addr 10.0.0.3			
ISDN Line Data	✓ PPP CLIENT IP A	ddr 10.0.0.2			
ISDN Attributes(200)					
CLIP/COLP Table(201)					
MSN Table(202)					
ICLID Route Table(203)					
ICLID Ring Assignment(204)					
PPP Attributes(205)					
Prefix Dialing Table(206)					

Figure 4.4.7.6-1 PPP Attributes

In addition to remote access via an IP network connection, the system database may be accessed remotely via an ISDN connection. Placing a call over an ISDN Line to the designated PPP Station will provide a connection to the system database. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After matching id and password are received, the iPECS Home page is provided and Web Admin is available as explained earlier in this section 4.

#### Table 4.4.7.6-1 PPP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PPP Destination	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination, the system will automatically answer the call and request PPP ID and password.	Station number	None
User ID 1	System accepts this PPP ID 1.	Max. 12 characters	likppp01
User Password 1	The password entered is used to authorize PPP ID 1.	Max. 12 characters	lpkts01
User ID 2	System accepts this PPP ID 2.	Max. 12 characters	likppp02
User Password 2	The password entered is used to authorize PPP ID 2.	Max. 12 characters	lpkts02
PPP Server IP Addr	Operator can configure PPP server IP Address with this option. To apply this option, system must be restarted.	IP Address	
PPP Client IP Addr	Operator can configure PPP Client IP Address with this option. To apply this option, system must be restarted.	IP Address	

### 4.4.7.7 ISDN Prefix Dialing Table

Selecting ISDN Prefix Dialing Attributes will display the Prefix Dialing Table Attributes data entry page, Figure 4.4.7.7-1.

PECS ECS eMG80	A	dministration	Maintenance	Cł	nange Language	Log Out	
PGM Search	Fav	orite PGM Prefix E	Dialing Table(206) ×				
System ID & Numbering Plans	Enter	Index Range (1 - 500)		0	Load	Save	
Station Data		Range 1-5		0	Load	Dave	
Board Based Data	Index	· · · · ·	/alue	Range			
		Prefix Code		MAX 8 Digits (Include **' and #')	1		
CO Line Data		Table ID	0	0-6, 0 means disable			
System Data		Min Digit	0	00-30			
Station Group Data	Π.	Max Digit	0	00-30			
	1	Number Of Type	Unknown 💌				
ISDN Line Data	r	Numbering Plan	Unknown				
ISDN Attributes(200)		Sending Complete					
CLIP/COLP Table(201)		Call Charge Type	Unknown 🔽	000.000			
MSN Table(202)		Call Charge Timer	0 (*1sec)	000-999			
ICLID Route Table(203)		Prefix Code		MAX 8 Digits (Include ** and #)	-		
ICLID Ring Assignment(204)		Table ID	0	0-6, 0 means disable			
PPP Attributes(205)		Min Digit Max Digit	0	00-30			
Prefix Dialing Table(206)	2	Number Of Type		00-30			
	<u></u>	Numbering Plan	Unknown V				
SIP Data		Sending Complete					
Tables Data		Call Charge Type	Unknown V				
		Call Charge Timer	0 (*1sec)	000-999			
Networking Data		Prefix Code		MAX 8 Digits (Include *' and #')			
Zone Data		Table ID	0	0-6, 0 means disable			
20110 2010		Min Digit	0	00-30			
Device Login		Max Digit	0	00-30			
DECT Data	3	Number Of Type	Unknown 🗸				
BEOT BAR		Numbering Plan	Unknown				
Green Mode		Sending Complete	OFF 💌				
Initialization		Call Charge Type	Unknown 🔽				
		Call Charge Timer	0 (*1sec)	000-999			
		Prefix Code		MAX 8 Digits (Include *' and #)	1		
		Table ID	0	0-6, 0 means disable			
		Min Digit	0	00-30			

Figure 4.4.7.7-1 Prefix Dialing Table Attributes

Prefix Dialing Table. With this table, three features can be supported.

- 1. Analog CO Call Charge with NPR metering.
- 2. SIP direct dialing with no wait inter-digit timer.
- 3. ISDN Prefix Call ISDN en-block Dialing with Prefix Call Setup.

If first some digits (up to 8 digits) of outgoing dial number are matched with Prefix Code of each table, this table can start work. By each Co-line (PGM 142 – F20), Table ID (0-6) can be set. This table ID (PGM 142 – F20) is associated with PGM 206 – each table ID.

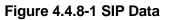
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Prefix Code	Enter the Prefix code. (Max 8 digits)	Max. 8 Digits (Include * and #)	
Table ID	Enter Table ID (0-6). 0 means NOT used.	0-6	0
Min Digit	Select the minimum dial digits (00-30).	00-30	0
Max Digit	Select the maximum dial digits (00-30).	00-30	0
Number Of Type	Select Number of Type (0~6). Unknown/International/National/Network Spec/Subscriber/Abbreviated /Reserved.	International/ National/ Network spec/ Subscriber/ Abbreviated/ Reserved	0
Numbering Plan	Select Numbering Plan (0~6). Unknown/ISDN/Data Numbering/Telex/National Standard/Private /Reserved.	ISDN Telephony/ Data numbering/ Telex/ National standard/ Private/ Reserved	0
Sending Complete	Select Sending Complete option. (On/Off)	ON/OFF	OFF
Call Charge Type	Call Charge Type (0~5). Unknown/Local/Long Distance/International/Mobile/reserved	Local/ Long distance/ International/ Mobile/ Reserved	Unknown
Call Charge Timer	Call Charge Timer can be assigned. By this timer value Call Metering can be established.	000-999	0

#### Table 4.4.7.7-1 PPP ATTRIBUTES

# 4.4.8 SIP Data

Selecting the SIP Data program group returns the sub-menu displayed in the left frame as shown in the Figure 4.4.8-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans		
Station Data	10 20 25 30	
Board Based Data	Station Group Attributes(191) Common Attributes(111)	8
CO Line Data	CO Call Rerouting(252) Station Group Assignment(190)	7
System Data	Station Type(110) CO/IP Ring Assignment(144)	6
Station Group Data	System&Device IP(102~103) Terminal Attributes(112)	5
ISDN Line Data	Flex Buttons(115/129)	5
SIP Data 🗸 🗸	Common Attributes(140)	5
SIP Common Attributes(210) SIP Trunk Status Overview		
SIP CO Attributes(133) SIP Registration Status Overview		
SIP UID Alloc Status Overview		
SIP User ID Attributes(126)		
SIP Phone Attributes(211) SIP Phone Provisioning(212)		
Provisioning File View&Delete		



### 4.4.8.1 SIP Common (System based) Attributes - PGM 210

Selecting SIP Common Attributes will display the SIP System based Attributes data entry page, Figure 4.4.8.1-1. The attributes are system based SIP server data that running on MPB.

DNS server address is where system can get IP address of external party that was written in Name in system. Local UDP/TCP/TLS Port is MPB's SIP signaling port number.

'Signal TLS Option' is for the SIP signaling by TLS configuration.

'SIP Status' the status of is running of SIP server in MPB.

PECS ECS eMG80	Ad	Iministration Maintena	nce		Change Language Log Ot
PGM Search	Favo	rite PGM SIP Common Attrib	utes(210) ×		
System ID & Numbering Plans					Save
Station Data	Order	Attribute	Value	Range	Remark
Board Based Data	1	Primary DNS Address	Value		SYSTEM will be restarted after [SAVE]
Sualu Baseu Data	2	Secondary DNS Address			SYSTEM will be restarted after [SAVE]
CO Line Data	3	Local Server UDP Port	5060	Port	SYSTEM will be restarted after [SAVE]
Durter Date	4	Local Server TCP Port	5060	Port	SYSTEM will be restarted after [SAVE]
System Data	5	Local Server TLS Port	5061	Port	SYSTEM will be restarted after [SAVE]
Station Group Data	6	Check Message Send Timer	120	10-3600sec	
				SIGNAL TLS OPTIC	DN
3DN Line Data	1	TLS Version	TLS1.0 V		SYSTEM will be restarted after [SAVE]
IP Data	2	Crypt Mode	RSA 🗸		SYSTEM will be restarted after [SAVE]
	3	First TLS	None		SYSTEM will be restarted after [SAVE]
SIP Common Attributes(210)	4	Second TLS	None		SYSTEM will be restarted after [SAVE]
SIP Trunk Status Overview	5	Persistent Level	TRANSACTION USER		SYSTEM will be restarted after [SAVE]
SIP CO Attributes(133)	6	Capacity Level	70	0-100	SYSTEM will be restarted after [SAVE]
SIP Registration Status Overview	7	Connection Reuse(TLS)	ON V		
SIP UID Alloc Status Overview		,		P MESSAGE BLOCKING	GOPTION
SIP User ID Attributes(126)	1	IP AUTH USAGE	ON 👻		Server IP and SIP Ext IP
SIP Phone Attributes(211)	2	Remote REGISTER	ALLOW 🗸		REGISTER from FMC or Remote SIP Ext(IP AUTH USAGE ON)
SIP Phone Provisioning(212)	3	REGISTER Check Time	0	0-3600 sec	Time for checking invalid remote REGISTER(Remote REGISTER:ALLOW)
Provisioning File View&Delete	4	REGISTER Threshold	0	0-60000	Max number of invalid remote REGISTER (Remote REGISTER ALLOW)
Fables Data	5	REGISTER Lock Time	0	0-360 mm	Blocking Time for remote REGISTER (Remote REGISTER ALLOW)
ables Data				SIP SMS OPTION	
Networking Data	1	SMS Domain		Max 32 Characters	
	2	SMS URI		Max 32 Characters	KT Only
Zone Data	3	SMS Mode	Normal 🗸		KT Only
Device Login				SIP FAX OPTION	
-	1	START with G711 FAX	OFF 💌		
DECT Data	2	G711 FAX Method	711A 💌		
Green Mode	3	T38 FAX Fallover(711)	OFF 💌		
Jioon mode				MISUELLANEOUS OF	PTION
nitialization	1	OCS Prefix Code		Max 8 Digits	OCS only
	2	SIP Pound Use	OFF 💌		
	3	BLF SYNC NOTIFY Timer	10	10-360	Delay time before sending NOTIFY(blf-sync)
	4	SRTP PATH(SIPEXT)	VOIB RELAY		VOIB Relay or Direct between SIPEXT
	5	DNS SRV Usage	OFF 💌		DNS SRV query
	6	Out Of Rsc Response	503 🗸		No Idle Trunk

Figure 4.4.8.1-1 SIP Common Attributes

Check Message Send Timer – This is Keep Alive Message (OPTIONS) frequency from SIP server (MPB) to SIP Phone. If a SIP Phone does not respond to system's Keep Alive Message then system will make the status of SIP Phone to 'disconnected' in system.

Keep Alive Message (OPTIONS) programming for a SIP station is as below:

- Frequency : SIP Data / SIP Common Attributes (210) Check Message Send Timer.
- Usage ON/OFF for a SIP Extension : SIP Data / SIP Phone Attributes (211) Keep Alive Usage.
- Retry Count : IP Data / SIP Phone Attributes (211) Retry Count.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Primary DNS	Name Resolution Server.	IP Address	
Address	System will be restarted after Save.	(Max. 32 characters)	
Secondary DNS	Name Resolution Server.	IP Address	
Address	System will be restarted after Save.	(Max. 32 characters)	
Local Server UDP	SIP UDP signaling port.		5060
Port	System will be restarted after Save.		5000
Local Server TCP	SIP TCP signaling port.		5060
Port	System will be restarted after Save.		0000
Local Server TLS	SIP TLS signaling port.		5061
Port	System will be restarted after Save.		
Check Message	Keep Alive (OPTIONS Message) sending frequency	10 ~ 3600	120
Send Timer		(Sec.)	
	Signal TLS option		
	TLS version.		
	TLS1.0: TLS1.0 is used for TLS connection.	TLS1.0/	
TLS Version	TLS1.2: TLS1.2 is used for TLS connection.	TLS1.2/	TLS1.0
	SSL3(Auto) : TLS1.0 or TLS1.2 is used – auto	SSL3(Auto)	
	negotiation		
	System will be restarted after Save.		
Crypt Mode	TLS Crypt Mode.	RSA/ECC	
	System will be restarted after Save.	Nene/	
		None/ ARIA-128/	
	CID signaling TLC sparsetion primary (key method	ARIA-126/ AES-128/	
First TLS	SIP signaling TLS encryption primary key method. System will be restarted after Save.	AES-120/ ARIA-128-SHA2/	None
	System will be restanced after Save.	AES-128-SHA2/	
		AES-256-SHA2(RSA)	
		None/	
		ARIA-128/	
	SIP signaling TLS encryption secondary key method.	AES-128/	
Second TLS	System will be restarted after Save.	ARIA-128-SHA2/	None
		AES-128-SHA2/	
		AES-256-SHA2(RSA)	
	TLS signaling path method		
	TRANSACTION : different path with INVITE, INFO,		
Persistent Level	MESSAGE	TRANSACTION/	TRANSACTI
Feisistent Level	TRANSACTION_USER : same path with INVITE,	TRANSACTION_USER	ON_USER
	INFO, MESSAGE		
	System will be restarted after Save.		
Capacity Level	TLS session maintenance rate, maximum 70%.	0 - 100	70
	System will be restarted after Save.		
Connection Reuse	TLS session maintain or not.		ON
(TLS)		ON	
	SIP Message blocking option		
	ON: Discard SIP Request (INVITE, REGISTER,		
IP AUTH USAGE	NOTIFY, OPTIONS, MESSAGE) if VIA IP and	OFF	ON
	From IP are neither the server IP nor SIP Extension	ON	
	IP.		

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT				
Remote Register	ALLOW: proceed REGISTER from remote site. DENY: Discard all remote REGISTER. (It is applied with IP AUTH USAGE ON)	ALLOW/ DENY	0:ALLOW				
REGISTER Check Time	Time interval to check invalid remote REGISTER flooding. (It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~3600 (Sec.)	0				
REGISTER Threshold	Threshold value to decide if it is invalid remote REGISTER flooding. (It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~60000	0				
REGISTER Lock Time	Time interval to discard remote REGISTER if it is REGISTER flooding state. (It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~360 (Min.)	0				
	SIP SMS Option						
SMS Domain	Domain Name used for sending SIP SMS	Max. 32 characters					
SMS request URI	Request URI for sending SIP SMS.Max. 32 charactersThis is only for Korea telecom.Max. 32 characters						
SMS Mode	Assign SMS mode(normal or external) This is only for Korea telecom.						
	SIP FAX Option						
Start w/ G.711 Fax	G711 Fax path through Mode. G711 will be negotiated as voice path and Fax will send this voice path.	OFF ON	OFF				
G.711 Fax method	G711 Fax Mode. VBD – VBD codec attribute will be       711A/711U/711A(VBD).         added in SDP.       711U(VBD)		711A				
T38 FAX Failover(711)	When T38 Negotiation is failed, G711 Codec will be used for Fax Transmission.	OFF ON	OFF				
	Miscellaneous Option						
OCS Prefix Code	OCS Prefix code will be attached in INVITE message When server type is OCS	Max. 8 Digits					
SIP Pound Use	ON: Send digit '#' when user presses '#' OFF: The '#' is used for sending complete.	OFF ON	OFF				
BLF SYNC NOTIFY Timer	After reporting MPB will send NOTIEY to		10				
SRTP PATH(SIPEXT)	If SIP extensions are in Local network, SRTP voice channel will be established directly by setting.       VOIB RELAY/ DIRECT		VOIB RELAY				
DNS SRV Usage	DNS SRV query is used.	OFF ON					
Out OF Rsc Response	Response code when all channels are used.	503/ 486	503				
Error Code For Trunk Rerouting	If eMG80 receives Error Code programmed in this field, Call will be rerouted.						

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT					
	SIP QOS Option							
SIP QOS Method Selection	Select QOS field method.	DSCP/ TOS	TOS					
SIP Signal DSCP value	When DSCP is selected, DSCP values for SIP signal.	0~63	0					
SIP Signal TOS value	When TOS is selected, TOS value for SIP signal.	0~7	5					
RTP DSCP value	When DSCP is selected, DSCP value for RTP.	0~63	0					
RTP TOS value	When TOS is selected, TOS value for RTP.	0~7	5					

### 4.4.8.2 SIP Trunk Status Overview

PECS ECS eMG80		A	dministratio	n	Maintenand	e		Change	Language	Log Out
PGM Search		Favo	rite PGM	SIP Trur	ik Status Ove	rview	<			
System ID & Numbering Plans		Index	Proxy Addr	ess Doma	ain COL Rand	ie SIP Gro	un UID Rand	je State UIDSEL		
Station Data		1	, , , , , , , , , , , , , , , , , , , ,		-		-			
Board Based Data		2			-		-			
CO Line Data		4 5			-		-			
System Data		6			-		-			
Station Group Data		7 8			-		-			
SDN Line Data		9 10			-		-			
		11			-		-			
SIP Data	~	12			-		-			
SIP Common Attributes(210)		13			-		-			
SIP Trunk Status Overview		15			-		-			
SIP CO Attributes(133)		16			-		-			
SIP Registration Status Overview		17			-		-			

Figure 4.4.8.2-1 SIP trunk status overview

### 4.4.8.3 SIP CO Attributes - PGM 133

Selecting SIP CO Attributes returns the SIP CO Attributes data input page, Figure 4.4.8.3-1. Enter the CO Range and click **[Load]** to enter attribute values.

PECS ECS eMG80	Admini	istration Maintenance		Change L	anguage
PGM Search	Favorite F	CGM SIP CO Attributes(133) ×			
System ID & Numbering Plans	Enter CO R	ange (1 - 74) :	load		ſ
Station Data	CO Range				Re
Board Based Data	Check All		Value	Range	UnRe
0 Line Data		Soft Switch Type	Normal		
		Proxy Server Address		IP Address	
System Data		Use Outbound Proxy	OFF 💌		
Station Group Data		Connection Mode			
		Caller Name Service	Use		
SDN Line Data		181 Being Forwarded	Unused 💌		
SIP Data	· -	100 rei	OFF 💌		
nr Data		Use single codec only	OFF 💌		
SIP Common Attributes(210)		Use rport method	OFF 💌		
SIP Trunk Status Overview		Domain		Max 32 Characters	
SIP CO Attributes(133)		Invite Acceptance	From All 💌		
SIP Registration Status Overview		Contact Address Domain	SIP Device Addr 🐱		
SIP UID Alloc Status Overview		From Address Domain	SIP Device Addr 💌		
SIP User ID Attributes(126)		Firewall IP Apply	ON 💌		
SIP Phone Attributes(211)		Diversion Recursing	Recursing 🔽	302,Blind Transfer	
SIP Phone Provisioning(212)		VSF Answer Response	200 OK 💌		
Provisioning File View&Delete		RTP Diversion Method	Recursing 🔽		
		Virtual SIP Channel Mode	No 💌		
ables Data		Proxy Registration Timer	3600		
Vetworking Data		Proxy Server UDP Port	5060	Port	
Data		Proxy Server TCP Port	5060	Port	
one Data		Proxy Server TLS Port	5061	Port	
- des la sin		Registration UID Range		Max 140 Entries	
)evice Login		DTMF Type	INBAND		
DECT Data		Action with REG Failure	IDLE V	CO State	
		Media Port	6000 - 7036	UDP Port	
lotel Data		Secon	dary Proxy Server		
reen Mode		Secondary Proxy Server Address		IP Address	
-		Secondary Domain		Max 32 Characters	
itialization		Secondary Proxy Server UDP Port		Port	
			ID Presentation Option		
			ID Usage		
		P-Asserted-ID	Use 💌		

Figure 4.4.8.3-1 SIP CO Attributes

Various parameters must be entered for proper operation of SIP Trunk including the SIP proxy and Registrar as outlined in Table 4.4.8.3-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Soft Switch Type	Allows identification of soft-switch to support extended soft-switch capabilities. KT, SK TELINK, etc. : Service Provider	Normal/ Broadsoft/ KT/ SK TELINK/ KT IMS/ MS OCS/ SKYPE CONNECT/ SIP-CC/ TI PK0/ ERICSSON IMS/ DNS REDUNT/ MS LYNC	Normal

	Table 4	4.4.8.3-1	SIP CO	ATTRIBUTE	S
--	---------	-----------	--------	-----------	---

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Proxy Server Address	SIP Proxy server IP address.	IP address	
Use Outbound Proxy	The SIP module will communicate only to SIP Proxy Server. In this case, destination address of all communication will be the IP of SIP Proxy Server. Use Outbound Proxy flag should be 'OFF' when you use that SIP module for channels of 3rd-party SIP Extensions.	OFF/ ON	OFF
Connection Mode	This field establishes the SIP connection mode as UDP, TCP or TLS for SIP signaling messages.	UDP/TCP/ TLS	UDP
Caller Name Service	Provide and Display of Name Field Data.	Unused / Use	Us
181 Being Forwarded	SIP 181 Message is sent when call is being redirected or forwarded, if enabled.	Unused / Use	Unused
100rel support	Provisional messages, ACK for provisional messages.	OFF ON	OFF
Use single codec only	During capabilities negotiation, the system can send a single codec id or all codes supported.	OFF ON	OFF
Use rport method	When employed behind a NAPT server, device will add Rport header in SIP message to indicate port in use.	OFF ON	OFF
Domain	Domain name associated with iPECS VOIB channels. Is used in SIP "TO: header message" to SIP Server. Required when the Proxy uses a port other than 5060.	Max. 32 characters	
Invite Acceptance	Allow invite message from domain or anywhere.	Domain Only / From All	From All
Contact Address Domain	Contact Address Domain part option. Address of SIP gateway' or (Server) Domain is used.	SIP Device Addr/ Server Domain	SIP Device Addr
From Address Domain	From Address Domain part option. Address of SIP gateway' or (Server) Domain is used.	SIP Device Addr/ Server Domain	SIP Device Addr
Firewall IP Apply	When Firewall IP is set in VOIB and VOIU, there can be option – use Firewall or Local IP for IP address of Via and Contact header and SDP connection IP.	OFF ON	ON
Diversion Recursing	Implement Recursing or Non-Recursing Diversion	Recursing / Non-Recursing	Recursing
VSF Answer Response	SIP incoming CO call is answered with '200 OK' or '183 Session Progress' message by option. To make Non-Recursing Diversion with SIP '3xx' when use CCR service, the new added option [PGM133 – VSF Answer Response] should be '183 Msg.'	183 Msg. 200 OK	200 OK
RTP Diversion Method	Reserved Currently .	Recursing / Non-Recursing	Recursing
Virtual SIP Channel Mode A virtual SIP CO channel in MPB that has no DSP functionality (ex. Fax). Voice & Video is direct (non- recursing by system) between ends.		No/Yes	No
Proxy Registration Timer	Time-out for registration.		3600
Proxy Server UDP Port	Default port for SIP messages to proxy using UDP.	Port	5060

Table 4.4.8.3-1 SIP CO ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Proxy Server TCP Port	Default port for SIP messages to proxy using TCP.	Port	5060
Proxy Server TLS Port	Default port for SIP messages to proxy using TLS.	Port	5061
Local Server UDP Port	Default port for SIP messages to iPECS using UDP.	Port	5060
Local Server TCP Port	Default port for SIP messages to iPECS using TCP.	Port	5060
Local Server TLS Port	Default port for SIP messages to iPECS using TLS.	Port	5061
Registration UID Range	Defines the range of User IDs from Station SIP Attributes to register with the SIP Registrar Server.	Max. 140 Entries	
DTMF Type	DTMF sending mode.	INBAND/ 2833/ INFO (DTMF)/ INFO (DTMF RELAY)/ INFO(TELEPHON E EVENT)/ INFO(NORTEL NETWORKS)	INBAND
Action with REG	SIP Module Service Down IDLE or WAIT IDLE when	IDLE/	IDLE
Failure	in Registration Fail or Link Down.	WATI IDLE	
Media Port	IP-Binding media option: Media UDP Port Range.	UDP Port	6000-7036
Secondary Proxy	Secondary Proxy Server It is used for SIP proxy server redundancy.		
Server Address	KOREA telecom only.	IP Address	
Secondary Domain	It is used for SIP proxy server redundancy.	Max. 32	
Secondary Proxy Server UDP Port	KOREA telecom only. It is used for SIP proxy server redundancy. KOREA telecom only.	Characters Port	
	ID Presentation Option		
	ID Usage		
P-Asserted-ID	Usage of P-Asserted ID.	Unused Use	Use
Remote-Party-ID	Usage of Remote-Party-ID.	Unused Use	Use
Privacy(CLIR) Presentation	Method of privacy (CLIR).	Anonymous Name & Anonymous Number/ Anonymous Name/ Privacy: user/ Privacy: id/ Privacy: user;id;critical/ Privacy: id & anonymous & P- Preferred-ID	Anonymous Name & Anonymous Number
	ID Individuality		
CID Password	Enter CID Password.		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		User-ID Table/	User-ID Table
		Extension	
		outgoing-CLI/	
		Authorized	
		Representative ID/	
		Fixed Table	
		SYS RULE/	
From Display	Display of From header.	Extension	SYS RULE
		outgoing-CLI	
		Extension SIP-	
		User-ID Table/	
		Extension	
P-Asserted-ID	ID of P-Asserted-ID header.	outgoing-CLI/	Extension SIP-
		Authorized	User-ID Table
		Representative ID/	
		Fixed Table	
		SYS RULE/	
P-Asserted-ID Display	Display of P-Asserted-ID Header	Extension	SYS RULE
		outgoing-CLI	
		Extension SIP-	
		User-ID Table/	
Contact ID	ID of contact header.	Extension	Extension SIP-
		outgoing-CLI/	User-ID Table
		Fixed Table	
		Extension SIP-	
		User-ID Table/	
Remote-Party-ID	ID of Remote-Party-ID header.	Extension	Extension SIP-
		outgoing-CLI/	User-ID Table
		Fixed Table	
	Offnet Call Route ID Transit		
	CO to Offnet Direct Call Route		
	CO to Offnet Direct Call Route	SYS ATD/	
From/Contact ID	CO to Offnet Direct Call Route	SYS ATD/ Original CLI/	SYST ATD
From/Contact ID			SYST ATD
	ID of From header SIP message.	Original CLI/	
From/Contact ID From Display		Original CLI/ Fixed Table SYS RULE/	SYST ATD SYS RULE
	ID of From header SIP message.	Original CLI/ Fixed Table	
	ID of From header SIP message.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/	SYS RULE
From Display	ID of From header SIP message. Display of From header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/	
From Display P-Asserted-ID	ID of From header SIP message. Display of From header. ID of P-Asserted-ID header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table	SYS RULE
From Display	ID of From header SIP message. Display of From header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table SYS RULE/	SYS RULE
From Display P-Asserted-ID	ID of From header SIP message. Display of From header. ID of P-Asserted-ID header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table SYS RULE/ Original CLI	SYS RULE
From Display P-Asserted-ID P-Asserted-ID Display	ID of From header SIP message. Display of From header. ID of P-Asserted-ID header. Display of P-Asserted-ID Header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/	SYS RULE SYST ATD SYS RULE
From Display P-Asserted-ID	ID of From header SIP message. Display of From header. ID of P-Asserted-ID header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/	SYS RULE
From Display P-Asserted-ID P-Asserted-ID Display	ID of From header SIP message. Display of From header. ID of P-Asserted-ID header. Display of P-Asserted-ID Header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table	SYS RULE SYST ATD SYS RULE
From Display P-Asserted-ID P-Asserted-ID Display Remote-Party-ID	ID of From header SIP message. Display of From header. ID of P-Asserted-ID header. Display of P-Asserted-ID Header. ID of Remote-Party-ID header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table Unused/	SYS RULE SYST ATD SYS RULE Original CLI
From Display P-Asserted-ID P-Asserted-ID Display	ID of From header SIP message. Display of From header. ID of P-Asserted-ID header. Display of P-Asserted-ID Header.	Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table SYS RULE/ Original CLI SYS ATD/ Original CLI/ Fixed Table	SYS RULE SYST ATD SYS RULE

#### Table 4.4.8.3-1 SIP CO ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	<u> </u>	IUIIOE	DEIXOEI
	Offnet Call Forward by Station		
		SYS ATD/	
From/Contact ID	ID of From header SIP message.	Original CLI/ Fixed Table	SYST ATD
		SYS RULE/	
From Display	Display of From header.	Original CLI	SYS RULE
		SYS ATD/	
P-Asserted-ID	ID of P-Asserted-ID header.	Original CLI/	SYST ATD
		Fixed Table	
P-Asserted-ID Display	Display of P-Asserted-ID Header.	SYS RULE/	SYS RULE
		Original CLI	OTOTOLL
		SYS ATD/	
Remote-Party-ID	ID of Remote-Party-ID header.	Original CLI/	SYS ATD
		Fixed Table	
		Unused/ SYS ATD/	
Diversion	ID of diversion header.	Original CLI/	Unused
		Fixed Table	
	Mobile Extension External Call		
From/Contact ID	ID of From header SIP message.	SYS ATD/ Original CLI/	SYST ATD
	id of From header SIF message.	Fixed Table	STSTAID
		SYS RULE/	
From Display	Display of From header.	Original CLI	SYS RULE
		SYS ATD/	
P-Asserted-ID	ID of P-Asserted-ID header.	Original CLI/	SYST ATD
		Fixed Table	
P-Asserted-ID Display	Display of P-Asserted-ID Header.	SYS RULE/	SYS RULE
r-Asserted-ID Display	Display of F-Asserted-ID Treader.	Original CLI	STS KULE
		SYS ATD/	
Remote-Party-ID	ID of Remote-Party-ID header.	Original CLI/	SYS ATD
		Fixed Table	
		Unused/ SYS ATD/	
Diversion	ID of diversion header.	Original CLI/	Unused
		Fixed Table	
	SIP UID Assignment		
SIP User ID Fixed			
Table Index	Fixed User ID Table Index.		
SIP User ID		SIP User Table	SIP User
SELECTION	Select which SIP User Table is used(refer PGM111)	Index/2/3	Table Index
	External CODEC Priority Configuration		
	1st. priority	None/	
	2nd. priority	g.711-u/	
1 <sup>st</sup> ~5 <sup>th</sup> priority	3rd. priority	g.711-a/	none
	4th. priority	g.723.1/	
	5th. Priority	g.729/	

Table 4.4.8.3-1	SIP CO	ATTRIBUTES
-----------------	--------	------------

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	<ol> <li>If specify priority to a specific CODEC then it will work for negotiation RTP data.</li> <li>If only 1st. priority is specified and the others are none, then it will work as single CODEC only does.</li> </ol>	g.729-a/ g.722	
	SIP Call Setup Failover Option		
Call Setup No Response	no response timer after send outgoing setup message to SIP proxy server - 0 or [Empty] : do not use 'no response timer' 3~10: wait for 3 to 10 second.	0, 3 ~ 15 sec	5sec
Failover CO Group Number	Case #1 - when SIP CO line is in connected/alive state: after no response time, setup message will be re-sent using this failover CO line group. Case #2 – when SIP CO line is in disconnected/OOS state: setup message will be sent using this failover CO line group.	1 ~ 21 (Max. Numbers of CO Group)	none
	SIP Session Timer		
Session Timer Usage	SIP Session Timer Usage.	ON/OFF	OFF
Session Timer Value	SIP session timer value.	90~ 3600	1800
Min SE	SIP session timer Min value.	90~ 3600	90
	URI Formatting and Rules		
	General Formatting		
To Field Method	sip: method To: < sip:[Number]@[Service Provider Domain Name];user=phone > 'tel: method' To: < tel:+[Number] >	sip: method/ tel: method	SIP: method
Numbering Format	Local [Number]@[Service Provider Domain Name] Global(+E164) +[E.164 Address]@[Service Provider Domain Name] E.164 Address : Nation Code & Area Code	Local/ Global	Local
Local: include Area Code	NO / YES If 'Numbering Format' is Local, Area Code (PGM 143) is automatically inserted or not to 'To' [Number] user dial '8701234', area code is '042' URI is, 0428701234@[Service Provider Domain Name]	Yes No	No
Global: include phone- context	NO / YES If 'Numbering Format' is Global and 'To Field Method' is tel: method, 'phone-context' is automatically added by following or not. user dial '0011428701234' URI is, tel:0011428701234;phone-context=+82	Yes No	No
	Specific Formatting by Conversion (examp	le)	
From 4 digits	To 6 digits	User Dial	Result

#### Table 4.4.8.3-1 SIP CO ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
0	+82	0314504639	+8231450463 9
00	+	0082314504639	+8231450463 9
1588	1588	15886724	15886724
031		0314504639	4504639
	SRTP Setting		
SRTP Usage	SRTP	0: OFF 1: ON	OFF
1st CRYPTO	The first priority Crypt method for SRTP. The range is as below: None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 ARIA_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80		None
2nd CRYPTO	The second priority Crypt method for SRTP. The range is as below: None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 ARIA_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80		None
	Caller/Called ID		
	ID Option		
Caller ID Selection	Caller ID for Display	P-Asserted-ID/ Remote-Party-D/ From ID	P-Asserted-ID
Display Caller Name(Though Id is Anonymous)	SIP Calling Name display if call is from : 'display- name' <sip:anonymous.sip.server.com></sip:anonymous.sip.server.com>	No Yes	No
Called ID Selection	Called Party ID for call routing	Request URI/ To ID	Request URI
	Miscellaneous set		
Drop Busy Station	Drop busy station call and accept new call when new call comes in. Only for Italy.	No Yes	No
Ignore INBAND DTMF	Ignore DTMF through INBAND. Check DTMF type.	No Yes	No
SIP Trunk Group	SIP Trunk Group Number used in SIP trunk.	0~71	0
Send Refer for Transfer	Send REFER message for Off-Net Transfer (Depending on SIP Provider).	No Yes	No
CN Payload Insert	Comport Noise Payload will be inserted to SDP.	No Yes	No

#### Table 4.4.8.3-1 SIP CO ATTRIBUTES

# 4.4.8.4 SIP Registration Status Overview

PECS ECS eMG80	Adm	inistration Mainte	enance	Change L	anguage Log
PGM Search	Favorite	PGM SIP Registration	Status Overview	×	
System ID & Numbering Plans	Index	Registration User ID	SIP Status		
Station Data	1	Registration over ib	on otatao		
Board Based Data	2				
	4				
CO Line Data	5				
System Data	6				
Station Group Data	8				
	9				
ISDN Line Data	10				
SIP Data ~					
SIP Common Attributes(210)	13				
SIP Common Aundates (210)	14				
SIP CO Attributes(133)	15 16				
	17				
SIP Registration Status Overview SIP UID Alloc Status Overview	18				
	19				
SIP User ID Attributes(126)	20				
SIP Phone Attributes(211)	21				
SIP Phone Provisioning(212)	22				
Provisioning File View&Delete	23				
	24				
Tables Data	25				
Networking Data	26				
Networking Data	27				

Figure 4.4.8.4-1 SIP Registration status overview

# 4.4.8.5 SIP UID Allocation Status Overview

iPECS iPECS eMG80	Administrati	on Maintenance	Change Language	Log Out
PGM Search	Favorite PGM	SIP UID Alloc Status Overview	×	
System ID & Numbering Plans	Index	Station		
Station Data	1	Station		
Board Based Data	2			
Board Based Data	3			
CO Line Data	5			^
System Data	6			≡ *
System Data	7			
Station Group Data	8			
ISDN Line Data	10			
	11			
SIP Data ~	12			
SIP Common Attributes(210)	13			
SIP Trunk Status Overview	14			
	15			
SIP CO Attributes(133)	17			
SIP Registration Status Overview	18			
> SIP UID Alloc Status Overview	19			
SIP User ID Attributes(126)	20			
SIP Phone Attributes(211)	21			
SIP Phone Provisioning(212)	22			
Provisioning File View&Delete	23			
	24			
Tables Data	25			

Figure 4.4.8.5-3 SIP UID Allocation Status Overview

# 4.4.8.6 SIP User ID Attributes – PGM 126

Selecting SIP User ID Attributes will display the SIP User ID input page, Figure 4.4.8.6-1. Enter a valid SIP User ID Index Number range, see Station Data, and click **[Load]** to view the SIP User ID Attributes for the first index in the range. Enter new data and click **[Save]** to modify the attributes for the index range.

CS eMG80				
GM Search	Favo	rite PGM	SIP User ID Attributes(126)	
System ID & Numbering Plans	Enter S	IP User ID Ir	ndex Number (1 - 140) :	2 Load Sa
Station Data	SIP Us	er ID Index 1		
Board Based Data	Order	Check All	Attribute	Value
CO Line Data			CID Password	
Co Line Data	1		Registration User ID	
System Data	2		Authentication User ID	
Netley Over Dete	3		Authentication User Password	
Station Group Data	4		Contact Number	
SDN Line Data	5		Contact Display Name	
	6		Asc Station Number	
SIP Data ~	7		User ID Register	Provision 💌
SIP Common Attributes(210)	8		Authorized Representative ID Table Index	0
SIP Trunk Status Overview	9		User ID Usage	OFF 💌
SIP CO Attributes(133)	10		Ring Route Type	ID ASSIGNED STATION
SIP Registration Status Overview	11		DID Conversion Type	Use 'as is' (no treatment)
SIP UID Alloc Status Overview	12		Number of Digits Expected from DID Circuit (2-4) Expected from DID Circuit	4
SIP User ID Attributes(126)	13		DID Digit Mask (4 digits: *,#,0-9)	****
SIP Phone Attributes(211) SIP Phone Provisioning(212)	14		SMS Received Station Number	

Figure 4.4.8.6-1 SIP User ID Attributes

For each station, an index to the SIP User Id Attributes Table is defined in PGM 111 Station Attributes. The SIP User Id Attributes Table defines SIP characteristics associated with the index including User ID, Authentication name, etc. These characteristics are required for proper operation of the system and registration of the iPECS IP and LDP phones when employed with SIP trunk. See also, PGM 133. Note PGM 126 and PGM 133 are accessible only via Web Admin.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registration User ID	User ID@Domain.	40 characters	
Authentication User ID	Authentication name assigned in SIP Proxy when required for registration.	40 characters	
Authentication User Password	User password as assigned in SIP Proxy when required for registration.	18 digits	
Contact Number	User ID.		
Contact Display Name	Name field of Contact header.	32 digits	
Associative Station Number	This field assigns a station to receive incoming calls for the User ID index when "ID Assigned Station" is defined as the Ring Route Type below. In addition this station will receive messages resulting from the SIP Notify method to the iPECS VoIP channels, such as MSG wait, Line busy, etc.	Station number	

Table 4.4.8.6-1 SIP User ID ATTRIBUTES
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ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
User ID Register	In some situations such as during provisioning of the SIP Server or Proxy, it may be desirable not to attempt registration. This field may be used to determine if registration should occur.	Register/ Provision	Provision
Authorized Representative ID Table Index	Representative ID table used for ID individuality.		0
User ID Usage	If registration is enabled (User ID Register above) the iPECS SIP device (VoIP channels) can send the User ID to the SIP Proxy to register the ID. Otherwise, the Authentication Name and password are used.	OFF ON	OFF
Ring Route Type	Incoming calls from a SIP trunk can be routed based on CO/IP Ring assignments (PGM 144), routed to the defined Associated station above (ID Assigned Station) or DID treatment (defined below).	ID Assigned Station/ Ring Assignment/ DID Conversion/ MSN-DID Conversion(PGM 145)	ID assigned Station
DID Conversion Type	When the Ring Route above is defined as DID, the system will send the call to a destination based on the DID conversion selected here. The digits may be used as is to identify the desired station, modified based on the DID Digit mask below and routed to the resulting station or the modified DID number can be used as an index to the DID routing table, PGM 231 to route the call.	DID Digit Conversion/ Use 'as is'/ Modify Using Flexible DID Conversion Table	Use 'as is'
Number of Digits (2-4) Expected from DID Circuit	When DID Digit Conversion or Flexible DID Conversion Table routing is used, the number of digits received is defined in this field.	2-4	4
DID Digit Mask (4digits: *,#,0-9	When DID Digit Conversion or Flexible DID Conversion Table routing is used, the digit conversion is defined in this field.	4 Digits: *, #, 0-9	***
SMS Received Station Number	When received SMS, SMS will go to this station.		

Table 4.4.8.6-1 SIP User ID ATTRIBUTES

### 4.4.8.7 SIP Phone Attributes - PGM 211

Selecting SIP Phone Attributes will display the SIP Phone input page, Figure 4.4.8.7-1. Enter a valid SIP Station Number or range, and click **[Load]** to view the SIP Phone Attributes for the first Station Number in the range. Enter new data and click **[Save]** to modify the attributes for a Station or range.

PECS ECS eMG80	Ad	Iministratior	n Maintenance		Change Lar	iguage
PGM Search	Favo	rite PGM	SIP Phone Attributes(211)			
System ID & Numbering Plans	Enter S	tation Rang	e:	2 Load		
Station Data		Range 100-				
Board Based Data	Order	Check All	Attribute	Value	Range	
CO Line Data	1		Registering Mode	Register 💌		
SO Line Data	2		Registration Status	Registered		
System Data	3		IP Address	10.10.10.2		
	4		IP Port	5588		
Station Group Data	5		Transport Mode	UDP		
ISDN Line Data	6		SIP Phone Type	3rd SIP		
	7		Device Register Mode	AUTO 🔽		
SIP Data ~	8		Registration Timer Usage	OFF 💌		
SIP Common Attributes(210)	9		Registration Timer	3600	30-3600 sec	
SIP Trunk Status Overview	10		Keep Alive Usage	OFF 💌		
SIP CO Attributes(133)	11		Retry Count	3	3-10	
SIP Registration Status Overview	12		407 Authentication	ON 💌		
SIP UID Alloc Status Overview	13		181 Being Forwarded	OFF 💌		
SIP User ID Attributes(126)	14		100rel	OFF 💌		
SIP Phone Attributes(211)	15		Session Timer Support	OFF 💌		
SIP Phone Provisioning(212)	16		Max Session Timer	1800	180-3600 sec	
Provisioning File View&Delete	17		Min Session Timer	90	60-150 sec	
-	18		Within Same Firewall with MPB	ON 💌		
Tables Data	19		SRTP Usage	OFF 💌		
Networking Data	20		1ST CRYPTO	None	Image: A state of the state	
verworking Data	21		2ND CRYPTO	None	×	
Zone Data	22		DTMF Type	INFO(DTMF RELAY)		
Device Login	23		SMS TYPE	AUTO 💌		
Device Login	24		CO Dial Tone	OFF 💌		
DECT Data	25		MWI NOTIFY	OFF 🖌	3rd SIP Phone	
	26		Request URI Type	Normal 💌	KT FMC	
Hotel Data	27		Busy Serve	System Busy Tone 💌		
Green Mode	28		Call Initiation Mode	Mutiple 💌		
	29		Pre Audio Connection For DTMF	183 Session Progress 🗸		

Figure 4.4.8.7-1 SIP Phone Attributes

### < Registration >

For a new registration of SIP station, input ID/PWD & Desired Station Number in PGM 443 of Station User Login Table. This SIP Phone Attributes are for Stations that are already registered to system.

- Register Mode Register/ Manual : Set Registration Time Out or Not
- Registration Status : View connection status (Disconnected or Not) for a station
- IP Address : SIP Phone's IP address
- IP Port : SIP Phone's IP Port Number
- Transport Mode : SIP signaling method
- SIP Phone Type : Automatically Assigned by System
- Device NAT Usage : Automatic Detection

- Registration Timer Usage: OFF Assign (Re-) Registration Timer by Provisioning (212), ON – Assign (Re-) Registration Timer by SIP Phone Attributes (211).
- Registration Timer: more than 10 minute recommended.
- 407 Authentication: Authentication of Registration (and Call Setup). To implement authentication, user login Password should be available in PGM 443 for the Station.

### < Keep Alive / NAT Resolution >

To keep stable information of SIP Phone's Connection, IP address and Port number that is under NAT environment, system uses 'OPTIONS' message to implement Keep Alive and assist NAT resolution - effort to maintain IP address of SIP Phone by sending message so often from system to SIP Phone. SIP Phone should be capable to answer for 'OPTIONS' message

- Check Message Sending Timer in [SIP Data / SIP Attributes (210)] : 120 seconds
- Keep Alive Usage for a SIP Station in [SIP Data / SIP Phone Attributes (211)] : ON
- Retry Count for a SIP Station in [SIP Data / SIP Phone Attributes (211)]: 3

### < System Firewall Resolution >

In case of firewall routed with MPB, to distinguish remote SIP Phone that is outside of firewall from system local area a check bit is required per a SIP Station. With this check bit, system can determine whether to serve communication using firewall mapped WAN IP address of MPB or serve communication using LAN IP address of MPB.

- SIP Phones that are outside of system protect firewall : [SIP Data / SIP Phone Attributes (211)] – 'Same Zone with MPB' to 'OFF'

### < Session Timer >

To confirm talk state frequently during in talk state, system sends 'UPDATE' message to SIP Phone. If there is no response for the UPDATE message with in Maximum session timer, system will disconnect the talking call.

- [SIP Data / SIP Phone Attributes (211)] Session Timer Support : ON
- [SIP Data / SIP Phone Attributes (211)] Max Session Timer : if exceed, disconnect talking call
- [SIP Data / SIP Phone Attributes (211)] Min Session Timer: minimum guard timer for session timer negotiation.

### < SRTP >

Voice & Video Data Encryption requires synchronization of CRYPTO method between system and SIP Phone side. If system specifies SRTP information then same information should be in SIP Phone side by Phone user programming.

SRTP usage requires a SRTP relay channel via eMG80 system VOIU and VOIB.

- [SIP Data / SIP Phone Attributes (211)] SRTP Usage: ON
   →SIP Phone self-programming is required, too SRTP ON
- [SIP Data / SIP Phone Attributes (211)] 1st CRYPTO key generation type: one of ARIA\_CM\_192\_HMAC\_SHA1\_80, AES\_CM\_128\_HMAC\_SHA1\_80,

ARIA\_CM\_128\_HMAC\_SHA1\_80

 $\rightarrow$ SIP Phone self-programming is required, too – 1st/2nd CRYPTO method

 [SIP Data / SIP Phone Attributes (211)] – 2nd CRYPTO key generation type: one of ARIA\_CM\_192\_HMAC\_SHA1\_80, AES\_CM\_128\_HMAC\_SHA1\_80, ARIA\_CM\_128\_HMAC\_SHA1\_80

 $\rightarrow$ SIP Phone self-programming is required, too – 1st/2nd CRYPTO method

### < DTMF >

1) INFO (OUT BAND) type DTMF

- Presented in SIP signaling message.
- INFO (SIMPLE DTMF) / INFO (NORTEL NETWORKS) / INFO (DTMF RELAY) / INFO (TELEPHONE EVENT)
- Default: INFO (DTMF RELAY)
- 2) TONE (INBAND) type DTMF
  - Presented in RTP packet
  - Additional VOIU/VOIB' DSP channel is required to detect DTMF in RTP
  - INBAND / 2833

### <CO DIAL TONE>

This is to avoid double play of CO dial tone

'Set' if SIP phone plays CO dial tone by itself. If not, there will be another CO dial tone from external.

### <Request URI Type>

Some SIP Phone will reject Request-URI if IP and port in domain field is different from its contact IP and port.

'Normal': IP and port number in Request URI domain field will be the real IP and port number of the SIP phone.

'KT-FMC': IP and port number in Request URI domain field will be system IP and port

#### <Busy Serve>

System Busy Tone: there will be a 'busy-tone' on busy state that is presented by system. Additional VOIB/VOIU DSP channel is required.

486 Busy Message: there will be '486 busy' SIP signaling response on busy state.

#### <Call Initiation Mode>

For a SIP station, system can establish multiple or single call sessions. With this option system can control 'call-wait' option in system side. Normally, the SIP Phone has its 'call-wait ON/OFF' option by itself.

