Aria ip-60

Admin Programming Manual
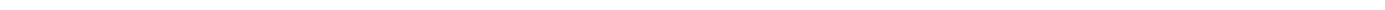
Revision History

Issue	Date	Description
1.0	*2006.10*	*Preliminary release for ip-60-60*
1.1	*2007.12*	*Add version 3.8 features for ip-60-60*
1.2	*2008.03*	*Update features related to PRHB8*

2.0	*2010.07*	*Update and reformat through-out*
		     Added T1
		     Added Enhanced Voice Services

Table of Contents

1 MANUAL INTRODUCTION

This manual provides detailed information related to configuring the system database through Admin Programming. Program parameter descriptions in Section 3 are appropriate for both a Digit Key Telephone and the ip-60 PC Admin. The step-by-step procedures in this manual are given for DKT programming. For PC Admin procedures refer to the PC Admin User manual.

This manual is divided in to five (5) sections:

> Manual Introduction
> Admin Programming Overview
> Admin Programming Procedures
> Admin Programming Index
> User and Attendant Station Programming Charts

1.1 Section Descriptions

1.1.1 Manual Introduction

Section 1, this section, is an introduction to the manual. It provides a description and purpose for each of the sections of the manual.

1.1.2 Admin Programming Overview

Section 2 is an overview of Admin programming, how the various Programs (PGMs) are grouped and general information on using a DKT for access and modifying parameters. It includes a brief discussion of the function of the DKT buttons while in the Programming mode.

1.1.3 Admin Programming Procedures

Section 3 provides detailed procedures to access each of the Programs using a DKT. It includes detailed but brief descriptions of each PGM parameter as well as the North American default values and range of values that a parameter can accept.

1.1.4 Admin Reference Charts

Section 4 is an index for quick reference to the various PGMs available in the ip-60-60. Also, in this section are the codes for the eight (8) default Flexible System Numbering Plans.

1.1.5 Quick Reference Charts

Section 5 provides reference charts for use in station programming for the user and Attendant. In addition, reference charts are provided for the Flexible button assignment.

2 ADMIN PROGRAMMING OVERVIEW

Admin programming is the process of configuring the ip-60 database to address the needs and concerns of the end-user. ip-60-60 is an extremely flexible system permitting a high level of customization. Admin programming is accomplished from an assigned Digital Key Telephone (DKT), default Station 100, or using the more graphical user interface of the ip-60-60 PC Admin.

This manual provides descriptions for each of the programmable parameters of the ip-60-60 including the default and valid range of values for the parameter. In addition, this manual provides detailed step-by-step instructions for modifying parameters using a DKT. For instructions using ip-60 PC Admin, please see the PC Admin User Manual.

2.1 Program Groups

Various related parameters are divided into groups called Programs (PGMs). Each PGM group is further grouped into sections of related PGMs, for example; parameters related to LCR are all located in the LCR PGM groups, and timers for system operation are located in the System Timers PGMs.

Each PGM is identified with a 3-digit code dialed from the DKT dial pad to access the PGM parameters. The Admin Program List is shown in section 4.1, Admin Program Code Index. Note that PGMs 500 and 501 are only accessible using the ip-60 PC Admin.

2.2 Digital Key Telephone Admin

For Admin Programming from a DKT, an LDP-6230D connected to a station port allowed Admin access, default station 100, must be used. While in the Program Mode, the DKT acts as a programming terminal and cannot be used as a phone. In the Program Mode, the LCD displays menu items and parameters with assigned values. The dial pad is used to enter a PGM group and, generally, Flexible buttons select individual parameters from the group. The dial pad is then used to input a desired value for the parameter. Other buttons and softkeys on the DKT provide special Program functions.

2.2.1 Entering the PGM mode

To enter the Program mode from a DKT,

1. Press the **[TRANS/PGM]** button.
2. Dial '*' and '#'. If assigned, the display requests entry of the Admin Password.
3. Enter the Admin Password.

At this point, the DKT is in the Program mode and can access the various PGMs and parameters. Specific instructions for each parameter are provided in the Admin Procedures given in section 3.

To access a specific PGM while in the Program mode,

1. Press the **[TRANS/PGM]** button
2. Dial the 3-digit PGM code.

2.2.2   Navigation and Buttons

While in the Program mode, the [Volume Up/Down] can be used for navigation through the PGM sections. Other buttons on the DKT also provide special functions during Admin Programming. The BACK softkey or [CONF] button, if assigned, move back one-step in the process. The DELETE softkey or the [SPEED] button deletes the current entry. The SAVE softkey or the **[Hold/Save]** button store an entry to the system database. A value must be saved with the SAVE softkey or **[Hold/Save]** button prior to moving to another parameter.