Options are as below:

'Multiple': for a new additional call to SIP Phone, system initiates every call for the SIP Phone regarding it is on idle state. The 'call-wait allow/deny' is decided by SIP Phone itself. 'Single': system initiates only one call for a SIP Phone. The 'call-wait' is denied by system side. So, a call to a busy SIP station will be implemented on a busy state call-control.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registration Mode	Register/Manual: Set Registration Time Out or Not.		Register
Registration Status	View: Connection Status (Disconnected or Not).		
IP address	View: IP Address.		
IP Port	View: SIP Connection Port Number.		
Transport Mode	UDP/TCP/TLS: SIP Signaling Method.		UDP
SIP Phone Type	Automatically Assigned by System.		3 <sup>rd</sup> SIP
Device register mode	Automatically Resolved by system.	AUTO/ NO NAT/ NAT	AUTO
Registration Timer usage	ON (OFF: if want to set it by provisioning).	OFF ON	OFF
Registration Timer	Low time will make more traffic.	30-3600	3600
Keep Alive Usage	ON for NAT.	OFF ON	OFF
Retry Count	OPTIONS message sending frequency.	3-10	3
407 Authentication	ON if want to authenticate register and call setup.	OFF ON	ON
181 Being Forwarded	N/A	OFF ON	OFF
100 rel Support	N/A	OFF ON	OFF
Session Timer Support	Talk state monitoring and disconnect call if no response.	OFF ON	OFF
Max Session Timer	Disconnect call within this timer if there is no response.	180-3600	1800
Min Session Timer	Minimum Session timer negotiation guard time.	60-150	90
Within same firewall with MPB	Distinguish from system firewall.	OFF ON	ON
SRTP Usage	RTP encryption.	OFF ON	OFF
1 <sup>st</sup> CRYPTO	<ul> <li>1<sup>st</sup> CRYPTO key generation type.</li> <li>The range is as below: <ul> <li>None</li> <li>ARIA_CM_192_HMAC_SHA1_80</li> <li>AES_CM_128_HMAC_SHA1_80</li> <li>ARIA_CM_128_HMAC_SHA1_80</li> <li>AES_CM_192_HMAC_SHA1_80</li> <li>ARIA_CM_256_HMAC_SHA1_80</li> <li>AES_CM_256_HMAC_SHA1_80</li> </ul> </li> </ul>		None
2 <sup>nd</sup> CRYPTO	2 <sup>nd</sup> CRYPTO key generation type		None

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	The range is as below: None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 ARIA_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80		
DTMF Type	DTMF type of SIP Phone.	INBAND/ 2833/ INFO(SIMPLE DTMF)/ INFO(NORTEL NETWORKS)/ INFO(DTMF RELAY)/ INFO(TELEPHONE EVENT)	INFO(DTMF RELAY)
SMS Type	SMS service type	AUTO, Text/plan, Text/plan(KR), Xnipm+xml	AUTO
CO DIAL TONE	When OFF, Provide virtual dial tone to SIP extension. When ON, Provide real CO dial tone to SIP extension.	OFF ON	OFF
MWI NOTIFY	NOTIFY request for Message Wait Indication.	OFF/ message-summary	OFF
Request URI Type	'Normal': IP and port number in Request URI domain field will be the real IP and port number of the SIP phone. 'KT-FMC': IP and port number in Request URI domain field will be system IP and port.	Normal/ KT FMC	Normal
Busy Service	System Busy Tone: Busy is served by busy tone served by system. 486 Busy Message: Busy is served by SIP busy message.	System Busy Tone / 486 Busy Message	System Busy Tone
Call Initiation Mode	'Multiple': for a new additional call to SIP Phone, system initiates every call for the SIP Phone regarding it is on idle state. The 'call-wait allow/deny' is decided by SIP Phone itself. 'Single': system initiates only one call for a SIP Phone. The 'call-wait' is denied by system side. So, a call to a busy SIP station will be implemented on a busy state call-control	Multiple / Single	Multiple
Pre Audio Connection For DTMF	Audio connection mode when call is not answered but in an alerting (ring-back tone) or dialing (CO dial tone) state. System normally connects audio by '183 Session Progress' message. But some kind of SIP Phone does not support DTMF implementation after this message and in that case system can connect audio by '200 OK' message by this option.	183 Session Progress / 200 OK	183 Session Progress

### 4.4.8.8 SIP Phone Provisioning - PGM 212

Selecting SIP Phone Provisioning will display the SIP Phone Provisioning Data input page, Figure 4.4.8.8-1. Select one of CONFTYPE (Ericsson-LG Enterprise SIP Phone Type) and set the attributes you want to set for those types of SIP Phones on their registration to system and press **[Save]** button.

To store uploaded provision files, press **[STORE]**. To view the saved information, press [View]. To view TLS Cert. files, press [Cert] button.

PECS ECS eMG80	Ad	Iministration M	laintenance		Change Language
GM Search	Favo	rite PGM SIP Phone	Provisioning(212)	x	
System ID & Numbering Plans	Order	Attribute		Value	Range
itation Data	1	CONFTYPE	None 🗸	value	Nange
alon Data				ntered for Private Conf file	
ard Based Data	2	Private Mac			Private MAC Addr
O Line Dete		Don	't enter MAC address	s for common Conf file	
O Line Data	3	Register Timer	3600		120-3600
ystem Data	4	Local UDP Port	5060		Port
	5	Local TCP Port	5060		Port
ation Group Data	6	Local TLS Port	5061		Port
DN Line Data	7	Local RTP Port	23000		Port
	8	Proxy Port	5060		Port
IP Data ~	9	Transport Mode			
RID Common Attributes (24.0)			Prefered Voice	CODEC PRIO	
SIP Common Attributes(210)	10	1 st priority	None 🗸		
SIP Trunk Status Overview	11	2nd priority	None 🗸		
SIP CO Attributes(133)	12	3rd priority	None 🗸		
SIP Registration Status Overview SIP UID Alloc Status Overview	13	4th priority	None 🗸		
	14	5th priority	None 🗸		
SIP User ID Attributes(126)			NTP Set	tting	
SIP Phone Attributes(211)	15	NTP Server Address			Max 32 Characters
SIP Phone Provisioning(212)	16	NTP Interval	1		0-120(Hours)
Provisioning File View&Delete	17	NTP Time Zone	(GMT+01:00)COPE	NHAGEN, DENMARK	
ables Data	18	DST Usage	OFF 🗸		
		-	DSP Se	etting	
letworking Data	19	Speaker Volume	6		1-11,1-7(8850)
one Data	20	HandSet Volume	6		1-11,1-7(8850)
	21	HeadSet Volume	6		1-11,1-7(8850)
evice Login	22	MAX HandSet Volume	11		1-11
507.D-1-			Digit N	Лар	
ECT Data					
reen Mode	23	Dial Tone Digit			MAX 256
nitialization					
	24	Pause Timer	3		01-20 sec
	25	Digit Map			Max 1000

Figure 4.4.8.8-1 SIP Phone Provisioning

#### < Why ? >

To pre-assign default attributes and download configuration to SIP Extensions when they register to System (MPB)

### < For Who? (for all of specified Phone type or for one MAC specified Phone) >

#### CONFTYPE: select Phone Type / Mandatory

- < Ericsson-LG Enterprise WIT-400HE >
  - Currently MPB (TFTP only) does not proceed provisioning for WIT400H(http only) because of different method

 $\rightarrow$  But, WIT-400HE follows eMG80 system's default provisioning by itself automatically.

- < Ericsson-LG Enterprise LIP8002 / LIP88xx/LIP-8XXXE >
  - MPB proceed provisioning for LIP8002 / LIP88xx/LIP-8XXXE
- < Other 3rd party SIP Extensions >
  - Does not proceed provisioning
- Private Mac: specify MAC address if provisioning target is only for one specific SIP extension / Optional

#### < For What ? >

<u>Re-Registration Timer</u>: this will be useless if [SIP User ID Attributes (PGM 126) - Registration Timer Usage] is ON

SIP Extension's Local UDP/TCP/TLS Port number

Proxy Port: Server port number in sight of SIP Extension toward MPB

Transport: Signaling mode

SIP Extension's CODEC Priority

NTP Server and DST setting

The default volume of Speaker/Handset/Headset, maximum volume of Handset

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT					
CONFTYPE	Mandatory, select one of Ericsson-LG Enterprise SIP Phone type		None					
MAC address must just be entered for Private Conf file								
Private MAC	Specify MAC address of a SIP Phone to serve private provisioning for an Extension. For common provisioning for all of CONFTYPE SIP Extensions, do not specify MAC address	Private MAC address						
	Don't enter MAC address for common Conf file							
Registration Timer	Re-Registration Timer	120-3600	3600					
Local UDP Port	SIP Phone default signaling UDP port		5060					
Local TCP Port	SIP Phone default signaling TCP port		5060					
Local TLS Port	SIP Phone default signaling TLS port		5061					
Local RTP Port	SIP Phone default RTP port start range		23000					
Proxy Port	SIP Server port for SIP Phones (MPB SIP Port number)		5060					
Transport Mode	Default signaling method	UPD TCP	UDP					

#### Table 4.4.8.8-1 SIP PHONE PROVISIONING

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT						
		TLS							
	Preferred Voice CODEC PRIO								
1 <sup>st</sup> priority ~ 5 <sup>th</sup> priority	CODEC priority	G.711-u G.711-a G.723.1 G-729 G.722	None						
NTP Setting (Need for TLS)									
NTP Server Address	NTP server IP address.	Max. 32 Characters							
NTP Interval	Interval	0-120 (Hours)	1						
NTP Time Zone	Time Zone	GMT							
DST Usage	Daylight Saving Time	ON OFF	OFF						
	DSP Setting	1							
Speaker Volume	Default volume level of SIP Phone	1-11,1- 7(8850)	6						
Handset Volume	Default volume level of SIP Phone	1-11,1- 7(8850)	6						
Headset Volume	Default volume level of SIP Phone	1-11,1- 7(8850)	6						
MAX Handset Volume	Default volume level of SIP Phone	1-11,1- 7(8850)	11						
	Digit Map								
Dial Tone Digit	Second Dial Tone digit specification in SIP Phone	Max. 256 Digits							
Pause Timer	Dial Pause timer in SIP Phone	01-20 (Sec.)	3						
Digit Map	Send setup to system numbering plan	Max. 1000							
Emergency Code		Max. 1000							
	System Setting	T							
Feature Sync.	ON: Do Not Disturb and Call Forward feature synchronization with system when SIP Phone set the call feature in phone side.	ON OFF	ON						
Auto Idle Timer	Phone goes to idle after this timer when the phone receives disconnect message or signal from CO line.	00-99 (Sec.)	5						
Check Domain	Accept SIP message from registered proxy server.	ON/OFF	ON						
Telnet Usage	Usage of telnet of phone	Enable Disable	Disable						
WEB Usage	Usage of web of phone	Enable Disable	Disable						
Save : save provisioning for the specified common CONFTYPE or specific SIP Extension with Private MAC View : display all of saved provisioning information Cert : extract cert data to system if there is any uploaded cert key data and display the information									

#### Table 4.4.8.8-1 SIP PHONE PROVISIONING

# 4.4.9 Tables Data

Selecting the Tables Data group returns the sub-menu displayed in the left frame as shown in Figure 4.4.9-1.

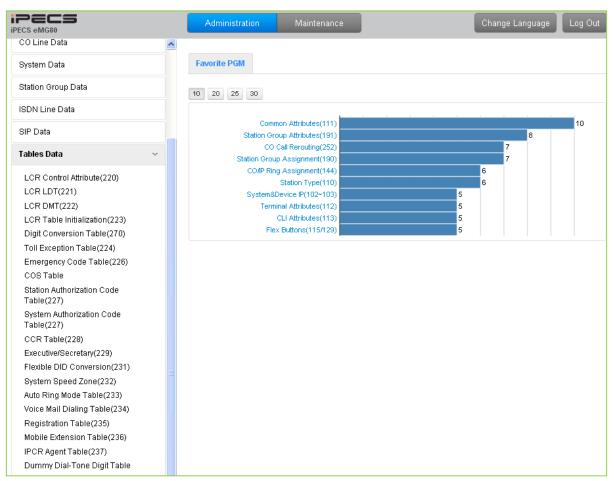


Figure 4.4.9-1 Tables Data

# 4.4.9.1 LCR Control Attributes - PGM 220

Selecting LCR Control Attributes will display the LCR Control Attributes data entry page, Figure 4.4.9.1-1.

The LCR Tables provide a mechanism to define the database, which will route outgoing calls, particularly long distance, using the most cost effective route. User dialed digits are compared to table entries and modified appropriately based on time of day, day of week, and assigned routes. There are four LCR Tables, LCR Control Attributes, LCR Leading Digit Table, LCR Digit Modification Table, and LCR Initialization Table.

ECS eMG80	~		_				
PGM Search	Favorite PGM L	CR Control Attribute(22	0) ×				
System ID & Numbering Plans							S
Station Data	Attribute	1	/alue			Range	
Board Based Data	LCR Access Mode	Disable			~		
		Monday	Zone 1	~			
CO Line Data		Tuesday	Zone 1				
System Data		Wednesday	Zone 1				
oysioni Dala	Day Zone	Thursday	Zone 1	~			
Station Group Data		Friday	Zone 1	~			
SDN Line Data		Saturday	Zone 1	~			
ISDIA LINE Data		Sunday	Zone 1	~			
SIP Data		Time Of Day Zone 1	0	- 24		00-24	
Tables Data 🗸 🗸	Time Zone 1	Time Of Day Zone 2		-		00-24	
Tubles Data		Time Of Day Zone 3		-		00-24	
> LCR Control Attribute(220)		Time Of Day Zone 1	0	- 24		00-24	
LCR LDT(221)	Time Zone 2	Time Of Day Zone 2		-		00-24	
LCR DMT(222)		Time Of Day Zone 3		-		00-24	
LCR Table Initialization(223)		Time Of Day Zone 1	0	- 24		00-24	
Digit Conversion Table(270)	Time Zone 3	Time Of Day Zone 2		-		00-24	
Toll Exception Table(224)		Time Of Day Zone 3		-		00-24	
Emergency Code Table(226)							
COS Table							
Station Authorization Code Table(227)							

Figure 4.4.9.1-1 LCR Control Attributes

The LCR Control Attributes Table, among other items, allows assignment of the LCR Access Modes. The LCR Access Modes defines the user operations that will access the LCR feature. The LCR Access Modes are:

- LCR Disabled.
- Loop (user dials '9' or CO/IP Group code (8xx), or presses a Loop button).
- Loop and Internal (user dials digits without a CO/IP Access Code prefix).
- Loop and Direct CO Line (user dials CO Line Access Code (88xx) or pressing a {CO line} button).
- Loop, Direct CO Line, and Internal.
- Loop, Direct CO Line, and Internal and Direct Loop.

In addition, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). Table 4.4.9.1-1 provides general descriptive information and input ranges.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCR Access Mode	This entry defines the effective LCR modes, the modes by which the user can access LCR.	Disable/ Only Loop LCR/ Internal and Loop LCR/ Loop and Direct CO LCR/ Internal, Loop and Direct CO LCR/ Internal, Loop, Direct CO and Direct Loop LCR	Disable
Day Zone	Each day of the week is assigned to a Day Zone (1~3). The active Day Zone is the Zone assigned to the current day of the week.	Zone1~3 (days of the week)	Zone 1
Time Zone1	This entry defines the hours of the day during which Time Zone 1 is active. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
Time Zone2	This entry defines the hours of the day during which		
Time Zone3	This entry defines the hours of the day during which Time Zone 3 is active.	00~24	

#### Table 4.4.9.1-1 LCR ASSIGNMENT

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

Selecting LCR-LDT (Leading Digit Table) will display the LCR-LDT data entry page, Figure 4.4.9.2-1. Select the LDT Index range desired, blue text above the table header.

iPECS eMG80	- A	Administration	Maintenance		Change Language	Log Out	
PGM Search	^		X				~
	Fav	orite PGM LCR LI	DT(221)				$\sim$
System ID & Numbering Plans	Enter	LDT Table Index //	4.0				
Station Data		LDT Table Index (1 - Index Range (0 - 249			2 Load	Save	^
Board Based Data		Fable Index 1 Range 1-10					
CO Line Data	Index	c Va	lue	Range			
Quatem Date		LCR Type	Both 💌				
System Data		Compared Digits		Max 12 Digits (Include *' and #')	)		
Station Group Data	1	Check Password	OFF 🔽				
	-	DMT 1		Must be 6 digits			
ISDN Line Data		DMT 2		Must be 6 digits			
SIP Data		DMT 3		Must be 6 digits			
		LCR Type	Both 🔽				
Tables Data ~		Compared Digits		Max 12 Digits (Include *' and #')	)		
LCR Control Attribute(220)	2	Check Password	OFF 🔽				
> LCR LDT(221)	2	DMT 1		Must be 6 digits			
LCR DMT(222)		DMT 2		Must be 6 digits			
LCR Table Initialization(223)		DMT 3		Must be 6 digits			
Digit Conversion Table(270)		LCR Type	Both 💌				
Toll Exception Table(224)		Compared Digits		Max 12 Digits (Include *' and #')	)		
Emergency Code Table(226)	3	Check Password	OFF 🔽				
COS Table	3	DMT1		Must be 6 digits			
Station Authorization Code		DMT 2		Must be 6 digits			
Table(227)		DMT 3		Must be 6 digits			
System Authorization Code		LCR Type	Both 💌				
Table(227)		Compared Digits		Max 12 Digits (Include *' and #')	)		
CCR Table(228)		Check Password	OFF 🔽				
Executive/Secretary(229)	4	DMT 1		Must be 6 digits			
Flexible DID Conversion(231)		DMT 2		Must be 6 digits			
System Speed Zone(232)		DMT 3		Must be 6 digits			
Auto Ring Mode Table(233)		LCR Type	Both 💌				
Voice Mail Dialing Table(234)		Compared Digits		Max 12 Digits (Include *' and #'	)		
Registration Table(235)		Check Password	OFF 💌				
Mobile Extension Table(236)	5	DMT 1		Must be 6 digits			
IPCR Agent Table(237) Dummy Dial-Tone Digit Table		DMT 2		Must be 6 digits			
Durniny Dial-Tone Digit Table		DMT 3		Must be 6 digits			
Networking Data		LCR Type	Both 💌				
Topo Doto	~	Compared Digits		Max 12 Digits (Include *' and #')	1		¥

Figure 4.4.9.2-1 LCR Leading Digit Table

The Leading Digits Table is used to analyze the user-dialed digits to determine an appropriate Digit Modification Table Index. LDT Tables are provided for 10 for the eMG80 system. The Table is divided into bins. The applicable LCR Access Modes (LCR Type) and the digits (up to the first 12) dialed by the user are compared with the entries in the Leading Digit Table. In addition, indices to the Digit Modification Table are defined for each Time Zone of each Day Zone. Table 4.4.9.2-1 provides a brief description and entries for the Leading Digit Table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCR Type	This entry defines the LCR modes that will apply to this LDT index.	Internal CO Line Both	Both
Compared Digits	Up to 6 digits that, if matched by the user dialed digits, will access the DMT Indices of the associated Leading Digit Table bin.	Max. 12 digits (Include * and #)	
Check Password	If enabled (ON), when the dialed digits match the LDT digits, the system will send second dial tone to request the user input a valid Authorization code.	0: OFF 1: ON	OFF
DMT1	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 1. The appropriate index will be selected for the current Day and Time Zone. One entry (DMT index) is made for each Time Zone, six (6) digits.	Must be 6 digits 3 DMT indices	
DMT2	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 2. The appropriate index will be selected for the current Day and Time Zone. One entry (DMT index) is made for each Time Zone, six (6) digits.	Must be 6 digits 3 DMT indices	
DMT3	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 3. The appropriate index will be selected for the current Day and Time Zone. One entry (DMT index) is made for each Time Zone, six (6) digits.	Must be 6 digits 3 DMT indices	

Table 4.4.9.2-1 LCR LEADING DIGITS

# 4.4.9.3 LCR – DMT (Digit Modification Table) - PGM 222

Selecting LCR-DMT (Digit Modification Table) will display the LCR-DMT data entry page, Figure 4.4.9.3-1. Select the DMT Table Index range, blue text above the table header, desired.

PECS ECS eMG80	A	dministration Maintenan	ce	Change	Language Log O
PGM Search	Favo	orite PGM LCR DMT(222) ×			
System ID & Numbering Plans	Enter	ndex Range (0 - 99) :		2 Load	Caus
Station Data		Range 1-10			Save
Board Based Data	Index	-	lue	Range	
CO Line Data		Add Digits		MAX 25 Digits (Include **, #' and D : Tone Detect, P : Pause, F : Bi	
CO Line Data		Removal Position	1	01-12	
System Data		Number of digits to be removed		00-12	~
Station One on Data	=	Add Position	1	01-13	
Station Group Data	1	CO/IP Group	1	01-21	
ISDN Line Data		Alternative DMT Index		00-99	
CID Data		Networking Number Plan Bin		001-251	
SIP Data		SMDR code		MAX 4 Digits (Include *' and #')	
Tables Data ~		Add Digits		MAX 25 Digits (Include **, #' and D : Tone Detect, P : Pause, F : Bi	
LCR Control Attribute(220)	=	Removal Position	1	01-12	2
LCR LDT(221)		Number of digits to be removed	0	00-12	
LCR DMT(222)	2	Add Position	1	01-13	
LCR Table Initialization(223)	2	CO/IP Group	1	01-21	
Digit Conversion Table(270)		Alternative DMT Index		00-99	
Toll Exception Table(224)		Networking Number Plan Bin		001-251	
Emergency Code Table(226)		SMDR code		MAX 4 Digits (Include ** and #)	
COS Table Station Authorization Code		Add Digits		MAX 25 Digits (Include *', #' and D : Tone Detect, P : Pause, F : Bi	
Table(227)		Removal Position	1	01-12	
System Authorization Code Table(227)		Number of digits to be removed	0	00-12	
	3	Add Position	1	01-13	
CCR Table(228) Executive/Secretary(229)		CO/IP Group	1	01-21	
Flexible DID Conversion(231)		Alternative DMT Index		00-99	
System Speed Zone(232)		Networking Number Plan Bin		001-251	
Auto Ring Mode Table(233)		SMDR code		MAX 4 Digits (Include *' and #')	
Voice Mail Dialing Table(234)		Add Digits		MAX 25 Digits (Include *', #' and D : Tone Detect, P : Pause, F : Bi	
Registration Table(235)		Removal Position	1	01-12	
Mobile Extension Table(236)		Number of digits to be removed	0	00-12	
IPCR Agent Table(237)	4	Add Position	1	01-13	
Dummy Dial-Tone Digit Table	4	CO/IP Group	1	01-21	
Networking Data		Alternative DMT Index		00-99	
Networking Data	~	Networking Number Plan Bin		001-251	

Figure 4.4.9.3-1 LCR Digit Modification Table

Using the index determined from the analysis of the LCR Leading Digits Table, the dialed number is modified in accordance with the Digit Modification Table and sent over the CO/IP group assigned for the index.

Digits of the dialed number can be deleted based on the "Removal Position" and "Number of digits to be removed" entries and a digit stream can be inserted in the resulting number. Counting from the first dialed digit, the Removal Position defines the location of the digit where removal begins and, the Number of digits to be removed defines the number of digits to remove. The "Add Digits" are then inserted in the resulting number at the digit position assigned by the Add Position entry. The resulting number is then dialed over the CO/IP path assigned. If the assigned path is not available, the "Alternate DMT index" is used to determine the number and CO/IP path to be used.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Add Digits	This entry defines the digit stream to insert in the number after digit removal. Digits 0~9, '*', '#', and special characters, P: timed Pause D: Dial tone detect F: Billing station number	25 digits	
Removal Position	This entry defines the position of the digit where removal is to begin, starting with the 1st dialed digit (01).	01~12	1
Number of digits to be removed	This entry defines the number of digits to remove starting at the "Removal Position	00~12	0
Add Position	This entry defines the position in the number, after digit removal, where the Add Digits are inserted.	01~13	1
CO/IP Group	This entry defines the CO/IP Group that the system will attempt to use for the call.	01-21	1
Alternative DMT Index	This entry defines an Alternate Digit Modification Table Index to use if no path is available in the assigned CO/IP Group.	00~99	
Networking Number Plan Bin	This entry defines the Net Number Plan Table bin that the system will attempt to use for the transit out call.	001-251	
SMDR Code	This only used for TNET with CM. This code will be send to CM when the TNET status is changed from Local survival mode to bypass mode.	Max. 4 digits (Include * and #)	

Table 4.4.9.3-1 LCR DIGIT MODIFICATION

# 4.4.9.4 LCR Table Initialization - PGM 223

Selecting LCR Table In	nitialization will display	the LCR Table	Initialization d	ata entry page,	Figure
4.4.9.4-1.					

PECS ECS eMG80		A	Administration		Maintenanc	e			Change Language	Log
PGM Search		Fav	orite PGM	.CR Tab	le Initializatio	n(223)	×Q			
System ID & Numbering Plans										Initia
Station Data			Attribute		Va	lue		Range		
Board Based Data					Day Zone 1			Must be 6 digits	s	
			DMT		Day Zone 2			Must be 6 digits	s	
CO Line Data					Day Zone 3			Must be 6 digits	s	
System Data			CO Group					01- 21		
			Alternative DM	T Index				00-99		
Station Group Data			All LCR							
ISDN Line Data										
SIP Data										
Tables Data	~									
LCR Control Attribute(220)										
LCR LDT(221)										
LCR DMT(222)										
LCR Table Initialization(223)										
Digit Conversion Table(270)										

Figure 4.4.9.4-1 LCR Table Initialization

The LCR Table Initialization allows global values to be assigned to the various Digit Modification Table entries. In addition, the LCR Leading Digits and LCR Digit Modification Tables can be initialized to the default (no entries) state.

# 4.4.9.5 Digit Conversion Table - PGM 270

Selecting Digit Conversion Table will display the page shown, Figure 4.4.9.5-1.

PGM Search	Favo	orite PGM Digit Conversi	on Table(270) ×				
System ID & Numbering Plans			0				
Station Data		Гаble Number (1 - 15) : ndex Range (1 - 200 ) :		0	oad	l	Sav
Board Based Data		Number 1 Range 1-25					
CO Line Data	Index	Apply Time	Auto Ring Mode Table	Dialed Digit (Max 24 Digits)	Changed Digit (Max 24 Digits)	Apply O	ptior
System Data	1	Unconditional	✓			All	
Station Group Data	2	Unconditional	✓			All	
	3	Unconditional	▼			All	
ISDN Line Data	4	Unconditional	✓			All	
SIP Data	5	Unconditional	✓			All	
SIP Data	6	Unconditional	✓			All	
Tables Data 🗸 🗸 🗸	7	Unconditional	✓			All	
	8	Unconditional	✓			All	
LCR Control Attribute(220)	9	Unconditional	✓			All	
LCR LDT(221)	10	Unconditional	✓			All	
LCR DMT(222)	11	Unconditional	✓			All	
LCR Table Initialization(223)	12	Unconditional	✓			All	
Digit Conversion Table(270)	13	Unconditional	✓			All	
Toll Exception Table(224)	14	Unconditional	✓			All	
Emergency Code Table(226)	15	Unconditional	✓			All	
COS Table	16	Unconditional	<			All	

Figure 4.4.9.5-1 Digit Conversion Table

The Digit Conversion Table index is assigned to the Station and CO line. In addition, digit conversion can be applied according to the Apply Time Type (Unconditional, Day/Night/Timed or LCR/Time) as necessary. Each Table has 200 entries of up to 24 digits. Entries in the Tables can be any digit (0-9), "\*", "#","X" (Mask Digit), "F" (Ignore digit). Each Index can be applied by Apply Option (All/Reserved/CO line/Disable).

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Apply time	The Apply time type to be applied when the dialed digit is dialed.	Unconditional Follow Day/Night/Timed Follow LCR	Unconditional
Auto Ring Mode table	Day/Night/Timed Time Table Index.	00-15	
Dialed digit	Dialed digit to be compared.	Max. 24 Digits	
Changed digit	Changed digit.	Max. 24 Digits	
		AII/	
Apply option	The Apply Option can be applied	Reserved/	A II
Apply option	according to the caller.	CO line/	All
		Disable	

Table 4.4.9.5-1	Digit (	Conversion	table
-----------------	---------	------------	-------

# 4.4.9.6 Toll Exception Table - PGM 224

Selecting Toll Exception Table will display the Toll Table data entry page, Figure 4.4.9.6-1. Select the desired Allow or Deny Table, blue text above the table header, desired.

iPECS iPECS eMG80		Administrat	tion Main	tenance	Change Language	Log Out
PGM Search	F	Favorite PGM	Toll Exception	Table(224) ×		~
System ID & Numbering Plans		lect Table : 🛛	llow A 🔽 🚺 Load	1		Save
Station Data		ble Type : Allo		J		Save
Board Based Data	Inc	dex	Value	Range		
CO Line Data	1			Max 20 Digits (E: Stop, D: Don't Care)		Ê
System Data	2	2		Max 20 Digits (E: Stop, D: Don't Care)		~
Station Group Data	3	}		Max 20 Digits (E: Stop, D: Don't Care)		
ISDN Line Data	4	·		Max 20 Digits (E: Stop, D: Don't Care)		
SIP Data	5	;		Max 20 Digits (E: Stop, D: Don't Care)		
Tables Data 🗸 🗸 🗸	6	j		Max 20 Digits (E: Stop, D: Don't Care)		
LCR Control Attribute(220)	= 7	·		Max 20 Digits (E: Stop, D: Don't Care)		
LCR LDT(221) LCR DMT(222)	8	}		Max 20 Digits (E: Stop, D: Don't Care)		
LCR Table Initialization(223)	g	)		Max 20 Digits (E: Stop, D: Don't Care)		
Digit Conversion Table(270)  Toll Exception Table(224)	1	0		Max 20 Digits (E: Stop, D: Don't Care)		
Emergency Code Table(226)	1	1		Max 20 Digits (E: Stop, D: Don't Care)		

Figure 4.4.9.6-1 Toll Exception Table

There are ten Toll restriction Tables arranged in pairs. Each pair consists of an Allow Table and a Deny Table. Allow and Deny entries for Table `A' apply to Station and DISA Class of Service 2/4 and 11. Allow and Deny entries for Table `B' apply to Station and DISA Class of Service 3/4 and 11. Allow and Deny entries for Table `C' apply to Station and DISA Class of Service 5 and 6. Allow and Deny entries for Table `D' apply to Station and DISA Class of Service 8/10 and 11. Allow and Deny entries for Table `D' apply to Station and DISA Class of Service 9 to 11. Allow and Deny entries for Table `E' apply to Station and DISA Class of Service 9 to 11. The Allow and Deny Tables each permit up to 50 entries of up to 20 digits. Entries in the Tables can be any digit (0-9), "#" as a wild card (don't care) digit, or "\*" as an end of entry digit.

Based on Table entries, stations or DISA users are allowed or denied dialing specified numbers. The following rules apply to establishing restrictions based on the Table entries:

- If the appropriate Allow/Deny Table pair has no entries and COS is 2 to 4, no restrictions are applied. If the COS is 5 or 6, no Long Distance dialing is allowed.
- If entries are only made in the Allow Table, only those numbers entered can be dialed, all other dialed numbers will be restricted.
- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table, the number will be restricted otherwise the number can be dialed without restriction.

# 4.4.9.7 Emergency Code Table - PGM 226

Selecting Emergency Code Table will display the Emergency Code Table data entry page, Figure 4.4.9.7-1.

iPECS iPECS eMG80	Ad	Iministration	М	aintenance	Change Language	Log Out
PGM Search	Favo	rite PGM Em	nergency	Code Table(226) ×		
System ID & Numbering Plans						( <b>0</b> - 11 - 1
Station Data	Index	Value		Range		Save
Board Based Data	1	911		Max 15 Digits (Include E:Stop, D: Don't Care)		
CO Line Data	2			Max 15 Digits (Include E:Stop, D: Don't Care)		
System Data	3			Max 15 Digits (Include E:Stop, D: Don't Care)		
Station Group Data	4			Max 15 Digits (Include E:Stop, D: Don't Care)		
ISDN Line Data	5			Max 15 Digits (Include E:Stop, D: Don't Care)		
SIP Data	6			Max 15 Digits (Include E:Stop, D: Don't Care)		
Tables Data ~	7			Max 15 Digits (Include E:Stop, D: Don't Care)		
LCR Control Attribute(220)	8			Max 15 Digits (Include E:Stop, D: Don't Care)		
LCR DMT(222)	9			Max 15 Digits (Include E:Stop, D: Don't Care)		
LCR Table Initialization(223) Digit Conversion Table(270)	10			Max 15 Digits (Include E:Stop, D: Don't Care)		
Toll Exception Table(224)						
> Emergency Code Table(226)						
COS Table						
Station Authorization Code Table(227)						

Figure 4.4.9.7-1 Emergency Code Table

The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions. An Emergency Code number may be up to fifteen (15) digits in length.

### 4.4.9.8 COS Table

Selecting COS Table will display the COS Table data entry page, Figure 4.4.9.8-1. Assignments for COS are made for the Day, Night, and Timed mode of each station. The level is from 1 to 11.

PECS PECS eMG80	Administration		Maintena	ance
PGM Search	Favorite PGM C	OS Table	×	
System ID & Numbering Plans	Day: N/A 🔽 Night: N	ita 🤜 Ti	med Rin	g: N/A 🔽 🛛 🛛 🕅 Filte
Station Data				
Board Based Data	COS value to change Type : 🔲 Station 🕅 S		'A 🔽 Nij	ght N/A 🔽 Time
CO Line Data	Change	,		
		COS Ta	able	
System Data	Station Number	Day		Timed Ring
Station Group Data		Station	cos	
	100	1	1	1
ISDN Line Data	101	1	1	1
SIP Data	103	1	1	1
Tables Date	104	1	1	1
Tables Data 🛛 🖉 📕	105	1	1	1
LCR Control Attribute(220)	106	1	1	1
LCR LDT(221)	107	1	1	1
LCR DMT(222)	108	1	1	1
LCR Table Initialization(223)	110	1	1	1
Digit Conversion Table(270)	111	1	1	1
Toll Exception Table(224)	112	1	1	1
Emergency Code Table(226)	113	1	1	1
COS Table	114	1	1	1
Station Authorization Code	115	1	1	1
Table(227)	117	1	1	1
System Authorization Code Table(227)	118	1	1	1
CCR Table(228)	119	1	1	1
Executive/Secretary(229)	120	1	1	1
Flexible DID Conversion(231)	121	1	1	1
System Speed Zone(232)	122	1	1	1
Auto Ring Mode Table(233)	123	1	1	1
Voice Mail Dialing Table(234)	125	1	1	1
Registration Table(235)	126	1	1	1
Mobile Extension Table(236)	127	1	1	1
IPCR Agent Table(237)	128	1	1	1
Dummy Dial-Tone Digit Table	129	1	1	1
	130	1	1	1
Networking Data 🗸 🗸	131	1	1	1

Figure 4.4.9.8-1 COS Table

# 4.4.9.9 Authorization Codes Table - PGM 227

There are two kinds of Authorization Code table: System Authorization and Station Authorization Code table as shown in the following Figure.

Selecting Authorization Code Table will display the Authorization Code Table data entry page in Figure 4.4.9.9-1 and Figure 4.4.9.9-2.

PECS eMG80	Administration Maintenance Change Language	Log Out
PGM Search	Station Authorization Code Table(227)	
System ID & Numbering Plans	Enter Station Range : 2 Load	[ <b>2</b> ]
Station Data	Station Range 100-149	Save
Board Based Data	Station Number $\frac{1}{2}$ Authorization Code COS	
	100 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
CO Line Data	101 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
System Data	102 Day 1 🗸 Night 1 🖌 Timed Ring 1 🗸	
	103 Day 1 🗸 Night 1 🖌 Timed Ring 1 🗸	
Station Group Data	104 Day 1 💌 Night 1 💌 Timed Ring 1 💌	
ISDN Line Data	105 Day 1 🗸 Night 1 🖌 Timed Ring 1 🖌	
	106 Day 1 🗸 Night 1 🖌 Timed Ring 1 🖌	
SIP Data	107 Day 1 🗸 Night 1 👻 Timed Ring 1 🔽	
Tables Data v	108 Day 1 💌 Night 1 💌 Timed Ring 1 💌	
Tames Data	109 Day 1 🗸 Night 1 🖌 Timed Ring 1 🖌	
LCR Control Attribute(220)	🗉 110 Day 1 💙 Night 1 👻 Timed Ring 1 💌	
LCR LDT(221)	111 Day 1 👽 Night 1 👻 Timed Ring 1 👽	
LCR DMT(222)	112 Day 1 👽 Night 1 👻 Timed Ring 1 👽	
LCR Table Initialization(223)	113 Day 1 🗸 Night 1 🖌 Timed Ring 1 🗸	
Digit Conversion Table(270)	114 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
Toll Exception Table(224)	115 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
Emergency Code Table(226)	116 Day 1 🗸 Night 1 👻 Timed Ring 1 👻	
COS Table	117 Day 1 V Night 1 V Timed Ring 1 V	
Station Authorization Code	118 Day 1 V Night 1 V Timed Ring 1 V	
Table(227)	119 Day 1 V Night 1 V Timed Ring 1 V	
System Authorization Code		

Figure 4.4.9.9-1 Station Authorization Code Table

PECS PECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM System Authorization Code Table(227)	
System ID & Numbering Plans	Enter System Index Range (1 - 360) :	2 Load Save
Station Data	System Index Range From 1-50	Coad Save
Board Based Data	Index Authorization Code COS	
	1 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
CO Line Data	2 Day 1 🗸 Night 1 🗸 Timed Ring 1 👻	
System Data	3 Day 1 🗸 Night 1 🗸 Timed Ring 1 👻	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
Itation Group Data	5 Day 1 🗸 Night 1 🗸 Timed Ring 1 👻	
3DN Line Data	6 Day 1 🗸 Night 1 🗸 Timed Ring 1 👻	
	7 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
iIP Data	8 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
ables Data v	9 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
ables Data	10 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
LCR Control Attribute(220)	🗉 11 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
LCR LDT(221)	12 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
LCR DMT(222)	13 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
LCR Table Initialization(223)	14 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
Digit Conversion Table(270)	15 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
Toll Exception Table(224)	16 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
Emergency Code Table(226)	17 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
COS Table	18 Day 1 🗸 Night 1 🖌 Timed Ring 1 🗸	j
Station Authorization Code	19 Day 1 🗸 Night 1 🖌 Timed Ring 1 🗸	j
Table(227) System Authorization Code	20 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
Table(227)	21 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	
CCR Table(228)	22 Day 1 🗸 Night 1 🗸 Timed Ring 1 🗸	

Figure 4.4.9.9-2 System Authorization Code Table

Authorization codes are employed to control access to system resources and facilities. Walking COS, CO/IP Group access, DISA calls and certain Call Forward types may require input of a valid Authorization code. Codes up to 12 digits may be entered into the system database.

There are two types of Authorization codes, station and system. The Station entries are associated with individual stations. The number of system Authorization codes varies based on the configuration; the number of available codes is provided in Table 2.1-1. Each Authorization code may be assigned a separate COS for Day, Night and Timed Ring mode operation.

The system will allow the station associated Authorization codes to be duplicated. However, the iPECS will not allow duplicate or conflicting system level codes unless the '\*' and Authorization table indexing is used to enter codes. Conflicting codes occur when a shorter code contains the first digits of a longer code, i.e. 12 conflicts with 1234.

STATION COS	RESTRICTIONS
1	No restrictions are placed on dialing from the station.
2	The assignments in Exception Table A are monitored for allow and deny numbers.
3	The assignments in Exception Table B are monitored for allow and deny numbers.
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.
5	The leading digit dialed cannot be a Long Distance code, default "0", and further denied/allowed based on Exception Table C.
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 8 digits, and further denied/allowed based on Exception Table C.
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.
8	The assignments in the Exception Table D are monitored for allow and deny numbers.
9	The assignments in the Exception Table E are monitored for allow and deny numbers.
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.

#### Table 4.4.9.9-1 STATION CLASS-OF-SERVICE

#### Table 4.4.9.9-2 STATION/CO LINE COS TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 9	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction

#### Table 4.4.9.9-2 STATION/CO LINE COS TOLL RESTRICTIONS

# 4.4.9.10 Customer Call Routing Table - PGM 228

Selecting CCR Table will display the Customer Call Routing data entry page, Figure 4.4.9.10-1.

PECS ECS eMG80	Administration	Maintenance		Change Language
PGM Search	Favorite PGM	CCR Table(228)		
System ID & Numbering Plans	Enter Index (1 - 70) :	Load		
Station Data	Customer Call Routi	ng Table Index 1		
Board Based Data	Attribute	Туре	Value	VMID
	1 Destination	N/A 💌		STA:
CO Line Data	2 Destination	N/A 🗸		STA:
System Data	3 Destination	N/A		STA:
	4 Destination	N/A 🗸		STA:
Station Group Data	5 Destination	N/A		STA:
ISDN Line Data	6 Destination	N/A 🗸		STA:
	7 Destination	N/A		STA:
SIP Data	8 Destination	N/A 💌		STA:
Fables Data v	9 Destination	N/A 💌		STA:
and bata	0 Destination	N/A 💌		STA:
LCR Control Attribute(220)	Busy Destination	ATD 💌		
LCR LDT(221)	Error Destination	ATD 💌		
LCR DMT(222)	NoAns Destination	ATD 💌		
LCR Table Initialization(223)	CCR 1 Digit Only	OFF 💌		
Digit Conversion Table(270)				
Toll Exception Table(224)				
Emergency Code Table(226)				
COS Table				
Station Authorization Code Table(227)				
System Authorization Code Table(227)				
CCR Table(228)				
Executive/Secretary(229)				
Flexible DID Conversion(231)				

Figure 4.4.9.10-1 Customer Call Routing Table

The system incorporates IVR (Interactive Voice Response) capabilities called CCR (Customer Call Routing). After, or during a VSF Announcement, the caller may dial digits to select a destination or route for the call. The CCR Table defines the destination type and value associated with the digit dialed by the caller in response to the index, a VSF Announcement (01-70). Up to 70 single-level Audio Text menus may be assigned or, multi-level menu structures (maximum 70 levels) can be established using one menu as a destination for the previous level.

Each CCR announcement can have re-route destination – Busy / Error / No Answer case. Each re-routed destination types are Tone / Attendant / Hunt Group / VSF Announcement number.

CCR 1 Digit Only option is set to ON, outside user can dial only one digit.

This option is set to OFF, outside user can dial more than one digit, and follow CCR Inter digit Timer.

TYPE	DESCRIPTION
01	Route to a Station
02	Route to a Hunt Group
03	Route with System Speed Dial
04	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)
05	Route to VSF Announcement
06	Route to VSF Announcement and disconnect
07	Route to Networked Station
08	Conference Room
09	Internal Page
10	External page
11	All Call Page
12	Route to voice mail (station group/station number)
13	Company Directory (USA Only)
14	Record VM Greeting (USA Only)

Table 4.4.9.10-1 CCR DESTINATIONS (	PGM 228)

# 4.4.9.11 Executive/Secretary Table - PGM 229

Selecting Executive/Secretary will display the Executive/Secretary Table data entry page, Figure 4.4.9.11-1.

PECS ECS eMG80		Administration Maintenance Change La				anguage			
PGM Search	Favorite	Favorite PGM Executive/Secretary(229) ×							
System ID & Numbering Plans	Index	Executive	Secretary	CO Call To Sec	Call Exec. If Sec. D	ND Exec Grad	de ICM Call To Sec	Sec. Auto Ane	Evec Group
Itation Data	1	LYECUUVE	Secretary	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
	2			Disable 🗸	Disable 🔽	12	Disable 🗸	Disable 🗸	0
Board Based Data	3		1	Disable 🗸	Disable 🔽	12	Disable 🗸	Disable 🗸	0
:O Line Data	4		1	Disable 🖌	Disable 🖌	12	Disable 💌	Disable 🛩	0
	5		1	Disable 🖌	Disable 💌	12	Disable 💌	Disable 💌	0
ystem Data	6		1	Disable 🗸	Disable 🖌	12	Disable 🛩	Disable 🗸	0
Station Group Data	7		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
the croop bana	8		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
SDN Line Data	9		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
IP Data	10		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
	11		1	Disable 🗸	Disable 🖌	12	Disable 🗸	Disable 🗸	0
ables Data 🗸 🗸	12		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
	13			Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
CR Control Attribute(220)	14			Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
CR LDT(221)	15		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
CR DMT(222)	16		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
CR Table Initialization(223)	17			Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
Digit Conversion Table(270)	18		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
Toll Exception Table(224) Emergency Code Table(226)	19		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
COS Table	20		1	Disable 🗸	Disable 🖌	12	Disable 🗸	Disable 🗸	0
Station Authorization Code	21			Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
Table(227)	22		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
Bystem Authorization Code	23		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
able(227)	24			Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
CCR Table(228)	25		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
Executive/Secretary(229)	26		1	Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
Flexible DID Conversion(231)	27			Disable 🗸	Disable 🗸	12	Disable 🗸	Disable 🗸	0
System Speed Zone(232)	28			Disable 🐱	Disable 🐱	12	Disable 🗸	Disable 🖌	0

Figure 4.4.9.11-1 Executive/Secretary Table

Stations can be paired as Executive/Secretary pairs so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have only one Secretary however, a Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another however, assignments that form a loop-back are not allowed. In addition, when active, the Secretary can be assigned to receive the Executive's voice messages, refer to Common Attributes section 4.4.2.2.

The "CO Call to Sec" option will route all CO calls to the Executive to the defined Secretary's station regardless of the Executive's station status. The "Call Exec if Sec DND" option will route Executive calls back to the Executive if the Secretary is in DND. The Exec Grade permits higher grade Executives to override the Executive/Secretary Forward feature to call a lower grade Executive (Korea only). The highest grade is 1 and the lowest grade is 12. The "ICM Call to Sec" option will route all internal calls to the Executive(except for calls from higher or same grade executive) to the defined Secretary's station regardless of the Executive's station status.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Executive	Assign Executive.		
Secretary	Assign Secretary.		
	If desired, all incoming CO calls to the		
CO Call to Secretary	Exec. The call is routed to the Secretary's	Enable/	Disable
CO Call to Secretary	station regardless of the Executive's	Disable	Disable
	status.		
Call Executive if Secretary is in	If the Secretary is in DND, Executive calls	Enable/	Disable
DND	can be routed back to the Executive.	Disable	Disable
	Higher (or equal) grade Executives can		
	override the Executive/Secretary Forward		
Executive grade	feature (5 <sup>th</sup> : ICM call to SEC) to call a	01~12	12
	lower grade Executive. Highest grade: 01,		
	Lowest grade: 12.		
	If this option is ON, all internal calls to the		
	executive station (except for calls from		
	higher or same grade executive) are		
	routed to the Secretary's station regardless	Enable/	
ICM Call to Secretary	of the Executive's status.	Disable	Disable
	8801 Default value	Disable	
	Korea, India, Israel, Turkey,		
	Thailand : ON		
	Otherwise : OFF		
	When executive call to the secretary who		
Secretary Auto Answer	is in 'T' mode.	Enable/	Disable
	The call will be answered by hands free	Disable	Diodolo
	mode if it is ON.		
	If Group is greater than 1, it works that		
Executive Group	lower grade executive can call to higher	00-50	00
	grade executive directly when they are	00 00	
	same group.		

Table 4.4.9.11-1 Executive/Secretary Table
--

Issue 1.1

### 4.4.9.12 Flexible DID Conversion Table - PGM 231

Selecting Flexible DID Conversion Table will display the Flexible DID Table data entry page, Figure 4.4.9.12-1.

iPECS iPECS eMG80	A	dminist	ration	Maintenance						С	hange Language	e Lo	ig Out
PGM Search	Favo	rite PG	M Flexible [	)ID Conversion(	231) <mark>x</mark> C	1							
System ID & Numbering Plans	Enter l	ndex R	ange (0 - 9999)				6	2 Load				ſ	Save
Station Data	Index F	Range '	1									All Table	e Data
Board Based Data	Chec	k All	Attrit	ute		Туре		Value	VMID		Delete	All Table	e Data
			Day Ring Mode	Destination	N/A		~		STA:				
CO Line Data			Night Ring Mod	le Destination	N/A		~		STA:				
System Data			Timed Ring Mo	de Destination	N/A		~		STA:				
			Reroute Destin	ation	N/A		~		STA:				
Station Group Data			ICLID Table Us	age	OFF N	1				_			
ISDN Line Data			ICM Tenancy G (Auto Ring Mod		0 🗸								
SIP Data			МОН		Refer	To CO Hold 🔽							
			Ring Tone		0			0-12 (0:N/A)					
Tables Data ~			Name										
LCR Control Attribute(220)													
LCR LDT(221)	Index	Day	/ Ring Mode	Night Ring I	Node	Timed Ring Mode		Reroute	ICLID Table	ICM Tenancy Group (Auto Ring Mode	МОН	Ring	Name
LCR DMT(222)	Index	D	estination	Destinati	on	Destination	C	Destination	Usage	(Auto King Mode Table)	MOH	Tone	name
LCR Table Initialization(223)	1	N/A		N/A		N/A	N	IA.	OFF	0	Refer To CO	0	
Digit Conversion Table(270)	· ·	19075		1905		1925	142	~	OFF	0	Hold	0	
Toll Exception Table(224)													
Emergency Code Table(226)													
COS Table													
Station Authorization Code Table(227)													
System Authorization Code Table(227)													
CCR Table(228)													
Executive/Secretary(229)													
> Flexible DID Conversion(231)													
System Speed Zone(232)													
,	<b>F</b> 1			40.4 5						1-			

Figure 4.4.9.12-1 Flexible DID Conversion Table

When the received DID digits are converted, the resulting three-digit number may be used as an index to the Flexible DID Conversion Table. The Flexible DID Table index is used when DID Line is assigned a Conversion type 2, refer to the DID Service attributes section 4.4.4.6. Using the index from the digit conversion a destination for the DID call is determined by a Look-up in the Flexible DID Table. The destination for the call is generally defined as a type and a value. The type selects options such as station, station group, VSF, etc. The value specifies the particular station, station group, etc. In addition, ICLID routing can be enabled for DID lines or can be assigned as an index to the Auto Ring Mode table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Day Ring Mode Destination	Destination setting for Day Ring mode.	N/A	N/A
Night Ring Mode Destination	Destination setting for Night Ring mode.	STA	N/A
Timed Ring Mode Destination	Destination setting for Timed Ring mode.	HUNT Group	N/A
Reroute Destination	Destination setting for Reroute Ring mode.	SPD	N/A
		PABX	
		VSF	
		VSF(#)	
		Net Station	
		Company Directory-	
		Last Name	

#### Table 4.4.9.12-1 FLEXIBLE DID CONVERSION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		INT Page	
		EXT Page	
		ALL Page	
		VM	
		ICLID Table	
		Company Directory	
		Record VM Greeting	
ICLID Table	Use ICLID Routing, section 4.4.7.4.	OFF/ON	OFF
ICM Tenancy Group	A DID Conversion Table Index can be	Table Index(0~15)	0
(Auto Ring Table)	assigned to employ an Auto ring mode		
	table as below:		
	- 01 Route to a Station.		
	- 02 Route to a Hunt Group.		
	- 03 Route with System Speed Dial.		
	- 04 Route as PBX Transfer with System		
	Speed Dial (Flash then dial speed		
	dial digits).		
	- 05 Route to VSF AA Announcement.		
	- 06 Route to VSF AA Announcement and		
	disconnect.		
	- 07 Route to a Networking Station.		
	- 08 Conference Room.		
	- 09 Internal Page.		
	- 10 External page.		
	- 11 All Call Page.		
	- 12 Voice Mail Box Group.		
	Voice Mail Box Station.		
	- 13 ICLID Ring Assignment Table.		
	- 14 Company Directory (USA Only).		
МОН	- 15 Record VM Greeting (USA Only).	Internal Music	Refer to CO
	A Music source is assigned so that calls to the destination receive audio from the	External Music	Hold
			Πυία
	source in place of ring-back tone.	VSF MOH	
		SLTMOH1~5	
Ding Tono	Ding tone of destinction is followed this	VSFMOH2~3	0
Ring Tone	Ring tone of destination is followed this	0-12	0
Nama	ring tone value.	11 ab a t	
Name	Name associated with the destination	11 characters	

#### Table 4.4.9.12-1 FLEXIBLE DID CONVERSION

# 4.4.9.13 System Speed Zone Table - PGM 232

Selecting System Speed Zone will display the System Speed Zone data entry page, Figure 4.4.9.13-1.

PECS PECS eMG80	A	dministration Maintena	nce	Change Language	Lo
PGM Search	Favo	orite PGM System Speed Zon	e(232) ×		
System ID & Numbering Plans			~		_
Station Data	1	-			Sa
	Index	Feature Speed Bin Range In Zone	Value 2200 - 4999		
Board Based Data		Station Range to Access Zone			
CO Line Data	1	_	100 - 239		
		Toll Checking Auth Checking			
System Data		Speed Bin Range In Zone			
Station Group Data		Speed Bin Range in Zone Station Range to Access Zone			
	2	Toll Checking	OFF 🗸		
SDN Line Data		Auth Checking	OFF V		
SIP Data		Speed Bin Range In Zone			
		Station Range to Access Zone			
Tables Data 🗸 🗸	3	Toll Checking	OFF 🗸		
LCR Control Attribute(220)		Auth Checking	OFF V		
LCR LDT(221)		Speed Bin Range In Zone			
LCR DMT(222)		Station Range to Access Zone			
LCR Table Initialization(223)	4	Toll Checking	OFF 🗸		
Digit Conversion Table(270)		Auth Checking			
Toll Exception Table(224)		Speed Bin Range In Zone	-		
Emergency Code Table(226)		Station Range to Access Zone			
COS Table	5	Toll Checking	OFF 🗸	4	
Station Authorization Code		Auth Checking	OFF V		
Table(227)		Speed Bin Range In Zone	-		
System Authorization Code Table(227)		Station Range to Access Zone			
CCR Table(228)	6	- Toll Checking	OFF 🔽	-	
Executive/Secretary(229)		Auth Checking	OFF 🔽		
Flexible DID Conversion(231)		Speed Bin Range In Zone			
System Speed Zone(232)	_	Station Range to Access Zone	-		
Auto Ring Mode Table(233)	7	Toll Checking	OFF 💌		
·····		Auth Chaoling			

Figure 4.4.9.13-1 System Speed Zone

System Speed Dial Bins assigned to a zone are only available to stations allowed access to that zone. Each zone can be assigned to apply the appropriate Station and CO Line COS for the speed dial number prior to dialing.

### 4.4.9.14 Auto Ring Mode Table - PGM 233

Selecting Auto Ring Mode Table will display the Auto Ring Mode Table data entry page, Figure 4.4.9.14-1.

iPECS iPECS eMG80	Administ	ration Maintena	ince	Change La	anguage Log	Out
PGM Search	Favorite PG	M Auto Ring Mode Ta	ble(233)	×		×
System ID & Numbering Plans	Enter Index (0	- 15)		ad	Save	- ·
Station Data					[ Dave	: -
Board Based Data	Week	e Table Index 1 Index	Value	Range		
CO Line Data		Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359		
System Data	Mandau	Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359		
Station Group Data	Monday	Timed Ring Start Time		Must be 4 Digits(hhmm) 0000-2359		
ISDN Line Data		Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359		
SIP Data		Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359		
Tables Data 🗸 🗸 🗸	Tuesday	Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359		
LCR Control Attribute(220)	Tuesday	Timed Ring Start Time		Must be 4 Digits(hhmm) 0000-2359		
LCR LDT(221) LCR DMT(222)		Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359		
LCR Table Initialization(223)		Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359		
Digit Conversion Table(270) Toll Exception Table(224)	Wednesday	Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359		
Emergency Code Table(226) COS Table	vveunesüdy	Timed Ring Start Time		Must be 4 Digits(hhmm) 0000-2359		
Station Authorization Code Table(227)		Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359		
System Authorization Code Table(227)		Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359		
CCR Table(228)		Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359		
Executive/Secretary(229)	Thursday	Timed Ring Start Time		Must be 4 Digits(hhmm)		
Flexible DID Conversion(231)				0000-2359 Must be 4 Digits (hhmm)		
System Speed Zone(232)		Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359		
Auto Ring Mode Table(233) Voice Mail Dialing Table(234)		Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359		

Figure 4.4.9.14-1 Auto Ring Mode Table

The system can be programmed to automatically select the Ring and COS based on time of day and day of the week. Three Ring & COS modes are available, Day, Night, and Timed. The Ring assignments are as defined in CO Ring Assignments, section 4.4.4.5. COS assignments are made in the Station COS and DISA COS programs discussed in sections 4.4.2.6 and 4.4.5.6, respectively.

The start times for Day, Night and start and end times for Timed modes are entered for each day of the week. After the Timed end time the mode returns to day if time is not in the Night mode. The Attendant can override the Automatic selection and select the desired mode (Day, Night, and Timed) manually. A separate Auto Ring Table can be established for each ICM Tenancy Group in section 4.4.2.15 (indices 1 ~ 15) and for the system (index 00).

## 4.4.9.15 Voice Mail Dialing Table - PGM 234

Selecting Voice Mail Dialing Table will display the Voice Mail Dialing data entry page, Figure 4.4.9.15-1.

	Administration	Maintenance	Change Languag
1 Search			
	Favorite PGM Voice N	lail Dialing Table(234)	2
tem ID & Numbering Plans			
ation Data	Index	Value	Range
ard Based Data		Prefix :	Max 12 Digits (Include*,#,P,D,F)
	Voice Mail 1 (Put)	Suffix:	P : Pause, D : DND, F : Flash
) Line Data	Voice Mail 2 (Get)	Prefix :	Max 12 Digits (Include*,#,P,D,F)
tem Data	voice wall 2 (Gel)	Suffix :	P : Pause, D : DND, F : Flash
	Voice Mail 3 (Busy)	Prefix :	Max 12 Digits (Include*,#,P,D,F)
ation Group Data	voice mail 3 (Duby)	Suffix :	P : Pause, D : DND, F : Flash
DN Line Data	Voice Mail 4 (No Answer)	Prefix :	Max 12 Digits (Include*,#,P,D,F)
		Suffix :	P : Pause, D : DND, F : Flash
9 Data	Voice Mail 5 (Error)	Prefix :	Max 12 Digits (Include*,#,P,D,F)
les Data 🗸 🗸		Suffix :	P : Pause, D : DND, F : Flash
	Voice Mail 6 (DND)	Prefix :	Max 12 Digits (Include*,#,P,D,F)
R Control Attribute(220)	=	Suffix :	P : Pause, D : DND, F : Flash
R LDT(221)	Voice Mail 7	Prefix :	Max 12 Digits (Include*,#,P,D,F)
R DMT(222)		Suffix :	P : Pause, D : DND, F : Flash
CR Table Initialization(223)	Voice Mail 8	Prefix :	Max 12 Digits (Include*,#,P,D,F)
igit Conversion Table(270)		Suffix:	P:Pause, D:DND, F:Flash
oll Exception Table(224) mergency Code Table(226)	Voice Mail 9 (Disconnect)		Max 12 Digits (Include*,#,P,D,F) P : Pause, D : DND, F : Flash
OS Table			
Station Authorization Code			
System Authorization Code Table(227)			
CR Table(228)			
ecutive/Secretary(229)			
ible DID Conversion(231)			
tem Speed Zone(232)			
uto Ring Mode Table(233)			
ice Mail Dialing Table(234)			
Registration Table(235)			

Figure 4.4.9.15-1 External Voice Mail Dialing Table

When an external Voice Mail system is used that connects to an SLT port, a digit sequence must be defined for the system to signal various call characteristics to the Voice Mail system. The external Voice Mail uses the sequences to determine appropriate announcements or further call routing. The Table permits the definition of digits as either a prefix or suffix to other digits (station number for mailbox identification). Sequences are defined for such call characteristics as Put Mail, Get Mail, No Answer call, etc. as described in Table 4.4.9.15-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Voice Mail 1 (Put)	Code to send when the voice mail is to receive call to record a message. Put Mail When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	P#
Voice Mail 2 (Get)	Code to send when the voice mail is to playback a recorded message. Get Mail When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	P##
Voice Mail 3 (Busy)	Code to send when the voice mail is to receive a call when the user is busy. Busy Mail When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	P#*3P
Voice Mail 4 (No Answer)	Code to send when the voice mail is to receive a call when the user did not answer. No Answer Mail When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	P#*4P
Voice Mail 5 (Error)	Code to send when the voice mail is to receive a call when a user dialing error exists. Error Mail When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	P#*5P
Voice Mail 6 (DND)	Code to send when the voice mail is to receive a call when the user is in DND. DND Mail When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	P#*6P
Voice Mail 7	When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 8	When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 9 (Disconnect)	Code for disconnect call. Disconnect Mail When you enter the Digit, the following Digit means as below: P : Pause, D : DND, F : Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	****

Table 4.4.9.15-1 VOICE MAIL DIAL FUNCTIONS

# 4.4.9.16 Registration Table & Fractional Module Table - PGM 235

Selecting Registration Table will display the Registration data entry page, Figure 4.4.9.16-1.

PECS S eMG80		Administrat	ion	Mainter	nance	Change Language
M Search	Fa	vorite PGM	Regis	tration Tabl	e(235) ×	
stem ID & Numbering Plans					0	
tion Data	Inde	X MAC A	drace	Mavimum	Port Device ID	
ard Based Data	1	000000				
	2	000000		0	0	
) Line Data	3	000000		0	0	
terre Dette	4	000000		0	0	
tem Data	5	000000		0	0	
on Group Data						
I Line Data						
Data						
s Data 🗸 🗸						
R Control Attribute(220)						
R LDT(221)						
DMT(222)						
R Table Initialization(223)						
it Conversion Table(270)						
II Exception Table(224)						
mergency Code Table(226)						
)S Table						
ation Authorization Code ble(227)						
stem Authorization Code Ible(227)						
R Table(228)						
utive/Secretary(229)						
ble DID Conversion(231)						
tem Speed Zone(232)						
Ring Mode Table(233)						
ice Mail Dialing Table(234)						
egistration Table(235)						

Figure 4.4.9.16-1 MAC Registration Table

When multiple iPECS eMG80 are located on the same LAN, it may be desirable to register addon devices employing the Registration Table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MAC Address	Enter MAC address of a device to register		000000000000000000000000000000000000000
Maximum Port	Enter maximum number of ports (channels) for the device.	00-99	00
Device ID	Device type for internal device	0-255	0

#### Table 4.4.9.16-1 MAC REGISTRATION & FRACTIONAL MODULE

## 4.4.9.17 Mobile Extension Table - PGM 236

Selecting Mobile Extension Table will display the Mobile Extension data entry page, Figure 4.4.9.17-1. Select the Station Order range desired, blue text above the table header. Selecting the blue colored text in the Table header will sort the table based on the selected column.

PECS ECS eMG80		Administratio	initi M	antenance											Change L	unguage Log Out
оученточна	A.			_												
Station Group Data		Favorite PGM	Mobile Exter	maion Table	236) ×											
ISDN Line Data		Enter Station Ran	te :			E Los	ন									Save
SIP Data							~									Sare
Tables Data	~	Station Range 10	PGM Auth	Usage	Hunt Call Enable	NET LEND MODEL		y Retry Interval	Notify CLI	Call Dack		Announcement	CO Group	Telephone Number	CLI Number	Suffix DID Thi To CL
							(1.9)	(1.3 min)			(0-255)	(0.70)	coursup	response masses	CLI MADILM	
LCR Control Attribute(220)		100	Disable 🧐	Disable	😸 Disable 💌	Unused 💌	3	3	Caller 💌	OFF 💌	0	0	1			OFF 💌
LCR LDT(221)		101	Disable 💌	Disable	💓 Disable 💌	Unuted 💌	3	3	Caller 💌	OFF 💌		0	1			OFF 🛩
LCR DMT(222)		102	Disable 👻	Disable	👻 Disable 🖌	Unused 🛩	3	3	Caller 😪	OFF 🗸	0	0	t			OFF 💌
LCR Table Initialization(223)		103	Disable 🤜	Disable	😸 Disable 💌	Unuced 🤜	3	3	Caller M	OFF 💌	0	0	1			OFF 🕶
Digit Conversion Table(270)		104	Disable 💌	Disable	😴 Disable 💌	Unused 💌	3	3	Caller 🛃	OFF 💌	0	0	1			OFF
Toll Exception Table(224)		105	Disable 🐱	Disable	🖌 Disable 🖌	Unused 🛩	3	3	Caller 🛩	OFF 🛩	0	0	1			OFF 🐱
Emergency Code Table(226)		106	Disable 💌	Disable	💌 Disable 💌	Unuced	3	3	Caller M	OFF -	0	0	1.			OFF M
COS Table		107	Disable 🐱	Disable	Cisable 💌	Unuted 💌	3	3	Caller 🐱	OFF -	0	0	1			OFF
Station Authorization Code Table(227)		108	Disable 🛩	Disable	<ul> <li>Disable </li> </ul>	Unused 🛩	3	2	Caller 🖌	OFF -	0	0	1			OFF -
System Authorization Code		109	Disable 💌	Disable	Disable .	Unused w	3	3	Catter M	OFF -	0	0	1			OFF W
Table(227)		110	Disable 🐱	Disable	Cisable -	Unused 🛩	3	.3	Caller 🛩	OFF -	0	n	1			OFF ¥
CCR Table(228)					and the half say for the ball	L. heteroksolvit, Alle	1. Second and	1. Second second			S. Service and S.	C.			1	all history and
Executive/Secretary(229)																
Flexible DID Conversion(231)																
System Speed Zone(232)																
Auto Ring Mode Table(233)																
Voice Mail Dialing Table(234)																
Registration Table(235)																
Mobile Extension Table(236)																
IPCR Agent Table(237)																
Dummy Dial-Tone Digit Table																
country bias i one bigh Table																

Figure 4.4.9.17-1 Mobile Extension Table

A mobile phone can be used in conjunction with an iPECS Phone. The Mobile phone can access system resources available to the user's wired phone and will receive ring for incoming iPECS calls. The user may be allowed to enable the Mobile extension and define the mobile number. The system can be defined to employ a specific CO/IP Line Group to place calls to the Mobile phone. In addition, the mobile phone can be assigned to receive hunt group calls to the primary extension. Also, parameters for notification of new VSF voice mails can be defined.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PGM Authority	The user may be allowed to activate the mobile extension feature.	Disable Enable	Disable
Usage	Mobile extension feature can be enabled and Fail Over to Mobile extension can be included.	Disable Mobile Ext Fail Over	Disable
Hunt Call Enable	When the paired station is a member of a hunt group (ACD, Circular, Ring or Terminal), group calls can be sent to the active mobile extension.	Disable Enable	Disable
VSF/VMIB Notify	Enables outbound notification by the system when the VMIB/VMIU has unheard messages.	Unused Use	Unused
Notify Retry	Defines the number of attempts the system will make to complete a notification when receiving busy/no-answer.	1 – 9 Times	3 Times
Retry Interval	Defines the time between notification attempts. If a notification fails, the system will retry after the timer expires.	1 – 3 Times	3 Minute
Notify CLI	When the system sends CLI to the mobile extension, the CLI can be either the original caller's CLI or the CLI of station.	Caller My Ext.	Caller

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call Back	If it is set to "ON", incoming mobile extension call will be released before answered and system places a call to mobile extension. After mobile extension answers, the dial tone is provided and mobile extension can make internal or external call.	OFF ON	OFF
Delay Timer	Mobile extension call will be placed after delay time.	0 ~ 255	0
Announcement	It can be announced for remote control.	0-70	0
CO Group	CO group used to call the mobile extension.	01~20	
Telephone Number	Telephone number or CLI of the Mobile extension.		Not assigned
CLI Number	When the mobile Telephone number and CLI do not match, the CLI entered here is used to authorize incoming calls from the mobile.		Not assigned
Suffix DID table index to the CLI	For the outgoing mobile extension call from incoming CO call via DID conversion type 2, DID conversion table index is suffixed to the original CLI. (format: 'original CLI' + '*' + 'Flexible DID Table Index')	OFF/ON	OFF

## 4.4.9.18 IPCR Agent Table - PGM 237

Selecting IPCR Agent Table will display the IPCR Agent data entry page, Figure 4.4.9.18-1. Select the Index and Agent ID Order range desired, blue text above the table header. Selecting the blue colored text in the Table header will sort the table based on the selected column.

	Adm	inistration	Maintena	nce	Change Language Log Out			
	^							
PGM Search	Favorite	PGM IPCR	Agent Table(2	37) ×				
System ID & Numbering Plans	Entortho	number of IDOE						
Station Data		Enter the number of IPCR Server (1 - 10) : Sa Enter the Agent Order (1 - 140) : Coad						
Board Based Data	IPCR Nur Agent Ord							
CO Line Data	IPCR Age	nt License : 0 /	Total(0)					
System Data	Index <u></u> <u></u> <sup>a</sup>	Agent ID ≟ª	Object Type	Linked Object				
Station Group Data	1	(ACR)	N/A 💌					
· · · · · · · · · · · · · · · · · · ·	2	(ACR)	N/A 💌					
ISDN Line Data	3	(ACR)	N/A 💌					
SIP Data	4	(ACR)	N/A 💌					
	5	(ACR)	N/A 🔽					
Tables Data 🗸 🗸	6	(ACR)	N/A 🔽					
LCR Control Attribute(220)	7	(ACR)	N/A 🔽					
LCR LDT(221)	8	(ACR)	N/A 💌					
LCR DMT(222)	9	(ACR)	N/A 🔽					
LCR Table Initialization(223)	10	(ACR)	N/A 🔽					
Digit Conversion Table(270)	11	(ACR)	N/A 🔽					
Toll Exception Table(224)	12	(ACR)	N/A 💌					
Emergency Code Table(226)	13	(ACR)	N/A 💌					
COS Table	14	(ACR)	N/A 🔽					
Station Authorization Code	15	(ACR)	N/A 🔽					
Table(227)	16	(ACR)	N/A 🔽					
System Authorization Code	17	(ACR)	N/A 🔽					
Table(227)	18	(ACR)	N/A 🔽					
CCR Table(228)	19	(ACR)	N/A 🔽					
Executive/Secretary(229)	20	(ACR)	N/A 💌					
Flexible DID Conversion(231)	21	(ACR)	N/A 💌					
System Speed Zone(232)	22	(ACR)	N/A 🔽					
Auto Ring Mode Table(233)	23	(ACR)	N/A 🔽					
Voice Mail Dialing Table(234)	24	(ACR)	N/A 💌					
Registration Table(235)	25	(ACR)	N/A 💌					
Mobile Extension Table(236)								
> IPCR Agent Table(237)								
Dummy Dial-Tone Digit Table								

Figure 4.4.9.18-1 IPCR Agent Table

This table used for matching agent ID to station number. If it's done, the station with agent ID is automatically recorded about internal, external and conference call.

# 4.4.9.19 Dummy Dial-Tone Digit Table

Selecting Dummy Dial-Tone Digit Table will display the Dummy Dial-Tone Digit data entry page, Figure 4.4.9.19-1.

PECS ECS eMG80	Adminis	stration	Maintenance	Change Language	.og
PGM Search			v Dial Tana Digit Tabla X		
	Favorite P	GM Dummi	y Dial-Tone Digit Table C		
System ID & Numbering Plans					S
Station Data	Index	Value	Range		_
Board Based Data	1	<b>Fundo</b>	Max 6 Digits ('0~9',*',#','X')		
	2		Max 6 Digits ('0~9',*',#','X')		
CO Line Data	3		Max 6 Digits ('0~9',*',#','X')		
System Data	4		Max 6 Digits ('0~9',*',#','X')		
system Bata	5		Max 6 Digits ('0~9',*',#','X')		
Station Group Data	6		Max 6 Digits ('0~9',*',\#','X')		
SDN Line Data	7		Max 6 Digits ('0~9',*',#','X')		
	8		Max 6 Digits ('0~9',*',#','X')		
SIP Data	9		Max 6 Digits ('0~9',*',#','X')		
	10		Max 6 Digits ('0~9',*',#','X')		
Tables Data 🗸 🗸 🗸	11		Max 6 Digits ('0~9',*',#','X')		
LCR Control Attribute(220)	= 12		Max 6 Digits ('0~9',*',#','X')		
LCR LDT(221)	13		Max 6 Digits ('0~9',*',#','X')		
LCR DMT(222)	14		Max 6 Digits ('0~9',*',#','X')		
LCR Table Initialization(223)	15		Max 6 Digits ('0~9',*',\#','X')		
Digit Conversion Table(270)	16		Max 6 Digits ('0~9',*',#','X')		
Toll Exception Table(224)	17		Max 6 Digits ('0~9',*',#','X')		
Emergency Code Table(226)	18		Max 6 Digits ('0~9',*',#','X')		
COS Table	19		Max 6 Digits ('0~9',*',\#','X')		
Station Authorization Code Table(227)	20		Max 6 Digits ('0~9',*',#','X')		
System Authorization Code Table(227)					
CCR Table(228)					
Executive/Secretary(229)					
Flexible DID Conversion(231)					
System Speed Zone(232)					
Auto Ring Mode Table(233)					
Voice Mail Dialing Table(234)					
Registration Table(235)					
Mobile Extension Table(236)					
IPCR Agent Table(237)					
Dummy Dial-Tone Digit Table					

Figure 4.4.9.19-1 Dummy Dial-Tone Digit Table

When digit conversion is programmed, the CO line is seized after digit conversion is completed and therefore user cannot hear the CO dial tone from PX until completing digit conversion. For this case, a dummy dial tone can be programmed. Pressing one of pre-programmed digits ('0–9', '\*', '#', X') will provide CO dial tone to the user regardless of CO line seizure.

# 4.4.10 Networking Data

Selecting the Networking Data program group returns the sub-menu displayed in the left frame as shown in Figure 4.4.10-1.

iPECS eMG80	Administration Maintenance	Change I	_anguage	Log Out
PGM Search	Favorite PGM			
System ID & Numbering Plans	10 20 25 30			
Station Data				
Board Based Data	Common Attributes(111) Station Group Attributes(191)		8	10
CO Line Data	CO Call Rerouting(252) Station Group Assignment(190)	7		
System Data	COMP Ring Assignment(144) Station Type(110)	6 6		
Station Group Data	SIP CO Attributes(133) 5 CLI Attributes(113) 5			
ISDN Line Data	Flex Buttons(115/129) 5			
SIP Data	Common Attributes(140) 5			
Tables Data				
Networking Data $\vee$				
Net Basic Attributes(320) Net Supplementary Attr(321) Net CO Line Overview Net CO Line Attributes(322) Net Numbering Plan Overview Net Numbering Plan(324) Net Feature Code Table(325)				
Zone Data				
Device Login				
DECT Data				
Green Mode				
Initialization				

Figure 4.4.10-1 Networking Data

### 4.4.10.1 Network Basic Attributes - PGM 320

Selecting Network Basic Attributes will display the Network Basic Attributes entry page, Figure 4.4.10.1-1.

PECS ECS eMG80	Adm	inistration	Maintenance		Change Language Log O
PGM Search	Favorit	PGM Net I	Basic Attributes(320)	×	
System ID & Numbering Plans					Sa
Station Data	Δ	tribute	Value	Range	
Board Based Data	Net Ena		OFF 🗸	runge	
	NET Re	try Count	0	00-99	
CO Line Data	NET CI	IIP Enable	ON 🔽		
System Data	NET CO	NP Enable	OFF 💙		
•	NET SI	nal Method	Facility 💌		
Station Group Data	NET Ca	s Enable	OFF 🐱		
ISDN Line Data	NET VF	N Enable	OFF 💌		
	NET CO	Retain Mode	OFF 💌		
SIP Data					
Tables Data					
Networking Data	~				
Net Basic Attributes(320)					
Net Supplementary Attr(321)					
Net CO Line Overview					
Net CO Line Attributes(322)					

Figure 4.4.10.1-1 Network Basic Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Enable	Enable Networking function.	OFF ON	OFF
Net Retry Count	Reserved for future usage.	00-99	0
Net CNIP Enable	The name of calling station is sent to the called system between iPECS eMG80. CNIP is displayed at called party stations display based on the programming.	OFF ON	ON
Net CONP Enable	Reserved for future usage.	OFF ON	OFF
Net Signal Method	Select the information element type for QSIG supplementary service message.	UUS/ Facility	Facility
Net Cas Enable	It is not used.	OFF ON	OFF
Net VPN Enable	Reserved for future usage.	OFF ON	OFF
Net CC Retain Mode	It is not used.	OFF ON	OFF

#### Table 4.4.10.1-1 NETWORK BASIC ATTRIBUTES

### 4.4.10.2 Network Supplementary Attributes - PGM 321

Selecting Network Supplementary Attributes will display the Network Supplementary Attributes entry page, Figure 4.4.10.2-1.

PECS PECS eMG80		Administration	Maintenance		Cha
PGM Search		Favorite PGM Net Sup	pplementary Attr(321)	×	
System ID & Numbering Plans					
Station Data		Attribute	Value	Range	
Board Based Data		Net Transfer Mode	REROUT 🔽		
		TCP Port For BLF	9500	9500-9999	
CO Line Data		UDP Port For BLF	9501	9500-9999	
System Data		BLF Manager IP Address			
		Duration of BLF State	10	01-99(100ms)	
Station Group Data		Multicast IP Address			
SDN Line Data		Net Trans RCL Timer	10	001-300(sec)	
		Net Reroute CO Group		1-20	
3IP Data		BLF Service Usage	ON 💌		
Fables Data					
Networking Data	~				
Net Basic Attributes(320)					
Net Supplementary Attr(321)					
Net CO Line Overview					
Net CO Line Attributes(322)					

Figure 4.4.10.2-1 Network Supplementary Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Transfer Mode	Select type for Transfer and Call forward. – REROUT or JOIN	REROUT/ JOIN	REROUT
TCP Port for BLF	TCP port for sending BLF message to BLF Manager.	9500-9999	9500
UDP Port for BLF	UDP port for sending BLF message to BLF Manager.	9500-9999	9501
BLF Manager IP	IP Address of BLF Server used only when iPECS is configured with LDK systems for Voice Networking.		0.0.0.0
Duration of BLF State	Duration of BLF state message sending to BLF Server.	01-99 (Sec.)	10
Multicast IP	IP address of Multicast for BLF service.		0.0.0.0
Net Trans Recall timer	Network transfer fault recall timer to be used when no responses from other systems.	001-300 (msec)	10
NET Reroute CO Group	The start times for Day, Night and start and end times for Timed modes are entered for each day of week. After Timed end time the mode goes to day if time is less than Night mode.	1-20	
BLF Service Usage	BLF service usage.	OFF ON	ON

#### Table 4.4.10.2-1 NETWORK SUPPLEMENTARY ATTRIBUTES

### 4.4.10.3 Net CO Line Overview

PECS ECS eMG80	Administr	ration	Maintena	ince	Change La	nguage Log O
PGM Search	Favorite PG	M Net CO	Line Overvi	ew ×		
System ID & Numbering Plans	Device Type	<sup>8</sup> CO Line <sup>1</sup>		Not CO Gro	up ↓ª Net CO Type ↓ª	
Station Data	LCOB4	1	Normal	0	PSTN	
Station Data	LCOB4	2	Normal	0	PSTN	
Board Based Data	LCOB4	3	Normal	0	PSTN	
	LCOB4	4	Normal	0	PSTN	
CO Line Data	E1IB	5	Normal	0	PSTN	
	E1IB	6	Normal	0	PSTN	
System Data	E1IB	7	Normal	0	PSTN	
	E1IB	8	Normal	0	PSTN	
Station Group Data	E1IB	9	Normal	0	PSTN	
ISDN Line Data	E1IB	10	Normal	0	PSTN	
	E1IB	11	Normal	0	PSTN	
SIP Data	E1IB	12	Normal	0	PSTN	
	E1IB	13	Normal	0	PSTN	
Tables Data	E1IB	14	Normal	0	PSTN	
	E1IB	15	Normal	0	PSTN	
Networking Data	E1IB	16	Normal	0	PSTN	
Net De sie Attribute e (220)	E1IB	17	Normal	0	PSTN	
Net Basic Attributes(320)	E1IB	18	Normal	0	PSTN	
Net Supplementary Attr(321)	E1IB	19	Normal	0	PSTN	
Net CO Line Overview	E1IB	20	Normal	0	PSTN	
Net CO Line Attributes(322)	E1IB	21	Normal	0	PSTN	

Figure 4.4.10.3-1 Network CO Line Overview

### 4.4.10.4 Network CO Line Attributes - PGM 322

Selecting Network CO Line Attributes will display the Network CO Line Group entry page, Figure 4.4.10.4-1. Enter a valid CO/IP Line range and click **[Load]** to enter the Network CO Line data.

IPECS IPECS eMG80	Administration	Maintenance		Change Language Log Out
PGM Search	Favorite PGM Net CO L	ine Attributes(3	22) ×	
System ID & Numbering Plans	Enter CO Range (1 - 74) :			2 Load Save
Station Data	CO Range 1-10			
Board Based Data	Attribute	Value	Range	
L	Networking CO Group	0	0-24	
CO Line Data	Network CO Line Type	PSTN 🔽		
System Data				
Station Group Data				
ISDN Line Data				
SIP Data				
Tables Data				
Networking Data V				
Net Basic Attributes(320) Net Supplementary Attr(321) Net CO Line Overview > Net CO Line Attributes(322) Net Numbering Plan Overview Net Numbering Plan(324) Net Feature Code Table(325)				

Figure 4.4.10.4-1 Network CO Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Networking CO Group	Networking CO group programming for Networking call.	00-24	00
Network CO Line Type	Select network CO Line Type.	NET/ PSTN	PSTN

#### Table 4.4.10.4-1 NETWORK CO LINE ATTRIBUTES

CS eMG80		Administr	ation -	Maintena	nce:													Com	oge Lar	iguage L	og Or
GM Search	F	avorite PGN	Not Nur	bering Pla	n Overview 🕺 🖸																
System ID & Numbering Plans				Net CO	CPN ISDN	CPN					MPB IP	MPB			PSTN	CO MIN		Transit	SMDR		
Station Data	lesd 1		* Plan 1	ng Craim	INFORMATION	INFORMATION	CPN INFORMATION2	CPN INFORMATION3	CPN NFORMATION4	ALT	Addr	Dert	Digit Repeat E	PSTN	CLI	Code	Firewall Routing	Out Auth COS	Det	Site Emerg	ency sut
loard Based Data	0	NET										5588 5588		Na Na	NET NET	OFF OFF	ON ON	No No	No No	0	
20 Line Data	2	NET										5588	No	No	NET	OFF	ÓN	No	No	0	â
lystem Data	3											5508 5588		No No	NET	OFF	0N ON	No No	No No	0	-
Itation Group Data	5											5588		No	NET	OFF	ON	No	No	0	
	6	NET										5588 5588		No	NET	OFF	0N 0N	No	No	0	
SDN Line Data												5588		No	NET	OFF	ON	No	NO	0	
SIP Data	9	NET										5588	No	No	NET	OFF	ON	No	No	0	
Tables Data	1	1 NET										5588 5588	No	No No	NET	OFF	0N 0N	No No	No No	ő	
Networking Data	1											5588		No	NET	OFF	ON	No	No	0	
letworking bata	1											5588		No	NET	OFF	0N	No	No	0	
Net Basic Attributes(320)		and the second second second										5588 5588		No	NET	OFF	0N ON	No	N0 N0	0	
Net Supplementary Attr(321)	1											5588		No	NET	OFF	ON	No	No	0	
Net CO Line Overview	1											5588		No	NET	OFF	ON	No	No	0	
Net CO Line Athibutes(322)	1											5588		No	NET	OFF	ON	No	No	0	
	1											5580		No	NET	OFF	ON	No	No	0	
Net Numbering Plan Overview	2											5588		No	NET	OFF	ÓN	No	No	0	
Net Numbering Plan(324)	2											5588		No	NET	OFF	ON	No	No	0	
Net Feature Code Table(325)												5588			NET	OFF	ON	No		0	
	2													No					No	0	
Zone Data	2											5588		No	NET	OFF	ON	No	No		
	2											5588		No	NET	OFF	ON	No	No	0	
Device Login	2											5588		No	NET	OFF	ÓN	No	No	0	
	2											5588		No	NET	OFF	ON	No	No	0	
DECT Data	2											5588		No	NET	OFF	0N	No	No	0	
Press Made	2											5588		No	NET	OFF	ON	No	No	0	
Green Mode	2											5588		No	NET	OFF	ON	No	No	0	
nitialization	3											5588		No	NET	OFF	ON	No	No	0	
	3											5588		NO	NET	OFF	ON	No	No	0	
	3											\$588	No	No	NET	OFF	ON	No	No	Ó	
	3	3 NET										5588	No	No	NET	OFF	ON	No	No	0	
	3	4 NET										5588	No	No	NET	OFF	0N	No	No	0	
	3	5 NET										5508	No	No	NET	OFF	ON	No	No	0	
	3	6 NET										5588	No	No	NET	OFF	ON	No	No	0	
	3											5588		No	NET	OFF	ON	No	No	0	
	3											5588		No	NET	OFF	ON	No	No	0	
		9 NET										5588		No	NET	OFF	ÓN	No	No	0	

# 4.4.10.5 Network Numbering Plan Table Overview

Figure 4.4.10.5-1 Network Numbering Plan Table overview

# 4.4.10.6 Network Numbering Plan Table - PGM 324

Selecting Network Numbering Plan Table will display the Network Numbering Plan Table data entry page, Figure 4.4.10.6-1.

PECS ECS eMG80	Administration	Maintenance	Chang	je Language 🛛 Log (
PGM Search	Favorite PGM Net Num	bering Plan(324) ×		
System ID & Numbering Plans	Enter Index (0 - 251) :	Load		6
Station Data	Networking Numbering Plan			S
Board Based Data	Attribute	Value	Range	
	Networking Type	NET 💌		
CO Line Data	Numbering Plan Code		Max 16 Digits (include*',#')	
System Data	Networking CO Group		0-24	
	CPN ISDN INFORMATION		Max 16 Digits	
Station Group Data	CPN INFORMATION 1		Enter IP Address	
ISDN Line Data	CPN INFORMATION 2		Enter IP Address	
	CPN INFORMATION 3		Enter IP Address	
SIP Data	CPN INFORMATION 4		Enter IP Address	
Tables Data	ALT SPEED NUMBER		2000 - 4999	
Tables Data	MPB IP Address			
Networking Data	<ul> <li>MPB Port Number</li> </ul>	5588	0-9999	
	Digit Repeat	No 🔽		
Net Basic Attributes(320)	PSTN Enblock	No 🗸		
Net Supplementary Attr(321)	PSTN CLI Method	NET 🔽		
Net CO Line Overview	CO Attendant Code CLI	OFF 🔽		
Net CO Line Attributes(322)	Firewall Routing	ON 🔽		
Net Numbering Plan Overview	Transit Out Auth COS	No 🗸		
Net Numbering Plan(324)	SMDR Dgt Hide	No 🗸		
Net Feature Code Table(325)	Site Name		Max 12 Characters	
Zone Data	Emergency Reroute Timer		0-10 sec	

# Figure 4.4.10.6-1 Network Numbering Plan Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Network Type	Select the type.	NET PSTN	NET
Numbering Plan Code	<sup>(*'</sup> means any digits can be inserted between 0 ~ 9. The digits followed by '#' are an internal station number.	Max. 16 digits (Include * and #)	
Networking CO Group	'00' means an internal net station number.	00-24	
CPN ISDN Information	CPN ISDN Information.	Max. 16 digits	
CPN Information	Flex 1: ISDN CPN INFORMATION Flex 2: (FLEX BTN 1- 4) 1: 00 CPN INFORMATION 01 2: 00 CPN INFORMATION 02 3: 00 CPN INFORMATION 03 4: 00 CPN INFORMATION 04	Enter IP address	
Alt Speed Bin	Alternative Dial Number (System SPD Bin) when the networking path has a fatal problem.	200-999 or 2000~4999	

#### Table 4.4.10.6-1 NETWORK NUMBERING PLAN TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MPB IP Address	IP Address of destination MPB/E system only when iPECS eMG80 are configured for Voice Networking		0.0.0.0
MPB Port number	Port Number of destination system for Networking.	0000-9999	5588
Digit Repeat	When the number plan code, see above, is for PSTN call or transit-call, this number code can be enveloped in SETUP message or not whether if this field is set or not.	Yes No	No
PSTN Enblock	Choose "Transit-out Public Line" as En-block or Over-lap.	Yes No	No
PSTN CLI Method	NET: Send network station number for CLI PSTN: Send full CLI (e.g., 02-450-1000)	NET PSTN	NET
CO Attendant Code CLI	Determine whether if Centralized ATD CLI is sent or not when slave system makes transit call.	OFF ON	OFF
Firewall Routing	Select IP address (Firewall IP address or Non-firewall IP address). If the destination system (VOIB) is in same VPN then Non-firewall IP address should be sent. Otherwise the firewall IP address should be sent. ON: Send firewall IP address OFF: Send Non-firewall (Internal) IP address	OFF ON	ON
Transit Out Auth COS	When there's a transit out call request from slave system user by seizing CO line, apply COS according to the authorization code.	Yes No	No
SMDR Digit Hide	Determine to display dialed digit of transit out call or not at the slave system; it can contain authorization code.	Yes No	No
Site name	It is comment field to assign networking site name.	Max. 12 characters	
Emergency reroute timer	<ul> <li>When timer is '0': The reroute emergency call is not work.</li> <li>When timer is set '1' ~ '10': The reroute emergency call is activated after this timer.</li> <li>This is only work when PGM 112-18<sup>th</sup> is transit-out CO group.</li> <li>It will be fail over using "Fail Over CO Group Number (PGM133)" or "Net Reroute CO Group (PGM321)".</li> </ul>	0-10 (Sec.)	00

Table 4.4.10.6-1 NETWORK NUMBERING PLAN TABLE

# 4.4.10.7 Network Feature Code Table - PGM 325

Selecting Network Feature Code Table returns the data entry page, Figure 4.4.10.7-1.

PECS ECS eMG80	Adminis	tration Maintenan	nce	Change Language Log (
PGM Search	Favorite PC	M Net Feature Code Ta	able(325) ×	
System ID & Numbering Plans				S
Station Data	Index Net Fe	ature Code Type	Value	
Board Based Data	1	N/A	¥	
	2	N/A	×	
CO Line Data	3	N/A	✓	
System Data	4	N/A	×	
	5	N/A	×	
Station Group Data	6	N/A	~	
ISDN Line Data	7	N/A	~	
	8	N/A	×	
SIP Data	9	N/A	▼	
Tables Data	10	N/A	►	
	11	N/A	×	
Networking Data	× 12	N/A	▼	
Not Doolo Attributoo/220	13	N/A	►	
Net Basic Attributes(320) Net Supplementary Attr(321)	14	N/A	×	
Net CO Line Overview	15	N/A	×	
Net CO Line Attributes(322)	16	N/A	▼	
Net Numbering Plan Overview	17	N/A	►	
Net Numbering Plan(324)	18	N/A	×	
Net Feature Code Table(325)	19	N/A	×	
	20	N/A	~	

Figure 4.4.10.7-1 Network Feature Code Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Feature Code	Networking Feature Code programming for Networking paging call.	16 digits	None
Net Feature type	Select network feature type.	Internal Page External Page All Call Page Net Door Open Conference Room Call Park	N/A

#### Table 4.4.10.7-1 NETWORK FEATURE CODE TABLE

# 4.4.11 Zone Data

Selecting the Zone Data program group returns the sub-menu displayed in Figure 4.4.11-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans	10 20 25 30	
Station Data	10 20 25 30	
Board Based Data	Common Attributes(111) Station Group Attributes(191)	10 8
CO Line Data	CO Call Rerouting(252) Station Group Assignment(190)	7
System Data	CO/P Ring Assignment(144) Station Type(110)	6
Station Group Data	SIP CO Attributes(133) CLI Attributes(113)	5
ISDN Line Data	Flex Buttons(115/129) Common Attributes(140)	5
SIP Data		• • • • •
Tables Data		
Networking Data		
Zone Data	·	
Zone Number of Device/Gateway Overview		
Device Zone Number(436)		
Device Zone Attr(437) Access & Page Relay(438)		
Inside Zone Attribute Overview		
Zone Attribute(439)		
Zone RTP Relay Group(440)		
Inter Zone Attribute(441)		
Zone Holiday Assignment(444)		
Device Login		

Figure 4.4.11-1 Zone Data Main Page

### 4.4.11.1 Zone Number Overview

Selecting Zone Number Overview returns the data entry page, Figure 4.4.11.1-1.

PECS ECS eMG80	A	dministration	Main	tenance		Change Language
PGM Search	Favo	orite PGM	Zone Number	of Device/Gatewa	ny Overview X	
System ID & Numbering Plans	Seg 1	<sup>a</sup> Zone Numb	er <u>l</u> ª Type	MAC Address 💵	IP Address 18	
Station Data	1	1	HYIB8	b40edcbf5606	10.10.10.2	
	2	1	HYIB8	b40edcbf5606	10.10.10.2	
Board Based Data	3	1	SLIB16	b40edcbf5606	10.10.10.2	
	7	1	E1IB	b40edcbf5606	10.10.10.2	
CO Line Data	8	1	BRIB2	b40edcbf5606	10.10.10.2	
Queteur Dete	9	1	LCOB4	b40edcbf5606	10.10.10.2	
System Data	13	1	VOIU	b40edcbf5606	10.10.10.2	
Station Group Data	14	1	VOIB	b40edcbf55ca	10.10.10.10	
	15	1	VMIU	b40edcbf5606	10.10.10.2	
ISDN Line Data	16	1	VMIB	b40edcbf55ca	10.10.10.10	
	17	1	MISU	b40edcbf5606	10.10.10.2	
SIP Data	18	1	MCIB	fff0000ffff	10.10.10.2	
Tables Data						
Networking Data						
-						
Zone Data 📃						
Zone Number of Device/Gateway Overview						
Device Zone Number(436)						
Device Zone Attr(437)						
Access & Page Relay(438)						
Inside Zone Attribute Overview						
Zone Attribute(439)						
Zone RTP Relay Group(440)						
Inter Zone Attribute(441)						
Zone Holiday Assignment(444)						

Figure 4.4.11.1-1 Zone number overview

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

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If iPECS devices are separated by a NAPT server or direct peer-to-peer communications is not available, packet relay must be employed to assure communication. In packet relay, RTP packets are received by a local VoIP channel (MPB or VOIB), which is under control of the MPB, and the IP address is translated from a public to the device's private address. The VoIP channel implements a secure channel using IPSec protocol. Devices can be assigned as part of an "RTP Relay group" to use the same VoIP channels to implement relay of RTP packets. Packet relay groups also provide for conversion of multi-cast packets from the MPB to uni-cast and back again at the group level to multi-cast. Note packet relay requires an MPB or VOIB VoIP channel be available locally for each simultaneous call that requires packet relay.

### 4.4.11.2 Device Zone Number – PGM 436

Selecting the Device Zone Number returns the Zone Number data input page, Figure 4.4.11.2-1. Enter the Sequence number range (refer to section 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103) and click **[Load]** to assign a Zone number for the device.

iPECS eMG80	Administr	ation	Maintenance		Change Language Log Out
PGM Search	Favorite PGN	Devic	e Zone Number(43	36) ×	
System ID & Numbering Plans	Enter Device/G	W Slot Seq	(1 - 262) :		🛛 Load Save
Station Data			e(Slot) Range 1		
Board Based Data	Attribute		Value	Range	
	Zone Numbe	r 1		1 - 32	
CO Line Data					
System Data					
Station Group Data					
ISDN Line Data					
SIP Data					
Tables Data					
Networking Data					
Zone Data	~				
Zone Number of Device/Gateway Overview					
> Device Zone Number(436)					
Device Zone Attr(437)					
Access & Page Relay(438)					

Figure 4.4.11.2-1 Device Zone Number

Device Zone Number assigns a device to one of up to 32 specific Zones.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT						
Zone number	Zone number can be assigned to Device or GW.	1-32	1						

#### Table 4.4.11.2-1 DEVICE ZONE ATTRIBUTES

### 4.4.11.3 Device Zone Attributes - PGM 437

Selecting the Device Zone Attributes returns the Device Zone Attributes data input page, Figure 4.4.11.3-1. Enter the Sequence number Range (refer to section 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103) and click **[Load]** to assign a Zone number for the device.

PECS eMG80	Adminis	tration Maintenance		Change Language	Lo	
PGM Search	Favorite PC	Oevice Zone Attr(437)	×			
System ID & Numbering Plans	Enter Device	Enter Device/GW Slot Seq (1 - 262):				
Station Data		Device/Gateway Sequence(Slot) Range 1				
Board Based Data	Check All	Attribute	Value	Range		
CO Line Data		Remote Access Password		Max 12 Digits		
CO Line Data		Diff Serv	4	00-63		
System Data		Nation Code	U.S.A 🔽			
Station Group Data		Language Code	English 🔽			
Station Group Data		Codec Type	FOLLOW ME(ADM132)			
ISDN Line Data		RTP Relay Group	RLY GRP 00 💌			
SIP Data		Page Area Group	PAGE AREA 00 🔽			
SIP Data		VMIU/VMIB Slot Seq.		Max 3 Digits		
Tables Data			U.S Prompt KOREA Prompt			
Networking Data		Oslast Default Multi Language	O TURKIYE Prompt			
		Select Default Multi Language	🔘 RUSSIA Prompt			
Zone Data	1		O AUSTRALIA Prompt			
Zone Number of Device/Gateway		VM Detry Count	GERMANY Prompt	0-9		
Overview		VM Retry Count Remark	3	0 - 9 Max 21 Characters		
Device Zone Number(436)		rtemafK		wax zi Characters		
> Device Zone Attr(437)						
Access & Page Relay(438)						
Inside Zone Attribute Overview						
Zone Attribute(439)						

Figure 4.4.11.3-1 Device Zone Attributes

Device Zone Attributes define characteristics specific to the device including the registration password, Diff Serv Code Point, Nation, etc. In addition, Zone characteristics set at the Device level take precedence over characteristics for the Zone Attributes. While a Zone may incorporate up to 15 different RTP packet Relay Groups, for clarity a single RTP Relay Group should be used within a Zone.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Remote Access Password	Registration password assigned in device for Remote stand-alone device only	Max. 12 digits	None
Diff Serv	MPB assigned code point will take precedence. Applies to all devices	0-63	4
Country Code	Country location of the device. Available selections are given in Table 3.3.1-2.	Country Code	Nation dependent
Language Code	Devices' default language. The language selection type is this default language or English.	Language Code	Nation dependent

#### Table 4.4.11.3-1 DEVICE ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Codec Type	The codec selection method can be defined as device based, see PGM 132, or based on the codec type assigned to the Zone.	Board based or Zone	Board based
RTP Relay Group	Assigns the RTP Relay group employed by the device. Zone parameters define the VOIB to employ.	00-15	00 (no relay)
Page Area Group	Assigns the Paging Area group identity to relay paging data across the network using VOIB or Paging Agent	00-15	00 (same paging relay area)
VMIU/VMIB Slot Sequence	Assigns the VMIU/VMIB used to support Voice Mail for a device. The VMIU/VMIB must be under control of the same MPB as the device being assigned.	Max. 3 Digits	
Select Multi Language	User recorded language prompt is played to the user when accessing the VMIU or VMIB.	Type of prompt for assigned VMIU or VMIB	Default prompt
VM Retry Count	This is retrying count for multi-language selection. If retrying count is over then system provide system announcement with default language.	0-9	3
Remark	Descriptive information to help installer/programmer in identifying the device Zone, i.e. Branch1.	Max. 21 characters	

#### Table 4.4.11.3-1 DEVICE ZONE ATTRIBUTES

# 4.4.11.4 Access & Page Relay – PGM 438

Selecting Access & Page Relay returns the Access & Page RTP packet relay data input page, Figure 4.4.11.4-1. Enter the Sequence number Range (refer to section 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103) and click **[Load]** to define packet relay characteristics for Paging between Zones.

PECS eMG80	Administrati	on Mainten	ance	Change Language Log Ou
PGM Search	Favorite PGM	Access & Page Re	elay(438) ×	
System ID & Numbering Plans	Enter Device/GW(	Slot Seq (1 - 262) :		🛛 Load Sav
Station Data		Sequence(Slot) Rang	e 1	🛿 Load (Sav
Board Based Data	Access To Zone	Page RTP Relay To	Zone Paged By RTP Relay From	Zone
	Zone 1	Disable 💌	Disable 🐱	
CO Line Data	Zone 2	Disable 💌	Disable 💌	
System Data	Zone 3	Disable 💌	Disable 🐱	
	Zone 4	Disable 💌	Disable 💌	
Station Group Data	Zone 5	Disable 💌	Disable 🐱	
ISDN Line Data	Zone 6	Disable 💌	Disable 💌	
	Zone 7	Disable 💌	Disable 💌	
SIP Data	Zone 8	Disable 💌	Disable 💌	
Tables Data	Zone 9	Disable 💌	Disable 💌	
Tubles Data	Zone 10	Disable 💌	Disable 🐱	
Networking Data	Zone 11	Disable 💌	Disable 💌	
Zone Data	Zone 12	Disable 💌	Disable 💌	
Zone Data	Zone 13	Disable 💌	Disable 🐱	
Zone Number of Device/Gateway	Zone 14	Disable 💌	Disable 🐱	
Overview	Zone 15	Disable 💌	Disable 🐱	
Device Zone Number(436)	Zone 16	Disable 💌	Disable 🐱	
Device Zone Attr(437)	Zone 17	Disable 💌	Disable 💌	
Access & Page Relay(438)	Zone 18	Disable 💌	Disable 💌	
Inside Zone Attribute Overview	Zone 19	Disable 💌	Disable 💌	
Zone Attribute(439)	Zone 20	Disable 🗸	Disable 🗸	

Figure 4.4.11.4-1 Zone Page RTP Packet Relay

iPECS protocol employs multi-cast to send of RTP packets to multiple devices at one time. This improves efficiency and lowers traffic by sending a single multi-cast packet to multi-cast group members. In particular, paging employs this multi-cast technique. However, since multi-cast is not commonly supported outside of the LAN, uni-cast must be used to transport such signals between routers. At the receiving Zone, a local VoIP channel receives the uni-cast signal from the controlling MPB. The VoIP channel then converts the packet address to a multi-cast signal for delivery to devices in the same Zone RTP Relay Group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Page RTP Relay to Zone	From this device to the Zone selected enable or disable.	Disable Enable	disable
Page By RTP Relay From Zone	To this device from the Zone selected, enable or disable.	Disable Enable	disable

Table 4.4.11.4-1	Zone	Page RTP	Packet Relav

## 4.4.11.5 Zone Attributes Overview

PECS ECS eMG80	Administrati	on Maintenance						Change La	inguage Log
PGM Search	Favorite PGM	Inside Zone Attribute O	verview X						
System ID & Numbering Plans	Zone Nation Cod	e Language Code Codec	RTP Relay Rule RTP Relay D	evice VOIU/VMIB R	emark Time Zone	-Z Conns	OGT Calls	MOH Emer Not	i DCOB Noti SIP N
Station Data	1		13/14	15/16	Sys Time		0		
	2		13/14	15/16	Sys Time		0		
Board Based Data	3		13/14	15/16	Sys Time		0		
CO Line Data	4		13/14	15/16	Sys Time		0		
CO Line Data	5		13/14	15/16	Sys Time		0		
System Data	6		13/14	15/16	Sys Time		0		
	7		13/14	15/16	Sys Time		0		
Station Group Data	8		13/14	15/16	Sys Time		0		
	9		13/14	15/16	Sys Time		0		
ISDN Line Data	10		13/14	15/16	Sys Time		0		
	11		13/14	15/16	Sys Time		0		
SIP Data	12		13/14	15/16	Sys Time		0		
Tables Data	13		13/14	15/16	Sys Time		0		
Tubico Data	14		13/14	15/16	Sys Time		0		
Networking Data	15		13/14	15/16	Sys Time		0		
	16		13/14	15/16	Sys Time		0		
Zone Data 🗸 🗸 🗸	17		13/14	15/16	Sys Time		0		
	18		13/14	15/16	Sys Time		0		
Zone Number of Device/Gateway	19		13/14	15/16	Sys Time		0		
Overview	20		13/14	15/16	Sys Time		0		
Device Zone Number(436)	21		13/14	15/16	Sys Time		0		
Device Zone Attr(437)	22		13/14	15/16	Sys Time		0		
Access & Page Relay(438)	23		13/14	15/16	Sys Time		0		
Inside Zone Attribute Overview	24		13/14	15/16	Sys Time		0		
Zone Attribute(439)	25		13/14	15/16	Sys Time		0		
Zone Allingle(433)	26		13/14	15/16	Sys Time	0	0		

Figure 4.4.11.5-1 Zone Attributes Overview

# 4.4.11.6 Zone Attribute – PGM 439

Selecting the Zone Attributes returns the Zone Attributes data input page, Figure 4.4.11.6-1. Enter the desired Zone number range and click **[Load]** to assign Zone characteristics.

PECS eMG80	Adminis	tration Maintenance		Change Language Log O
PGM Search	Favorite PC	3M   Zone Attribute(439)   ×		
System ID & Numbering Plans	Enter Zone N	lumber Range (1 - 32) :	Icoad	Save
Station Data	Zone Numbe	r Range 1		
Board Based Data	Check All	Attribute	Value	Range
oo Line Dete		Nation Code	U.S.A 💌	
CO Line Data		E.164 Management Information (Outgoin	g Dial Number : E164 -> Normal) (Incoming	CLI Number : Normal -> E164)
System Data		Area Code		Max 5 Digits
		International Access Code		Max 5 Digits
Station Group Data		Local Number Digit Count	0	00 - 30 (for incoming CLI)
ISDN Line Data		Leading Zero Insertion For Area Code	No 💌	ex.031 (for outgoing called number)
		My Area Code Insertion	No 💌	ex. 31, 031 (for outgoing called number)
SIP Data		Exception	al Conversion : for Outgoing Dial Number	
Tables Data		Conversion Case #1 : From (4 dgt)	> To (6 dgt)	
Tables Data		Conversion Case #2 : From (4 dgt)	> To (6 dgt)	
Networking Data		Conversion Case #3 : From (4 dgt)	> To (6 dgt)	
		Conversion Case #4 : From (4 dgt)	> To (6 dgt)	
Zone Data	× 🗌	Conversion Case #5 : From (4 dgt)	> To (6 dgt)	
Zone Number of Device/Gateway		Exception	al Conversion : for Incoming CLI Number	
Overview		Conversion Case #1 : From (6 dgt)	> To (6 dgt)	
Device Zone Number(436)		Conversion Case #2 : From (6 dgt)	> To (6 dgt)	
Device Zone Attr(437)		Conversion Case #3 : From (6 dgt)	> To (6 dgt)	
Access & Page Relay(438)		Conversion Case #4 : From (6 dgt)	> To (6 dgt)	
Inside Zone Attribute Overview		Nor	mal Zone Management Information	
> Zone Attribute(439)		Language Code	English 💌	
Zone RTP Relay Group(440)		Codec Type	System Codec 🐱	
Inter Zone Attribute(441)		RTP Relay Rule	If Need 💌	
Zone Holiday Assignment(444)		1 st RTP Relay Device Slot Seq.	13	H323 GAV Sequence Number (Max 3 Digits)
		2nd RTP Relay Device Slot Seq.	14	H323 GAV Sequence Number (Max 3 Digits)
Device Login		VMIU/VMIB Slot Seq.	1: 15 2: 16	VM GAV Sequence Number (Max 3 Digits)
DECT Data		Remark		Max 21 Characters
		Display Time Zone	System Time	
Green Mode		Max Total Inter Zone Conns	0	0-70 (0:No Limit)
Initialization		Max Outgoing Co Calls	0	0-42 (0:No Limit)
muanzau0fi		Zone MOH Assign	Refer To Sys Hold 🗸	
		Emergency Call Notify Station		
		DCOB Falut Notify Station		
		SIP Registration Falut Notify Station		

Figure 4.4.11.6-1 Zone Attributes

The nation code, codec and VMIU/VMIB assigned for a Zone will be employed by all devices in the Zone unless a different entry is made in Device Zone data. If the Device Zone data is default or assigned by the MPB, the Zone data will take precedence.

The Zone Attributes define when and which VoIP channels to use for RTP packet relay. Local VoIP channels are assigned to perform the packet relay function and the use can be defined as "if needed" or use the assigned RTP Relay Group. For "if Need", the MPB will employ the IP KTS STUN protocol to determine when packet relay is required. If assigned "RTP Relay Group", packet relay will always be employed for RTP packet receipt.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		NANCE	
Nation Code	Nation code of devices in the zone. Available selections are given in Table 3.3.1-2.	Country code	
E.164 Manageme	nt Information (Outgoing Dial Number : E164-> Norm >164)	al) (Incoming CLI Num	ber: Normal -
Area Code	Assign area code that is use to convert CLI format (normal <-> E.164)	Max 5 Digits	
International Access Code	Assign international access code that is use to convert CLI format (normal <-> E.164)	Max 5 Digits	
Local Number Digit Count	CLI length is over this count then it is long distance call otherwise it is local call. (it is for incoming CLI)	00-30	0
Leading Zero Insertion for Area code	Insert zero ('0') in front of area code. (It is for outgoing called number)	No Yes	No
My Area Code	Insert my area code for CLI.	No	No
Insertion	(It is for outgoing called number)	Yes	110
	Exceptional Conversion : for Outgoing Dia	Number	1
Conversion Case #1	It is exception conversion rule for outgoing dialed number.		
Conversion Case #2			
Conversion Case #3			
Conversion Case #4			
Conversion Case #5			
	Exceptional Conversion : for Incoming CLI	Number	
Conversion Case #1	It is exception conversion rule for incoming CLI number.		
Conversion Case #2			
Conversion Case #3			
Conversion Case #4			
	Normal Zone Management Informati	on	
Language Code	Language code of devices in the zone.	Language Code	Nation dependent
Codec Type	Assigns the codec employed by devices in the Zone.	System codec G.711 G.723.1 G.729 G.722	System codec
RTP Relay Rule	Assigns when to use the packet relay function, with "If Need" the MPB will automatically determines when to use packet relay, while "RTP Relay Group" will always implement packet relay for RTP packets.	If need/ Relay Group/ Forced to Relay	lf need

Table	4 4 1	1 6-1	ZONE	ATTRIB	UTES
Iabic	4.4.1	1.0-1	ZUNL		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
1st RTP Relay Device Slot Seq.	Assigns the local VOIU or VOIB IP channels that will be used to implement packet relay for devices in the Zone.	Sequence Number	13
2nd RTP Relay Device Slot Seq.	Back-up VoIP channels for RTP packet relay use in the Zone.	Sequence Number	14
VMIU/VMIB Slot Sequence	Assigns the VMIU/VMIB used to support Voice Mail for devices in the Zone. The VMIU/VMIB must be under control of the same MPB as the device being assigned.	Sequence Number	1:15 2:16
Remark	Descriptive information to help installer/programmer in identifying the device Zone, i.e. Branch1.	Max. 21 characters	
Display time zone	The time & date displayed at the station are based on the time zone selected or the system time	Time zone	System time
Max Total Inter Zone Connections	Maximum Total Inter Zone Connections. When this value is set to 0, it means that there is no limits of total inter zone connections.	0-70 (0: No limit)	0
Max Outgoing CO Calls	Maximum Outgoing Co Calls. When this value is set to 0, it means that there is no limit of outgoing co calls.	0-42 (0: No limit)	0
Zone MOH Assign	A Music source can be assigned so that calls to this zone.	Refer to Sys Hold, Internal music External Music VSFMOH, SLT MOH1~5, VSF MOH2~3	Refer to Sys Hold
Emergency Call Notify Station	Assigns the destination station for Emergency Call Notification.	Station number	
DCOB Fault Notify Station	Assigns the destination station for DCOB Fault Notification.	Station number	
SIP Registration Fault Notify Station	Assigns the destination station for SIP Registration Fault Notification.	Station number	

#### Table 4.4.11.6-1 ZONE ATTRIBUTES

# 4.4.11.7 Zone RTP Relay Group – PGM 440

Selecting the Zone RTP Relay Group returns the RTP Relay ON/OFF data input page, Figure 4.4.11.7-1. Enter the desired Zone and Group numbers and click **[Load]** button to assign Zone characteristics.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM Zone RTP Relay Group(440) ×	
System ID & Numbering Plans	Enter Zone Number (1 - 32) :	Save
Station Data	Enter RTP Relay Group Number (1 - 15) : Load	Dave
Board Based Data	Zone Number 1 RTP Relay Group Number 1	
CO Line Data	Force To RTP Relay	
System Data	Relay Group 1	
Station Group Data	Relay Group 3	
	Relay Group 4	
ISDN Line Data	Relay Group 5	
SIP Data	Relay Group 6	
	Relay Group 7	
Tables Data	Relay Group 8	
	Relay Group 9	
Networking Data	🗹 Relay Group 10	
Zone Data 🗸 🗸	🔽 Relay Group 11	
	🔽 Relay Group 12	
Zone Number of Device/Gateway	🔽 Relay Group 13	
Overview	🔽 Relay Group 14	
Device Zone Number(436)	Relay Group 15	
Device Zone Attr(437)		
Access & Page Relay(438)		
Inside Zone Attribute Overview		
Zone Attribute(439)		
> Zone RTP Relay Group(440)		
Inter Zone Attribute(441)		

Figure 4.4.11.7-1 Zone RTP Packet Relay Groups

While it is strongly recommended that a Zone only have a single RTP Relay Group, up to 15 Groups can be assigned to a Zone. Devices in an RTP Relay Group should have common requirements for packet relay use. In some situations, it may be necessary to implement packet relay to groups in a Zone. Note that when "if Need" is assigned as the RTP Relay Rule in the Zone Attributes, assignments here are ignored.

### 4.4.11.8 Inter Zone Attribute – PGM 441

Selecting the Inter Zone Attribute returns the data input page, Figure 4.4.11.8-1. Enter the desired Source and Destination Zone number range and click **[Load]** to assign Zone characteristics.

PECS eMG80	Adminis	tration Maintenance			Change Language	La
PGM Search	Favorite Po	<b>Inter Zone Attribute(441)</b>	×			
System ID & Numbering Plans	Enter Source	/From Zone Number (1 - 32) :				
Station Data		ation/To Zone Numeber (1 - 32) :			Loa	ad
Board Based Data	Source Zone Destination 2	Range 1 Zone Range 1				
CO Line Data	Check All	Attribute	Va	lue	Range	
System Data		Codec Type	N/A	~		
System Data		RTP Relay Rule	If Need	~		
Station Group Data		RTP Relay Device Utilzation	For Both Side	•		
ISDN Line Data		Src. RTP Relay Device Slot Seq			Sequence Number	
ISDN LINE Data		Dest. RTP Relay Device Slot Seq.			Sequence Number	
SIP Data		Max Inter Zone Connection	0		0-70 (0:No Limit)	
Tables Data						
Networking Data						
Zone Data	~					
Zone Number of Device/Gateway Overview						
Device Zone Number(436)						
Device Zone Attr(437)						
Access & Page Relay(438)						
Inside Zone Attribute Overview						
Zone Attribute(439)						
Zone RTP Relay Group(440)						
Inter Zone Attribute(441)						
Zone Holiday Assignment(444)						

Figure 4.4.11.8-1 Inter-Zone Attributes

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

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Codec Type	Assigns the codec employed by devices in the Zone.	System Codec/ G.711 / G.723.1 G.729 / G.722	NA
RTP Relay Rule	Assigns when to use the packet relay function between Zones, with "If Need" the MPB will automatically determine when to use packet relay, while "RTP Relay Group" will always implement packet relay for RTP packets between the Zones.	If need/ Always not/ Forced to do	lf need
RTP Relay Device Utilization	Assigns how to employ the Source and Destination VoIP channels. The assigned Source channels may be used for both sides of the communication or separately only for a device in the Source Zone. The Destination channels are then used as back-up channels or only for devices in the Destination Zone.	For Both Side/ Separated (SRC to DEST)	For Both side
Src RTP Relay Device Slot Seq.	Sequence number of MPB VOIU or VOIB to handle Packet relay for Source Zone.	Sequence Number	
Dest. RTP Relay Device Slot Seq.	Sequence number of MPB VOIU or VOIB to handle Dest packet relay. When Utilization is Separate the channels are used for devices in the destination Zone, otherwise they are used as back up for both sides.	Sequence Number	

#### Table 4.4.11.8-1 INTER-ZONE ATTRIBUTES

10000 1.1	Issue	1.	.1
-----------	-------	----	----

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Max Inter Zone connection	Maximum Inter Zone Connections between source zone and destination zone. When this value is set to 0, it means that there is no limit of inter zone connections between zones.	0-70 (0: no limit)	0

#### Table 4.4.11.8-1 INTER-ZONE ATTRIBUTES

# 4.4.11.9 Zone Holiday Assignment - PGM 444

Selecting the Zone Holiday Assignments returns the data input page, Figure 4.4.11.9-1. Enter the desired Source and Destination Zone numbers range and click **[Load]** to assign Zone holiday.

PECS eMG80	Adminis	tration	Maintenar	nce			Change La	anguage Log Ou
PGM Search	Favorite PG	M Zo	ne Holiday Assigi	nment(444)	< 3			
System ID & Numbering Plans	Enter Zone N	umber R:	ange (1 - 32) :				2 Load	Sav
Station Data	Zone Numbe	r Range '	1					
Board Based Data	Attribute			Value	э			Range
	Ring Mode	Timed	Ring Mode 🔽					
CO Line Data		1:	-					
System Data	Vacation	2: 3:	-					)D - YY/MM/DD forma e 12 digits)
Station Group Data		4:					(MUSED	e i z digils)
ISDN Line Data		01:	02 :	03 :	04:	05 :		
		06:	07 :	08 :	09:	10:		
SIP Data		11:	12:	13:	14:	15:		
Tables Data	Holiday	16:	17:	18 :	19:	20 :	MM/DD	
	-	21 :	22 :	23:	24 :	25 :	(Must b)	e 4 digits)
Networking Data		26 : 31 :	27 :	28 :	29 :	30 :		
Zone Data		36:	37 :	38 :	39:	40 :		
Zone Number of Device/Gateway Overview Device Zone Number(436) Device Zone Attr(437) Access & Page Relay(438) Inside Zone Attribute Overview Zone Attribute(439) Zone RTP Relay Group(440) Inter Zone Attribute(441) > Zone Holiday Assignment(444)								

Figure 4.4.11.9-1 Zone Holiday Assignment

Holidays and vacation day intervals for each zone can be established to define the Service mode (Day, Night, and Timed) Up to 40 holidays and 5 vacation intervals can be defined.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Ring Mode	Enter the desired Service mode for the Holiday or Vacation.	Day Ring Mode/ Night Ring Mode/ Timed Ring Mode/ N/A	Timed Ring Mode
Vacation	Assign a date range for the vacation entering the start and end dates as YY/MM/DD – YY/MM/DD.	Must be 12 digits	None
Holiday	Assign a date for the holiday for the Zone as MM/DD	Must be 4 digits	None

Table 4.4.11.9-1 ZONE HOLIDAY ASSIGNMENT

# 4.4.12 Device Login

Selecting the Device Login Data program group returns the sub-menu displayed in the left frame as shown in Figure 4.4.12-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language 📕 Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans	10 20 25 30	
Station Data	10 20 25 30	
Board Based Data	Common Attributes(111) Station Group Attributes(191)	10
CO Line Data	CO Cell Rerouting(252) Station Group Assignment(190)	7
System Data	CO/P Ring Assignment(144) 6 Station Type(110) 6	
Station Group Data	SIP CO Attributes(133) 5 CLI Attributes(133) 5	
ISDN Line Data	Flex Buttons(115/129) 5	
SIP Data	Common Attributes(140) 5	
Tables Data		
Networking Data		
Zone Data		
Device Login $\vee$		
Remote device Register(442) Station User Login(443)		

Figure 4.4.12-1 Device Login Data Main Page

### 4.4.12.1 Remote Device Registration – PGM 442

Selecting the Remote Device Registration returns the Remote Registration table data input page, Figure 4.4.12.1-1.

CS eMG80	Ac	Iministration	Maintenanc				Change Langu
2GM Search	Favo	rite PGM Remo	ote device Regist	ter(442)	<		
ystem ID & Numbering Plans	Enterle	ndex Range (1 - 70	۸·			0	Load
tation Data		lange 1-25					
Board Based Data	Index	MAC Address	Password	Zone	Nation Code		Remark
	1			1	U.S.A	~	
CO Line Data	2			1	U.S.A	×	
System Data	3			1	U.S.A	*	
	4			1	U.S.A	~	
Itation Group Data	5			1	U.S.A	~	
SDN Line Data	6			1	U.S.A	~	
	7			1	U.S.A	~	
IP Data	8			1	U.S.A	*	
ables Data	9			1	U.S.A	~	
	10			1	U.S.A	~	
Vetworking Data	11			1	U.S.A	~	
one Data	12			1	U.S.A	~	
	13			1	U.S.A	~	
evice Login	~ 14			1	U.S.A	~	
	15			1	U.S.A	<b>~</b>	
Remote device Register(442)	16			1	U.S.A	~	
Station User Login(443)	17			1	U.S.A	~	
DECT Data	18			1	U.S.A	~	

Figure 4.4.12.1-1 Remote Device Registration

When a device attempts to register with the controlling iPECS, the system will check the device MAC address and password against the Registration table. If a match is found, the device is registered regardless of Dip-switch position 3. The system database is updated and the device receives device specific configuration data from the MPB.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Mac Address	Mac address of remote device	MAC Address	
Password	Password, if any, assigned in the devices database via Device Web admin.	Up to 12 digits	
Zone	The Zone to be assigned to the device.	01-32	01
Nation code	Nation or country location of the device.	See Table 4.3.1-2.	Assigned in System ID

### Table 4.4.12.1-1 REMOTE DEVICE REGISTRATION

### 4.4.12.2 Station User Login – PGM 443

Selecting the Station User Login returns the User Login Registration data input page, Figure 4.4.12.2-1.

PECS eMG80	Admir	nistration Maintenance						Chan	ge Language 🛛 Log
PGM Search	Favorite	PGM Station User Login(443)	×						
System ID & Numbering Plans	Enter Inde	« Range (1 - 140) :		0	Load				
Station Data	Index Rang								
Board Based Data		ID / Desired	Number Save						
	Enter Ind	lex Range : -							
CO Line Data	Start Stat	tion Number :							
System Data	Save Pas	ssword (same with ID value) : 🔲							
		D	Save						
Station Group Data	Index 18 C	Registered Number ≟ª Linked Ver	-i ID	Deserved	7	Dening d Number	Nation Code	Lawara	Demark
ISDN Line Data	Index 1ª F	kegistered Number 1º Linked ver	sion ID	Password	Zone	Desired Number	Nation Code	Language     English	Remark
	2				1				×
SIP Data	3				1				<ul> <li>✓</li> </ul>
Tables Data	4				1				v [
	5				1			-	<b>v</b>
Networking Data	6				1				v
Zone Data	7				1				✓
	8				1				~
Device Login	9				1				<ul> <li>Image: Image: Ima</li></ul>
Remote device Register(442)	10				1		U.S.A		~
Station User Login(443)	11				1		U.S.A		~
	12				1		U.S.A		~
DECT Data	13				1		U.S.A		<b>~</b>
Green Mode	14				1		U.S.A	- English	<b>~</b>
	15				1		U.S.A	- English	✓
Initialization	16				1		U.S.A	🖌 English 🚦	<b>v</b>
	17				1		U.S.A	🖌 English 🚦	✓
	18				1		U.S.A	🖌 English 👔	✓
	19				1		U.S.A	🖌 English 🕴	<b>~</b>
	20				1		U.S.A	<ul> <li>English</li> </ul>	<b>v</b>

Figure 4.4.12.2-1 Station User Login

Station User Login is primarily intended for Phontage & UCS Client registration. A station must register with the system each time it is connected to the system. A user may register the Phone employing a Login code (User ID) and password. Once registered, the station number is assigned. The system will allow any User ID and password for registration. Once registered, this User ID must match the password for future registrations. The ID and password can be pre-assigned along with definition of Zone, desired station number, country code, Language and a remark. For UCS client, the password is controlled by the UCS server and it is disabled in MPB. A link-paired station can be assigned or pre-assigned by assign the same Desired-Number as a Master station.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registered Number	Station number registered to the station, displayed only after registration.	Station number	
ID	User Login ID	12 Characters	
Password	User Login password.	12 digits	
Zone	The Zone to be assigned to the device.	1-32	1
Desired Number	Station number desired for the device.	Station number	
Nation code	Nation or country location of the device.	See Table 4.3.1-2.	Assigned in System ID
Language	Devices' default language. The language selection type is this default language or English.	Language Code	Nation dependent

Table 4.4.12.2-1 STATION USER LOGIN

## 4.4.13 DECT Data - PGM 491

Selecting the DECT Data program group returns the sub-menu displayed in the left frame as shown in Figure 4.4.13-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans	10 20 25 30	
Station Data	10 20 25 30	
Board Based Data	Common Attributes(111) Station Group Attributes(191)	10
CO Line Data	CO Call Rerouting(252) Station Group Assignment(190)	7
System Data	CO/P Ring Assignment(144) Station Type(110)	6
Station Group Data	SIP CO Attributes(133)	5
ISDN Line Data	CLI Attributes(113) Flex Buttons(115/129)	5 5
SIP Data	Common Attributes(140)	5
Tables Data		
Networking Data		
Zone Data		
Device Login		
DECT Data ~		
DECT Registration(0#) DECT Attributes(491)		
Green Mode		
Initialization		

Figure 4.4.13-1 DECT Data Main Page

### 4.4.13.1 DECT Registration

Selecting DECT Registration returns the DECT Registration input page, Figure 4.4.13.1-1.

PECS eMG80		Administ	ration	Ma	intenance			Change Langu	age Log
PGM Search	Fa	avorite PG	M DECT F	Regist	ration(0#) ×				
System ID & Numbering Plans									ſ
Station Data				Attribu	ıte	Val	ue	Comment	
Board Based Data	0	Park Co				NOT PROG			
	0	AC Cod	le			1111			
CO Line Data	0	DECTS	Subscribe All I	Data E	Erase Password				
System Data					Option				
Station Group Data	0	DECT Subscribe enable		Desired Station Phone Type	3 (GDC-34	ba/4xx() 🔽			
	0	DECTI	Jnsubscribe		Desired Station				
ISDN Line Data	0	DECTI	Jser Authentio	cation	Desired Station				
SIP Data	0	DECTN	Aobility		Desired Station DECT Mobility ON/OFF	OFF 🔽	] write		
Tables Data	0	Station	Erase		Desired Station				
Networking Data			DECT Reg	istere	d Station				
Zone Data	0	rder	Station	R	legistration Status				
Device Login									
DECT Data	~								
<ul> <li>DECT Registration(0#)</li> <li>DECT Attributes(491)</li> </ul>									

Figure 4.4.13.1-1 DECT Subscription Screen

On this page, the DECT id and authorization codes are defined. In addition, a pull down menu selects one of four subscription events, subscribe, (de)subscription, mobility or display registered stations. A separate password box permits password entry to terminate (erase) all DECT subscriptions. **Note iPECS eMG80 supports only GDC-600BE base station.** 

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Park Code	PARK (Portable Access Rights Key) Code : Unique System Id entered at DECT handset subscription to identify the system. To assign a PARK code, enter code and click <b>[Save]</b> button.	14 digits	
AC Code	Authentication Code entered at DECT handset to verify subscription. To assign AC Code, enter AC value and click <b>[Save]</b> button.	Up to 8 digits	
DECT Subscribe All Data Erase Password	To erase all data of DECT, enter the password.		
	Option		
DECT Subscribe Enable	Enables the system to accept subscription from a DECT handset.		
Desired Station Desired station number for the wireless DECT handset.		Station Number	

#### Table 4.4.13.1-1 DECT Registration

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Phone Type	Several types of handsets may be selected.	1(GDC-330/335) 2(Standard GAP) 3(GDC-34x/4xx) 5(GDC-5XX)	3
	Press <b>[Send]</b> button after entering the number and type.		
DECT Unsubscribe	Terminates the subscription for a DECT handset.	Station number	
DECT User Authentication	Enter the authentication number.		
DECT Mobility	When a DECT handset is registered at multiple systems that are networked, calls can be routed over the network to the DECT handset location.		
Station Number	Enter the registered station number, select Mobility ON or OFF and click <b>[Send]</b> button	Station number	
Registered Stations	Displays all registered DECT handsets.		
Station Erase	Enter the registered station number and click [Send] button, the subscription is terminated and the wireless DECT handset will no longer be serviced.	Station number	

Table 4.4.13.1-1 DECT Registration

### 4.4.13.2 DECT ATTRIBUTES - PGM 491

Selecting the DECT Attributes returns the DECT ATTRIBUTES input page, Figure 4.4.13.2-1.

<b>ECS</b> 5 eMG80	Adr	ministration	Maintenance	Char	ge Language
M Search	Favori	te PGM DECT Attr	ibutes(491) ×		
stem ID & Numbering Plans					
ition Data	Order	Attribute	Value		
ard Based Data	1	Auto Call Release			
	2	Base Falult Alarm	Disable 🗸		
Line Data	3	Chain Fault Alarm	Disable 🗸		
tem Data					
ion Group Data					
)N Line Data					
º Data					
bles Data					
tworking Data					
ne Data					
vice Login					
CT Data	~				
ECT Registration(0#)					
ECT Attributes(491)					

Figure 4.4.13.2-1 DECT ATTRIBUTES

DECT Attributes define functions associated with the DECT equipment and operation as shown in Table 4.4.13.2-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Call Release	If enabled, when the other party of an active internal call	OFF	OFF
	disconnects, DECT terminal returns to idle.	ON	
Base Fault Alarm	If enabled, DECT Base station alarms are sent to the	Disable	Disable
	Attendant.	Enable	
Chain Fault Alarm	It is not used for eMG80.	Disable	Disable
		Enable	

## 4.4.14 Green Mode - PGM 500

Selecting the Green Mode program group returns the sub-menu displayed in the left frame as shown in Figure 4.4.14-1.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
PGM Search	Favorite PGM	
System ID & Numbering Plans	10 20 25 30	
Station Data		
Board Based Data	Common Attributes(111) Station Group Attributes(191)	10
CO Line Data	CO Call Rerouting(252) Station Group Assignment(190)	7
System Data	CO/IP Ring Assignment (144) Station Type (110)	6
Station Group Data	SIP Co Attributes(133) CLI Attributes(133)	5
ISDN Line Data	Flex Buttons(115/129)	5
SIP Data	Common Attributes(140)	<b>5</b>
Tables Data		
Networking Data		
Zone Data		
Device Login		
DECT Data		
Green Mode 🗸 🗸 🗸		
Green Mode Activation(500) Green Mode Time Setting(501)		
Initialization		

Figure 4.4.14-1 Green mode main page

#### 4.4.14.1 Green mode activation

Selecting Green Mode Activation returns the page shown, Figure 4.4.14.1-1.

PECS ECS eMG80	A	dministratio	n Maint	enance		Change Language	Log
PGM Search	Favo	rite PGM	Green Mode Ac	tivation(500) ×			
System ID & Numbering Plans							Sa
Station Data							Power
Board Based Data	Power	Save Usage	: Disable 💌				Power
CO Line Data	Slot N	o. Board Typ	e Station Range	Power Save Mod			
System Data	1	HYIB HYIB	100 - 107 108 - 115	Disable 🗸	ON ON		
Station Group Data							
ISDN Line Data							
SIP Data							
Tables Data							
Networking Data							
Zone Data							
Device Login							
DECT Data							
Green Mode	~						
Green Mode Activation(500) Green Mode Time Setting(501)							
Initialization							

Figure 4.4.14.1-1 Green Mode Activation

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

ATTRIBUTE	DESCRIPTION	DEFAULT					
Power Save Usage	Enables or Disables Power Save usage.	Disable					
Slot No.	The Slot Number of board supporting power control.						
Board Type	Board Type.						
Station Range	Station Number Range of board supporting power control.						
Power Save Mode	Enables or Disables Power Save Usage Mode of each board.	Disable					
Current Status	Displays the current status of board power ON/OFF.	ON					
Power ON button	Power ON manually all of stations in Power Save used board.						
Power OFF button	Power OFF manually all of stations in Power Save used board.						

### 4.4.14.2 Green Mode Time Setting

Selecting the Green Mode Time Setting returns the page shown, Figure 4.4.14.2-1.

1 Search			×	
	Favorite PGN	Green Mode Time S	Setting(501) ×	
tem ID & Numbering Plans				
tion Data			_	
	Attribute	Value Power On Time	Range	
ird Based Data	Monday	Power OFF Time		
Line Data		Power On Time		
	Tuesday	Power OFF Time		
tem Data		Power On Time		
on Group Data	Wednesday	Power OFF Time		
		Power On Time	hhmm (Must he 4 digite)	
N Line Data	Thursday	Power OFF Time	hhmm (Must be 4 digits) 00:00 ~ 23:59	
)ata		Power On Time		
	Friday	Power OFF Time		
is Data		Power On Time		
vorking Data	Saturday	Power OFF Time		
<u>y</u>		Power On Time		
Data	Sunday -	Power OFF Time		
ce Login				
CT Data				
n Mode	,			
on Mode Activation/500)				
en Mode Activation(500) en Mode Time Setting(501)				

Figure 4.4.14.2-1 Green Mode Time Setting

The power ON/OFF time can be assigned to control Green Mode automatically. The power ON/OFF time can be defined at each day in a week. And when defined that time, power to assign board will be served or not.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Power ON Time	The time to start power supply to assigned board.	hhmm (Must be 4 Digits)	
Power OFF Time	The time to stop power supply to assigned board.	hhmm (Must be 4 Digits)	

Table 4.4.14.2-1	<b>Green Mode</b>	Time Setting
------------------	-------------------	--------------

# 4.4.15 Initialization - PGM 450

Selecting Initialization will return the sub-menu in the left frame in as shown in Figure 4.4.15-1.

PECS PECS eMG80	Administration Maintenance	Change Language Log
PGM Search	Favorite PGM	
System ID & Numbering Plans	10 20 25 30	
Station Data		
Board Based Data	Common Attributes(111) Station Group Attributes(191)	10
CO Line Data	CO Call Rerouting(252) Station Group Assignment(190)	7
System Data	CO/IP Ring Assignment(144)	6
Station Group Data	Station Type(110) SIP CO Attributes(133)	6 5
ISDN Line Data	CLI Attributes(113) Flex Buttons(115/129)	5 5
SIP Data	Common Attributes(140)	5
Tables Data		
Networking Data		
Zone Data		
Device Login		
DECT Data		
Green Mode		
Initialization $\checkmark$		
Initialization(450)		

Figure 4.4.15-1 Initialization

### 4.4.15.1 Initialization Table - PGM 450

Selecting Initialization will display the Initialization Table data entry page, Figure 4.4.15.1-1.

PGM Search	Favori	te PGM Initialization(450)	×O	
System ID & Numbering Plans				Initia
Station Data				Reset Syst
Board Based Data	Select	Attribute	Value	Remark Re
		All Database		
CO Line Data		Flexible Number Plan		PGM106~109
		Station Data	-	PGM111~114,115/129,116~127
System Data		CO Line Data	-	PGM140~147,150~153,Name
Station Group Data		System Data		PGM100,105,106,238,160~177,179,183,197,250,251,253,255,436~444,491,Custom Msg,PPTP Attr
•		Station Group Data		PGM190~192
ISDN Line Data		ISDN Table		PGM201~203,206,231
SIP Data		System Timer		PGM180~182,186
on Data		Toll Table		PGM224
Tables Data		LCR Data		PGM220~223
		Other Tables		PGM227~229,232~233,236
Networking Data		Flexible Button		PGM115,129
Zone Data		Networking Data		PGM320~325
		SIP Data		PGM126,133,210~212,215,216
Device Login		Zone Data		PGM436~441,444
DECT Data		Remote device Register	-	PGM442
DECT Data		Station User Login	-	PGM443
Green Mode		Personal Group Data		PGM260,261
		Remove default password(*	)	PGM227 (Authorization Code Only)

Figure 4.4.15.1-1 Initialization Menu

The system has been pre-programmed with certain features using the default data. The default data are loaded into memory when the system is initialized. The system should always be initialized when first installed or the database appears corrupted. The system can be initialized manually during installation, refer to the *iPECS eMG80 Hardware Description & Installation Manual*, the system should be reset.

# 4.5 Maintenance

The System Management tab from the main screen permits download of all or portions of the system's database up/down loading, viewing of SMDR data and upgrade system and device/IP phone image, see Figure 4.5-1.

iPECS eMG80	Administration	Maintenance		Change Language	Log Out
OM/Linerado	Outom Information				
S/W Upgrade	Sytem Information				
Database		iP	ECS eMG80		
Multi Language		(nn ) (oroige		-	
SMDR		Boot \	i - MPB/VD86M-1.0Aj JUN/1: /ersion - 1.0Ae APR/13 rnel Version - 10Aa	3	
File System		Ne	HAV Issue - 0		
License Install					
DECT Statistics Feature					
VSF Prompt Upload					
VSF SG Up&download					
User Management					
Trace					
TDM Gain Control					
IP Gain Control					
Tone/Ring Gain&Cadence Control					
Appliances Control					

Figure 4.5-1 Maintenance Main Page

As eMG80 software is being upgraded regularly, we cannot guarantee the above software version displayed and it may be different from the current version.

## 4.5.1 File Upload & Remote Upgrade

The iPECS eMG80 employ a NAND based memory file system thus, html, MPB upgrade and iPECS appliance image files can be uploaded. All of the iPECS series modules can be upgraded by remote access. Selecting S/W Upgrade from the main Web screen returns the Appliance Version page and sub-menus in the left frame as shown in Figure 4.5.1-1.

iPECS iPECS eMG80	Administration	Maintenance		Change Language	Log Out
S/W Upgrade v	Sytem Information				
File Upload Upgrade Process		iPl	ECS eMG80		
Database			MPB/VD86M-1.0Aj JUN/13 Prsion - 1.0Ae APR/13		
Multi Language			nel Version - 10Aa H/W Issue - 0		
SMDR					
File System					
License Install					
DECT Statistics Feature					
VSF Prompt Upload					

Figure 4.5.1-1 File Upload & Remote Upgrade

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

The VMIU is part of the MPB and VSF prompts are upgraded by uploading prompt files to the MPB. VMIB prompts are upgraded by direct upload of prompt files to the VMIB.

#### 4.5.1.1 File Upload

From the File Upload page, Figure 4.5.1.1-1, click the Add files button and then open the pop-up folder. Select the desired file to upload to the system's memory and click the **[Start]** button. The file is sent to the system's memory, saved and automatically loaded upon a system reset or restart. Html image files are extracted and previous HTML files are deleted at completion of the upload process. New VSF prompt files are also available immediately upon successful uploaded.

IPECS eMG80		Administration Maintenance	Change Language	Log Out
S/W Upgrade	v	Sytem Information File Upload X		A V
File Upload Upgrade Process		Select Upload File and Wait for Uploading to end!!		
Database		+ Add files		
Multi Language		GS94PB1Ad rom 2.32 MB O Sitat O Cancel		
SMDR				
File System				
License Install				
DECT Statistics Feature				

Figure 4.5.1.1-1 File Upload

\* If file upload succeeds, a success page will be displayed.

#### 4.5.1.2 Upgrade Process

If the iPECS Appliance image is uploaded, the appliances of the type for which an image was uploaded will be displayed and can be selected to upgrade, as shown in Figure 4.5.1.2-1 Upgrade Process. Select the desired appliance and click **[Upgrade]** button, the upgrade process will start and a progress screen will be displayed. Note if the Appliance is already in the process of an upgrade.

iPECS iPECS eMG80		Adminis	tration	Mainter	nance				Ch	iange Language 🛛 Log Out
S/W Upgrade	۲	Sytem Info	mation	File Upload	× Upgrade Pro	ocess X				
File Upload  Vupgrade Process		Uploaded SA	N : LIP907	0 Phone (Versi	on : B.1Ad)					Upgrade
Database		-			Current Version		Status			
Multi Language		2	123	10.123.187.11	B.1Ad					
SMDR										
File System										
License Install										
DECT Statistics Feature										
VSF Prompt Upload										

Figure 4.5.1.2-1 Upgrade Process

#### 4.5.1.2.1 Upgrade Process View

The Upgrade Process View provides a status window; refer to Figure 4.5.1.2.1-1 Upgrade Process View, for Module and terminal upgrade activity in process.

iPECS iPECS eMG80	Admini	stration	Mainter	ance					Change Language	Log Out
S/W Upgrade v	Sytem Inf	ormation	File Upload	× Upgrade Pr	ocess ×					
File Upload  Vupgrade Process	Uploaded S/	W : LIP907	'O Phone (Versi	on : B.1Ad)						Upgrade
Database				Current Version		Status				
Multi Language		123	10.123.187.11	B.1Ad		35%				
SMDR										
File System										
License Install										

Figure 4.5.1.2.1-1 Upgrade Process View

### 4.5.1.2.2 VSF Prompt Upgrade View

The VSF Prompt Upgrade View provides a status window; refer to Figure 4.5.1.2.2-1 VSF Prompt Upgrade Process View, for VSF prompt upgrade activity in process. Note that up to three prompt files, one for each supported language can be uploaded to the VMIU.

IPECS IPECS eMG80	Administration	Maintenance	
S/W Upgrade	Sytem Information	File Upload × Upgrade Process	× Prompt Upload / Delete ×
Database	Select Voice Prompt T	o Delete	
Multi Language	Select All	Position	Version
SMDR		First	GS10Ea
		Second	KR10Da
File System		Third	NO-PPT
License Install		Fourth	NO-PPT
		Fifth	NO-PPT
DECT Statistics Feature		Sixth	NC-PPT
VSF Prompt Upload 🗸 🗸		Delete	
> Prompt Upload / Delete Individual Upload	Select Voice Prompt F	ile and Wait for Uploading to End Inter in File Name !!	
VSF SG Upådownload	Third 🕑 🕂 A	dd files	
User Management		4.4	1 Mbit/s   00:00:06   36:34 %   2:15 MB / 6.91
Trace	AS96WAUCb.rom 5	.91 MB	O Start O Cancel
TDM Gain Control			

Figure 4.5.1.2.2-1 VSF Prompt Upgrade Process View

#### 4.5.1.2.3 iPECS eMG80 Upgrade Process

#### iPECS Software Full Upgrade Sequence

The following shows the order in which the upgrade process proceeds and firmware files for iPECS and modules. Note the xxxx in the ROM file names indicates the version number of the file.

#### MPB Upgrade Process

- 1. Upload MPB application image. iPECS eMG80 GS86Mxxxx (xxxx indicates the version)
- 2. Restart MPB.

#### Appliances Upgrade Process

- LIP 8012/8024/8040E application image:
   GS98Pxxxx.rom (xxxx indicates the version)

   LIP 8002E application image:
   GS99Pxxxx.rom (xxxx indicates the version)
- 2. Select target appliances & Upgrade application image.
- 3. Wait until upgrade process completes.
- 4. Automatically restart when upgrade completes successfully.

#### Upgrade of Voice Prompt

- 1. Access to VSF Prompt Upgrade page.
- 2. Select First/Second/Third for multiple language voice prompt.
- 3. Upload the proper prompt file.

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

#### Upgrade of Voice Prompt to VMIU

- 1. Access to MPB.
- 2. Select First/Second/Third for multiple language of voice prompt.
- 3. Upload the proper prompt file to VMIU.

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

#### 4.5.1.2.4 MPB Upgrade

First, confirm previous version of MPB, then upload the desired ROM files and reset system. If the new system database is not compatible with existing system database, it will be necessary to initialize the system database. This can be done manually using the Initialize Dip-switch located on the MPB.

Upgrade of the MPB includes HTML files; a separate upload of the HTML files is not required.

### 4.5.1.3 Upgrade HTML Files

The "File View" Menu is used to upload file and reload the system's html files. Upload time of html will take 5 ~ 10 minutes.

#### 4.5.1.3.1 Appliances Upgrade (Device and iPECS Phone)

Upload appliance image, and click **[Upgrade process]** button to select upgrade appliances. If appliances are selected, click **[Upgrade]** button. The page shown in Figure 4.5.15-1 will be displayed indicating the Upload command has been sent and upgrade process is working. This page will display the Upload status. When the appliance upgrade process is successful, the status is updated to "Success". If the upgrade process fails, the process is attempted an additional three (3) times before abandoned.

### 4.5.1.3.2 Direct Appliances Upgrade

Should the above MPB managed upgrade process fail, appliances (Devices and iPECS Phones) can be upgraded directly using the appliance IP address as the upgrade destination address. Note the later may require local access.

	Download
N N	bownload terning The download process will reset the unit into the download mode. This will terminute all network connections and reset your browser connections.
6 A A A A A A A A A A A A A A A A A A A	FTP Deventued (Select remote TFTP) server (P) address and filename) TFTP: Server (P) Filename Start TFTP Deventued
i	TTP Download method (Select Rename on local browser machine) Pitename Start HTTP Covenant

Figure 4.5.1.3.2-1 iPECS Phone Direct Connect Upgrade

### 4.5.2 Database

Selecting the Database menu item will display the Database sub-menu items in the left frame as shown in the Figure 4.5.2-1.

iPECS eMG80	Administration	Maintenance	Cł	nange Language	Log Out
OMM/ University	Colore Information				
S/W Upgrade	Sytem Information				
Database ~		iF	PECS eMG80		
Database Upload Database Download		App Versio	n - MPB/VD86M-1.0Aj JUN/13 /ersion - 1.0Ae APR/13		
Multi Language		K	ernel Version - 10Aa HAV Issue - 0		
SMDR					
File System					
License Install					
DECT Statistics Feature					
VSF Prompt Upload					
VSF SG Up&download					
Lloor Monorcomont					

Figure 4.5.2-1 Database Main Page

#### 4.5.2.1 Database Upload

The Database Upload selection returns the Database Upload page as shown in Figure 4.5.2.1-1. By selecting the database file desired from the local PC, the desired database can be uploaded to the iPECS eMG80's database and click Reset button.

iPECS iPECS eMG80	Administration Maintenance Change Language Log Out
SAV Upgrade	Sytem Information Database Upload
Database	Select Database File and Wait for Uploading to end!!
Database Upload Database Download	+ Add files
Multi Language	GS86M10Aj app.rom 10.22 MB Reset SUCCESS - Clear
SMDR	
File System	
License Install	
DECT Statistics Feature	

Figure 4.5.2.1-1 Database Upload

#### 4.5.2.2 Database Download

Selecting Database Download will display the Database Download page Figure 4.5.2.2-1. Selecting this option will download the entire iPECS eMG80 database to the local PC. This also allows the database in the PC to be uploaded to an iPECS eMG80 using the file upload procedures in section 4.5.1.1.

PECS eMG80	Administration. Maintenance	Change Language Log C
S/W Upgrade	Sytem Information File Upload * Upgrade Process * Prompt Upload / Delete * Database Download & O	
Database	DB Download	
Database Upload > Database Download	Select structure to download : All Database	
Multi Language	Download	
SMDR		
File System		
License Install		
DECT Statistics Feature		
VSF Prompt Upload		
VSF SG Up&download		
User Management		
Trace		
TDM Gain Control		
IP Gain Control		
Tone/Ring Gain&Cadence Control		
Appliances Control		

Figure 4.5.2.2-1 Database Download

Clicking on **[Download]** button will present the File Download window. Files should be saved to disk. Note that this screen will appear for all download processes.

## 4.5.3 Multi Language

Selecting the Multi Language menu will display the Multi language sub-menu items in the left frame as shown in the Figure 4.5.3-1.

iPECS eMG80	Administration	Maintenance		Change Language	Log Out
S/W Upgrade	Sytem Information				
Database			500 - M000		
Multi Language v			ECS eMG80		
Multi Language File Upload Multi Language File Download		Boot	) - MPB/VD86M-1.0Aj JUN/13 /ersion - 1.0Ae APR/13 rnel Version - 10Aa H/W Issue - 0	I	
SMDR					
File System					
License Install					
DECT Statistics Feature					
VSF Prompt Upload					
VSF SG Up&download					
User Management					
Trace					
TDM Gain Control					
IP Gain Control					
Tone/Ring Gain&Cadence Control					
Appliances Control					

Figure 4.5.3-1 Multi Language Main Page

#### 4.5.3.1 Multi Language File Upload

The Multi Language File Upload selection returns the Multi Language File Upload page as shown in Figure 4.5.3.1-1. By selecting the Multi Language File desired from the local PC, the desired Multi Language File can be uploaded to the iPECS eMG80's.

IPECS eMG80	Administration	Maintenance		
S/W Upgrade	Sytem Information Mult	ilti Language File Download	Multi Language	File Upload C
Database	Select Multi Language File	e and Wait for Uploading to	end!!	
Multi Language ~	×-			
Multi Language File Upload Multi Language File Download	+ Add files	100,00,1/0	0100500	
SMDR	common.lang (7).csv	190.89 KB	SUCCESS	- Clear
File System				
License Install				
DECT Statistics Feature				
VSF Prompt Upload				



#### 4.5.3.2 Multi Language File Download

Selecting Multi Language File Download will display the Multi Language File Download page Figure 4.5.3.2-1. Selecting this option will download the entire iPECS eMG80 Multi Language File to the local PC. This also allows the Multi Language File in the PC to be uploaded to an iPECS eMG80 using the file upload procedures in section 4.5.1.1.

IPECS eMG80	Administration	Maintenance	
SAW Upgrade	Sytem Information	Multi Language File Download 🕺	
Database			
Multi Language 🗸 🗸	Press [Download] butto	n for download / Check messages and press	Delete] button
Multi Language File Upload	Check All	File Name	
Multi Language File Download		common.lang.csv	Download
SMDR			
File System			
License Install			
DECT Statistics Feature			
VSF Prompt Upload			
VSF SG Up&download			
User Management			
Trace			
TDM Gain Control			
IP Gain Control			
Tone/Ring Gain&Cadence Control			
Appliances Control			

Figure 4.5.3.2-1 Multi Language File Download

## 4.5.4 SMDR

The iPECS eMG80 can download SMDR data in a SYLK format file (.slk). This file can be opened under any common spreadsheet application. The system will provide a view of SMDR data for the station range entered in the Web page Figure 4.5.4-1. This page may also be employed to delete SMDR records for the station range entered.

iPECS iPECS eMG80	Administration Maintenance	Change Language Log Out
S/W Upgrade	Sytem Information SMDR ×	
Database	SMDR All Data Download	
Multi Language	Station Range View Delete	
SMDR ~	SMDR Interface Data Download	
> SMDR	SMDR Interface Data View View SMDR Interface Data Delete Delete	
File System	SMDR Interface Data Delete Delete	
License Install		
DECT Statistics Feature		
VSF Prompt Upload		
VSF SG Up&download		
User Management		
Trace		
TDM Gain Control		
IP Gain Control		
Tone/Ring Gain&Cadence Control		
Appliances Control		

Figure 4.5.4-1 SMDR Access

## 4.5.5 File System

Selecting the File system menu will display the File system sub-menu items in the left frame as shown in the Figure 4.5.5-1.

iPECS iPECS eMG80	Administration	Maintenance		Change Language	Log Out
S/W Upgrade	Sytem Information				
Database		iF	ECS eMG80		
Multi Language		(app.)/orgiou	) - MPB/VD86M-1.0Aj JUN/1	2	
SMDR		Boot	/ersion - 1.0Ae APR/13 rnel Version - 10Aa	3	
File System 🗸 🗸		N.E	HW Issue - 0		
File View & Delete					
File System Information					
License Install					
DECT Statistics Feature					
VSF Prompt Upload					
VSF SG Up&download					
User Management					
Trace					
TDM Gain Control					
IP Gain Control					
Tone/Ring Gain&Cadence Control					
Appliances Control					

Figure 4.5.5-1 File System Main Page

### 4.5.5.1 File View & Delete

PECS PECS eMG80	Administration	Maintenance		Change Language
S/W Upgrade	Sytem Information	Multi Language File Download 🕺 Multi Lang	uage File Upload × File View & Delete 👷	
Database				ſ
Multi Language	Check All	File Name	File Size	
SMDR		Upload Directory list		
		GS94PB1Ad.rom	2318928	
File System	× 🗆	GS94PB1Aa.rom	2312619	
File View & Delete		HTTP Directory list		
File System Information		DB_ALLeMG80.admgz	700332	
		GS86H10Aj.rom	3420790	
License Install		_main_app2.rom	30439001	
DECT Statistics Feature				
VSF Prompt Upload				
VSF SG Up&download				
User Management				
Trace				
TDM Gain Control				
IP Gain Control				
Tone/Ring Gain&Cadence Control				
Appliances Control				

Figure 4.5.5.1-1 File View and Delete

Check and delete some files if those are unused.

#### 4.5.5.2 File System Information

PECS ECS eMG80	Administration	Maintenance				Change Language	Log C
S/W Upgrade	Sytem Information	Multi Language File Download	Multi Language File Upload	File View & Delete	File System Information 👷		
Database		Attribute	Value				
Multi Language	Total Disk Space	Altibule	98304 KBytes				
main congroup	Free Disk Space		37312 KBytes				
SMDR	Total Main Disk Spa	ce	98304 KBytes				
File System	Free Main Disk Spar	ce	37312 KBytes				
File View & Delete							
File System Information							
License Install							
DECT Statistics Feature							
VSF Prompt Upload							
∨SF SG Up&download							
User Management							
Trace							
TDM Gain Control							
IP Gain Control							
Tone/Ring Gain&Cadence Control							
Appliances Control							

Figure 4.5.5.2-1 File System Information

Check system directory usage (free space).

# 4.5.6 License Install

CS eMG80	Administration	Maintenance	Change Language
S/W Upgrade	Sytem Information Licer	ise Install	
Database		÷	
Multi Language		Key : 000E2E	E40C102388
	Index	Value	State
SMDR	Network		
File System	EZ ATTD		
	CTI(TAPI)		
License Install	· · ·		Soft Phone : 0 Copy
	Soft Phone		Video Phone : 0 Copy (2 copies free)
License Install	UCS Client		Desktop:0 Copy Mobile:0 Copy
DECT Statistics Feature	Hotel		
VSF Prompt Upload	TNET(LOCAL-SURVIVAL)		
	NMS		
VSF SG Up&download	SIP Phone		0 Copy
			VOIB Channel : 0 Copy
User Management	Voip Channel		VOIU Channel : 0 Copy (2 copies free)
Trace			Available VOIB: 0 channels, VOIU: 2 channels
11400	FIAS(Fidelio)		
TDM Gain Control	IPCR		Server Number : 0 Copy
			Agent ID Number : 0 Copy
IP Gain Control	SIP VM		Server Number : 0 Copy Agent Number : 0 Copy
Tone/Ring Gain&Cadence Control			VMIB Channel: 0 Copy
Tones and Cadence Control	VMIU/VMIB		VOIB Mem : Uninstalled
Appliances Control	VINICOVINIB		VOIU Channel : 0 Copy (2 copies free)
			Available VMIB: 0 channels, VMIU: 2 channels
	IP Communicator		0 Copy(2 copies free)
	IP Attendant		Office : 0 Copy Hotel : 0 Copy
			Server : Not activated (Key: 000000000000)
	Contact Center		CCS SIP: No free
			RCC Server : Uninstalled
	MS LYNC		RCC Clint: 0 Copy
	And the Mark Deckson		EV Channel : 0 Copy
	Application Package Phontage Deluxe 2copies		
	IP communicator 2copies		
	IP Attendant 1 copy		
	Demo Key		

Figure 4.5.6-1 License Install

Activate and check current license status. To use the application in the field, the license is required.

# 4.5.7 DECT Statistics Feature

PECS CS eM680	Administration	Maintenance						Change Language Log
S/W Upgrade	Sytem Information	Multi Language File D	Download 🕺 Multi Language F	ile Upload 🕺 File V	/iew & Delete	File System Information	× DECT Statistics ×	
Database								Sen
Wuti Language	Attribute	WTID NO	Descrip	ion				- dei
	drop		Statistics data on MPB					
SMDR	O dolear		Clear statistics data on MPB					
File System	O upload		Upload data					
icense Install	O Call		Total number of call & direction					
ucense Install	O subs		Information per subscripted di	rice				
DECT Statistics Feature	O eoc		End of call					
DECT Statistics	O cell		Usage of freq and slot					
DECT Statistics	O traf		Show holding time					
/SF Prompt Upload	O acce		Access info. (basic/handover)					
/SF SG Up&download	O clea		Clear statistics data					
var als opedownioad	Iinestart		start line test between WTIB	nd BASE				
Jser Management	O linestop		stop line test between WTIB a	nd BASE				
race	O stateupload		Upload WTIB's state					
intery .	O stateview		View WTIB's state					
TDM Gain Control	O stateclear		Clear WTIB's state					
P Gain Control	os drop							
Fone/Ring Gain&Carlence Control	STN TOTA	L_CALL CALL	_DROP NO_RESPO	NSE CODEC_UN	AVAILABLE			
Appliances Control	130	0		0.00) 0	( 0.00)			
	3UN		0 ( 0.00) 0 (		( 0.00)			

Figure 4.5.7-1 DECT Statistics Feature

Selected DECT statistics will be display. Note that iPECS eMG80 supports only GDC-600BE base station.

## 4.5.8 VSF Prompt Upload

Selecting the VSF Prompt upload menu item will display the VSF Prompt upload sub-menu items in the left frame as shown in the Figure 4.5.8-1.

iPECS eMG80	Administration	Maintenance	Change Languag	e Log Out
S/W Upgrade	Sytem Information			
Database	Sytem mormation			
Multi Language		iF	PECS eMG80	
SMDR			n - MPB/VD86M-1.0Aj JUN/13 Version - 1.0Ae APR/13	
File System		Kε	ernel Version - 10Aa HAV Issue - 0	
License Install				
DECT Statistics Feature				
VSF Prompt Upload V				
Prompt Upload / Delete Individual Upload				

Figure 4.5.8-1 VSF Prompt Upload

## 4.5.8.1 Prompt Upload/Delete

PECS PECS eMG80	Administration	Mainte	enance	Change Language	Log (
S/W Upgrade	Sytem Information	Prompt Upl	oad / Delete X		
Database	Select Voice Prompt T	o Delete			
Multi Language	Select All	Position	Error : Do not find this string		
SMDR		First	GSAOFa		
File Oustern		Second Third	KR10Da TK10Ba		
File System		Fourth	CS10Ba		
License Install		Fifth	ASAOCc		
DECT Statistics Feature		Sixth	GMA0Bb		
VSF Prompt Upload	~	Delete	3		
Prompt Upload / Delete	Select Voice Prompt F	le and Wait f	or Uploading to End		
Individual Upload	Don't Use Space Chara	ncter in File N	ame ‼		
VSF SG Up&download	First 💌				
User Management	+ Add files				

Figure 4.5.8.1-1 Prompt Upload and Delete

## 4.5.8.2 Individual Upload

iPecs iPECS eMG80	Administration Mainte	nance	Change Language Log Out
S/W Upgrade	Sytem Information Individual U	pload ×	
Database	Select Prompt Message File and Wa	ait for Uploading to End	
Multi Language	Valid File Name : 1.wav~999.wav		
SMDR	Message should be G.711 u-law way		
File System	Don't Use Space Character in File Na	ame ::	
License Install	+ Add files		
DECT Statistics Feature			
VSF Prompt Upload ~			
Prompt Upload / Delete			
> Individual Upload			
VSF SG Up&download			
User Management			
Trace			
TDM Gain Control			

Figure 4.5.8.2-1 Individual Upload

## 4.5.9 VSF SG UP & Download

Selecting the VSF SG Up & Download menu item will display the VSF SG upload and download sub-menu items in the left frame as shown in the Figure 4.5.9-1.

	Administration	Maintenance		Change Language
SM Upgrade	Sytem Information			
Database		i	PECS eMG80	
Multi Language				
SMDR		Boot	n - MPB/VD86M-1.0Aj JUN Version - 1.0Ae APR/13	/13
File System		K	ernel Version - 10Aa HAV Issue - 0	
License Install				
DECT Statistics Feature				
VSF Prompt Upload				
VSF SG Up&download V				
Individual Upload				
Individual Download				
SysGreeting Upload SysGreeting Download				
User Management				
Trace				
TDM Gain Control				
IP Gain Control				
Tone/Ring Gain&Cadence Control				
Appliances Control				

Figure 4.5.9-1 VSF SG UP & Download Main Page

## 4.5.9.1 Individual Upload

iPECS eMG80	Administration Maintenance Change Langua	ge 🛛 Log Out
SAV Upgrade	Sytem Information X Individual Upload X	
Database	Select System Greeting Message and Wait for Uploading to End	
Multi Language	Valid File Name : 1.wav~72.wav or x_1.wav~x_72.wav (x: 1~6)	
SMDR	Message should be G.711 u-law wave file format Don't Use Space Character in File Name !!	
File System	First 💌	
License Install	+ Add files	
DECT Statistics Feature		
VSF Prompt Upload		
VSF SG Up&download V		
Individual Upload Individual Download      Concreating Upload		

Figure 4.5.9.1-1 Individual Upload

### 4.5.9.2 Individual download

ECS eMG80	4	Maintenance					Change Language	Log
S/W Upgrade	Sytem Information	Multi Language File Download 🕺	Multi Language File Upload	File View & Delete	File System Information	* DECT Statistics *	Individual Download	× C
Database								D
/lulti Language	Press [Download] butto	n for download / Check messages and	press [Delete] button					
SMDR	Check All	) File Name						
ile System		lype#1						
		1_1 wav	Download					
icense Install		1_2 wav	Download					
ECT Statistics Feature		1_3.wav	Download					
/SF Prompt Upload	-							
/SF SG Upådownload 🛛 🗸 🗸								
Individual Upload								
Individual Download								
SysGreeting Upload SysGreeting Download								
orserenting pomilipad	e de la companya de la compa							
lser Management								
race								
DM Gain Control								
P Gain Control								



### 4.5.9.3 System greeting Upload

iPECS iPECS eMG80	Administration	Maintenance		Change Language	Log Out
S/W Upgrade	Sytem Information*	Individual Download	SysGreeting Upload	×O	
Database	Select System Greetin	g File and Wait for Upload	ling to End		
Multi Language	Тур	e of Language			
	First	English(US)			
SMDR	Second	Korean			
File Oustan	Third	Turkish			
File System	Fourth	Russian			
License Install	Fifth	Australian			
	Sixth	German			
DECT Statistics Feature					
VSF Prompt Upload	Don't Use Space Chara	acter in File Name !!			
VSF SG Up&download V	First 🔽				
Individual Upload	T Add lifes				
Individual Download					
SysGreeting Upload					
SysGreeting Download					
User Management					

Figure 4.5.9.3-1 System Greeting Upload

### 4.5.9.4 System greeting Download

IPECS IPECS eMG80	Administration Maintenance	Change Languag
Multi Language	<u>^</u>	
SMDR	Sytem Information SysGreeting Download C	
File System	Select Type of SystemGreetings to Download	
License Install	First Type of S/G	
DECT Statistics Feature	Don't Use Space Character in File Name !!	
VSF Prompt Upload	Download	
VSF SG Up&download ~		
Individual Upload Individual Download SysGreeting Upload > SysGreeting Download		
Voice Mail Management		
User Management		
Trace		
TDM Gain Control		
IP Gain Control		
Tone/Ring Gain&Cadence Control		
Appliances Control	1	



iPECS eMG80 supports up to 10 system account (ID and password). The Access privilege is determined based on the entered system account (ID/Password). Station user ID and password is managed in PGM 227.

PECS eMG80	Adminis	stration	Mainten	ance	Change Language	Log Out
SAV Upgrade	User Mana	agement	×			
Database						Save
Multi Language				Add User		
SMDR	User ID				Max 16 Characters & Digits English Only / First letter must be Alphabe	t
File System	Password			Show Password	Max 16 Characters & Digits	
License Install	Privilege	Maint 🔿 Admin 🔿				
DECT Statistics Feature		User 🔿				
VSF Prompt Upload						
VSF SG Up&download	Use		Jser List Priv	vilege		
User Management v						
> User Management						
Trace						
TDM Gain Control						
IP Gain Control						
Tone/Ring Gain&Cadence Control						
Appliances Control						

#### Figure 4.5.10-1 User Management

Up to 50 users ID and password can be registered. Up to 10 users can login to a system simultaneously.

# 4.5.11 Trace

CS eMG80	Administrati	ion Maintenance	Change Langua
	<u>^</u>		
SAV Upgrade	Sytem Informa	tion	
Database		i	PECS eMG80
Multi Language			
SMDR		Boot	on - MPB/VD86M-1.0Aj JUN/13 I Version - 1.0Ae APR/13 Grand Version - 1.0Ae
File System		н	Kernel Version - 10Aa HAW Issue - 0
License Install			
DECT Statistics Feature			
VSF Prompt Upload			
VSF SG Up&download			
User Management			
Trace ~			
Set Trace Direction			
Board Trace			
Device Trace			
Virtual Trace Dip Switch(P452)			
Virtual Dip Switch(P453)			
H323 Log			
CO Line Status			
Station Status			
Ping Test			
MPB Log View			
- Gateway Log View			
HTTP Log View			
Dip Switch Status			
Relay Fail Log View			
SIP Auth Log View			
SIP RegUnreg Log View			
TDM Gain Control			
IP Gain Control			
Tone/Ring Gain&Cadence Control			
	~		

Figure 4.5.11-1 Trace Main Page

Trace option can be activated.

Some log information (MPB, gateway, SIP, H323, relay fail etc.) is provided.

# 4.5.12 TDM Gain Control

PECS PECS eMG80	Administration	Maintenance		Change Language	Log
SAV Upgrade	Sytem Information				
Database		-			
Multi Language		I	PECS eMG80		
SMDR		Boot	on - MPB/VD86M-1.0Aj JUI Version - 1.0Ae APR/13	N/13	
File System		k	íernel Version - 10Aa HAW Issue - 0		
License Install					
DECT Statistics Feature					
VSF Prompt Upload					
VSF SG Up&download					
User Management					
Trace					
TDM Gain Control ~					
TDM Gain(P408~418) TDM DSP Gain(P419)					
IP Gain Control					
Tone/Ring Gain&Cadence Control					
Appliances Control					

Figure 4.5.12-1 TDM Main Page

Control voice gain of TDM device for each direction.

# 4.5.13 IP Gain Control

PECS ECS eMG80	Administration	Maintenance	Change Language
S/W Upgrade	Sytem Information		
Database		iPEC	S eMG80
Multi Language			
SMDR		Boot Versi	2B/VD86M-1.0Aj JUN/13 on - 1.0Ae APR/13
File System			/ersion - 10Aa V Issue - 0
License Install			
DECT Statistics Feature			
VSF Prompt Upload			
VSF SG Up&download			
User Management			
Trace			
TDM Gain Control			
IP Gain Control 🗸 🗸			
IPKT Handset Gain(P400)			
IPKT Handsfree Gain(P401)			
SLT Gain(P402)			
ACO Gain(P403)			
DCO Gain(P404)			
VSF Gain(P405)			
External Page Gain(P406)			
DTMF Tone Gain(P426)			
DTMF RTP Gain(P427)			
Mute Ring Gain(P428)			
WTIB Gain(P492/494)			
DKT Handset Gain(P496/497)			
DKT Handfree Gain(P498/499)			
WIT Phone Gain(P480/481)			
Tone/Ring Gain&Cadence Control			
Appliances Control			

Figure 4.5.13-1 IP Gain Control Main Page

Control voice gain for IP device for each direction.

## 4.5.14 Tone/ Ring Gain & Cadence Control

Selecting Tone Table will display the page shown, Figure 4.5.14-1.

iPECS eMG80	Administration	Maintenance		Change Language	Log Ou		
SAV Upgrade	Sytem Information						
Database			500 - 11000				
Multi Language	iPECS eMG80						
SMDR			n - MPB/VD86M-1.0Aj JUN/ Version - 1.0Ae APR/13	13			
			ernel Version - 10Aa				
File System			HAV Issue - 0				
License Install							
DECT Statistics Feature							
VSF Prompt Upload							
VSF SG Up&download							
User Management							
Trace							
TDM Gain Control							
IP Gain Control							
Tone/Ring Gain&Cadence Control $\sim$							
Tone Generation Gain(P422)							
Tone Frequency / Cadence							
Tone Table							
ACNR Tone Cadence(P423)							
ACNR Ring Frequency(P424)							
SLT Ring Cadence(P425)							
Appliances Control							

Figure 4.5.14-1 Tone/Ring Gain & Cadence Control Main Page

Control system tone/ring cadence and frequency.

System announcement or music can be provided instead of system ring/tone if it is assigned in tone table.

# 4.5.15 Appliances Control

IPECS eMG80	Administration	Change Language
S/W Upgrade	Sytem Information	
Database		
Multi Language	iPECS eMG80	
SMDR	App Version - MPB/D/86M-1.0Aj JU/W13 Bort Version - 1.0Ae APR/13	
File System	Kennel Version - 60Am HW Issue - 0	
License Install		
DECT Statistics Feature		
VSF Prompt Upload		
VSF SG Up&download		
User Management		
Trace		
TDM Gain Control		
IP Gain Control		
Tone/Ring Gain&Cadence Control		
Appliances Control 🗸 🗸		
IP Phone Param Set Analog CO Param Set(P429)		

Figure 4.5.15-1 Appliances Control Main Page

Control IP phone and Analog line parameter.

# 4.6 Station Program (User Portal)

This Station Program helps our customer program each station so that each station can be easily set the value and find which features are used.

To access Station program:

First, set the authorization code for each station as shown in Figure 4.6-1 and then click **[Log Out]**.

PECS ECS eMG80		Administration	Maintenan	ce		Change Languag	e Log
PGM Search		Favorite PGM	Station Authorization	Code Table	e(227) ×		
System ID & Numbering Plans		Enter Station Range			Ŭ	Coad	6
Station Data		Station Range 100-				2 Load	S
Board Based Data			Authorization Code		COS		
		100	*****	Day 1 📘	🗸 Night 1 🔽	Timed Ring 1 💌	
CO Line Data		101		Day 1	🗸 Night 1 🔽	Timed Ring 1 💌	
System Data		102		Day 1	🗸 Night 1 🔽	Timed Ring 1 🔽	
ojolom Dala		103		Day 1	🗸 Night 1 🔽	Timed Ring 1 🔽	
Station Group Data		104		Day 1	🗸 Night 1 🔽	Timed Ring 1 🔽	
ISDN Line Data		105		Day 1	🗸 Night 1 🗸	Timed Ring 1 🔽	
		106		Day 1	🗸 Night 1 🔽	Timed Ring 1 🔽	
SIP Data		107		Day 1	🗸 Night 1 🔽	Timed Ring 1 🔽	
Tables Data	~	108		Day 1	🗸 Night 1 🔽	Timed Ring 1 💌	
Tables Data	~	109		Day 1	🗸 Night 1 🔽	Timed Ring 1 🔽	
LCR Control Attribute(220)		110		Day 1	🗸 Night 1 🔽	Timed Ring 1 🔽	
LCR LDT(221)							
LCR DMT(222)							
LCR Table Initialization(223)							
Digit Conversion Table(270)							
Toll Exception Table(224)							
Emergency Code Table(226)							
COS Table							
<ul> <li>Station Authorization Code Table(227)</li> </ul>							

Figure 4.6-1 Station Authorization Code Table – PGM 227

Second, enter the desired station number in the user ID and enter the authorization code in the password as shown in Figure 6.6-2. (E.g. enter Station number '100' and Authorization code).

iPECS eMG80		
User ID: Password:	Login	
		PTCS is an Encounted Brand

Figure 4.6-2 Login Page

You will see the below Web page and find Station program sub-menu in the left frame.

PECS S eMG80		Change Language Log
STATION 100 PROGRAM	Station Information	
Station Attributes		IPECS
Station Call Forward		
Preset Call Forward	Static	on 100 Program
Station ICR Scenario	IPECS eMG80 Versi	ion : MPB/VD86M-1.0Aj JUN/13
Station Speed Dial		
Pre Select Message		
Flex Buttons		
Send Internal SMS		
Send External SMS		
Station Conference Group		
System Conference Group		
Mobile Extension Table		
Attendant Ring Mode		

Figure 4.6-3 Station Program Main Page

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

The Station Program main page has three sections,

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

# 4.6.1 Station Attributes

Selecting Station Attributes will display the input entry page, Figure 4.6.1-1. Selecting the blue colored text in the Table header will sort the table based on the selected column.

STATION 100 PROGRAM	Stati	on Information Station Attrib	outes X C	
Station Attributes				Save
Station Call Forward	Order <u>⊥</u> ª	Attribute <u>⊥</u> ª	Value	Range
Preset Call Forward	±- 1	DND	OFF 🗸	
Station ICR Scenario	2	ICM Signaling Mode		
Station Speed Dial	3	Call Coverage Mode	OFF V	
Pre Select Message	4	Delay Ring Cycle		0-15
Flex Buttons	5	Ear-Mic Headset	OFF 🗸	
Send Internal SMS	6	Authorization Code	1234	Max 12 Digits (Include *)
Send External SMS	7	DID Call Wait	ON 💌	
Station Conference Group	8	Choice Exec/Sec Message	ON 💌	
System Conference Group	9	Wake up Time	Repeat	hhmm (Must be 4 digits) Available Only System Att-New 5 Wake Up Usage is OFF
Mobile Extension Table	10	Headset or Speaker Mode	Speaker 🗸	
Attendant Ring Mode	11	Headset Ring Mode	Headset 🗸	
	12	User Name Registration		Max 20 Characters
	13	BGM	No BGM 🗸	
	14	Station Ring Type	1	1 - 15
	15	CO Ring Type	1	1 - 15
	16	VSF MSG - SMTP Mail Server Address		
	17	VSF MSG - User Mail Address		
	18	Station Forward No Answer Timer	0	000-600
	19	CLIR Service	OFF 💌	
	20	Forced Forwarding Hunt Group	No Action 💌	
	21	Log in/out Agent from Hung Group	No Action No Action Agent OFF duty reason	
	22	LCD Language Code	English 💌	
	23	LCD Back Light Usage	BUSY ONLY 💌	
	24	VM Message No	000 ( New: 000 , Saved: 000 Urgent: 000 )	•
	25	Announce only MailBox	Disable 🖌	
	26	Announce only Option	Previous Menu 💌	
	27	Company Directory - First Name		
	28	Company Directory - Last Name		

Figure 4.6.1-1 Station Portal Station Attributes

Station Attributes define features and functions available to the station. Refer to Table 4.6.1-1 for a description of the features and the input required.

ATTRIBUTE

DND

DND	Enables DND to be activated by the station.	ON	OFF
ICM Signaling Mode	Selects Hands free, Privacy or Tone ring ICM Signaling mode.	H/T/P	Т
Call Coverage Mode	The Call Coverage feature permits an iPECS Phone user to receive ring and answer calls at other stations.	OFF ON	OFF
Call Cover Delay Ring	When a covered station rings, the <b>{CALL COVERAGE}</b> button LED will flash at the covering station and the station will receive ring (immediate or delayed, 0 to 9 ring cycles).	0~15	0
Ear Mic. Headset	Select E & Mic or Headset mode for New IP Phone.	OFF ON	OFF
Authorization Code	Authorization codes are employed to control access to the system resources and facilities. Walking COS, CO/IP Group access DISA callers and certain Call Forward types may require the input of a valid Authorization code. Codes up to 12 digits may be entered into the system database.		N/A
DID Call Wait	When a busy station receives a DID call, the call may queue to the station instead of receiving busy tone. With DID Call Wait, the caller hear Ring-back and the user sees the CO line button LED flash.	OFF ON	ON
Choice Exec/Sec Message	When a call is forward to the Secretary of an Executive/Secretary pair, messages can be left for the Executive (ON) or Secretary (OFF).	OFF ON	ON
Wake up Time	The user can register a wake up time.		
Headset or Speaker Mode	Selects Speakerphone mode or Headset mode.	Speaker/ Headset	ON
Headset/ Speaker Ring Mode	Selects device to receive incoming ring signals, Speaker, Headset or Both.	Speaker/ Headset/ Both	SPEAKER
User Name Registration	Enables user name entry. The name is displayed on the LCD of iPECS Phones.	Max. 12 characters	
BGM	Enables background music. The BGM is played while the iPECS phone is idle.	0-3/ 0-2	0
Station Ring Type	Select Station Ring type from 1 to 15.	1-15	1
CO Ring Type	Select Station Ring type from 1 to 15.	1-15	1
VSF MSG – SMTP Mail Server Address	The VMIU and VMIB include notification of new messages to the user's voice mail. This field defines the user's e-mail mail server for the notification.	IP v4 address Or Mail server name	
VSF MSG – User Mail Address	The VMIU and VMIB include notification of new messages to the user's voice mail. This field defines the e-mail address to notify when a new message is received at the VMIU or VMIB.	e-mail address	

Table 4.6.1-1	STATION	ATTRIBUTES

DESCRIPTION

Enables DND to be activated by the station.

Address VSF MSG – U Mail Address This timer determines the duration the station will ring Station Forward No prior to Ring-No-Answer Forward. This setting affects 000-600 (Sec.) 000 Answer Timer both manual and Preset Call Forward and overrides the System No answer forward timer.

DEFAULT

OFF

RANGE

OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CLIR Service	CLIR (Calling Line Identification Restriction), an ISDN service, removes calling party Id sent from the ISDN to the called party with a RESTRICT instruction in the SETUP message. If enabled here, the system will send the RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	OFF ON	OFF
Forced Forwarding Hunt Group	Calls to a hunt group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	No Action, Set/Reset forward	No Action
Log in/out Agent from Hunt Group	Log in & Log out code.	No Action/ Log in Agent-ON Duty/ Log out Agent- OFF Duty	No Action
LCD Language Code	Sets the Language used in the LCD.	00~17	00 (English)
LCD Back Light Usage	The backlight of iPECS phones is assigned to stay off, light only when the station is busy, or light constantly.	Always OFF/ BUSY ONLY/ Always ON	BUSY ONLY
VM Message No	Number of Voice Mail that is left to the station.		
Announce only Mail Box	Administrator Voice Mail feature can be activated.	Disable/ Enable	Disable
Announce only Option	If this option is set to ON, caller cannot leave a message to the station, only can hear the station's user greeting.	Previous Menu/ Hang Up	Previous Menu
Company Directory - First Name	When Announcement Only Mailbox is ON, after hearing a station's user greeting, next step is decided by this option – go to previous menu or call is disconnected.		
Company Directory - Last Name	Last Name of Company Directory is assigned.		
Cascade Mail Box	A destination station number of message cascading feature is assigned.		
Cascade Type	Message cascading type is programmed.	Disable/ Copy-Immediate/ Copy-Urgent/ Move-Immediate/ Move-Urgent	Disable
Message Rewind/Fast- Forward Time	Rewind / Fast Forward time of left message is defined.	3-99 (Sec.)	4

### Table 4.6.1-1 STATION ATTRIBUTES

### 4.6.2 Call Forward

### 4.6.2.1 Station Call Forward

Stations can be programmed so that incoming calls are re-routed to other stations (local or networked), station groups, the VSF, or over a system CO/IP line (Off-Net). Call Forward can be separately assigned UNCONDITIONAL, BUSY, NO ANSWER, BUSY/NO ANSWER, Attendant OFF-PREMISE forwarding to any station, hunt group or system speed dial bin (Off-net). In the portal, users can establish forwarding scenarios under the Station ICR selection.

PECS eMG80			Change Language Log Out
STATION 100 PROGRAM	Station Information Station Ca	all Forward $\frac{x}{C}$	
Station Attributes			Save
> Station Call Forward	Call Forward Type	Destination	
Preset Call Forward	<ul> <li>Cancel Call Forward</li> </ul>		
Station ICR Scenario	Ourconditional Call Forward	N/A 💌 :	
	O Busy Call Forward	N/A 💌 :	
Station Speed Dial	🔘 No Answer Call Forward	N/A 💌 :	
Pre Select Message	O Busy/No Answer Call Forward	N/A 💌 :	
Flex Buttons			
Send Internal SMS			
Send External SMS			
Station Conference Group			
System Conference Group			
Mobile Extension Table			
Attendant Ring Mode			

Figure 4.6.2.1-1 station call forward

### 4.6.2.2 Preset Call Forward

Stations can be programmed so that incoming CO and Intercom calls are forwarded to a preset destination. Preset Forward can be separately assigned UNCONDITIONAL, INTERNAL BUSY, INTERNAL NO ANSWER, INTERNAL DND, EXTERNAL BUSY, EXTERNAL NO ANSWER, EXTERNAL DND preset forwarding to any station, hunt group or system speed dial bin (off-net), or ICR Scenario. As a default, no Preset Call Forward is assigned.

Also, for the Transfer to Mailbox, enter the Station Group number of the Voice Mail group (external VM, VSF or Feature Server Voice Mail group). This permits users to send calls directly to the desired Voice Mail-Box.

STATION 100 PROGRAM	Station Information	Preset Call Forward C	
Station Attributes			(
Station Call Forward	Call Forward Type	Destination	
Preset Call Forward	Unconditional	N/A 💌 :	
Station ICR Scenario	Internal Busy	N/A 💌 :	
Station Speed Dial	Internal No Answer	N/A 💌 :	
	Internal DND	N/A 💌 :	
Pre Select Message	External Busy	N/A 💌 :	
Flex Buttons	External No Answer	N/A 💽 :	
Send Internal SMS	External DND	N/A 💽 :	
Send External SMS	Transfer Mail Box	N/A 💌 :	
Station Conference Group			
System Conference Group			
Mobile Extension Table			
Attendant Ring Mode			

Figure 4.6.2.2-1 Preset Call Forward

# 4.6.3 Station ICR Scenario

Selecting Station ICR Scenario displays the input entry page, Figure 4.6.3-1.

PECS PECS eMG80				Change Language	og Out
STATION 100 PROGRAM	Stati	on Information Station IC	R Scenario X C		
Station Attributes				S	ave
Station Call Forward	Index	Attribute	Value	Range	Del
Preset Call Forward		Call Profile Table Usage	0	0~3 (0:Deactive CP)	
> Station ICR Scenario		Caller ID	N/A 💌 :	Max 23 Digits	
Station Speed Dial		Time Condition	Start Date End Date	YYYY-MM-DD format	Ê,
Pre Select Message			Start Time - End Time	hhmm (Must be 4 digits) 0000-2359	Ť
Flex Buttons	0	Destination	N/A COValue Dial Digit	Max 23 Digits	
Send Internal SMS	Ŭ	Scenario Priority		0~9 (0:highest priority)	
Send External SMS		Forwarding from NET Call	No 🗸	(gpilonit)/	
Station Conference Group		Call Profile Table Idx		0~3 (0:Deactive CP)	
		Call Profile Timer	10	10~60 sec	
System Conference Group		Caller ID	N/A 💙 :	Max 23 Digits	
Mobile Extension Table			Start Date - End Date	YYYY-MM-DD format	
Attendant Ring Mode		Time Condition	MON_TUE_WED_THU_FRI_SAT_SUN_ALL_Holiday Start Time	hhmm (Must be 4 digits) 0000-2359	
	1	Destination	N/A 💽 : CO Value Dial Digit	Max 23 Digits	
		Scenario Priority		0~9 (0:highest priority)	
		Forwarding from NET Call	No 💌		
		Call Profile Table Idx	0	0~3 (0:Deactive CP)	
		Call Profile Timer	10	10~60 sec	
		Caller ID	N/A 💌 :	Max 23 Digits	
		Time Condition	Start Date         - End Date           MON         TUE         WED         THU         FRI         SAT         SUN         ALL         Holiday           Start Time         - End Time         -         -         End Time         -         <	YYYY-MM-DD format	
	2	Destination	N/A VICO Value Dial Digit	Max 23 Digits	
		Scenario Priority		0~9 (0:highest priority)	
		Forwarding from NET Call	No 💌		
		Call Profile Table Idx	0	0~3 (0:Deactive CP)	
		Call Profile Timer	10	10~60 sec	
		Caller ID	N/A 💌 :	Max 23 Digits	
		Time Condition	Start Date         - End Date           MON         TUE         WED         THU         FRI         SAT         SUN         ALL         Holiday           Start Time         - End Time         -         End Time         -         End Time         -	YYYY-MM-DD format	
	3	Destination	N/A 💙 : CO Value Dial Digit	Max 23 Digits	
		Scenario Priority		0~9 (0:highest priority)	

Figure 4.6.3-1 Station ICR Scenario

Station ICR is an extension of call forward where the user enters scenarios to define the call forward feature. Each station has ten (10) routing scenarios, which define conditions for routing a user's incoming calls. Each scenario may define time of day, day of week, date, caller ID and destination for incoming calls. In addition, the scenarios may be prioritized; calls are routed to the destination in highest priority matching scenario.

# 4.6.4 Station Speed Dial

Selecting Station Speed Dial will display the input entry page, Figure 4.6.4-1.

PECS ECS eMG80					Change La	nguage Log
STATION 100 PROGRAM	Statio	on Information	Station Spee	l Dial X		
Station Attributes	Enter Ir	idex Range (0 - !	39) :		Coad	)
Station Call Forward	Index R	ange 0-10				
Preset Call Forward	Index	СО Туре	CO Value	Dial Digit	Name	
Station ICR Scenario	0	N/A 🔽				
Station Speed Dial	1	N/A 🔽				
Pre Select Message	2	N/A 🗸 🗸				
-	3	N/A 🗸 🗸				
Flex Buttons	4	N/A 🗸				
Send Internal SMS	5	N/A 💌				
Send External SMS	6	N/A 🔽				
Station Conference Group	7	N/A 🔽				
System Conference Group	8	N/A 🔽				
Mobile Extension Table	9	N/A 🔽				
	10	N/A 🔽				
Attendant Ring Mode						

### Figure 4.6.4-1 Station Speed Dial

Each station can store commonly dialed numbers for easy access using Station Speed Dial bins. Each Speed Dial number can be up to 23 characters in length and may include special instruction codes for analog and ISDN lines. The CO Line used with the Speed Dial number and a name can be entered.

## 4.6.5 Pre-selected Message

Selecting Pre-selected Message will display the input entry page, Figure 4.6.5-1.

			Dro Salact Massage X		
TATION 100 PROGRAM	Statio	n Information	Pre Select Message		
Station Attributes					
Station Call Forward	Index		Messages	Attribute	Range
Preset Call Forward	<b>⊙</b> #	MESSAGE DE	ACTIVATED		
Station ICR Scenario	0 ()	STATION CUS	STOM MESSAGE		Max 24 Characters
	01	LUNCH RETU	JRN TIME		hhmm (Must be 4 digits)
Station Speed Dial	02	ON VACATION	N RETURN AT DATE		MMDD (Must be 4 Digits)
Pre Select Message	03	OUT OF OFFI	CE RETURN TIME		hhmm (Must be 4 digits)
Flex Buttons	04	OUT OF OFFI	CE RETURN DATE		MMDD (Must be 4 Digits)
Send Internal SMS	05	OUT OF OFFI	CE RETURN UNKNOWN		
3end External SMS	06	CALL TO STA	TION		Phone Number
Station Conference Group	07	IN OFFICE ST	ATION		Station Number
System Conference Group	08	IN A MEETING	TIME		hhmm (Must be 4 digits)
	09	AT HOME			
Aobile Extension Table	010	AT BRANCH (	OFFICE		
Attendant Ring Mode	011	SYSTEM CUS	TOM MESSAGE		
	012	SYSTEM CUS	TOM MESSAGE		
	013		TOM MESSAGE		
	014		TOM MESSAGE		
	- U		TOM MESSAGE		
	-		TOM MESSAGE		
	017		TOM MESSAGE		
	<u> </u>		TOM MESSAGE		
	<u> </u>	SYSTEM CUS SYSTEM CUS	TOM MESSAGE		

Figure 4.6.5-1 Pre-selected Message

A user can select a message to be displayed on the LCD of a calling iPECS Phone. There are ten pre-defined messages (index 1-10), several allow for auxiliary information such as a time, date or number.

A user may activate Custom Display Messaging to send a custom text message to the LCD of a calling iPECS Phone. Up to 11 Custom Messages (ten system level and one for each user) may be entered in the system database. System level Custom Messages (index 11-20) may be entered from the Attendant or Administrator's phone or via the "Admin & Maintenance" Web page. The User's Custom Message (index 0) may also be assigned from the user's phone or via the Station Program User portal Web page.

## 4.6.6 Flex Buttons

Selecting Flex Buttons will display the input entry page, Figure 4.6.6-1.

PECS CS eMG80				Cha	ange Language	_og Out
STATION 100 PROGRAM	Station Informa	tion Flex Buttons X				
Station Attributes	Select Station Ty	pe : Master Station 💌 📕 Load				Save
Station Call Forward	Station Type : Ma	ctor Station				
	Button	Type		Value	DSS Label	
Preset Call Forward	Flex Button 1	CO Line	~	1	DSS Laber	
Station ICR Scenario	Flex Button 2	CO Line	~	2		-
Station Speed Dial	Flex Button 3	CO Line	~	3		-
Pre Select Message	Flex Button 4	CO Line	~	4		-
Flex Buttons	Flex Button 5	CO Line	×	5		-
Send Internal SMS	Flex Button 6	CO Line	~	6		-
Send External SMS	Flex Button 7	CO Line	• •	7		-
	Flex Button 8	CO Line	~	8		-
Station Conference Group	Flex Button 9	CO Line	~	9		-
System Conference Group	Flex Button 10	CO Line	*	10		-
Mobile Extension Table	Flex Button 11	Loop	*	10		-
Attendant Ring Mode	Flex Button 12	Loop	*			-
	Flex Button 13	N/A	¥			-
	Flex Button 14	N/A	×			_
	Flex Button 15	N/A				-
	Flex Button 16		~			_
	Flex Button 17	N/A	<b>*</b>			-
		N/A	*			-
	Flex Button 18	N/A	*			_
	Flex Button 19	N/A	*			_
	Flex Button 20	N/A	*			_
	Flex Button 21	N/A	*			_
	Flex Button 22	N/A	*			_
	Flex Button 23	N/A	*			_
	Flex Button 24	N/A	~			_
	Flex Button 25	N/A	*			_
	Flex Button 26	N/A	*			_
	Flex Button 27	N/A	*			_
	Flex Button 28	Programming (PGM Code)	*	REG BLUETOOTH		_
	Flex Button 29	N/A	*			_
	Flex Button 30	N/A	~			
	Flex Button 31	N/A	~			
	Flex Button 32	N/A	*			
	Flex Button 33	N/A	*			

Figure 4.6.6-1 Flex Buttons

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

If the station is an LIP-8040x, LIP-8050x or LIP-9070, the DSS Label field can be used to assign a label that is displayed in the LCD screen of the station.

### 4.6.7 Send Internal SMS

Selecting Send Internal SMS displays the input entry page, Figure 4.6.7-1.

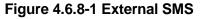
		Change Language
STATION 100 PROGRAM	Station Information Send Internal SMS <sup>×</sup>	
Station Attributes	Attribute Value	
Station Call Forward	Station Range -	
Preset Call Forward		
Station ICR Scenario	Message(Max 80 char)	
Station Speed Dial	Send	10
Pre Select Message	Result	
Flex Buttons		
Send Internal SMS		
Send External SMS		
Station Conference Group		
System Conference Group		
Mobile Extension Table		
Attendant Ring Mode		

Figure 4.6.7-1 Internal SMS

# 4.6.8 External SMS

Selecting Send External SMS displays the input entry page, Figure 4.6.8-1.

	PECS IS eMG80			Cha	ange Language	Log Out
				×		
	STATION 100 PROGRAM	Station Information	Send External SMS	×		
	Station Attributes	Attribute	Va	lue		
	Station Call Forward	Destination Number				
	Preset Call Forward	Return Number				
	Station ICR Scenario	Message(Max 80 char)				
	Station Speed Dial				4	
	Pre Select Message		Send			
	Flex Buttons					
	Send Internal SMS					
>	Send External SMS					
	Station Conference Group					
	System Conference Group					
	Mobile Extension Table					
	Attendant Ring Mode					



### 4.6.9 Station Conference Group

Selecting Station Conference Group displays the input entry page, Figure 4.6.9-1.

iPECS iPECS eMG80		Change Language Log Out
STATION 100 PROGRAM	Station Information Station Conference Group & C	
Station Attributes Station Call Forward Preset Call Forward Station ICR Scenario Station Speed Dial Pre Select Message Flex Buttons Send Internal SMS Send External SMS	Enter Station Conference Group Number (0 - 19) :	Load Overview
System Conference Group		

Figure 4.6.9-1 Station Conference Group

Selecting the number of conference group, Figure 4.6.9-2.

	PECS S eMG80						С	nange L	anguage	Log Out
	STATION 100 PROGRAM	Statio	n Information	Sta	tion Confere	ence Group	×			
	Station Attributes Station Call Forward		Enter Station Conference Group Number (0 - 19) :					Load	Overview	Save Delete
	Preset Call Forward		Attribute		Valu	le	Range			
	Station ICR Scenario	Group	) Name				0 - 12 chars			
		Pass	word				5 digits			
	Station Speed Dial	Anno	uncement		0		00 - 70			
	Pre Select Message	Abser	nt Supervisor Tir	ner	0		sec, 000 - 255			
	Flex Buttons	No Ar	iswer Timer		0		sec, 000 - 255			
	Send Internal SMS	Retry	Count		0		00 - 10			
	Send External SMS	Interv	al Timer		0		sec, 000 - 255			
>	Station Conference Group									
	System Conference Group	Index Type			CO Value	Dial Digit		Status		
	Mobile Extension Table	0 Station Number		_		100		Idle N/A		
	Attendant Ring Mode	1	N/A	*				N/A N/A		
L	Autoridant (Ving Mode	3	N/A	~				N/A N/A		

Figure 4.6.9-2 Station Conference Group

Program the attributes of group, and set the type, co dial number of member.

# 4.6.10 System Conference Group

Selecting System Conference Group displays the input entry page, Figure 4.6.10-1.

iPECS iPECS eMG80		Change Language Log Out
STATION 100 PROGRAM	Station Information System Conference Group	
Station Attributes	Enter System Conference Group Number (100 - 139) :	Load Overview
Station Call Forward		
Preset Call Forward Station ICR Scenario		
Station Speed Dial		
Pre Select Message		
Flex Buttons		
Send Internal SMS		
Send External SMS		
Station Conference Group		
> System Conference Group		
Mobile Extension Table		
Attendant Ring Mode		

Figure 4.6.10-1 System Conference Group

Selecting the number of conference group, Figure 4.6.10-2.

CS eMG80							Change Language	Log
STATION 100 PROGRAM	Statio	on Information S	ystem Confere	nce Group	×			
Station Attributes	Enter System Conference Group Number (100 - 139) :			Load	Overview	S		
Station Call Forward	System	Conference Group	100					
Preset Call Forward		Attribute	Value	Value Range				
Station ICR Scenario	Group	o Name	0 - 12 chars		0 - 12 chars			
Station Speed Dial	Pass	word	5 digits					
	Anno	uncement	0 00 - 70					
Pre Select Message	Abse	nt Supervisor Timer	0 sec, 000 - 255		55			
Flex Buttons	No Ar	nswer Timer	0 sec, 000 - 255		55			
Send Internal SMS	Retry	Count	0 00 - 10					
Send External SMS	Interv	al Timer	0 sec, 000 - 255		55			
Station Conference Group				,				
System Conference Group	Index	Туре	CO Value	Dia	l Digit	Status		
-	1	N/A 💽				N/A		
Mobile Extension Table	2	N/A 🕓				N/A		
Attendant Ring Mode	3	N/A N				N/A		

Figure 4.6.10-2 System Conference Group

Program the attributes of group, and set the type, co dial number of member.

# 4.6.11 Mobile extension

STATION 100 PROGRAM	Statio	on Information Mo	bile Extension Table		
Station Attributes					C
Station Call Forward	Order	Attribute	Value	Range	
Preset Call Forward	1	Usage	Disable 🛛 🛃		
Station ICR Scenario	2	Hunt Call Enable	Disable 💌		
Station Speed Dial	3	VSF/VMIB Notify	Unused 💌		
	4	Notify Retry	3	1-9	
Pre Select Message	5	Retry Interval	3	1-3 mm	
Flex Buttons	6	Notify CLI	Caller 🔛		
Send Internal SMS	7	Call Back	OFF 🗸		
Send External SMS	8	Delay Timer	0	0-255	
Station Conference Group	9	Announcement	0	0-70	
System Conference Group	10	CO Group	1		
	11	Telephone Number		Max 24 Digits	
Mobile Extension Table	12	CLI Number		Max 16 Digits	
Attendant Ring Mode	13	Suffix DID Tbl To CL	I OFF 🗸		

User can setup mobile extension attributes, Figure 4.6.11-1.

Figure 4.6.11-1 Mobile extension

# 4.6.12 Attendant ring mode

Attendant can setup system ring mode, Figure 4.6.12-1.

IPECS IPECS eMG80				Change Language Log Out
STATION 100 PROGRAM	Station Informatio	n Attendant Ring Mode	×	
Station Attributes				Save
Station Call Forward	Attribute	Value		
Preset Call Forward	Selet Ring Mode	Day Ring Mode	*	
Station ICR Scenario	SCENARIO			
Station Speed Dial				
Pre Select Message				
Flex Buttons				
Send Internal SMS				
Send External SMS				
Station Conference Group				
System Conference Group				
Mobile Extension Table				
> Attendant Ring Mode				



# Appendix A

# **User Program Codes**

Fixed Function Codes, refer to Table A-1 and A-2, are digit sequences users and the Attendant may dial while in the User Program Mode to assign certain Flex buttons and affect the status of a feature or setting. For more information on the User Program Mode refer to the **iPECS eMG80 Features and Operation Manual**.

Many of these Function Codes may be assigned to a button of an iPECS IP or LDP Phone by pressing the **[PGM]** button as the first entry of a Flexible button assignment, see Flex button Programming in the **iPECS eMG80 Features and Operation Manual**.

FUNCTION CODE	FUNCTION			
10	En-block Dialing, 600 & 7000 only			
11X	Intercom Differential Ring (X = 1-8)			
12X	CO Line Differential Ring (X = 1-8)			
13	Intercom Answer Mode (1: HF/2: TONE/3: PV)			
14X	Call Coverage Attribute (1: On/Off, 2: Ring Delay)			
15X	Station Ring Download (X = 0-9)			
19	Ear-Mic Headset, 600 & 7000 only			
21	Knock Down Station COS			
22	Restore Station COS			
23	Walking COS			
24	ICR SCENARIO			
31	Message Retrieve Method			
32	Message Retrieve Example			
33	User Authorization Code Registration			
34	{DID CALL WAIT} button assignment			
35	Message Wait in Executive/Secretary pair			
36	Send SMS Message			
37	Register Mobile Extension			
38	Make Mobile Extension active			
39	Register Mobile Extension CLI			
41	Set Wake-Up Time			
42	Wake-Up Time Disable			
51XX	Custom/Pre-select Message Display (XX = 00-20)			
52	Register Custom Message (Message 00)			
53	Create Conference Room			
54	Delete Conference Room			
57	{Call Log Display} Button Assignment			
58	{Call Rerouting} Button Assignment			
61	Headset/Speakerphone Mode			
62	Change Ring Mode			
71	LCD Display Mode			
72	Version Display			

#### Table A-1 STATION USER PROGRAM FIXED FUNCTION CODES

FUNCTION CODE	FUNCTION				
73	Background Music				
74	Station User Name Registration				
75	isplay Phone IP Address				
76	Change Phone IP Address				
77	Display Phone MAC IP Address				
78	Change Mode				
79	Display Phone Version				
7*	Display Serial number/Package for SMEMU				
80	{Record} Button Assignment – With Voice Mail				
81	{CLIR} Button Assignment				
82	{COLR} Button Assignment				
84	{Account Code} Button Assignment				
85	{LOOP} Button Assignment				
86	{ATD Intrusion} Button Assignment				
87	{ICM} Button Assignment				
88	{Camp-on} Button Assignment				
89	{Send Keypad Facility IE} Button Assignment				
8#	{OHVO} Button Assignment				
99	{PTT} Button Assignment				
*0	Hot Desk Login				
**	Hot Desk Logout				
*6	Set Forced Forward Dest				
*7	Forced Forward to Dest				
*8	Register Bluetooth				
*9	Bluetooth Usage				
90	{SPEED} Button, 8000 only				
91	{CONFERENCE} button, 6000 & 7000 only				
92	{CALLBACK} button, 6000 & 7000 only				
93	{DND}button, 6000 & 7000 only				
94	{FLASH} button, 6000 & 7000 only				
95	<b>{MUTE}</b> button, 6000 & 7000 only				
96	<b>{MONITOR}</b> button, 6000 & 7000 only				
97	{REDIAL} button, 6000 & 7000 only				
98	{CALL FORWARD} button, 6000 & 7000 only				
9* XX	<b>{IN-ROOM INDICATION}</b> Button Assignment (XX = 01-10)				

FUNCTION CODE	- FUNCTION				
0111	Print SMDR, by Station				
0112	Delete SMDR, by Station				
0113	Display Call Charge				
0114	Abort Print				
0115	Print Lost Call Report				
0116	Delete Lost Call Report				
0121	Print Traffic Analysis (All summary)				
0122	Print Traffic Analysis (All summary periodically)				
0123	Abort "Print Traffic Analysis (All summary periodically)"				
0124	Print Traffic Analysis (Attendant)				
0125	Print Traffic Analysis (Call summary)				
0126	Print Traffic Analysis (Call Hourly)				
0127	Print Traffic Analysis (H/W Usage)				
0128	Print Traffic Analysis (CO summary)				
0129	Print Traffic Analysis (CO Hourly)				
021	Knock Down Station COS				
022	Restore Station COS				
031	Authorization Code Registration				
032	Erase Authorization				
041	System Date/Time Mode				
042	LCD Date Mode				
043	LCD Time Mode				
044	Set Wake Up Time from Attendant				
045	Wake Up Disable from Attendant				
046	PX Clock Set through ISDN message				
051	Custom/Pre-select Message				
052	DND/Call Forward/Pre-selected MSG Cancel				
053	Custom Display Message (11-20)				
054	Delete Conference Room				
055	Monitor Conference Room				
06	VSF – Record System Greeting				
071	Dial By Name				
072	Isolate Fault CO Line				
073	Automatic Day/Night/Timed Ring Table				
074	External Page Music -1 Assignment/Cancel				
075	External Page Music -2 Assignment/Cancel				
076	LCD Display Language				
077	PTT Login with station range				
078	Display cpu redundancy state				
*#	Admin Programming Code				

# Appendix B

# FLEXIBLE NUMBERING PLAN

The System Numbering Plan can be selected from 1 of 8 basic Numbering Plans. Table B-1 provides a brief description of the plans and Table B-2 and Table B-3 provide the Numbering Plan codes for each of the eight basic plans. The Number Plan is selected in Program 100 and individual codes in the plan can be changed using the Flexible Numbering Plan Programs 106 to 109.

Plan Number	Description	Range
1	Basic Numbering Plan.	100 - 239
2	The station number can be within 799.	100 - 239
3	Australia Default.	100 - 239
4	New Zealand Default.	700– 839
5	Italy Default.	200-339
6	Finland Default, max. Stations 60	210 – 349
7	Default for Sweden, max. Stations, 200 Stations above Max ports will be displayed as "***".	100– 239
8	The station number can be changed within 999.	100-239

### Table B-1 Numbering Plan Description

	Basic Numbering Plan				
Feature	1	2	3	4	Remark
Intercom Call	100 ~239	1000-1139	1000-1139	7000-7139	
Internal Page Zone	301~335	*301~*335	*101~*135	*301~*335	
Internal All Call Page	543	*543	#3	#43	
Meet Me Page	544	*544	##	##	
External Page Zone 1	545	*545	#41	#41	
External All Call Page	548	*548	#5	#5	
All Call Page (Internal/External)	549	*549	#00	#00	
SMDR Account Code Enter	550	*550	550	#9	SLT
Flash Command to CO Line	551	*551	551	551	SLT
Last Number Redial	552	*552	552	552	SLT
DND (Toggle On/Off)	553	*553	553	553	SLT
Call Forward	554	*554	554	554	
Speed Dial Programming	555	*555	555	*40	SLT
Message Wait/Callback Enable	556	*556	556	*66	SLT
Message Wait/Callback Return	557	* 557	557	*67	SLT
Speed Dial Access	558	* 558	558	#8	SLT
Cancel DND/FWD/Pre MSG	559	* 559	559	559	SLT
CO System Hold	560	* 560	560	560	SLT
Program Mode Access	561	* 561	561	561	SLT
Attendant Unavailable	562	* 562	562	562	

### Table B-2 Basic Numbering Plan 1-4, Default Values

	2 Basic Numbering Plan 1-4, Default Values Basic Numbering Plan					
Feature	1	2	3	4	Remark	
Alarm Reset	565	* 565	565	* 565		
Group Call Pickup	566	* 566	**	*1		
Universal Answer	567	* 567	567	2		
Account Code with bin	568	* 568	568	568		
Walking COS Code	569	* 569	569	569		
ACD Supervisor On/Off Duty	571	* 571	571	571		
ACD Supervisor Login	572	* 572	572	572		
ACD Supervisor Logout	573	* 573	573	573		
ACD Help Code	574	* 574	574	574		
ACD Calls In Queue Display	575	* 575	575	575		
ACD Supervisor Status Display	576	* 576	576	576		
ACD Supervisor Monitor	577	* 577	577	577		
ACD Reroute Queued Call	011	011	011	011		
w/answer	578	* 578	578	578		
ACD Reroute Queued Call w/o	579	* 579	579	579		
answer Camp-On Answer	621	* 621	621	621	SLT	
Call Parking Locations	*601~*619	*601 -* 619	*101 – *119	*101 – *119	3LT	
Group Pilot Number	401 - 440	*401 - *440	*401 - *440			
Station User VSF Features	*66	66	*66	#620 – #659 69		
	76	*76	*76	67		
Call Coverage Ring	*77	*77	*77	*77		
Direct Call Pickup					xxxx 01 . 20	
CO/IP Group Access	89xx	89xx	89xx	89xx	xx: 01~20,	
Individual CO/IP Line Access	88xx 8*	88xx 8*	88xx 8*	48xx 4*	xx: 01~74	
Retrieve Last Held CO/IP					NOV 01 74	
Retrieve Individual Held CO/IP	8#xx	8#xx	8#xx	4#xx	xx: 01~74	
Access CO Line in the 1st available CO Group	9	9	9	1		
Attendant Call	0	0	0	0		
VM Message Wait Enabled	*8	*8	*8	*8		
VM Message Wait Disable	*9	*9	*9	*9		
Door Open (1st Door )	#*1	#*1	#*1	#*1		
Door Open (2nd Door )	#*2	#*2	#*2	#*2		
MCID Request	*0	*0	*0	*0		
AME Feature	564	* 564	564	564		
Unsupervised conference extend	##	##	* ##	*22		
code						
PTT Group Login/Logout	#0	#0	#*0	*21		
ACD primary login	581	* 581	581	581		
ACD Agent primary logout	582	* 582	582	582		
ACD Agent secondary login	583	* 583	583	583		
ACD Agent secondary logout	584	* 584	584	584		
ACD wrap-up end	585	* 585	585	585		
TNET CM Login/out	586	* 586	586	586		
Enter Into Conf-Room	59	* 59	* 59	59		
Enter Into Conf-Group	68	* 68	* 68	68		
Station ICR	587	* 587	587	587		

	Basic Numbering Plan				
Feature					
	1	2	3	4	Remark
Pick up Group Pick-Up	588	* 588	588	588	
Emergency Page	589	* 589	589	589	
Remote Mobile Extension Control	580	* 580	580	580	
Agent ON/OFF Duty In ALL GRP	58*	* 58*	58*	58*	
SLT ACNR	58#	* 58#	58#	58#	
ACD Supervisor Ring Mode	570	* 570	570	570	
Company Directory Name	563	* 563	563	563	
ISDN Supplementary Hold	57*	*57*	57*	57*	
ISDN Supplementary Conf	57#	*57#	57#	57#	
Forced Seize Busy STN/CO	56*	*56*	56*	56*	
Override DND/Forward	56#	*56#	56#	56#	
Cancel Call Back					
Transfer to VSF Annc No	55*	*55*	55*	55*	
CCR	#2	#2	#2	#2	
Last Number Redial ( LNR )	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset
Station Speed Dial Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXX: 000~099
	XXX	XXX	XXX	XXX	
System Speed Dial Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXXX:
	XXXX	XXXX	XXXX	XXXX	2000~4999

Table B-2 Basic	Numbering	Plan 1-4	Default Values
	numbering	т iuii i <del>т</del> ,	

### Table B-3 Basic Numbering Plan 5-8, Default Values

<b>F</b>	Basic Numbering Plan				
Feature	5	6	7	8	Remark
Intercom Call	200-339	210-249	100-239	100-239	
Internal Page Zone	*101-*135	*301-*335	301- 335	*301- *335	
Internal All Call Page	#3	*543	43	*543	
Meet Me Page	##	*544	44	*544	
External Page Zone 1	#41	*545	45	*545	
External All Call Page	#5	*548	48	548	
All Call Page (Internal/External)	#00	*549	49	*549	
SMDR Account Code Enter	50	*550	0	*550	SLT
Flash Command to CO Line	51	*551	51	*551	SLT
Last Number Redial	52	*552	52	*552	SLT
DND (Toggle On/Off)	53	*553	53	*553	SLT
Call Forward	54	*554	54	*554	
Speed Dial Programming	55	*555	55	*555	SLT
Message Wait/Callback Enable	56	*556	56	*556	SLT
Message Wait/Callback Return	57	*557	57	*557	SLT
Speed Dial Access	58	*558	58	*558	SLT
Cancel DND/FWD/Pre MSG	59	*559	59	*559	SLT
CO System Hold	690	*560	*10	*560	SLT
Program Mode Access	691	*561	50	*561	SLT
Attendant Unavailable	692	*562	*12	*562	
Alarm Reset	695	*565	*13	*565	

	Basic Numbering Plan Basic Numbering Plan				
Feature	5	6	7	8	Remark
Group Call Pickup	**	*566	*14	*566	
Universal Answer	697	*567	*15	*567	
Account Code with bin	698	*568	*16	*568	
Walking COS Code	699	*569	*17	*569	
ACD Supervisor On/Off Duty	671	*571	*20	*571	
ACD Supervisor Login	672	*572	*21	*572	
ACD Supervisor Logout	673	*573	*22	*573	
ACD Help Code	674	*574	*23	*574	
ACD Calls In Queue Display	675	*575	*24	*575	
ACD Supervisor Status Display	676	*576	*25	*576	
ACD Supervisor Monitor	677	*577	*26	*577	
ACD Reroute Queued Call w/ answer	678	*578	*27	*578	
ACD Reroute Queued Call w/o	679	*579	*28	*579	
answer	004	*004	*000	*004	0 <b>T</b>
Camp-On Answer	621	*621	*629	*621	SLT
Call Parking Locations	#601 - #619	#601 - #619	#601 - #619	#601 - #619	
Group Pilot Number	720 – 759	*401 - *440	#401 - #440	*401 - *440	
Station User VSF Features	*66	66	67	66	
Call Coverage Ring	*76	*76	*76	*76	
Direct Call Pickup	*77	*77	*77	*77	
CO/IP Group	89xx	89xx	89xx	#89xx	xx: 01-20
Individual CO/IP Line Access	88xx	88xx	88xx	#88xx	xx: 01~74
Retrieve Last Held CO/IP	8*	8*	8*	#8*	
Retrieve Individual Held CO/IP	8#xx	8#xx	8#xx	#8#xx	xx: 01~74
Access CO Line in the 1 <sup>st</sup>	0	9	9	0	
available CO Group					
Attendant Call	9	0	0	#9	
VM Message Wait Enabled	*8	*8	*8	*8	
VM Message Wait Disable	*9	*9	*9	*9	
Door Open (1 <sup>st</sup> Door )	#*1	#*1	*31	#*1	
Door Open (2 <sup>nd</sup> Door )	#*2	#*2	*32	#*2	
MCID Request	*0	*0	*35	*0	(Except USA version)
AME Feature	694	*564	*36	*564	/
Unsupervised conference extend code	*##	##	*37	##	
PTT Group Login/Logout	#*0	#0	*38	#0	<u> </u>
ACD Agent Primary Login	681	*581	*40	*581	
ACD Agent Primary Login	682	*582	*41	*582	
ACD Agent Primary Logout	683	*583	*42	*583	
ACD Agent Secondary Login ACD Agent Secondary Logout			*42		
	684	*584	*43	*584	
ACD Wrap-up end	685	*585	*44	*585	
TNET CM Login/out	686	*586		*586	
Enter Into Conf-Room	*59	*59	*46	*59	
Enter Into Conf-Group	*68	*68	*47	*68	

Basic Numbering Plan				Plan	
Feature	5	6	7	8	Remark
Station ICR	687	*587	*48	*587	
Pick Up Group Pick-up	688	588	*49	*588	
Emergency Page	689	*589	*50	*589	
Remote Mobile Extension Control	680	*580	**	#1	
Agent ON/OFF Duty In ALL GRP	68*	*58*	*5#	*58*	
SLT ACNR	68#	*58#	*51	*58#	
ACD Supervisor Ring Mode	570	*570	*52	*570	
Company Directory Name	563	*563	*53	*563	
ISDN Supplementary Hold	57*	*57*	*54	*57*	
ISDN Supplementary Conf	57#	*57#	*55	*57#	
Forced Seize Busy STN/CO	56*	*56*	*56	*56*	
Override DND/Forward	56#	*56#	*57	*56#	
Cancel Call Back			*58		
Transfer to VSF Annc No	55*	*55*	*59	*55*	
CCR	#2	#2*	#2	#2	
Last Number Redial ( LNR )	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset
Station Speed Dial Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXX: 000~099
	XXX	XXX	XXX	XXX	
System Speed Dial Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXXX:
	XXXX	XXXX	XXXX	XXXX	2000~4999

Table B-3	<b>Basic</b>	Numbering	Plan 5-8	Default	Values
	Dasic	numbering	1 Iaii 3-0	Derault	values

# Appendix C

# **DATABASE DETAILS & DEFAULT FOR STATION ADMINISTRATION**

The following Tables, divided based on the Program group and Program, provide the default values assigned to all Admin entries. Prior to changing an entry during programming assure you have an understanding of the **PROGRAM** and its purpose.

BTN	SUB-MENU	DEFAULT	REMARK
PGM:	100 -System ID		
1	Country Code	1	Maximum 4 digits
2	Customer Site Name		Maximum 24 characters
3	My Area Code		Maximum 6 digits
	Numbering Plan Type	1	Overall default Numbering Plan, the 1 <sup>st</sup> station digit should be 1 – 4.
		2	The station number can be from 100~799.
		3	Australia Default
		4	New Zealand Default
4		5	Italy Default
4		6	Finland Default, Max Station Ports is 60. Stations above Max ports will be displayed "***".
		7	Max Station Ports 70 Stations above Max ports will be displayed "***".
		8	The station number can be from 100~ 999.
5	PRIFIX Usage		
6	System ID reset		System reset

### Table C-1 SYSTEM ID

### Table C-2 Numbering Plans

BTN	SUB-MENU	DEFAULT	REMARK
PGM:	102 -System IP Address Plan	I	
1	MPB Address	10.10.10.2	Public IP Address for H.323 calls
2	MPB Subnet mask	255.255.255.0	
3	Router IP Address	10.10.10.1	Router IP Address for WAN access
4	System start IP address	10.10.10.10	Private start address for system to module & terminal communications
5	System end IP address	10.10.10.254	Private end address for system to module & terminal communications
6	System Subnet mask	255.255.255.0	
7	Automatic IP Address Assignment	ON	
8	Second System IP Address	0.0.0.0	Second Private IP Address for modules

		Table C-2 Numbering Plans			
BTN	SUB-MENU	DEFAULT	REMARK		
9	Second System Net Mask	255.255.255.0	Second Private Sub-net Mask for modules		
10	Firewall IP Address	0.0.0.0	IP Address of firewall for external network (WAN/IP) access		
11	First Start Mac Address	00:00:00:00:00:00	First : Start MAC Address to register a device regardless of the 3 <sup>rd</sup> dip switch		
12	First End Mac Address	00:00:00:00:00:00	First : End MAC Address to register a device regardless of the 3 <sup>rd</sup> dip switch		
13	Second Start Mac Address	00:00:00:00:00:00	Second : Start MAC Address to register a device regardless of the 3 <sup>rd</sup> dip switch		
14	Second End Mac Address	00:00:00:00:00:00	Second : End MAC Address to register a device regardless of the 3 <sup>rd</sup> dip switch		
15	System IP Address plan Reset		Returns System IP Address Plan to default values.		
16	Unused	0.0.0.0			
17	Unused	0.0.0.0			
18	MPB DNS IP Address	0.0.0.0			
19	MPB DHCP	OFF			
PGM:	103 Device IP Address Plan				
1	CO/IP Device IP Address	10.10.10.10-254 - OFF MCAST	Flex 1: Set IP Address Flex 2: Set Mac Address Flex 3: ARP Flex 4: Registration Flex 5: CPU Type Flex 6: Device ID (type)		
2	Station IP Address	10.10.10.10~254 - OFF MCAST	Flex 1: Set IP Address Flex 2: Set Mac Address Flex 3: ARP Flex 4: Registration Flex 5: CPU Type Flex 6: Device ID (type)		
3	MISU IP Address	10.10.10.10~254 - OFF MCAST	Flex 1: Set IP Address Flex 2: Set Mac Address Flex 3: ARP Flex 4: Registration Flex 5: CPU Type Flex 6: Device ID (type)		
4	VMIB & VSF IP Address	10.10.10.10~254 - On On	Flex 1: Set IP Address Flex 2: Set Mac Address Flex 3: ARP Flex 4: Registration Flex 5: CPU Type Flex 6: Device ID (type)		
5	MCIB_V IP Address	10.10.10.10~254 - OFF MCAST	Flex 1: Set IP Address Flex 2: Set Mac Address Flex 3: ARP Flex 4: Registration Flex 5: CPU Type Flex 6: Device ID (type)		

Table C-2 Numbering Plans

BTN         SUB-MENU         DEFAULT         REMARK           6         Device IP Address Plan         System Reset         10.10.10.10.10.24         Flex 1: Set IP Address           7         WITB IP Address         10.10.10.10.254         Flex 2: Set Mac Address         Flex 3: ARP           7         WITB IP Address         OFF         Flex 3: Registration         Flex 4: Registration           PGM: 104 - CO/IP Device Sequence Number         CO/IP Device Sequence Assignment         Next available         Sequence numbers are assigned to maximum available for the system.           PGM: 105 - Flexible Station Number         1 -140         Default Numbering Plan Country Col 1.           PGM: 106 - Flexible Numbering Plan part A, Base 1         1         Internal Page Zone         301-335           2         Internal Page Zone         301-335         1         1           3         Meet Me Page         544         1         1           4         External Page Zone 1         545         5         5           5         Unused         55         SLT         9         Flash Command to CO Line         551         SLT           9         Flash Command to CO Line         555         SLT         1         DND (Toggle On/Off)         5553         SLT <td< th=""><th>DTN</th><th></th><th></th><th></th></td<>	DTN			
7       WITB IP Address       10.10.10254       Filex 1: Set IP Address         7       WITB IP Address       -       Filex 2: Set Mac Address         7       WITB IP Address       -       Filex 3: ARP         PGM: 104 - CO/IP Device Sequence Number       Filex 4: Registration       Filex 4: Registration         CO/IP Device Sequence Assignment       Next available       Sequence numbers are assigned to maximum available for the system.         PGM: 105 - Flexible Station Number, Base 1       1       Internal Page Zone       1-140       Default Numbering Plan Country Col. 1.         PGM: 106 -Flexible Numbering Plan part A, Base 1       1       Internal Page Zone       301-335       2         2       Internal All Call Page       543       -       1.         3       Meet Me Page       544       -       -         4       External Page Zone 1       545       -       -         5       Unused       -       545       -       -         6       External & External)       549       8       SMDR Account Code Enter       550       SLT         9       Flash Command to CO Line       551       SLT       -       -       -         10       Last Number Redial       552       SLT       -<	BIN	SUB-MENU		REMARK
7       WITB IP Address       -       Flex 2: Set Mac Address         0 FF       Flex 3: ARP         MCAST       Flex 4: Registration         Flex 5: CPU Type       Flex 6: Device ID (type)         PGM: 104 - CO/IP Device Sequence Number       Next available       Sequence numbers are assigned to maximum available for the system.         PGM: 105 - Flexible Station Number, Base 1       1 - 140       Default Numbering Plan Country Col. 1.         PGM: 106 - Flexible Numbering Plan part A, Base 1       1       Internal Page Zone       301-335         2       Internal Page Zone       301-335       1         2       Internal Page Zone 1       543       3         3       Meet Me Page       544       4         4       External All Call Page       548       7         6       External All Call Page       548       7         7       Unused       551       SLT         9       Flexi Control Code Enter       550       SLT         9       Flexi Command to CO Line       551       SLT         10       DL Toggle On/Off)       553       SLT         11       DND (Toggle On/Off)       553       SLT         12       Call Forward       556       SLT <th>6</th> <th>Device IP Address Plan</th> <th>System Reset</th> <th></th>	6	Device IP Address Plan	System Reset	
7       WITB IP Address       OFF MCAST       Flex 3: ARP Flex 4: Registration Flex 5: CPU Type Flex 6: Device ID (type)         PGM: 104 - CO/IP Device Sequence Number       Next available       Sequence numbers are assigned to maximum available for the system.         PGM: 105 - Flexible Station Number, Base 1       Sequence numbering Plan part A, Base 1       Default Numbering Plan Country Co 1.         PGM: 106 - Flexible Numbering Plan part A, Base 1       1 - 140       Default Numbering Plan Country Co 1.         1       Internal All Call Page       543         3       Meet Me Page       544         4       External Page Zone 1       545         5       Unused       548         7       All Call Page (Internal & External)       549         8       SMDR Account Code Enter       550       SLT         9       Flash Command to CO Line       551       SLT         10       Last Number Redial       552       SLT         11< DND (Toggle On/Off)       553       SLT         12       Call Forward       556       SLT         14       Message Wait/Callback Return       557       SLT         15       Message Wait/Callback Return       556       SLT         16       Speed Dial Access       558       SLT			10.10.10.10~254	
7       WITB IP Address       MCAST       Flex 4: Registration         PGM: 104 - CO/IP Device Sequence Number       Rex 5: CPU Type       Flex 6: Device ID (type)         PGM: 105 - Flexible Station Number, Base 1       Sequence numbers are assigned to maximum available for the system.         PGM: 105 - Flexible Station Number       1~140       Default Numbering Plan Country Con 1.         PGM: 106 - Flexible Numbering Plan part A, Base 1       1       Internal Page Zone       301-335         2       Internal Page Zone       301-335       1         3       Meet Me Page       544       1         4       External Page Zone 1       545       5         5       Unused       543       1         6       External All Call Page       548       1         7       All Call Page (Internal & External)       549       SLT         9       Flash Command to CO Line       551       SLT         10       Last Number Redial       552       SLT         11       DND (Toggle On/Off)       553       SLT         12       Call Forward       556       SLT         13       Speed Dial Programming       555       SLT         14       Message Wait/Callback Return       557       SLT			-	
MCAST     Flex 4: Registration Flex 5: CPU Type Flex 6: Device ID (type)       PGM: 104 - CO/IP Device Sequence Number     Next available     Sequence numbers are assigned to maximum available for the system.       PGM: 105 - Flexible Station Number, Base 1     Next available     Default Numbering Plan Country Co. 1.       PGM: 106 - Flexible Numbering Plan part A, Base 1     Default Numbering Plan Country Co. 1.       Internal Page Zone     301-335       2     Internal All Call Page     543       3     Meet Me Page     544       4     External Page Zone 1     545       5     Unused     Suff       6     External Page (Internal & External)     549       8     SMDR Account Code Enter     550     SLT       9     Flash Command to CO Line     551     SLT       10     Last Number Redial     555     SLT       11     DND (Toggle On/Off)     553     SLT       12     Call Page Vait/Callback Enable     556     SLT       14     Message Wait/Callback Return     557     SLT       14     Message Wait/Callback Return     557     SLT       14     Message Wait/Callback Return     557     SLT       15     Message Wait/Callback Return     557     SLT       16     Speed Dial Programming     555	7	WITB IP Address	-	
Flex 6: Device ID (type)         PGM: 104 - CO/IP Device Sequence Number         CO/IP Device Sequence Assignment       Next available       Sequence numbers are assigned to maximum available for the system.         PGM: 105 - Flexible Station Number, Base 1         Image Sequence Assignment       Next available       Sequence numbers are assigned to maximum available for the system.         PGM: 105 - Flexible Numbering Plan part A, Base 1         1       Internal All Call Page       543         2       Internal All Call Page       544         4       External Page Zone 1       545         5       Unused       545         6       External All Call Page       548         7       All Call Page (Internal & External)       549         8       SMDR Account Code Enter       550         9       Flash Command to CO Line       551         10       Last Number Redial       552         11       DND (Toggle On/Off)       553         12       Call Programming       555         13       Speed Dial Access       558         14       Message Wait/Callback Return       557         15       Message Wait/Callback Return <td>-</td> <td></td> <td>MCAST</td> <td>-</td>	-		MCAST	-
PGM: 104 - CO/IP Device Sequence Number       Next available       Sequence numbers are assigned to maximum available for the system.         PGM: 105 - Flexible Station Number, Base 1       In-140       Default Numbering Plan Country Con 1.         PGM: 106 - Flexible Numbering Plan part A, Base 1       Internal Page Zone       301-335         2       Internal All Call Page       543         3       Meet Me Page       544         4       External Page Zone 1       545         5       Unused       Internal All Call Page         6       External Page (Internal & External)       549         8       SMDR Account Code Enter       550         9       Flash Command to CO Line       551         11       DN (Toggle On/Off)       553         12       Call Forward       554         13       Speed Dial Programming       555         14       Message Wait/Callback Return       567         15       Message Wait/Callback Return       567         16       System Hold       560         17       Cancel DND/FWD/Pre-MSG       559         18       Co System Hold       560         19       Programming Mode Enter Code       561         19       Programming Mode Enter Code <td></td> <td></td> <td></td> <td></td>				
CO/IP Device Sequence Assignment         Next available         Sequence numbers are assigned to maximum available for the system.           PGM: 105 - Flexible Station Number         1~140         Default Numbering Plan Country Cont.           1         Internal Page Zone         301-335           2         Internal All Call Page         543           3         Meet Me Page         544           4         External Page Zone 1         545           5         Unused         -           6         External All Call Page (Internal & External)         549           8         SMDR Account Code Enter         550           9         Flash Command to CO Line         551           10         Last Number Redial         552           13         Speed Dial Programming         555           14         Message Wait/Callback Return         556           13         Speed Dial Programming         555           14         Message Wait/Callback Return         557           16         Speed Dial Access         558           17         Cancel DND//WD/Pre-MSG         559           18         Co System Hold         560           19         Programming Mode Enter Code         561           17<				Flex 6: Device ID (type)
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PGM: 105 - Flexible Station Number,       1~140       Default Numbering Plan Country Co. 1.         PGM: 106 -Flexible Numbering Plan part A, Base 1       1       Internal Page Zone       301~335         2       Internal All Call Page       543       543         3       Meet Me Page       544       544         4       External Page Zone 1       545       5         5       Unused       -       -         6       External All Call Page       548       -         7       All Call Page (Internal & External)       549       -         8       SMDR Account Code Enter       550       SLT         9       Flash Command to CO Line       551       SLT         10       Last Number Redial       552       SLT         11       DND (Toggle On/Off)       553       SLT         12       Call Forward       555       SLT         13       Speed Dial Programming       555       SLT         14       Message Wait/Callback Return       557       SLT         15       Message Wait/Callback Return       557       SLT         16       Speed Dial Access       558       SLT         17       Cancel DND/FWD/Pre-MSG       559		CO/IP Device Sequence Assignment	Next available	
Flexible Station Number       1~140       Default Numbering Plan Country Cont.         PGM: 106 -Flexible Numbering Plan part A, Base 1       301-335       1.         1       Internal Page Zone       301-335         2       Internal All Call Page       543         3       Meet Me Page       544         4       External Page Zone 1       545         5       Unused	DCM: 1	105 Elevible Station Number Base 1		maximum available for the system.
Flexible Station Number         1.           PGM: 106 -Flexible Numbering Plan part A, Base 1         1           1         Internal Page Zone         301~335           2         Internal All Call Page         543           3         Meet Me Page         544           4         External Page Zone 1         545           5         Unused	FGIVI.	105 - Flexible Station Number, Base 1	1 140	Default Numbering Dien Country Code
PGM:         106         Flexible Numbering Plan part A, Base 1           1         Internal Page Zone         301~335           2         Internal All Call Page         543           3         Meet Me Page         544           4         External Page Zone 1         545           5         Unused		Flexible Station Number	1~140	
1       Internal Page Zone       301~335         2       Internal All Call Page       543         3       Meet Me Page       544         4       External Page Zone 1       545         5       Unused	PGM· 1	106 -Elevible Numbering Plan part A. Base	1	1.
2         Internal All Call Page         543           3         Meet Me Page         544           4         External Page Zone 1         545           5         Unused				
3         Meet Me Page         544           4         External Page Zone 1         545           5         Unused				
4       External Page Zone 1       545         5       Unused				
5       Unused         6       External All Call Page       548         7       All Call Page (Internal & External)       549         8       SMDR Account Code Enter       550       SLT         9       Flash Command to CO Line       551       SLT         10       Last Number Redial       552       SLT         11       DND (Toggle On/Off)       553       SLT         12       Call Forward       554       13         13       Speed Dial Programming       555       SLT         14       Message Wait/Callback Enable       556       SLT         15       Message Wait/Callback Return       557       SLT         16       Speed Dial Access       558       SLT         17       Cancel DND/FWD/Pre-MSG       559       SLT         18       CO System Hold       560       SLT         19       Programming Mode Enter Code       561       SLT         20       Attendant Unavailable       562       2         21       Alarm Reset       565       2         22       Group Call Pickup       566       2         23       Universal Night Answer       567       2 <tr< th=""><td>_</td><td></td><td></td><td></td></tr<>	_			
6       External All Call Page       548         7       All Call Page (Internal & External)       549         8       SMDR Account Code Enter       550         9       Flash Command to CO Line       551         10       Last Number Redial       552         11       DND (Toggle On/Off)       553         12       Call Forward       554         13       Speed Dial Programming       555         14       Message Wait/Callback Enable       556         15       Message Wait/Callback Return       557         16       Speed Dial Access       558         17       Cancel DND/FWD/Pre-MSG       559         18       CO System Hold       560         19       Programming Mode Enter Code       561         21       Altendant Unavailable       562         22       Group Call Pickup       566         23       Universal Night Answer       567         24       Account Code       568         PGM: 107 -Flexible Numbering Plan part B, Base 1       1         1       Walking COS Code       569         2       ACD Agent On/Off Duty       571 <td>-</td> <td></td> <td><u> </u></td> <td></td>	-		<u> </u>	
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24     Account Code     568       PGM: 107 -Flexible Numbering Plan part B, Base 1     1       1     Walking COS Code     569       2     ACD Agent On/Off Duty     571				
PGM: 107 -Flexible Numbering Plan part B, Base 1         1       Walking COS Code       569         2       ACD Agent On/Off Duty       571		× ×		
1     Walking COS Code     569       2     ACD Agent On/Off Duty     571				1
2 ACD Agent On/Off Duty 571				
	2			
	3	ACD/UCD Supervisor Login	572	
4 ACD/UCD Supervisor Logout 573				
5 ACD/UCD Help Code 574				
6 ACD/UCD Calls In Queue Display 575				
7 ACD/UCD Supervisor Status Display 576	-			
8 ACD Supervisor Monitor 577				
	9	ACD Reroute Queued Call w/ answer	578	

Table C-2 Numbering Plans

		Numbering Plar	15
BTN	SUB-MENU	DEFAULT	REMARK
10	ACD Reroute Queued Call w/o answer	579	
11	Camp-On Answer	621	
12	Call Park Locations	#601~#619	
13	Group Pilot Number	401-440	
14	Station User VSF Features	*66	
15	Call Coverage Ring	76	
16	Direct Call Pickup	*77	
17	CO/IP Group Access	89	
18	Individual CO/IP Access	88	
19	Retrieve Last Held CO/IP	8*	
20	Retrieve Held Individual CO/IP	8#	
21	Access 1 <sup>st</sup> available CO Line	9	
22	Attendant Call	0	
23	VM Message Waiting Enable	*8	
24	VM Message Waiting Cancel	*9	
PGM: <sup>2</sup>	108 - Flexible Numbering Plan part C, Base	1	
1	1 <sup>st</sup> Door Open	#*1	
2	2 <sup>nd</sup> Door Open	#*2	
PGM: <sup>•</sup>	109 - Flexible Numbering Plan part D, Base	1	
1	MCID Request	*0	
2	Answering Machine Emulation	564	
3	Unsupervised conference extend code	##	
4	PTT Group login in-out code	#0	
5	ACD Agent Primary Login Code	581	
6	ACD Agent Primary Logout Code	582	
7	ACD Agent Secondary Login Code	583	
8	ACD Agent Secondary Logout Code	584	
9	ACD Wrap-up End	585	
10	TNET Login/out Code	586	
11	Enter Into Conf-Room	59	
12	Enter into Conf-Group	68	
13	Station ICR	587	
14	Pick Up Group Pick-up	588	
15	Emergency Page	589	
16	Remote MEX Control	580	
17	All Group Agent On/Off Duty	58*	
18	SLT ACNR Code	58#	
19	ACD Supervisor Ring Mode	570	
20	Company Directory Name	563	
21	ISDN SUPPLEMENT HOLD	57*	
22	ISDN SUPPLEMENT CONFERENCE	57#	
23	Forced Seize Busy Station/CO	56*	
24	Added Flexible Numbering Plan		
24-1	Override DND/Call forward	56#	
24-2	Cancel Call Back		
24-3	Transfer To VSF Announcement Number	55*	
24-4	CCR	#2	

Table C-2 Numbering Plans

BTN	SUB-MENU	Table C-3 STATION RANGE	DEFAULT	REMARK
PGM: 1	10 - Station Type	<b>I</b>	1	1
1	Station Type	1-8		
2	DSS/DLS MAP	Station		
PGM:	111 -Station Attributes I		L	
1	Auto Speaker Selection	1: ON, 0: OFF	ON	
2	Call Forward	1: ON, 0: OFF	OFF	
3	DND	0: OFF, 1:ALL, 2:icm call only, 3:co call only	OFF	
4	Data Line Security	1: ON, 0: OFF	OFF	
5	Howler Tone	1: ON, 0: OFF	ON	
6	No Touch Answer	1: ON, 0: OFF	OFF	
7	Page Access	1: ON, 0: OFF	OFF	
8	Speaker/Headset Ring	S/H/BOTH	Speaker	SPKR: Speakerphone
9	Speakerphone/Headset	ON/OFF	Speaker	ON: Speakerphone
10	LCD Display LED	Ring/MWI	MWI	
11	Loop LCR Account	1: ON, 0: OFF	OFF	Station based LOOP LCR authorization option
12	Call Coverage	1: ON, 0: OFF	OFF	
13	Call Coverage Delay Ring	0~9	0	
14	Off-net Forward Disable	0:ENA, 1:DIS	Enable	Off-net Forward Activation (Except USA version)
15	Forced ICM Mode Change	1:ON, 0:OFF	OFF	
16	Active PTT Group	0~9		
17	Station ICM Tenancy Group	1~15	1	
18	VMIU/VMIB Board			Sequence Number
19	SIP User ID Table Index	000-140	000	Index to Station SIP Attributes Table (PGM 126, Web only)
20	Camp on Tone	1: ON, 0: OFF	ON	
21	Serial DSS	1: Disable 0 : Enable	Enable	
22	ICM Dial Tone Source	0: dial tone 1: Int/Ext 1 2: Ext 2 3: VSF 4~8:SLT MOH1~5 9~10:VSF MOH2~3	dial tone	
23	ICM Ring Back Tone Source	0: ring back tone 1: Int/Ext 1 2: Ext 2 3: VSF 4~8:SLT MOH1~5 9~10:VSF MOH2~3	ring back tone	
24	UMS Attach Message	1: ON, 0: OFF	ON	
PGM: 1	12 - Station Attributes II			
1	CO Call Time Tone	1: ON, 0: OFF	OFF	
			ATD:ON	
2	Automatic Hold	1: ON, 0: OFF	Others: OFF	

### **Table C-3 STATION DATA**

	Та	able C-3 STATION	DATA	1
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
3	CO Call Time Restriction	1: ON, 0: OFF	OFF	
4	CO Line Access	EN/DIS	ENABLE	
5	CO/IP Line Queuing	EN/DIS	ENABLE	
6	CO PGM	EN/DIS	DISABLE	
7	Ringing Line Preference	EN/DIS	ENABLE	
8	Speed Dial Access	EN/DIS	ENABLE	
9	UCD Group Service	1: ON, 0: OFF	OFF	
10	Ring Group Service	1: ON, 0: OFF	OFF	
11	Two Way Record	1: ON, 0: OFF	OFF	
12	Message Speed Scroll	0-7	3	Scroll speed for Graphic LCD Key-set
13	Hot Desk Station	1:ON, 0:OFF	OFF	
14	Prefer CO/CO Group	CO Access Code Or CO Group Access Code		
15	Send SLT CLI	1:ON, 0:OFF	ON	Send CLI info to SLT/Soft/Wit phone.
16	ACD Member Priority	0~9	0	
17	ez Attendant Password	1: ON, 0: OFF	OFF	
18	Emergency CO	CO Access Code Or CO Group Access Code	Any CO	
19	Station Account code required	1: ON, 0: OFF	OFF	
20	Auto Call recording	1: ON, 0: OFF	OFF	
21	Call Recording Station	Station number		
22	Voice Mail Back-up	1: ON, 0: OFF	OFF	
23	VM Back-up Station	Station number		
24	VM Back-up Prompt	1: ON, 0: OFF	OFF	
PGM:	113 - Station Attributes III			
1	ADMIN	EN/DIS	ENABLE	
2	VSF Access	EN/DIS	ENABLE	
3	Group Listen	EN/DIS	DISABLE	
4	Override Privilege	EN/DIS	DISABLE	
5	SMDR Hidden Dialed Digits	EN/DIS	DISABLE	
6	Voice Over	EN/DIS	ENABLE	
7	Prime Line	1: HOT, 0: WARM	WARM	
8	Alarm/Door Bell Attribute	EN/DIS	DISABLE	
9	DID Call Wait	1: ON, 0: OFF	ON	
10	Left Message Executive	1: ON, 0: OFF	ON	
11	E & MIC Headset	1: ON, 0: OFF	OFF	For new Soft-Key Key-set
12	En-block Mode	1: ON, 0: OFF	OFF	For new Soft-Key Key-set
13	VSF Message Retrieve	1: FIFO, 0: LIFO	FIFO	
14	VMID Number	Station number	STA #	For adjunct Voice Mail-box id
15	Auto ACD DND	dial-pad digit	0	0=no reason code
16	Fwd if OOS	1: ON, 0: OFF	OFF	
17	Backlight	0~2	busy	0: Off, 1: busy, 2: always on
18	VSF Mail Server IP address	0.0.0.0		
19	VSF Mail Address			Web Admin 132 to modify
19				

**Table C-3 STATION DATA** 

		able C-3 STATION		
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
21	By Pass DTMF	1: ON, 0: OFF	OFF	
22	Proctor Monitor	1: ON, 0: OFF	OFF	
23	VSF Mail Server ID			Web Admin
24	Added Station Attribute (2 <sup>nd</sup> )			
24-1	VSF Mail Server P/W			Web Admin
24-2	Door Open	EN/DIS	ENABLE	
24-3	VSF MSG DD/TM	1: ON, 0: OFF	ON	
24-4	OGM DEST		NOT ASSIGNED	
24-5	VSF DEL MSG	1: ON, 0: OFF	OFF	
24-6	VM PWD CHECK	0: No password 1: PWD only 2: Station number and Password	Station number and password	
24-7	Barge In Mode	0: Disable 1: Monitor 2:Monitor&Join & Disconnect	Disable	
24-8	SLT Flash Mode	0: Transfer 1: Drop 2: Ignore 3: Hold Release	Transfer	
24-9	RLS Cost Display	1: ON, 0: OFF	OFF	
24-10	LDT Table Index	No. of LDT Table	1	
24-11	WEB Call Back	EN/DIS	DISABLE	
24-12	VSF SMTP Security	0-2	0	0 : NO Security / 1 : SSL / 2 : TLS
24-13	VSF SMTP Port	00001-65535	25	
24-14	VSF Sender Mail Address			Web Admin
24-15	Prepaid call	0: OFF 1: ON	OFF	
24-16	Prepaid money	000000 -9999999	0	
24-17	Default VM number			
24-18	SKT mode	0: Default 1: Short 2: Long 3: Far	Default (0)	
24-19	Off hook ring	0: BURST 1: MUTE 2: SYSTEM 3:SILENCE	Refer to System (2)	
24-20	SIP color ring			
24-21	Forced account code	0: OFF, 1: ON	OFF	
24-22	Flexible Bin PGM	0: OFF, 1: ON	ON	
24-23	Station Web level	LEVEL 1 ~ LEVEL 3	LEVEL 1	
24-24	Headset page	1~3 (SPKR/ HEADSET/ Both)	1: SPKR	

Table C-3 STATION DATA
------------------------

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM: 1	14 - Station Attributes IV		•	
1	CLIP Display	1: ON, 0: OFF	OFF	
2	COLP Display	1: ON, 0: OFF	OFF	
3	Progress Indication	1: ON, 0: OFF	OFF	
4	CLIR Service	1: ON, 0: OFF	OFF	
5	COLR Service	1: ON, 0: OFF	OFF	
6	Station CLI 1	Max 12 digits	Station No	
7	3.1 kHz Audio	1: ON, 0: OFF	OFF	
8	CLI Name Display	1: ON, 0: OFF	OFF	
9	CLI/IP Redirect Display	1: Red, 0: CLI	CLI	
10	CLI Message Wait	1: ON, 0: OFF	OFF	
11	EXT OR ATD	1: ATD,0: EXT	EXT	
12	MSN Wait	1: ON, 0: OFF	OFF	
13	Unused			
14	DID Restriction	1: ON, 0: OFF	OFF	
15	DISA Restriction	1: ON, 0: OFF	OFF	
16	Unused			
17	Modem Enable	1: ON, 0: OFF	OFF	
18	FAST CLI For Transfer Call	1: ORI, 0: TRN	TRN	
19	Unused			
20	PICK UP By Flex Button	1: ON, 0: OFF	ON	
21	Multi Language	Prompt 1 – 6	1	
22	Pre-Sel Msg DND	1: ON, 0: OFF	OFF	
23	Pre-Sel Msg Language	Prompt 1 – 6	1	
24	Added station attributes			
24-1	Station CLI 2	Max 16 Chars	Station No	
24-2	Station CLI 3	Max 16 Chars	Station No	
24-3	Station CLI 4	Max 16 Chars	Station No	
24-4	Station CLI 5	Max 16 Chars	Station No	
24-5	SLT CID type	(0:FSK/1:DTMF)	FSK	
24-6	Wakeup announcement	0-70	0	
		0: OFF		
24-7	Camp on enable	1: ON	ON	
24-8	Gain table	1–3	1	
24-9	Tone table	1–5	1	
24-10	Reserved			
24-11	Video on calling	1: ON, 0: OFF	OFF	
24-12	E.164 CLI To	1: ON, 0: OFF	OFF	
PGM:	115 - Flexible Buttons Assignme		·	
01~	-			
24	Flexible Buttons Assignment	1: Empty Button		
		2: Station PGM Button		
		3: <b>{Speed Dial</b> xx <b>}</b> Button		
		4: Numbering Plan Button		
		5: Network DSS		

**Table C-3 STATION DATA** 

Table C-3 STATION DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
		Number			
		6: MSN Number			
PGM:	116 - Station COS				
1	Station COS: Day Ring	1~11	1		
2	Station COS: Night Ring	1~11	1		
3	Station COS: Timed Ring	1~11	1		
PGM:	117 - CO Line/IP Channel Group	Access			
	CO/IP Group	01~20	1		
PGM:	118 - Internal Page Zone Access				
-	Internal Page Zone Access	001-024	Group 01		
PCM-	119 - PTT Group Access				
FGIWI.	PTT Page Zone	01~10			
		01~10			
PGM:	120 - Preset Call Forward		-	1	
	Preset Call Forward	1~8 + destination	-	<ol> <li>Unconditional Forward</li> <li>Internal Busy Forward</li> <li>Internal No Answer Forward</li> <li>External Busy Forward</li> <li>External No Answer Forward</li> <li>Voice Mail box</li> <li>Internal DND</li> <li>External DND</li> </ol>	
DCM-	121 - Idle Line Selection	·			
	Туре	1~7	-	1: Flex Button 2: CO Line 3: CO Group 4: Station Number 5: Hunt Group 6: Station Speed 7: System Speed	
PGM:	122 – Station IP Attributes				
1	Direct IP Call	EN/DIS	ENABLE		
DCM-	123 - Station Timers	1		1	
1 PGIVI:	Station Fwd No-Answer Timer	000~600	000	1 second increments	
2	Cur off timer	000~800	000	1 minute increments	
	124 - Linked Pair Station Attribute				
1	Set IP Address	XXX.XXX.XXX.XXX			
2	Router IP Address Set Mac Address	XXX.XXX.XXX.XXX			
-		XX:XX:XX:XX:XX:XX			
	125 - ICM Tenant Group				
1	Group Attendant	Station No.			
2	Group Access	Group 01~15	Group 01		
PGM:	127 – Station VM Attributes				
1	VM COS	1-5	1		
	Administrator Mail Box	EN/DIS	DISABLE	1	

**Table C-3 STATION DATA** 

	Ia	ble C-3 STATION	DAIA	
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
3	Announce Only Mail Box	EN/DIS	DISABLE	
4	Announce Only Option	Previous Menu Hang Up	Previous Menu	
5	Company Directory – First Name			
6	Company Directory – Last Name			
7	Cascade Mail Box			
8	Cascade Type	1: ON, 0: OFF	OFF	
9	Message Rewind/Fast Forward Time	3-99(SEC)	4	
10	Notify Retry count	00-99	3	
11	Notify Dial time	00-99	5	
PGM:	128 – Station CCR Table			
1-10	Station CCR	1-14		
11	CCR table usage	1: ON, 0: OFF	OFF	
PGM:	129 - DSS Label Edit			
	LSS Label	LSS index + button		Max 16 char.

Table C-3 STATION DATA

### Table C-4 BOARD DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
PGM:	PGM: 130 - H.323 VoIP Attributes					
1	H.323 Setup Mode	0~1	Fast	0: Fast/1: Normal		
2	H.323 Tunneling Mode	1: ON, 0: OFF	ON	0:Off/1:On		
3	H.323 DTMF Path	0~1	0: In-band	1:Out/0:In		
4	H.323 DiffServ Pre tagging	00~63	4			
5	RAS Usage	1: ON, 0: OFF	OFF			
6	RAS Multi-cast IP Address	IP address	224.0.1.41			
7	RAS Multi-cast IP port	Port number	1718			
8	RAS Uni-cast IP Address	IP address	82.134.80.2			
9	RAS Uni-cast IP port	Port number	1719			
10	RAS Keep-alive Timer	001 ~ 999	120	1 second increments		
11	RAS Numbering Plan prefix	24 digits				
12	RAS Gateway Id	128 characters		Web Admin only		
13	RAS Light RRQ	1: ON, 0: OFF	OFF			
14	TCP Keep Alive	1: ON, 0: OFF	ON			
15	FAIL OVER USAGE	1: ON, 0: OFF	OFF			
16	Fail over Time	03-10 (Sec.)	5			
17	Fail over Group	01-21				
18	Q931 START PORT	00001-65535	2048			
19	Q931 END PORT	00001-65535	2559			
20	H245 START PORT	00001-65535	2560			
21	H245 END PORT	00001-65535	3071			
22	RAS START PORT	00001-65535	2048			
23	RAS END PORT	00001-65535	3071			
24	H.323 VoIP Attributes					
24-1	MEDIA START PORT	00001-65535	6000			
24-2	MEDIA END PORT	00001-65535	7036			

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-3	DATA START PORT	00001-65535	8500	
24-4	DATA END PORT	00001-65535	8548	
PGM:	: 131 -T1/E1/PRI Attributes	· ·		·
1	T1 Setup Mode	0~1	D4	0:D4/1:ESF
2	T1 Line Mode	0~1	B8ZS	0: B8ZS/1:AMI
3	PRI Line Mode	0~1	TE	0:NT/1:TE
4	PRI/E1 CRC Check	1: ON, 0: OFF	OFF	
5	E1 R2 DSP Check	1: ON, 0: OFF	OFF	
6	DCO PX Type	1: S1240 2: TDX1B 3: STANDARD 4: CONGES_DIS	STANDARD	
PGM:	: 132 - Board Base Attributes			
1	Router IP address	IP Address		
2	Device CODEC Type	0-4	4	0: G.711, 1: G.723.1, 2: G.729, 3: G.722 4: System Codec refer to
3	Firewall IP address	IP Address		PGM 161-button 9.
4	RTP Security	1: ON, 0: OFF	ON	
5	TNET Enable	1: ON, 0: OFF	OFF	
6	UMS Sender e-mail address	40 Characters	011	Web only to modify
7	T38 Enable	1: ON, 0: OFF	OFF	
8	USE Board IP for SIP	1: ON, 0: OFF	OFF	
9	RTP firewall IP	IP address	-	
10	T38 Port Usage	0: DIFF WITH VOICE 1: SAME AS VOICE 2: TRIGGERING	0	
11	RFC2833 Payload	000-127	0	
12	RFC2833 Volume	00-36	0	-dB
13	RFC2833 Redundancy	1-8	0	

### Table C-4 BOARD DATA

### Table C-5 CO LINE DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
PGM:	PGM: 140 - CO Service Attributes					
	CO Service Type	Flex 1~4	1 (Normal)	1: Normal CO line, 2: DID, 3: TIE Line, 4: Unused		
PGM: 141 - CO/IP Line Attributes I						
1	CO/IP Group Assignment	01-20				
2	CO Line COS	1~5	1			
3	CO Start Signal	1: Ground, 0: Loop	Loop			
4	CO Line Type	1: PBX, 0: CO	СО			
5	CO Line Signal Type	1: DTMF, 0: Pulse	DTMF			

	Table C-5 CO LINE DATA						
BTN	SUB-MENU	RANGE	DEFAULT	REMARK			
6	Flash Type	1: Ground, 0: Loop	Loop				
7	Universal Night Answer	1: ON, 0: OFF	OFF				
8	CO/IP Group Auth	1: ON, 0: OFF	OFF				
9	Data Station No	4 digits		FAX/Modem can be assigned to STA			
10	Tenancy Group	00~ 15	00				
11	CO VoIP Mode	1 ~ 6	Common	1: Common, 2: H.323 only, 3: SIP only, 4: RTP RLY, 5: H.323/TRP RLY, 6: SIP/RTP RLY			
12	PROCTOR ON/OFF	1: ON, 0: OFF	OFF				
13	WAIT IF VSF BUSY	1: ON, 0: OFF	ON				
14	Unused						
15	Unused						
16	COL RING TONE	1-12	0	0 is Not Available			
17	Unused						
18	Gain table index	1-3	1				
19	Tone table index	1-5	1				
20	Digit conversion table index	01-15	01				
PGM:	142 - CO/IP Line Attributes II						
1	CO Line Name Display	1: ON, 0: OFF	OFF				
2	CO Line Name Assign	12 characters	-	Max 12 character, alpha entry			
3	Metering Unit	0~6	0				
4	Line Drop using CPT	1: ON, 0: OFF	OFF	Not Supported			
5	DISA Authorization Code	1: ON, 0: OFF	ON				
6	CO Line MOH	0~10	1	0: Refer to System hold, 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~10: VSF MOH2~3			
7	CO Dial Tone	1: ON, 0: OFF	ON				
8	CO Ring Back Tone	1: ON, 0: OFF	OFF				
9	CO Error Tone	1: ON, 0: OFF	OFF				
10	CO Busy Tone	1: ON, 0: OFF	OFF				
11	DISA CO Access	1: ON, 0: OFF	OFF				
12	CO Flash Timer	000~300	050	10 msec. Increments			
13	Open Loop Detect Timer	00~20	04	100 msec. Increments			
14	ICLID Detect Timer	00~20	00	1 sec. Increments			
15	SMS OUTGOING	0: Disable 1: Enable	Disable				
16	SMS RCV STATION						
17	CO Line Dial Tone Source	0: dial tone 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~10: VSF MOH2~3	dial tone				
18	CO Line Ring Back Tone Source	0: ring back tone 1: INT Music, 2: EXT music,	ring back tone				

### Table C-5 CO LINE DATA

	Table C-5 CO LINE DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
		3: VSF MOH, 4~8: SLT MOH1~5, 9~10: VSF MOH2~3				
19	REJECT ANONYMOUS	1: ON / 0:OFF	OFF			
20	PREFIX TABLE ID	0-6	0	If prefix table ID is set to 0, then prefix dialing call cannot be applied. If prefix table ID is set to (1-6), then prefix dialing call can be applied with PREFIX DIALING TABLE(PGM 206)		
21	Cut Off Timer	00-99	00	Co base call cut off timer can be set at this field.		
22	DISA Delay Timer	0-9	0			
23	LDT Table Index	1-10	1			
24	DISA Answer Timer	0-9	0			
PGM	143 - ISDN Line Attributes			·		
1	COLP Table Index		None			
2	CLIP Table Index		None			
3	EN-BLOC Sending	1: ON, 0: OFF	ON			
4	Type Of Number	0~4	International	0: Unknown 1: International 2: National 3: Unused 4: Subscriber		
5	DID Remove digit count	00~99	00	Received digits deleted from left		
6	ТЕІ Туре	1: Auto, 0: Fixed	Auto			
7	ISDN-SS CD/CR	1: ON, 0: OFF	Disable	0: Disable, 1: Deflect, 3: Reroute (Except USA version)		
8	ISDN One Digit Remove	1: ON, 0: OFF	OFF	(For Italy)		
9	Advice of Charge Type	0~5	0	0: None 1: Italy/Spain 2: Finland 3: Australia 4: Belgium 5: ETSI Standard		
10	ISDN Line Type	1: μ-Law, 0: A-Law	µ-Law			
11	Calling Sub-address	1: ON, 0: OFF	OFF			
12	Incoming Prefix Code Insertion	1: ON, 0: OFF	OFF			
13	Outgoing Prefix Code Insertion	1: ON, 0: OFF	ON			
14	International Access Code	Max 4 digit				
15	My Area Code	Max 6 Digits				
16	My Area Prefix Code	Max 4 Digits				
17	CLI Transit Code	1: ORI 0: CFW	CFW			
18	Preserve Name for DID calls	1: ON, 0: OFF	OFF			
19	ISDN Redirecting number	No SVC / ORI/CFW	No SVC			
20	Choice Incoming CLI	Transit Point CLI / Original CLI	Transit Point CLI			

BTN				DEMARK
BIN	SUB-MENU	RANGE	DEFAULT	REMARK
21	Calling Party Numbering Plan	0-6	1	<ol> <li>Unknown.</li> <li>ISDN / Telephony.</li> <li>Data / Numbering.</li> <li>Telex.</li> <li>National Standard.</li> <li>Private.</li> <li>Reserved.</li> </ol>
22	Called Party Numbering Plan	0-6	0	<ol> <li>Unknown.</li> <li>ISDN / Telephony.</li> <li>Data / Numbering.</li> <li>Telex.</li> <li>National Standard.</li> <li>Private.</li> <li>Reserved.</li> </ol>
23	Screening Indicator	0-3	0	<ol> <li>User Provided, No Service.</li> <li>User Provided, Pass.</li> <li>User Provided, Fail.</li> <li>Network Provided.</li> </ol>
24	Added CO line attributes			
24-1	Station CLI Type	Station CLI 1-5	Station CLI 1	
24-2	ISDN PLUS Code	Max 4 digits	-	
24-3	CP/ALERT INBAND	1: ON, 0: OFF	OFF	
24-4	Disconnect INBAND	1: ON, 0: OFF	OFF	
24-5	Bursting to Caller	1: ON, 0: OFF	OFF	
PGM:	144 - CO Ring Assignment			
1	Day	Station/Group		Dial 1: Station + Delay (0~9
2	Night	Station/Group		ring cycles)
3	Timed Ring	Station/Group		Dial 2: Hunt group Dial 3: VSF announcement (01~70) Dial 4: AA Ring delay Time (00~30 sec.)
PGM:	145 - DID Service Attributes			
1	DID Signal	1: Immediate 2: Wink 3: Delayed Dial	Wink	
1	DID Signal DID conversion Type	2: Wink	Wink 1	0: DID Data Conversion (PGM230) 1: call to the valid extension. 2: convert with Flex DID Table (PGM231)
		2: Wink 3: Delayed Dial		<ul><li>(PGM230)</li><li>1: call to the valid extension.</li><li>2: convert with Flex DID Table</li></ul>
2	DID conversion Type	2: Wink 3: Delayed Dial 0-2	1	<ul><li>(PGM230)</li><li>1: call to the valid extension.</li><li>2: convert with Flex DID Table</li></ul>
2 3 4	DID conversion Type DID Digit Receive Number	2: Wink 3: Delayed Dial 0-2 2-4	1	<ul><li>(PGM230)</li><li>1: call to the valid extension.</li><li>2: convert with Flex DID Table</li></ul>
2 3 4	DID conversion Type DID Digit Receive Number DID Digit Mask	2: Wink 3: Delayed Dial 0-2 2-4	1	<ul><li>(PGM230)</li><li>1: call to the valid extension.</li><li>2: convert with Flex DID Table</li></ul>
2 3 4 PGM:	DID conversion Type DID Digit Receive Number DID Digit Mask 146 - DISA Service Attributes	2: Wink 3: Delayed Dial 0-2 2-4 4 digits Flex 1: Day Flex 2: Night Flex 3: Timed	1	(PGM230) 1: call to the valid extension. 2: convert with Flex DID Table (PGM231) Enter VMIB/VMIU

BTN	SUB-MENU	ble C-5 CO LINE RANGE	DEFAULT	REMARK
2	ICLID Ring Table Index	001~250	None	
3	VMID Number	0000~9999	None	
PGM:	: 148 – CO Additional Attribute			•
1	CID type	0: Disabled 1: FSK 2: DTAS FSK 3: DTMF 4: Russian CID	FSK	
2	RCID detect	0: LOCAL 1: ALL	ALL	
3	RCID request	0: USER 1: AUTO	AUTO	
4	RCID request first delay timer	10-150(10msec)	20	
5	RCID no answer timer	1-300(sec)	20	
6	RCID digit number	4-10	7	
7	RCID request count	1-3	1	
8	RCID request retry delay timer	10-30(10msec)	10	
9	COLLECT CALL BLOCKING	0: Disabled 1: Double Answer 2: With Indication	Disabled	
10	COLLECT CALL ANSWER TIMER	1-250	10	
11	COLLECT CALL IDLE TIMER	1-250	20	
12	Analog line monitoring	ON/OFF	ON	
PGM:	150 - NA ISDN Line Attributes			
1	Local Exchange Type	1~4	NI 1	1: NI 1 2: NI 2 3: 5 ESS 4: NORTEL
2	SPID Number	9~23 digits		
3	Directory Number	23 digits		
4	EKTS Mode	1:EKTS /0:NONE	NONE	
5	Type for 1/2/3	0~5	0	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated
6	Type for 4/5/6	0~5	0	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated
7	Type for 7/8/9	0~5	0	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated

BTN SUB-MENU RANGE DEFAULT	REMARK
8 Type for 10/11 0~5 0 10/11 0~5 0	): Unknown : International 2: National 3: Network 4: Subscriber : Abbreviated
5 Type for 1/2/3 0~5 0 1/2/3 3	): Unknown : International 2: National 3: Network 4: Subscriber : Abbreviated
PGM: 151 - ISDN CO Line Attributes	
1 T200 1~5 (Sec.) 1	
2 T201 1~5 (Sec.) 1	
3 T202 1~5 (Sec.) 2	
4 T203 5~15 (Sec.) 10	
5 T204 5~15 (Sec.) 10	
6 T302 10~30 (Sec.) 15	
7 T303 1~10 (Sec.) 4	
8 T305 10~60 (Sec.) 30	
9 T308 1~10 (Sec.) 4	
10 T309 1~100 (Sec.) 90	
11 T310 10~60 (Sec.) 40	
12 N200 1% 3	
13 N201 250~300 (bytes) 260	
14 N202 1~5 3	
15 N204 1~5 1	
16 K_Valule 1~5 1	
PGM: 152 - T1 Line Timers Attributes	
	sec increments
	00 msec increments
	00 msec increments
	0 msec increments
	0 msec increments
6 Pulse Rate 0~3 0 2	: 60-40(10pps) : 66-33(10pps) : 60-40(20pps) : 66-33(20pps)
7         Seize DTC Time         0~127         3         20	0 msec increments
8         Release Time         0~127         7         20	0 msec increments
9 Address Signaling Type 1:DTMF, 0:Pulse DTMF	
10         Ring Start Time         2~9         2         10	00 msec increments
11 Ring Stop Time 10~60 60 10	00 msec increments
12   Collect Digit   1~6   3	
13         Digit Store Time         01~15         15         1	sec increments

BTN	SUB-MENU	RANGE	DEFAULT	REMARK			
PGM:	PGM: 153 - DCOB CO Line Attributes						
1	Line Status	1~9	6				
2	DNIS Service	1: ON, 0: OFF	OFF				
3	Number of CLI Digits	01-15	10				
4	DCOB Туре	0-2	2				
5	Call Category	1-9	1				
6	DID Digit number	00~32	0				

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM: 1	60 - System Attributes I			
1	Attendant Call Queuing Ring- Back Tone	1: RBT, 0: MOH	МОН	
2	Camp-on, MOH/Ring-Back Tone	1: RBT, 0: MOH	МОН	
3	CO Dial-Tone Detect	1: ON, 0: OFF	OFF	
4	CO Line Choice	0~2	Last	0: Round Robin,1: Last Used, 2: First
5	DISA Retry Counter	1~9	3	
6	External Night Ring	1: ON, 0: OFF	OFF	
7	Hold Preference	1: Sys, 0: Excl	System	System/Exclusive Hold
8	Print LCR Converted Digit	1: LCR, 0: User	LCR	
9	Attendant Call Queue Available	1: ON, 0: OFF	OFF	
10	All Attendant PGM '0' Access	1: ON, 0: OFF	OFF	(Except USA version)
11	Off-Net Prompt Usage	1: ON, 0: OFF	OFF	(Except USA version)
12	Unsupervised Conf Timer Extension	1: ON, 0: OFF	OFF	
13	ACD Information Print	1: ON, 0: OFF	OFF	
14	Call Log List Number	15 ~ 50	15	
15	Off-net DTMF Tone	1: ON, 0: OFF	ON	
16	Authorization Retry Counter	1~9	3	
17	Conference Room Telephone number	8 digits		
18	MPB DIFFSERV	00-63	04	
19	UPGRADE MODE	1: FTP, 0: TFTP	FTP	
20	TRANSFER TONE	1: RBT, 0: MOH	RBT	
21	CONF WARN TONE	1: ON, 0: OFF	ON	
22	TLS for WEB	1: ON, 0: OFF	OFF	
23	DUMMY DIAL TONE	1: ON, 0: OFF	OFF	
24	ADDED ATTR		ADDED ATTR	
24-1	SIP STA MODE	0: RTD, 1: PTP	RTD	
24-2	SYS AUTH END CODE	0: OFF, 1: ON	OFF	
24-3	STN VM FEATURE USAGE	0: OFF, 1: ON	ON	
24-4	Remote VM access	0: OFF, 1: ON	ON	
24-5	Transfer Tone usage	0: OFF, 1: ON	OFF	
24-6	LCR Dial tone detect	0: OFF, 1: ON	OFF	
24-7	ICM Call log	0: OFF, 1: ON	OFF	
24-8	ATD password usage	0: OFF, 1: ON	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-9	Pickup STA name usage	0: OFF, 1: ON	OFF	
24-10	Display LCR mode	0: OFF, 1: ON	ON	
24-11	Easy 5 wake up usage	0: OFF, 1: ON	OFF	
24-12	WEB login usage	0: OFF, 1: ON	OFF	
24-13	VM MEX notify over LCO	0: DISABLE 1: ENABLE	DISABLE	
24-14	Modem ASC CO line	00-74	0	
24-15	Meet me soft display	0: OFF, 1: ON	ON	
24-16	Device information request interval time	015-255	015	
24-17	Number of CLI Wait list	000-255	000	
PGM: 16	61 - System Attributes II	·	·	
1	Off-Hook Ring Signal Type	1: Mute, 0: Burst	Mute	
2	Page Warning Tone	1: ON, 0: OFF	ON	
3	Privacy	1: ON, 0: OFF	ON	
4	Privacy Warning Tone	1: ON, 0: OFF	ON	
5	ACD PRNT Enable	1: ON, 0: OFF	OFF	
6	ACD PRNT Timer	001~255	10	10 second increments
7	ACD Clear after PRNT	1: ON, 0: OFF	OFF	
8	Override 1 <sup>st</sup> CO Group	1: ON, 0: OFF	ON	
9	Base Codec Type	0-3	G711	0: G711, 1: G.723.1, 2: G.729, 3: G.722
10	G.711 Packetization	10/20/30	20	1 msec increments
11	G.723 Packetization	30/60	30	1 msec increments
12	Network Time/Date	0: DISABLE 1: ISDN CLOCK 2: NTP	DISABLE	(USA version do not support ISDN CLOCK)
13	Incoming Call Toll Check	1: ON, 0: OFF	ON	
14	Web Server TCP port	00001~65535	00080	
15	Web Password Security	1: ON, 0: OFF	OFF	
16	Old Auth. Code Usage	1: ON, 0: OFF	ON	
17	COS 7 on Auth code entry failure	1: ON, 0: OFF	OFF	
18	Unified Message Format	1: ON, 0: OFF	OFF	
19	Record Warning Tone	1: ON, 0: OFF	ON	
20	Unused			
21	Unused			
22	SMS CENTER NUMBER	23 digits		
23	SMS PROTOCOL	0~8	NONE	0: No PSTN SMS support, 1: ETSI-P1 2: ETSI-P2 3: KT-LivingNet 4: SIP-Text 5: SIP-XML 6: KT-IP-PBX 7: SKN-IP-PBX 8: KT XML
24	ADDED ATTR			
24-1	G.722 PACKETIZATION(1ms)	10/20/30 msec	20	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-2	Unused			
24-3	SMS CENTER CLI	23 digits		
24-4	TRANSIT-OUT SECURITY	1: ON, 0: OFF	ON	
24-5	EMR CALL ATD NOTIFY	1: ON, 0: OFF	ON	
24-6	Unused			
		0: DISPLAY	DISPLAY	
24-7	FIRST DIGIT * IN SPD	SECURITY	SECURITY	
		1: DIGIT *		
24-8	Strong password	1: ON, 0: OFF	ON	
24-9	VSF/VMIB SMTP PORT	0 - 65535	25	
24-10	ICM BUSY SVC	1: OHVO, 0: INTR	OHVO	
24-11	AUTO SAVE NEW MSG	1: ON, 0: OFF	OFF	
24-12	IGMP QUERY USAGE	1: ON, 0: OFF	OFF	
24-13	IGMP INTV_TMR(1sec)	0~3600 (Sec.)	180	
24-14	IGMP QUERY ALL HOSTS	1: ON, 0: OFF	ON	
24-15	IGMP QUERY GENERIC	1: ON, 0: OFF	OFF	
24-16	RING-GROUP INDICATION	1: ON, 0: OFF	OFF	
24-17	RESTRICT * AND #	1: ON, 0: OFF	OFF	
24-18	RESTRICT ANS DGT DISP	1: ON, 0: OFF	ON	
24-19	IP BIND USAGE	1: ON, 0: OFF	OFF	
24-20	ACD MAILSEND WEEKLY SET	0-7	0	
24-21	ACD MAILSEND DAILY SET	00-23		
24-22	ACD DEL AFTER MAILSEND	1: ON, 0: OFF	OFF	
24-23	NEW 5 WAKE UP USAGE	1: ON, 0: OFF	OFF	
		0: OFF,	OFF	
24-24	ACD GROUP INDICATION	1: ON RING,		
		2: ON LED		
PGM: 16	62 - System Password			
1	Admin Password	Max 12 digits	-	
2	Maintenance Password	Max 12 digits	-	
PGM: 16	3 - Alarm Attributes			
1	Alarm Enable	1: ON, 0: OFF	OFF	
2	Alarm Contact Type	1: Close, 0: Open	Close	
3	Alarm/Door Bell Mode	1: Alarm, 0: Door-Bell	Alarm	
4	Alarm Signal Mode	1: Repeat, 0: Once	Repeat	
5	Emergency call notification	0: OFF 1: ON	ON	
6	DCOB Fault notification	0: OFF 1: ON	ON	
7	SIP registration fault notification	0: OFF 1: ON	ON	
PGM: 10	64 - Attendant Assignment			•
1	Attendant Assignment	Station	1: 100	Button 1 : System Attendant Button 2: Main Attendants

BTN		ble C-6 SYSTE RANGE		DEMADY
DIN	SUB-MENU	RANGE	DEFAULI	REMARK
PGM: 1	65 - Multicast RTP / RTCP	Γ	1	Γ
1	Multicast RTP	Flex 1 – 61	8100-8220	Max 4 digit
2	Multicast RTCP	Flex 1 – 61	8101 - 8221	Max 4 digit
<b>PGM:</b> 10	66 - DISA COS			
1	Day mode COS	1~11	1	
2	Night mode COS	1~11	1	
3	Timed mode COS	1~11	1	
PGM: 10	67 - DID/DISA Destination			
1	Busy Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce
2	Error Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce
3	No Answer Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce
4	VSF Prompts usage	Flex 1~5	Flex 1~5: ON	1: ON, 0: OFF
5	Reroute Busy Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
6	Reroute Error Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
7	Reroute No Answer Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
8	DND Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
9	Reroute Net CO busy Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt
PGM: 16	8 - External Control Contacts			
1	First Contact	1~3	-	1: LBC, 2: Door, 3: Ext. 1,
2	Second Contact	1~3	-	1: LBC, 2: Door, 3: Ext. 1,
PGM: 1	69 - LCD Date/Time & Language I	Node		
1	Date Display Mode	1: MMDDYY 0: DDMMYY	MMDDYY	
2	Time Display Mode	1: 12H, 0: 24H	12H	
3	Language Display Mode	00~17	00 (Eng)	
4	Weekday Display Mode	0~2	0	0 : PGM 169 BTN 1 1 : MM/DD WDY 2 : MM DD WDY
PGM: 1	70 - Flexible Button LED Flashing	Rate		
1	CO Incoming Ring Flashing Rate	00~14	FLASH 30 IPM (2)	
2	CO Transfer Ring Flashing Rate	00~14	FLASH 120 IPM (10)	
3	CO Queue Ring Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
4	CO Recall Ring Flashing Rate	00~14	FLASH 480 IPM FLUTTER (8)	
5	CO I Hold Flashing Rate	00~14	FLASH 30 IPM WINK (12)	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
6	CO System Hold Flashing Rate	00~14	FLASH 60 IPM (3)	
7	CO Exclusive Hold Flashing Rate	00~14	FLASH 120 IPM (10)	
8	CO Out-going disabled Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
9	CO incoming call off-net forward Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
10	CO DISA Indication Flashing Rate	00~14	FLASH 240 IPM (5)	
11	CO supplementary call waiting Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
12	CO Supplementary Hold Flashing Rate	00~14	FLASH 480 IPM (7)	
13	DSS button Flashing Rate for CO Ring	00~14	FLASH 30 IPM (2)	
14	DSS button Flashing Rate for ICM all Call	00~14	FLASH 60 IPM (3)	
15	DSS button Flashing Rate for ICM Ring associate	00~14	FLASH 120 IPM (10)	
16	DSS button Flashing Rate for a station in DND	00~14	FLASH 60 IPM (3)	
17	DSS button Flashing Rate for a station in Lock-out	00~14	FLASH 480 IPM FLUTTER (8)	
18	DSS button Flashing Rate for a station in pre-selected message mode	00~14	FLASH 30 IPM (2)	
19	DSS button Flashing Rate for a station in ICM Hold	00~14	FLASH 60 IPM (3)	
20	DSS button Flashing Rate for a station in other case	00~14	FLASH 120 IPM (10)	
21	CIQ #1 Threshold	00~14	FLASH 60 IPM (3)	
22	CIQ #2 Threshold	00~14	FLASH 120 IPM (10)	
23	CIQ #3 Threshold	00~14	FLASH 240 IPM (5)	
24	ACD DND button	00~14	FLASH 120 IPM (10)	
25	ACD Warning tone	00~14	FLASH 120 IPM (10)	
26	ACD Help Button	00~14	FLASH 120 IPM (10)	
27	Voice Record button	00~14	FLASH 240 IPM (5)	
28	Message Wait button	00~14	FLASH 30 IPM (2)	
29	DSS Out-of-service state	00~14	FLASH OFF (00)	

	Table C-6 SYSTEM DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
30	On-demand Ring mode	00~14	FLASH 60 IPM (3)			
31	Night Ring mode	00~14	FLASH STEADY (01)			
32	Timed Ring mode	00~14	FLASH 240 IPM (5)			
33	Auto Ring mode	00~14	FLASH 480 IPM (7)			
34	Page Hold Button	00~14	FLASH 60 IPM (3)			
35	DSS Off duty	00~14	FLASH 120 IPM (10)			
PGM: 17	71 - Music Source					
1	BGM Туре	0~10	1	00: No BGM 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3		
2	МОН Туре	0~10	1	00: Hold tone 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3		
3	Int/Ext1 Music	00~12	Romance	00: ROMANCE 01: TURKISH MARCH 02: GREEN SLEEVE 03: FUR ELISE 04: CARMEN 05: WALTZ 06: PAVANE 07: SICHILIANO 08: SONATA 09: SPRING 10: CAMPANELLA 11: BADINERIE 12: BLUE DANUBE		
4	SLT MOH	F1: SLTMOH1				

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
		F2: SLTMOH2		
		F3: SLTMOH3		
		F4: SLTMOH4		
		F5: SLTMOH5		
5	VSF MOH 2	01-70	N/A	
6	VSF MOH 3	01-70	N/A	
<b>PGM:</b> 1	72 - PBX Access Codes			
1 –4	PBX Access Code	Max 2 digits	-	Maximum 4 PBX access code
PGM: 1	73 - Ringing Line Preference Pri	ority		
1	Transfer CO Call	1~4	1	
2	Recalling CO Call	1~4	2	
3	Incoming CO Call	1~4	3	
4	Queued CO Call	1~4	4	
PGM: 17	4 - RS-232 Port Settings			
	-			1: Unused
				2: 9600 BAUD
1	Baud Rate	1~6	115200	3: 19200 BAUD
-				4: 38400 BAUD
				5: 57600 BAUD
0			055	6: 115200 BAUD
2	CTS/RTS	1: ON, 0: OFF	OFF	
3	Page Break	1: ON, 0: OFF	OFF	
4	Line Page	001~199	066	
5	XON/XOF	1: XON, 0: XOFF	XOFF	
PGM: 1	75 - Serial Port Function Selection	on	1	
	Print Port Selection	Flex 1~2		Flex 1: Select Print Port, Flex 2: Select TCP port
1	Select Print Port		SERIAL1	1-2: Serial, 3-5: dynamic TCP port
1-1	Off-line SMDR/Statistics Print	1~7	SERIAL1	
1-2	Admin Print	1~7	SERIAL1	
1-3	Traffic Print	1~7	SERIAL1	
1-4	SMDI Print	1~7	SERIAL1	
1-5	Call Info Print	1~7	SERIAL1	
1-6	On-line SMDR Print	1~7	SERIAL1	
1-7	Trace Print	1~5	SERIAL1	
1-8	Debug Print	1~7	SERIAL1	
1-9	ACD Package Print	1~7	SERIAL1	
2	Select TCP port			
2-1	Off-line SMDR/Statistics Print	1-9999	NULL	
	A duration During t	1-9999	NULL	
2-2	Admin Print			
2-2 2-3	Traffic Print	1-9999	NULL	
		1-9999 1-9999	NULL NULL	
2-3	Traffic Print			
2-3 2-4	Traffic Print SMDI Print	1-9999	NULL	
2-3 2-4 2-5	Traffic Print SMDI Print Call Info Print	1-9999 1-9999	NULL NULL	
2-3 2-4 2-5 2-6	Traffic Print SMDI Print Call Info Print On-line SMDR Print	1-9999 1-9999 1-9999	NULL NULL NULL	

	Table C-6 SYSTEM DATA						
SUB-MENU	RANGE	DEFAULT	REMARK				
ISMDR Print	1-9999	NULL					
6 - Break/Make Ratio							
Break/Make ratio	1: 66/33 0: 60/40	60/40					
- SMDP Attributes	0.00,10						
		OFF					
SMDR Print Enable	1: ON, 0: OFF	ON	ON: Real-time, OFF: On- demand				
SMDR Recording Call Type	1: LD, 0: ALL	LD	LD: Long Distance, ALL: All				
* *	07~15	07					
	1: ON, 0: OFF	OFF					
Print Lost Call		ON					
Records in Detail		ON					
SMDR Dial Digit Hidden	0~9	0					
	3 Characters	-					
,	6 digits	000000					
SMDR Decimal Location	0~5	0					
SMDR Start Timer	000~250	000	1 sec increments				
	12 digits						
User Mail Address	e-mail address		40 character modify via Web only				
SMDR System Domain Name	18 characters		Web only				
	0-7	0					
Mail Send Daily Set	00-23	00					
Auto Send Mode	1: ON, 0: OFF	OFF					
Auto Delete Mode	1: ON, 0: OFF	OFF					
SMDR Long Distance Codes	Flex 1~Flex 5	0	Maximum 5 LD codes, 2 digits each				
SMDR Ring/CLI/CPN (SVC_1)	0: Ring 1: CLI 2: CPN	RING	For incoming call, 0: Ring Service Time, 1: CLI, 2: CPN, 3: None Dialed number for outgoing call				
MSN Print on SMDR	1: ON, 0: OFF	OFF					
SMDR Ring/CLI/CPN (SVC_2)	0: Ring 1: CLI 2: CPN 3: None	CPN	For incoming call, 0: Ring Service Time, 1: CLI, 2: CPN, 3: None				
Print Serial No		OFF					
		-					
		Left					
	-						
Long Time Call(10min)	000-144	000					
SMDR No Out Net Call	1: ON, 0: OFF	OFF					
			1				
Unused Unused							
	ISMDR Print <b>5 - Break/Make Ratio</b> Break/Make ratio <b>- SMDR Attributes</b> SMDR Save Enable SMDR Save Enable SMDR Print Enable SMDR Recording Call Type SMDR LD Call Digit Counter Print Incoming Call Print Lost Call Records in Detail SMDR Dial Digit Hidden SMDR Currency unit SMDR Cost Per Unit Pulse SMDR Decimal Location SMDR Start Timer SMTP Mail Server Address User Mail Address SMDR System Domain Name Mail Send Weekly Set Mail Send Daily Set Auto Send Mode Auto Delete Mode SMDR Long Distance Codes SMDR Ring/CLI/CPN (SVC_1) MSN Print on SMDR SMDR Ring/CLI/CPN (SVC_2) Print Serial No SMDR Attributes Hidden digit location SMDR ICM Print SMDR Disconnect Cause	ISMDR Print1-9999 <b>5 - Break/Make Ratio</b> Break/Make ratio1: 66/33 0: 60/40- SMDR AttributesSMDR Save Enable1: ON, 0: OFFSMDR Recording Call Type1: LD, 0: ALLSMDR LD Call Digit Counter07~15Print Incoming Call1: ON, 0: OFFPrint Lost Call1: ON, 0: OFFSMDR Dial Digit Hidden0~9SMDR Currency unit3 CharactersSMDR Cost Per Unit Pulse6 digitsSMDR Dial Digit Hidden0~5SMDR Currency unit3 CharactersSMDR Start Timer000~250SMTP Mail Server Address12 digitsUser Mail Addresse-mail addressSMDR System Domain Name18 charactersMail Send Weekly Set0-7Mail Send Mode1: ON, 0: OFFAuto Delete Mode1: ON, 0: OFFSMDR Long Distance CodesFlex 1~Flex 5SMDR Ring/CLI/CPN (SVC_1)0: Ring1: CLI 2: CPN0: RingMSN Print on SMDR1: ON, 0: OFFSMDR Ring/CLI/CPN (SVC_2)0: RingPrint Serial No1: ON, 0: OFFSMDR Attributes01-19Hidden digit location1: Right, 0: LeftSMDR Attributes01-19Hidden digit location1: Right, 0: LeftSMDR Iterface Service1: ON, 0: OFFSMDR Iterface Service1: ON, 0: OFFSMDR Ring/CLI/CPN (Cause1: ON, 0: OFFSMDR Ring/CLI/CPN (SVC_2)0: Ring1: CLI 2: CPN1: CLI 2: CPNSMDR Ring/CL	ISMDR Print1-9999NULLS - Break/Make Ratio1: 66/33 0: 60/4060/40- SMDR Attributes5SMDR Attributes1: ON, 0: OFF0FFSMDR Save Enable1: ON, 0: OFF0NSMDR Recording Call Type1: LD, 0: ALLLDSMDR LD Call Digit Counter07-1507Print Incoming Call1: ON, 0: OFF0NSMDR LD Call Digit Counter07-1507Print Incoming Call1: ON, 0: OFF0NRecords in Detail1: ON, 0: OFF0NSMDR Dial Digit Hidden0-90SMDR Currency unit3 Characters-SMDR Cost Per Unit Pulse6 digits000000SMDR Start Timer000~250000SMDR System Domain Name18 charactersMail Send Weekly Set0-70Mail Send Mode1: ON, 0: OFFOFFAuto Delete Mode1: ON, 0: OFFOFFSMDR Long Distance CodesFlex 1-Flex 50SMDR Ring/CLI/CPN (SVC_1)1: CLI 2: CPNCPNSMDR Ring/CLI/CPN (SVC_2)1: CLI 2: CPNCPNSMDR Ring/CLI/CPN (SVC_2)1: CLI 2: CPNCPNSMDR Attributes01-19Print Serial No1: ON, 0: OFFOFFSMDR Attributes01-19Hidden digit location1: Right, 0: LeftSMDR King CLI/CPN (SVC_2)1: Right, 0: LeftSMDR Ring/CLI/CPN (SVC_2)1: CN, 0: OFFSMDR Ring/CLI/CPN (SVC_2)0: FINGSMDR Ring/CLI/C				

BTN	SUB-MENU	ble C-6 SYSTEN RANGE	DEFAULT	REMARK
24-11	SMTP Mail Server PWID	20 characters		
2111		0: Individual		
		1: Integrate		
24-12	Transferred Call Charge Rate	Transferring Station	Individual	
	5	2: Integrate		
		Transferred Station		
		0: Individual		
		1: Attendant		
24-13	Attendant Transfer Charge Rate	Charging 2: Transferred	Individual	
		Station Charging		
24-14	SMTP Mail Server Domain Address	100 Character		
24-15	SMTP sender Mail (WEB)	Max 40	-	
		Characters		
		0-2 (0:No security		
24-16	SMTP security	1:SSL	0	
		2:TLS)		
24-17	SMTP port	1-65535	25	
24-18	VSF VM Display	0:'l' 1:'V'	0:'l'	
24-19	Display N type	1:ON, 2:OFF	OFF	
PGM: 17	78 - System Date & Time			
1	System Time	HH:MM	-	Hour/Minute sequence.
2	System Date	MMDDYY	-	Month/Day/Year sequence
3	DST Enable Mode	0: OFF, 1: ON	OFF	Activate / deactivate DST ability
4	DST Start Time	See DST Table	2 <sup>nd</sup> Sunday of March at 2:00	Web Only, DST Table format
			AM	
-			1 <sup>st</sup> Sunday in	Web Oak, DOT Takle (and a
5	DST End Time	See DST Table	Nov. at 2:00 AM	Web Only, DST Table format
PGM: 17	79 - Multi-Language Support			
1	1 <sup>st</sup> language	1: ON, 0: OFF	ON	US
2	2 <sup>nd</sup> Language	1: ON, 0: OFF	OFF	Korea
3	3 <sup>rd</sup> Language	1: ON, 0: OFF	OFF	Turkey
4	4 <sup>th</sup> Language	1: ON, 0: OFF	OFF	Russia
5	5 <sup>th</sup> Language	1: ON, 0: OFF	OFF	Australia
6	6 <sup>th</sup> Language	1: ON, 0: OFF	OFF	Germany
	30 - System Timers I	Γ	Γ	Τ
1	ATD Recall Timer	00~60	01	1 min increments
2	Call Park Timer	000~600	120	1 sec increments
3	Camp-On Recall Timer	000~200	030	1 sec increments
4 5	Exclusive Hold Recall Timer	000~300 000~300	060	1 sec increments
			030	1 sec increments
6	System Hold Recall Timer	000~300	030	1 sec increments

	Ia	ble C-6 SYSTE		
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
7	Transfer Recall Timer	000~300	030	1 sec increments
8	ACNR Delay Timer	000~300	030	1 sec increments
9	ACNR Pause Timer	030~300	030	1 sec increments
10	ACNR Retry Counter	1~13	3	
11	ACNR Tone Detect Timer	001~300	030	1 sec increments
12	Automatic CO Release Timer	000~300	030	1 sec increments
13	CCR Inter-digit Timer	000~300	030	100 msec increments
14	CO Restrict Timer	00~99	00	1 minute increments
15	CO Dial Delay Timer	00~99	05	100 msec increments
16	CO Release Guard Timer	010~150	020	100 msec increments
17	CO Ring Off Timer	010~150	060	100 msec increments
18	CO Ring On Timer	1~9	2	100 msec increments
19	CO Elapsed Call Timer	005~900	180	1 sec increments
20	Web Password Guard Timer	001~999	5	1 min increments
21	On hook idle Timer	00~99	0	1 sec increments
22	Call recording repeat time	000~999	0	
PGM: 1	81 - System Timers II			
1	Call Fwd No Answer Timer	000~600	015	1 sec increments
2	DID/DISA No Answer Timer	000~255	000	1 sec increments
3	VSF User Max Record Timer	000~999	60	1 sec increments
4	VSF Valid User Message Timer	0~9	4	1 sec increments
5	Door Open Timer	05~99	20	100 msec increments
6	ICM Dial Tone Timer	01~20	10	1 sec increments
7	Inter-Digit Timer	01~20	05	1 sec increments
8	Message Wait Reminder Tone Timer	00~60	00	1 min increments
9	Paging Timeout Timer	000~255	015	1 sec increments
10	Pause Timer	1~9	3	1 sec increments
11	3-Soft Auto Release Timer	01-30	10	1 sec increments (Reserved for new keyset)
12	VM Pause Timer	1-90	30	100 msec increments (Except USA version)
13	VSF cut error Timer	1-90	00	1 sec increments
14	Unused			
15	Emergency retry timer	00~99 (1 sec.)	00	1 sec increments
16	Error tone timer	005~180 (1 sec.)	30	1 sec increments
17	Howling tone timer	000~180 (1 sec.)	30	1 sec increments
18	Notification play delay	1~99 (1 sec.)	10	1 sec increments
PGM: 1	82 - System Timers III			
1	SLT Hook Switch Bounce Timer	01~25	01	100 msec increments
2	SLT Max Hook Switch Flash Timer	01~25	07	100 msec increments
3	SLT Min Hook-flash Timer	000~250	010	10 msec increments
4	Station Auto Release Timer	000~300	060	1 sec increments

**Table C-6 SYSTEM DATA** 

	Table C-6 SYSTEM DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
5	Unsupervised Conference Timer	00~99	10	1 minute increments		
6	Prime Line Delay Timer	01~20	05	1 sec increments		
7	Wink Timer	010~200	010	10 msec increments		
8	En-block Inter-Digit Timer	01~20	5	1 sec increments		
9	DTMF Duration Timer	04~99	10	10 msec increments		
10	Flexible DID Timer	01~99	30	100 msec increments		
11	Wakeup fail Timer	00~99	20	1 sec increments		
12	Prepaid warn timer	00~99	00	1 sec increments		
PGM: 1	83 -In room indication					
1	Supervisor					
2	Member 01~20					
PGM: 1	86 - DCOB System Attributes					
1	R2 Out manage Timer	01~50	14	1 sec increments		
2	R2 Incoming manage Timer	01~50	14	1 sec increments		
3	R2 Disappear Timer	01~50	14	1 sec increments		
4	R2 Pulse Timer	01~30	07	20 msec increments		
5	R2 Ready Timer	000~500	07	20 msec increments		
6	R2 Dial tone Delay Timer	01~30	20	1 sec increments		
PGM: 1	95 – NTP Attributes					
		0 : Disable				
1	Network Time/Date	1: ISDN	Disable	TIME SOURCE		
		2: NTP				
PGM: 2	53 – VM COS Attributes					
1	Greeting Length	00-99	60			
2	Message Length	000-600	0			
3	Number Of Messages	000-250	0			
4	Retention Time	00-99	0			
		0: OFF				
5	E-mail Notification	1: Notification	Notification &			
-		2: Notification &	Delete			
6	Future Delivery Message	Delete 1: ON, 0: OFF	OFF			
7	Confirm Message Receipt	1: ON, 0: OFF	OFF			
8	Private Message Mark	1: ON, 0: OFF	OFF			
	0 – Personal Group	,				
1	Master Station	Station Range	-			
2	Member Station	Station Range	-			
	61 – Personal Group Attributes	Station Hango	1	1		
PGIVI: 20	Use Master Wake Up	1: ON, 0: OFF	OFF			
2	Use Master Call Forward	1: ON, 0: OFF	ON			
3	Use Master DND	1: ON, 0: OFF	OFF			
4	Set linked pair	1: ON, 0: OFF	OFF			
4		1. UN, U. UEF				

Table C-6 SYSTEM DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM: 19	0 - Station Group Assignment, 401	- 439	·	
1	Group Type	0~10	0	0: No Assignment 1: Circular 2: Terminal 3: UCD/ACD 4: Ring 5: VM 6: Pick-Up 7: VSF-VM 8: UMS 9: NET-VM 10: UCS
2	Pick-up Attribute	1: ON, 0: OFF	OFF	Not applicable VM group
3	Circular group			
PGM: 1	91 - Station Group Attributes, by G	оир Туре		
CIRCUL	AR GROUP			
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~70	00	
4	VSF Announce 2 Location	00~70	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	No Answer Timer	00~99	15	1 second increments
11	Pilot Hunt	1: ON, 0: OFF	ON	
12	Report No Member	1: ON, 0: OFF	OFF	
13	Music Source	00~10	1	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3
14	Member Forward	1: ON, 0: OFF	ON	
15	Mailbox Message Wait Station	Station Number	None	
16	Mailbox Password	12 digits	None	
17	Forced destination	1~4		
18	Forced forward destination usage	1: ON, 0: OFF	OFF	
19	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
20	Group name	20 character		
21	Maximum queue call count	00-99	99	

# Table C-7 STATION GROUP DATA

BTN	SUB-MENU	-7 STATION GR RANGE	DEFAULT	REMARK
TERMIN	IAL GROUP			
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~70	00	
4	VSF Announce 2 Location	00~70	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/		
'		VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	No Answer Timer	00~99	15	1 second increments
11	Pilot Hunt	1: ON, 0: OFF	ON	
12	Report No Member	1: ON, 0: OFF	OFF	
				00: Ring-back
				01: INT Music
				02: EXT Music
				03: VSF MOH
				04: SLT MOH1
13	Music Source	00~10	1	05: SLT MOH2
				06: SLT MOH3
				07: SLT MOH4
				08: SLT MOH5
				09: VSF MOH2
				10: VSF MOH3
14	Member Forward	1: ON, 0: OFF	ON	
15	Mailbox Message Wait Station	Station Number	None	
16	Mailbox Password	12 digits	None	
17	Forced destination	1~4		
18	Forced forward destination usage	1: ON, 0: OFF	OFF	
19	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
20	Group name	20 character		
21	Maximum queue call count	00-99	99	
UCD/AC	D GROUP			
1	VSF Announce 1 Timer	000~999	15	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~70	00	
4	VSF Announce 2 Location	00~70	00	
5	VSF Announce 2 Repeat Timer	000~999	00	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
		Station/Group/ VSF/Speed	-	
7	Overflow Destination	vor/opeeu		
7	Overflow Destination Overflow Timer	000~600	180	1 second increments
			180 000	1 second increments 1 second increments
8	Overflow Timer	000~600		
8 9	Overflow Timer Wrap-Up Timer	000~600 000~999	000	1 second increments
8 9	Overflow Timer Wrap-Up Timer	000~600 000~999	000	

#### Table C-7 STATION GROUP DATA

Table C-7 STATION GRO	OUP DATA
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BTN	SUB-MENU	RANGE	DEFAULT	REMARK
				03: VSF MOH
				04: SLT MOH1
				05: SLT MOH2
				06: SLT MOH3
				07: SLT MOH4
				08: SLT MOH5
				09: VSF MOH2
				10: VSF MOH3
12	ACD Warning Tone	1: ON, 0: OFF	OFF	
13	Alternate Destination	Station/Group /Speed		
14	Supervisor Timer	000~999	030	1 second increments
15	Supervisor Call Count	00~99	00	
16	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
17	Maximum Queued Call Counter	00~99	99	
18	Supervisors	Station	-	Max, 5 station can be supervisors
19	UCD/ACD Station Priority	0~9	0	
20	ACD DND Wrap-up Timer	002~200	010	1 second increments
21	ACD ICLID Usage	1: ON, 0: OFF	OFF	When guaranteed announcement is used
22	ACD Group Name	20 Character	-	
23	ACD CIQ Route	Flex 1 ~ 10		Flex 10 : when caller dial "0" Flex 1~9 : caller digit 1~9 Ex.) When Flex 1 is pressed 1: Station Number 2: Hunt Group Number 3: System Speed Number 4: Network Station Number
24	ACD Sub Attribute	Flex 1-20		
24-1	Zap Tone	1: ON, 0: OFF	OFF	
24-2	Mailbox Message Wait Station	Station Number	None	
24-3	Mailbox Password	12 digits	None	
24-4	Call In Queue Display	1: ON, 0: OFF	OFF	
24-5	Forced forward destination usage	1: ON, 0: OFF	OFF	
24-6	Call In Queue #1 Threshold	00~99	10	
24-7	Call In Queue #1 Announcement	00~70		
24-8	Call In Queue #1 Page zone	00~15 or 00~40	00	
24-9	Call In Queue #1 Announcement Delay Timer	000~180	015	1 second increments
24-10	Call In Queue #1 Announcement Repeat Timer	000~180	045	1 second increments
24-11	Call In Queue #2 Threshold	00~99	20	
24-12	Call In Queue #2 Announcement Location	00~70		
24-13	Call In Queue #2 Page zone	00~15 or 00~40	00	
24-14	Call In Queue #2 Announcement Delay Timer	000~180	015	1 second increments

IDDSUB-MENUIRANCEDEFAULTREMARK24-11Callan Queuer 37 Announcement00-18021.000030.000024-12Callan Queuer 37 Announcement00-70Callan Queuer 37 Announcement00-70Callan Queuer 37 Announcement00-18011.000024-13Callan Queuer 37 Announcement00-18001.0001 second increments24-24Callan Queuer 37 Announcement000-18001.0001 second increments24-24Callan Queuer 37 Announcement000-18001.0001 second increments24-24I of Queuer 37 Announcement000-18001.0001 second increments24-24Forward Gentaria10.01.01001.0001 second increments24-24Forward Centaria000-91001.0001 second increments24-24Forward Centaria000-91001.0001 second increments24-24Forward Centaria000-9100001 second increments24-24Forward Centaria000-9100001 second increments24-25VSF Announce 2 Timer000-91000001 second increments24VSF Announce 2 Repeat1.01.01.011 second increments25Vorfforturer000-91000001 second increments26Vorfforturer000-91000001 second increments27Overflow Destaria00-91000001 second increments28Vorfforturer00-91000001 second increments29Norfforturer		Table C-7 STATION GROUP DATA				
24-16         Call In Queue #3 Threshold         00-99         30           24-17         Call In Queue #3 Announcement Location         00-70	BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
24-17         Call In Queue #3 Announcement Location         00-70         00           24-18         Call In Queue #3 Page zone Delay Timer         000-150 r 00-40         00         1 second increments           24-19         Call In Queue #3 Announcement Delay Timer         000-180         015         1 second increments           24-20         Repeat Timer         000-180         005         1 second increments           24-21         Call in Queue #3 Announcement Delay Timer         000-180         005         1 second increments           24-24         Repeat Timer         000-180         000         1 second increments           24-24         ACD No-answer Timer         000-999         015         1 second increments           24-24         Forward destination         1-4         1         1           1         VSF Announce 1 Timer         000-999         00         1 second increments           2         VSF Announce 2 Repeat Timer         000-999         00         1 second increments           3         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           4         VSF Announce 2 Repeat Timer         000-999         002         1 second increments           6         VSF Announce 2 Repeat Timer         <	24-15		000~180	025	1 second increments	
24-17         Location         00-70         00           24-18         Call In Queue #3 Page zone         00-15 or 00-40         00           24-19         Call In Queue #3 Announcement Repeat Timer         000-180         015         1 second increments           24-20         Call In Queue #3 Announcement Repeat Timer         000-180         005         1 second increments           24-21         Call in Queue Montion         1: ON, 0: OFF         OFF         1           24-22         ACD No-answer Timer         000-180         000         1 second increments           24-24         Forward         1: ON, 0: OFF         ON         1           24-25         Member Forward         1: ON, 0: OFF         ON         1           1         VSF Announce 1 Timer         000-999         015         1 second increments           2         VSF Announce 2 Incertin         00-70         00         1           4         VSF Announce 2 Location         00-70         00         1           5         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           6         VSF Announce 2 Repeat Timer         000-999         002         1 second increments           9         Wrap-Up Timer <td>24-16</td> <td>Call In Queue #3 Threshold</td> <td>00~99</td> <td>30</td> <td></td>	24-16	Call In Queue #3 Threshold	00~99	30		
24-18       Call in Queue #3 Announcement bega Timer       000-180       015       1 second increments         24-20       Call In Queue #3 Announcement Repeat Timer       000-180       005       1 second increments         24-21       Call in Queue #3 Announcement Repeat Timer       000-180       000       1 second increments         24-22       ACD No-answer Timer       000-180       000       1 second increments         24-23       Member Forward       1: ON, 0: OFF       ON       2         24-24       Forward destination       1-4       00       1         24-25       Member Forward       000-999       015       1 second increments         24-26       VSF Announce 1 Timer       000-999       000       1 second increments         2       VSF Announce 2 Timer       000-999       000       1 second increments         2       VSF Announce 2 Repeat Timer       000-999       000       1 second increments         3       VSF Announce 2 Repeat Timer       000-999       002       1 second increments         6       VSF Announce 2 Repeat Timer       000-999       002       1 second increments         9       Wrap-Up Timer       000-999       002       1 second increments         9       W	24-17		00~70			
24-19     Delay Timer     000-180     015     1 second increments       24-20     Call in Queue #3 Announcement Repeat Timer     000-180     005     1 second increments       24-21     Call in Queue Mention     1: ON, 0: OFF     OFF     000       24-22     ACD No-answer Timer     000 - 180     000     1 second increments       24-24     Forward destination     1-4     1     000-180     1 second increments       24-24     Forward destination     1-4     1     000-199     015     1 second increments       24-25     KP Announce 1 Timer     000-999     00     1 second increments     00       24-26     Forward destination     00-70     00     1 second increments       3     VSF Announce 2 Timer     000-999     000     1 second increments       3     VSF Announce 2 Repeat Timer     000-999     000     1 second increments       6     VSF Announce 2 Repeat     1: ON, 0: OFF     OFF     1       7     Overflow Destination     \$1: ON, 0: OFF     OFF     1       8     Overflow Timer     000-999     002     1 second increments       9     Wrap-Up Timer     000-999     002     1 second increments       10     Music Source     0-10     1	24-18	Call In Queue #3 Page zone		00		
24-20         Repeat Timer         000-180         005         1 second increments           24-21         Call in Queue Mention         1: ON, 0: OFF         OFF         Image: Construct of the construction of the constener of theconstruction of the constener of the construction of t	24-19		000~180	015	1 second increments	
24-22         ACD No-answer Timer         000 - 180         000         1 second increments           24-23         Member Forward         1: ON, 0: OFF         ON         I           24-24         Forward destination         1-4         I         I           RING GROUP         I         VSF Announce 1 Timer         000-999         015         1 second increments           2         VSF Announce 1 Location         00-70         00         I         second increments           3         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           6         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           7         Overflow Destination         Station/Group/ VSF/Speed         -         I           8         Overflow Timer         000-600         180         1 second increments           9         Wrap-Up Timer         000-899         002         1 second increments           10         Music Source         0-10         1         00: Ring-back           11         Maximum Queued Call Counter         00-99         99         05: SLT MOH2           14         Mailbox Message Wait Station         Station Number         None      <	24-20		000~180	005	1 second increments	
24-23         Member Forward         1: ON, 0: OFF         ON           24-24         Forward destination         1-4            RING GROUP         000-999         015         1 second increments           2         VSF Announce 1 Timer         000-999         00         1 second increments           3         VSF Announce 2 Location         00-70         00            4         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           6         VSF Announce 2 Repeat         1: ON, 0: OFF         OFF            7         Overflow Destination         Station/Group/ VSF/Speed         -            8         Overflow Timer         000-600         180         1 second increments           9         Wrap-Up Timer         000-999         002         1 second increments           10         Music Source         0-10         1            11         Maximum Queued Call Counter         00-99         99         002         1 second increments           11         Maximum Queued Call Counter         00-99         99         002         1 second increments           11         Maximum Queued Call Counter         00-99	24-21	Call in Queue Mention	1: ON, 0: OFF	OFF		
24-24         Forward destination         1-4           RING GROUP         1         VSF Announce 1 Timer         000-999         015         1 second increments           2         VSF Announce 1 Location         00-70         00         1 second increments           3         VSF Announce 2 Location         00-70         00         1 second increments           4         VSF Announce 2 Location         00-70         00         1 second increments           5         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           6         VSF Announce 2 Repeat         1: ON, 0: OFF         OFF         -           7         Overflow Destination         Station/Group/ VSF/Speed         -         -           8         Overflow Timer         000-999         002         1 second increments           9         Wrap-Up Timer         000-999         002         1 second increments           10         Music Source         0-10         1         -           11         Maximum Queued Call Counter         00-99         99         05: SLT MOH2           11         Maximum Queued Call Counter         00-99         99         06: SLT MOH2           12         Member Forward	24-22	ACD No-answer Timer	000 ~ 180	000	1 second increments	
RING GROUP1VSF Announce 1 Timer000-9990151 second increments2VSF Announce 2 Timer000-999001 second increments3VSF Announce 1 Location00-7000004VSF Announce 2 Repeat Timer000-9990001 second increments5VSF Announce 2 Repeat1: ON, 0: OFFOFF007Overflow DestinationStation/Group/ VSF/Speed8Overflow Timer000-9990021 second increments9Wrap-Up Timer000-9990021 second increments10Music Source0-10100: Ring-back11Maximum Queued Call Counter00-999905: SLT MOH112Member Forward1: ON, 0: OFFON06: SLT MOH313Mailbox Message Wait StationStation NumberNone10: VSF MOH314Mailbox Password12 digitsNone10: VSF MOH315Forced destination1-41116Forced forward destination usage1: ON, 0: OFFOFF17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFOFF18Group name20 characters10Wrap-Up Timer000-9990001 second increments	24-23	Member Forward	1: ON, 0: OFF	ON		
1         VSF Announce 1 Timer         000-999         015         1 second increments           2         VSF Announce 2 Timer         000-999         00         1 second increments           3         VSF Announce 2 Location         00-70         00         00           4         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           6         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           7         Overflow Destination         Station/Group/ VSF/Speed         -         -           8         Overflow Timer         000-600         180         1 second increments           9         Wrap-Up Timer         000-600         180         1 second increments           10         Music Source         0-10         1         -           11         Maximum Queued Call Counter         00-99         99         002         1 second increments           11         Maximum Queued Call Counter         00-99         99         99         00: Ring-back           01: INT Music         02: EXT Music         03: VSF MOH3         07: SLT MOH4         08: SLT MOH2           12         Member Forward         1: ON, 0: OFF         ON         - <td>24-24</td> <td>Forward destination</td> <td>1-4</td> <td></td> <td></td>	24-24	Forward destination	1-4			
2         VSF Announce 2 Timer         000-999         00         1 second increments           3         VSF Announce 1 Location         00-70         00         00           4         VSF Announce 2 Cocation         00-70         00         1           5         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           6         VSF Announce 2 Repeat         1: ON, 0: OFF         OFF         1           7         Overflow Destination         Station/Group/ VSF/Speed         -         1           8         Overflow Timer         000-600         180         1 second increments           9         Wrap-Up Timer         000-999         002         1 second increments           10         Music Source         0-10         1         00: Ring-back 01: INT Music           11         Maximum Queued Call Counter         00-99         99         06: SLT MOH1 05: SLT MOH2 06: SLT MOH2 07: SLT MOH4 08: SLT MOH3           12         Member Forward         1: ON, 0: OFF         ON         1           13         Mailbox Message Wait Station         Station Number         None         1           14         Mailbox Message Wait Station         1-4         I         1         1	RING G	ROUP				
2         VSF Announce 2 Timer         000-999         00         1 second increments           3         VSF Announce 1 Location         00-70         00         00           4         VSF Announce 2 Cocation         00-70         00         1           5         VSF Announce 2 Repeat Timer         000-999         000         1 second increments           6         VSF Announce 2 Repeat         1: ON, 0: OFF         OFF         1           7         Overflow Destination         Station/Group/ VSF/Speed         -         1           8         Overflow Timer         000-600         180         1 second increments           9         Wrap-Up Timer         000-999         002         1 second increments           10         Music Source         0-10         1         00: Ring-back 01: INT Music           11         Maximum Queued Call Counter         00-99         99         06: SLT MOH1 05: SLT MOH2 06: SLT MOH2 07: SLT MOH4 08: SLT MOH3           12         Member Forward         1: ON, 0: OFF         ON         1           13         Mailbox Message Wait Station         Station Number         None         1           14         Mailbox Message Wait Station         1-4         I         1         1	1	VSF Announce 1 Timer	000~999	015	1 second increments	
3       VSF Announce 1 Location       00-70       00         4       VSF Announce 2 Repeat Timer       000-999       000       1 second increments         6       VSF Announce 2 Repeat       1: ON, 0: OFF       OFF         7       Overflow Destination       Station/Group/ VSF/Speed       -         8       Overflow Timer       000-600       180       1 second increments         9       Wrap-Up Timer       000-999       002       1 second increments         10       Music Source       0-10       1       00: Ring-back         11       Maximum Queued Call Counter       00-99       99       99       00: Ring-back         11       Maximum Queued Call Counter       00-99       99       99       06: SLT MOH3         12       Member Forward       1: ON, 0: OFF       ON       00: VSF MOH2         12       Member Forward       1: ON, 0: OFF       ON       10: VSF MOH3         14       Mailbox Message Wait Station       Station Number       None       10: VSF MOH3         14       Mailbox Password       12 digits       None       11: ON, 0: OFF       OFF         18       Group name       20 characters        12: ON, 0: OFF       OFF	2					
4       VSF Announce 2 Location       00-70       00       1 second increments         5       VSF Announce 2 Repeat Timer       000-999       000       1 second increments         6       VSF Announce 2 Repeat       1: ON, 0: OFF       OFF       -         7       Overflow Destination       Station/Group/ VSF/Speed       -       -         8       Overflow Timer       000-600       180       1 second increments         9       Wrap-Up Timer       000-999       002       1 second increments         10       Music Source       0-10       1       -         11       Maximum Queued Call Counter       00-99       99       002       1 second increments         11       Maximum Queued Call Counter       00-99       99       00: Ring-back       01: INT Music         02: EXT MUSic       03: VSF MOH       04: SLT MOH1       05: SLT MOH2       06: SLT MOH3         07: SLT MOH4       08: SLT MOH3       07: SLT MOH3       07: VSF MOH2       09: VSF MOH2         12       Member Forward       1: ON, 0: OFF       ON       -       -         13       Mailbox Message Wait Station       Station Number       None       -       -         14       Mailbox Password						
5       VSF Announce 2 Repeat Timer       000-999       000       1 second increments         6       VSF Announce 2 Repeat       1: ON, 0: OFF       OFF         7       Overflow Destination       Station/Group/ VSF/Speed       -         8       Overflow Timer       000-600       180       1 second increments         9       Wrap-Up Timer       000-999       002       1 second increments         10       Music Source       0-10       1       0: Ring-back         11       Maximum Queued Call Counter       00-99       99       05: SLT MOH1         11       Maximum Queued Call Counter       00-99       99       05: SLT MOH2         12       Member Forward       1: ON, 0: OFF       ON       0: VSF MOH2         12       Member Forward       1: ON, 0: OFF       ON       0: VSF MOH2         13       Mailbox Message Wait Station       Station Number       None       1: ON, 0: OFF       ON         14       Mailbox Message Wait Station       1: ON, 0: OFF       ON       1: ON       1: ON, 0: OFF       ON         15       Forced destination usage       1: ON, 0: OFF       ON       I       1: ON, 0: OFF       ON         16       Forced destination usage <t< td=""><td>-</td><td></td><td></td><td></td><td></td></t<>	-					
6       VSF Announce 2 Repeat       1: ON, 0: OFF       OFF         7       Overflow Destination       Station/Group/ VSF/Speed       -         8       Overflow Timer       000-600       180       1 second increments         9       Wrap-Up Timer       000-999       002       1 second increments         10       Music Source       0-10       1         11       Music Source       0-10       1         11       Maximum Queued Call Counter       00-99       99       002 Ring-back 01: INT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3 11: ON, 0: OFF       ON         12       Member Forward       1: ON, 0: OFF       ON         13       Mailbox Message Wait Station       Station Number       None         14       Mailbox Password       12 digits       None         15       Forced destination usage       1: ON, 0: OFF       ON         16       Forced forward destination usage       1: ON, 0: OFF       ON         18       Group name       20 characters          18       Group name       20 characters					1 second increments	
7Overflow DestinationStation/Group/ VSF/Speed-8Overflow Timer000-6001801 second increments9Wrap-Up Timer000-3990021 second increments10Music Source0-10100: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH111Maximum Queued Call Counter00-99999905: SLT MOH2 06: SLT MOH2 06: SLT MOH3 07: SLT MOH3 07: SLT MOH312Member Forward1: ON, 0: OFFON0Ne13Mailbox Message Wait StationStation NumberNone14Mailbox Password12 digitsNone15Forced destination usage1: ON, 0: OFFOFF17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFOFF18Group name20 characters1Wrap-Up Timer000-9990001 second increments2Put Mail Index1-41						
8Overflow Timer000-6001801 second increments9Wrap-Up Timer000-9990021 second increments10Music Source0~10111Music Source0~10111Maximum Queued Call Counter00~999900200: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH111Maximum Queued Call Counter00~99999905: SLT MOH2 06: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH312Member Forward1: ON, 0: OFFON13Mailbox Message Wait StationStation Number 12 digitsNone14Mailbox Password12 digitsNone15Forced destination usage1: ON, 0: OFFOFF16Forced forward destination usage1: ON, 0: OFFON17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFON18Group name20 characters1Wrap-Up Timer000-9990001 second increments2Put Mail Index1~41	-		Station/Group/	-		
10Music Source0~1011100: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH2 10: VSF MOH212Member Forward1: ON, 0: OFFON13Mailbox Message Wait StationStation Number 12 digitsNone14Mailbox Password12 digitsNone15Forced destination usage1: ON, 0: OFFOFF16Forced forward destination usage1: ON, 0: OFFON18Group name20 characters1Wrap-Up Timer000–9990001 second increments2Put Mail Index1~41	8	Overflow Timer	-	180	1 second increments	
10Music Source0~1011100: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH2 06: SLT MOH3 07: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH312Member Forward1: ON, 0: OFFON13Mailbox Message Wait StationStation Number 12 digitsNone14Mailbox Password12 digitsNone15Forced destination usage1: ON, 0: OFFOFF16Forced forward destination usage1: ON, 0: OFFON17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFON18Group name20 characters1Wrap-Up Timer000–9990001 second increments2Put Mail Index1~41	9	Wrap-Up Timer	000~999	002	1 second increments	
11Maximum Queued Call Counter00~999901: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH2 10: VSF MOH312Member Forward1: ON, 0: OFFON13Mailbox Message Wait StationStation NumberNone14Mailbox Message Wait Station12 digitsNone15Forced destination usage1: ON, 0: OFFON16Forced forward destination usage1: ON, 0: OFFON17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFON18Group name20 characters1Wrap-Up Timer000~9990001 second increments2Put Mail Index1~41	10		0~10	1		
13Mailbox Message Wait StationStation NumberNone14Mailbox Password12 digitsNone15Forced destination1~4Image: Constraint of the station of the s	11	Maximum Queued Call Counter	00~99	99	01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2	
14Mailbox Password12 digitsNone15Forced destination1~4-16Forced forward destination usage1: ON, 0: OFFOFF17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFON18Group name20 charactersExternal VM GROUP1Wrap-Up Timer000~9990001 second increments2Put Mail Index1~41	12	Member Forward	1: ON, 0: OFF	ON		
15Forced destination1~4Image: Constraint of the second destination of the secon	13	Mailbox Message Wait Station	Station Number	None		
16Forced forward destination usage1: ON, 0: OFFOFF17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFON18Group name20 charactersExternal VM GROUP1Wrap-Up Timer000~9990001 second increments2Put Mail Index1~41	14	Mailbox Password	12 digits	None		
17WAIT IF 1ST ANNC BUSY1: ON, 0: OFFON18Group name20 charactersExternal VM GROUP1Wrap-Up Timer000~9990001 second increments2Put Mail Index1~41	15	Forced destination	1~4			
18Group name20 charactersExternal VM GROUP1Wrap-Up Timer000~9990001 second increments2Put Mail Index1~41	16	Forced forward destination usage	1: ON, 0: OFF	OFF		
External VM GROUP       1     Wrap-Up Timer     000~999     000     1 second increments       2     Put Mail Index     1~4     1	17	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON		
1         Wrap-Up Timer         000~999         000         1 second increments           2         Put Mail Index         1~4         1	18	Group name	20 characters			
2         Put Mail Index         1~4         1			1	1	I	
			1		1 second increments	
3 Get Mail Index 1~4 2	2	Put Mail Index	1~4			
	3	Get Mail Index	1~4	2		

Table C-7 STATION GROUP DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
4	VM Group Hunt Type	1: Circular 0: Terminal	Terminal	
5	Overflow Timer	000~600	180	1 second increments
6	Overflow Destination	Station/Group or System Speed	-	
7	Forced forward usage	0: OFF / 1: ON	OFF	
8	Forced forward destination	1-4		
9	Group name	20 characters		
10	Server type	0: IPCR 1: 3rd	3rd	
11	Server number	01-10		
12	Member type	0: SIP 1: SLT	SIP	
13	Server capacity	000~140	0	
PICK-UI	P GROUP			
1	Auto Pick-Up	1: ON, 0: OFF	OFF	
2	All Group Member Ringing	1: ON, 0: OFF	OFF	
VSF-VM	I GROUP	1		
1	Retention	00 ~ 99	00	1 Day increments
2	Dial time	00 ~ 99	15	1 second increments
3	Group name	20 characters		
UMS GF		20 011010000		
1	VSF Announce 1 Timer	000~999	15	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	01~70	00	
4	VSF Announce 2 Location	01~70	00	
5	VSF Announce 2 Repeat Timer	000~999	00	
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	No Answer Timer	00~99	15	1 second increments
10	Pilot Hunt	1: ON, 0: OFF	ON	
11	Alternate Destination	Station/Group		
12	Hunt Type	1: Circular 0: Terminal	Circular	
13	Wrap-Up Timer	002~999	002	1 second increments
14	Forced forward usage	0: OFF 1: ON	OFF	
15	Forced forward destination	1-4		
16	Group name	20 characters		
JCS GR	OUP			
	Select UCS	Flex 1		
1	UCS Server	01 ~ 16	1	Only selection 1 is supported
PGM: 1	92 - Pick up Group Assignment			
	Member assignment	Station	-	

## Table C-7 STATION GROUP DATA

Table C-8 ISDN LINE & ICLID ROUTING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	200 - ISDN Attributes	•		
1	CO ATD CODE	2 digits	-	
2	CLI Print To Serial	1: ON, 0: OFF	OFF	
3	Display DID info	1: ON, 0: OFF	OFF	
PGM:	201 - CLIP/COLP Table			
1	CLIP/COLP Table	00~49		
PGM:	202 - MSN Table			
1	CO range			
2	Index	000~999		Index to PGM 231 Table
3	Telephone number	23 digits		
PGM:	203 - ICLID Route Table		-	
1	Index	001~250	-	The bin no of PGM 204
2	ICLID Telephone number	24 digits	-	
3	ICLID Name	12 characters		
4	ICLID Tone	01~12		2 digits
PGM:	204 - ICLID RING Assignment Tab	ble	•	
1	Day	Station/Group		Flex 1: Station + Delay (0~9
2	Night	Station/Group		ring cycles)
3	Timed Ring	Station/Group		Flex 3: VSF announcement (01~70) Flex 4: AA Ring delay Time (00~30 sec.)
PGM:	205 - PPP Attributes			
1	PPP Destination Station number	Station Number	None	
2	PPP User ID 1	12 Characters	likppp01	
3	PPP Password 1	12 Characters	lpkts01	
4	PPP User ID 2	12 Characters	likppp02	
5	PPP Password 2	12 Characters	lpkts02	
6	Server IP address	IP address		
7	Client IP address	IP address		
PGM:	206 - PREFIX Dialing Table Attrib	utes		
1	PREFIX CODE	Max. 8 digits	-	
2	TABLE ID	0-6	0	
3	MIN DIGIT	00-30	0	
4	MAX DIGIT	00-30	0	
5	NUM OF TYPE	0-6	0 (UNKNOWN)	0:Unknown 1:International 2:National 3:Network Spec. 4:Subscriber 5:Abbreviated 6:Reserved
6	NUM PLAN	0-6	0 (UNKNOWN)	0:Unknonw 1:ISDN/Telephony 2:Data numbering

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
				3:Telex 4:National standard 5:Private 6:Reserved
7	SENDING COMPLETE	1:ON / 0:OFF	OFF	
8	CALL CHARGE TYPE	0-5	0 (UNKNOWN)	0:Unknown 1:Local 2:Long Distance 3:International 4:Mobile 5:reserved
9	CALL CHARGE TIMER	000-999	000	
10	Prefix table			

## Table C-8 ISDN LINE & ICLID ROUTING DATA

	SUB-MENU	RANGE	DEFAULT	REMARK
PGM: 2	220 - LCR Control Attributes			
1	LCR Access Mode	1~6	МОО	1: M00 2: M01 3: M02 4: M11 5: M12 6: M13
	Set the Day of week zone			
	1	MON	1~3	1
	2	TUE	1~3	1
2	3	WED	1~3	1
2	4	THUR	1~3	1
	5	FRI	1~3	1
	6	SAT	1~3	1
	7	SUN	1~3	1
	Set the Time Zone of Day zone1			
3	1	00~24		
3	2	00~24		
	3	00~24		
	Set the Time Zone of Day zone1			
4	1	00~24		
4	2	00~24		
	3	00~24		
	Set the Time Zone of Day zone1			
5	1	00~24		
Э	2	00~24		
	3	00~24		
PGM:	221 - LCR Leading Digit Table			
1	LCR Type	1~3	Both	1: Internal 2: CO Line, 3: Both
2	Code (leading digit)	Max. 12 digits	-	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
3	Day Zone 1 DMT	6 digits		Time Zone 1~3: 2 digits each
4	Day Zone 2 DMT	6 digits		Time Zone 1~3: 2 digits each
5	Day Zone 3 DMT	6 digits		Time Zone 1~3: 2 digits each
6	Check Password	1: ON, 0: OFF	OFF	LCR code authorization
PGM:	222 - LCR Digit Modification Table	9		
1	Added Digit	Max. 25 digits		
2	Removal Position	01~12	01	
3	Number of Remove digits	00~12	00	
4	Add Position	01~13	01	
5	CO/IP Group	01-21	01	
6	Alt Index	00~99	-	
7	Net num plan bin	000~251		
8	SMDR code	4 digit		
PGM	223 - LCR Table Initialization			
1	DMT Of Day zone 1	6 digits		Time Zone 1~3: 2 digits each
2	DMT Of Day zone 2	6 digits	1	Time Zone 1~3: 2 digits each
3	DMT Of Day zone 3	6 digits		Time Zone 1~3: 2 digits each
4	CO Group Init	01-21		
5	Alt Index Init	00~99		
6	Initialize All LCR			
-	224 - TOLL Table			
1	Allow Table A (01~50)	Max. 20 digits		
2		Max. 20 digits	-	
2	Deny Table A (01~50) Allow Table B (01~50)	Max. 20 digits	-	
4	Deny Table B (01~50)	Max. 20 digits	-	
4 5	Allow Table C (01~50)	Max. 20 digits	-	
6 7	Deny Table C (01~50)	Max. 20 digits	-	
	Allow Table D (01~50)	Max. 20 digits	-	
8 9	Deny Table D (01~50)	Max. 20 digits	-	
-	Allow Table E (01~50)	Max. 20 digits		
10	Deny Table E (01~50)	Max. 20 digits	-	
PGM:	226 - Emergency Code Table			1
	Emergency Code Table (01~10)	Max. 15 digits		
PGM:	227 - Authorization Code Table	Т	T	Т
	Table entry	Max. 12 digits		Flex 1: Station Flex 2: System
1	Station Authorization code			Í
1-1	Station Authorization code	Max. 12 digits		
2	System Authorization code	001~360		
2-1	System Authorization code	Max. 12 digits		
2-2	Set COS	Flex1~3		
	228 - Customer Call Routing Table			-
	CCR Table index	01 ~ 70		
1~14		Station	-	1: Station 2: Hunt Group
				3: System Speed

BTN	SUB-MENU		DEFAULT	REMARK
DIN		NANGE	DEI AUEI	
				<ul> <li>4: PABX Xfer</li> <li>5: VSF Announcement</li> <li>6: Call Disconnect</li> <li>Announcement</li> <li>7: Route to Networked Station</li> <li>8: Conference Room</li> <li>9: Internal Page</li> <li>10: External Page</li> </ul>
				<ul> <li>11: All Call Page</li> <li>12: Voice Mail (Station Group)</li> <li>13: Company Directory (USA Only)</li> <li>14: Record VM Greeting (USA Only)</li> </ul>
PGM:	229 - Executive/Secretary Pairs			
1	Executive/Secretary Pair	Station	36 entries	
2	CO Call to Secretary	ON/OFF	OFF	
3	Call to Exec if Secretary in DND	ON/OFF	OFF	
4	Executive grade	01 ~ 12	12	
5	ICM call to SEC	0: OFF 1: ON	OFF	
6	SEC auto answer	0: OFF 1: ON	OFF	
7	EXEC GROUP	00-50	00	
PGM:	231 - Flexible DID Conversion Tab	le		
1	DID Destination Name	11 characters	-	
2	Day Destination	1~15	-	1: station
3	Night Destination	1~15	-	2: group
4	Timed Ring Destination	1~15	-	3: System 4: PBX Xfer
5	Reroute Destination	1~15	-	<ul> <li>4: PBX XIEr</li> <li>5: VSF</li> <li>6: VSF &amp; Disconnect</li> <li>7: Networked Station</li> <li>8: Conference Room</li> <li>9: Int Page</li> <li>10: Ext Page</li> <li>10: Ext Page</li> <li>11: All Page</li> <li>12: VM</li> <li>13: ICLID Table</li> <li>14: Company Directory (USA Only)</li> <li>15: Record VM Greeting (USA Only)</li> </ul>
6	Use ICLID	ON/OFF	OFF	
7	Auto Ring Table	(00-16),16:N/A	N/A	
8	МОН	00-10	00	
9	Ring Tone	(00-12), 0:N/A	N/A	
PGM:	232 - System Speed Zone	1	1	
1	Speed Bin Range in Zone	2200~4999	2200~4999	
2	Station Range	100~239	100~239	
3	Toll Checking	1: ON, 0: OFF	ON	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
4	Authorization check	1: ON, 0: OFF	ON		
PGM	233 Auto Ring Mode Assignm	nent (Day/Night/Timed	RING) Table	·	
1	Monday Timer	0000~2359			
2	Tuesday Timer	0000~2359		7	
3	Wednesday	0000~2359		Assign Day, Night and Timed	
4	Thursday	0000~2359		start times Default 0900, 1800	
5	Friday	0000~2359		none	
6	Saturday	0000~2359			
7	Sunday	0000~2359			
PGM	: 234 - Voice Mail Dial Table				
1	VM dial codes 1	12 digits	P#	1: Prefix/2: Suffix/Any digits	
2	VM dial codes 2	12 digits	P##	1: Prefix/2: Suffix/Any digits	
3	VM dial codes 3	12 digits	P#*3P	1: Prefix/2: Suffix/Any digits	
4	VM dial codes 4	12 digits	P#*4P	1: Prefix/2: Suffix/Any digits	
5	VM dial codes 5	12 digits	P#*5P	1: Prefix/2: Suffix/Any digits	
6	VM dial codes 6	12 digits	P#*6P	1: Prefix/2: Suffix/Any digits	
7	VM dial codes 7	12 digits		1: Prefix/2: Suffix/Any digits	
8	VM dial codes 8	12 digits		1: Prefix/2: Suffix/Any digits	
9	VM dial codes 9	12 digits	****	1: Prefix/2: Suffix/Any digits	
PGM:	235 – MAC Registration Table				
1	Mac Address Information		-		
2	Max port of device	00~99	0		
3	Device ID	0~255	0 (N/A)		
PGM:	: 236 - Mobile Extension Table				
1	Program Authority	1: ON, 0: OFF	OFF		
2	Access Authority	0: Disable 1: Mobile EXT. 2: Fail over	Disable		
3	CO Group	01-20	01		
4	Telephone number				
5	Mobile extension CLI				
6	Hunt Call enable	1: ON, 0: OFF	OFF		
7	VSF Notify	1: ON, 0: OFF	OFF		
8	Notify Retry	1 to 9 Times	3 Times		
9	Retry Interval	1 to 3 minute	3 minute		
10	Notify by My CLI	0: OFF, 1: ON	OFF		
11	Call back	0: OFF, 1: ON	OFF		
12	Delay timer	000~255	0		
13	Announcement	0~70	0		
14	Suffix DID table	0: OFF, 1: ON	OFF		
PGM	: 250 –Hot Desk Attributes				
1	Number of Agents	000~140	000		
2	View Agent Range		N/A		
3	Auto Logout Timer	00~24	00	1 hours increments	
DOM	252 –CO Call Rerouting		•		
PGIVE					

553

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	Init CRR			
3	CRR attributes	000~169		
3-1	Compare CO group	01~20	01	
3-2	Receive digit	Max. 12 digits		
3-3	CO+TEL number	Max. 20 digits		
3-4	Туре			
PGM	: 270 –Digit conversion table			
1	Apply time	0: Unconditional 1: Follow DNT 2: Follow LCR	Unconditional	
•				
2	Dialed digit	Max. 24 digits		
2	Dialed digit Unconditionally changed	Max. 24 digits Max. 24 digits		
	Unconditionally changed			
3	Unconditionally changed	Max. 24 digits	0	

## Table C-9 TABLES DATA

#### Table C-10 NETWORKING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	320 - Network Basic Attributes			
1	Networking Enable	1: ON, 0: OFF	OFF	
2	Retry Count	00~99	00	
3	CNIP Enable	1: ON, 0: OFF	ON	
4	CONP Enable	1: ON, 0: OFF	OFF	
5	Signal Method	1: FAC, 0: UUS	FAC	
6	CAS Enable	1: ON, 0: OFF	OFF	(Not used)
7	VPN Enable	1: ON, 0: OFF	OFF	(Not used)
8	CC Retain Mode	1: ON, 0: OFF	OFF	(Not used)
PGM	: 321 - Network Supplementary Attri	ibutes		
1	Transfer Mode	1: REROUTE 0: JOIN	REROUTE	
2	TCP Port for BLF	0000~9999	9500	
3	UDP Port for BLF	0000~9999	9501	
4	BLF Manager IP Address	IP address	0.0.0.0	(#: Skip)
5	Duration of BLF STS	01~99	10	100 ms increments
6	Multicast IP Address	IP address	0.0.0.0	(#: Skip)
7	Transfer Fault Recall Timer	001~300	10	1 second increments
8	VoIP Call Reroute	00~20	00	
9	BLF service usage	1: ON, 0: OFF	ON	
PGM	: 322 - Network CO Line Attributes			
1	Network CO Line Group	00~24	00	CO group programming for Networking call between systems.
2	Net CO Line Type	0: PSTN 1: NET	PSTN	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM	: 324 - Network Numbering Plan T	able		
1	System Use	0: NET 1: PSTN	NET	
2	Numbering Plan Code	16 digits	-	
3	Numbering Plan Net CO Group	00~24		
4	CPN Information	Flex 1~2	-	
5	Alternate Speed Bin	2000~4999	-	
6	Destination MPB IP Address	IP address	0.0.0.0	(Skip: #)
7	Destination MPB Port No	0000-9999	5588	
8	Digit Repeat	0: NO, 1: YES	NO	
9	Net PSTN En-block	0: NO, 1: YES	NO	
10	CO ATD code CLI	1: ON, 0: OFF	OFF	
11	Firewall	1: ON, 0: OFF	OFF	
12	AUTHO CODE COS USE	0: NO, 1: YES	NO	
13	SMDR DIAL HIDDEN	0: NO, 1: YES	NO	
14	NET PSTN CLI	0: NET 1: PSTN	NET	
15	Site name	Max.12 characters		
16	Emergency reroute	00~10	00	
PGM	: 325 - Network Feature Code			
1	Net Feature Code	16 digits	-	
2	Net Feature Destination	1~6	-	1 : INT PAGE
				2 : EXT PAGE
				3 : ALL CALL PAGE
				4: DOOR OPEN
				5:Conference Room (1-9)
				6:Call park (01-19)

**Table C-10 NETWORKING DATA** 

# Table C-11 Zone Holiday Assignment

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
PGM:	PGM: 444 – Zone Holiday Assignment				
1	Ring Mode	0:DAY 1: NIGHT 2:TIMED 3: N/A	TIMED		
2	Vacation	12 digits	-		
3	Holiday	4 digits	-		

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	500 – Green Mode Activation			
1	Power Save Usage	0: Disable 1: Enable	Disable	
2	Power On/Off	0: OFF 1: ON	ON	
3	Power Save Mode	Flex 1~6	-	
4	Power Current State	Flex 1~6	-	
PGM:	501 – Green Mode Time Setting			
1	Power ON Time			
2	Power OFF Time			

#### **Table D-12 Green Mode Activation**

# Table C-13 INITIALIZATION

ITEM	DESCRIPTION	REMARK
PGM: 450 -	Initialization	
1	Flexible Numbering Plan	
2	Station Data	
3	CO Line Data	
4	System Data	
5	Station Group Data	
6	ISDN Data	
7	System Timer Data	
8	Toll Table Data	
9	LCR Table Data	
10	Other Tables	
11	Flexible Button Data	
12	Network	
13	All Data	
14	System Reset	
15	Unused	
16	Personal Group	
17	Default Password	

## Table C-14 PRINT-OUT DATABASE

ITEM	DESCRIPTION	REMARK
1	Flexible Numbering Plan	
2	IP Setting Plan	
3	Station Data	Enter station range
4	CO Line Data	Enter CO range
5	System Data	
6	Station Group Data	
7	ISDN Data	
8	System Timer Data	
9	Toll Table Data	
10	LCR Table Data	
11	Other Tables	

Table C-14	<b>PRINT-OUT</b>	DATABASE

ITEM	DESCRIPTION	REMARK
12	Nation Specific Data	
13	Flexible Button Data	Enter station range
14	All Data	
15	LCD Message	
16	QUIT Print Out	
17	String Length	10 or 20 character
18	Board Base Attributes	
19	Networking Table	
20	Hotel Data	
21	String Length	
22	Working LCD Print-out	

Table C-15 VIRTUA	AL DIP SWITCH
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BTN	SUB-MENU	RANGE	REMARK
PGM:	452 - Virtual Trace Dip Switch Acce	SS	
1	Call Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
2	VoIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
3	HTTP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
4	Multicast Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
5	CTI Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
6	Raw Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
7	MPMP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
8	CPU Redundancy Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
9	MISU/VMIU Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
10	DSP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
11	SIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
12	ISMDR Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
13	SIP MSG Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
14	FULL SIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
15	Hotel Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
16	SIP EXT Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)

BTN	SUB-MENU	RANGE	REMARK
17	DEBUG Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
18	IPATD Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
19	ISDN Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
20	SPI Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
21	DECT Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
22	HTTPXML Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
PGM:	453 - Virtual Dip Switch Access		
1	Device Polling	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
2	SMDI Setting	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
3	Multicast LED	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
4	Auto Negotiation	MANUAL/AUTO	Press Flex Button (Toggle: ON/OFF, LED lights if trace is Manual)
5	Full or Half duplex	FULL/HALF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is HALF)
6	100 M or 10 M Tx/Rx bps	100/10	Press Flex Button (Toggle: ON/OFF, LED lights if trace is 10 M bps)

Table	C-15	VIRTUAL	DIP	SWITCH
Iable	0-13	VIILUAL		34411011

# Table C-16 DECT DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
PGM:	PGM: 491 - DECT ATTRIBUTES				
1	AUTO CALL RLS	ON/OFF	OFF		
2	BASE FAULT ALARM	Enable/Disable	Disable		
3	CHAIN FAULT ALARM	Enable/Disable	Disable		

BTN	SUB-MENU	RANGE	REMARK	
PGM∙	400 - IP Phone (H/S) Receive Gain (	Control	L	
-	IPKT Rx Gain	Flex 1-8		
PGM	: 401 - IP Phone (H/F) Receive Gain	Control		
-	IPKT Rx Gain	Flex 1-8		
PGM	: 402 - SLT Receive Gain Control		I	
-	SLT Rx Gain	Flex 1-8		
PGM	: 403 - ACO Receive Gain Control		I	
	ACO Rx Gain	Flex 1-8		
PCM	: 404 - DCO Receive Gain Control			
	DCO Rx Gain	Flex 1-8		
	: <b>422 - Tone Generation Gain</b> Tone Generation Gain	01-37		
			1	
PGM:	ACNR Tone Cadence	1-5		
		1-0		
	: 424 - ACNR Ring Frequency ACNR-Ring Frequency	1-5		
		1-5		
	: 425 - SLT Tone Cadence	1.0		
	SLT Tone Cadence	1-2		
	: 426 - DTMF PCM Tone Generation		Ι	
	DTMF PCM Tone Generation Gain	1-5		
	427 - DTMF RTP Tone Generation	I		
	DTMF RTP Tone Generation Gain	1-4		
	429 - LCOB Configuration	I	1	
	LCOB Configuration Type	1-5		
	480 - WIT Phone Rx Gain Control	1	I	
	WIT Rx Gain	Flex 1-14		
PGM	481 - WIT Phone Tx Gain Control			
	WIT Tx Gain	Flex 1-14		
PGM	496 - DKT Phone (H/S) Rx Gain Co	ntrol		
	DKT(H/S) Rx Gain	Flex 1-13		
PGM	: 497 - DKT Phone (H/S) Tx Gain Co	ntrol		
	DKT(H/S) Tx Gain	Flex 1-13		
PGM	: 498 - DKT Phone (H/F) Rx Gain Co	ntrol		
	DKT(H/F) Rx Gain	Flex 1-13		
PGM: 499 - DKT Phone (H/F) Tx Gain Control				
	DKT(H/F) Tx Gain	Flex 1-13		

## **Table C-17 NATION SPECIFIC**

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