2.2.3   Entering and Saving Data

In most cases, after selecting a PGM, a specific parameter is selected using a Flexible button and a value entered with the dial pad. When a value is saved, the system will verify the value is in range and does not conflict with other parameter settings. If the data value is valid,

confirmation tone is received. If the value is not valid, error tone is received and a valid value can be entered without further action.

In some cases, after selecting a PGM, the Flexible buttons are used to toggle a parameter value. In this case, the value is not checked since the Flexible button only toggles the value 'On' or 'Off'.

In certain PGMs e.g., a Station, CO line PGM group, the desired station or CO line range is required. Once the parameter is selected, the LCD will indicate the parameter value for the first station or CO line in the range. Entering a single station or CO line number for both the upper and lower end of the range will change the parameter for the station or CO line number entered.

2.2.4   Resetting the System

When certain parameter values are changed, the system must be reset to reorganize memory. Parameters that require a reset after being changed include:

PGM 100 - Location,

PGM 101 – Board Assignment

PGM 103 – Logical Slot Assignment

PGM 108 – IP Settings

PGM 380 – VOIB Slot Assignment, RSG/IP Phone

PGM 381 – RSG/IP Phone Ports Assignment

When a reset is required, PGM 450 Flexible button 15 may be used to reset the system without the need to turn power 'Off' and 'On' or opening the KSU to access the reset button.

To reset the system while in the Program mode,

1. Press the **[TRANS/PGM]** button.
2. Dial 450.
3. Press Flexible button 15.
4. Press the SAVE softkey, the system will reset.

2.2.5   Initial Set-up

The initial set-up of the ip-60, as discussed in the Hardware Description and Installation Manual, requires proper configuration of the Basic Set-up Programs. This group of programs includes PGM 100 to PGM 109. PGM 100 defines the Nation Code, which is the Country Code used for international dialing, to adjust various gain and other characteristics to match the regulatory requirements of the country or region as well as establish a default database. If the Nation Code must be changed, the system database must be set to default to assure all parameters are changed to match the new Nation Code. As this will return all parameters to default values, the Nation code should be changed as discussed in section 3.1.1 prior to any other programming. During the system default routine, the system automatically detects any installed expansion and option boards. If an expansion or option board is installed after database initialization, the board must be assigned in the system database and logically assigned to a 'slot order'.

3 ADMIN PROGRAMMING PROCEDURES

3.1 Basic Set-up (PGM 100 – 109)

3.1.1 Location (PGM 100)

PGM 100 defines the country or region for the installation and a Site Name.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 100.
3. Select the desired Flexible button from the chart below.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

If the Nation Code is changed, it is necessary to set the database to the default values. To default the system,

1. Remove the Basic KSU cover.
2. Set DIP-switch 1-position 4 to the 'On' position.
3. Press the Reset button.
4. After the system has reset, set DIP-switch 1-position 4 to the 'Off' position.
5. Re-install the Basic KSU cover.

PGM 100	Flex Btn	Description	Default	Values
Nation Code	1	This parameter defines the location of the system using the international dialing Country Code where the system is located.	01 (N.A.)	See the Country Code Chart
Site Name	2	This parameter assigns a Name, up to 23 characters, for the system.	Not assigned	See the Dial Pad Character Map

Country Code Chart

Nation	Code	Nation	Code	Nation	Code		
America	1	Argentina	54	Australia	61	Bahrain	973
Bangladesh	880	Belgium	32	Bolivia	591	Brazil	55
Brunei	673	Burma	95	Cameroon	237	China	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	Luxembourg	352	Malaysia	60
Malta	356	Mexico	52	Monaco	377	Morocco	212
Netherlands	31	New Zealand	64	Nigeria	234	Norway	47
Oman	968	Pakistan	92	Panama	507	P.N.G.	675
Paraguay	595	Peru	51	Philippines	63	Portugal	351

Nation	Code	Nation	Code	Nation	Code		
Qatar	974	Saudi Arabia	966	Senegal	221	Singapore	65
South Africa	27	Spain	34	Sri Lanka	94	Swaziland	268
Sweden	46	Switzerland	41	TELKOM	*27	TELSTRA	*61
Thailand	66	Tunisia	216	Turkey	90	U.A.E.	971
United Kingdom	44	Uruguay	598	Venezuela	58	Vietnam	84
Y.A.R.	967						

Dial Pad Character Map

1 – 10	**2** – 20	**3** – 30
'.' – 13	A – 21	D – 31
Q – 11	B – 22	E – 32
Z – 12	C – 23	F – 33
4 – 40	**5** – 50	**6** – 60
G – 41	J – 51	M – 61
H – 42	K – 52	N – 62
I – 43	L – 53	O – 63
7 – 70	**8** – 80	**9** – 90
P – 71	T – 81	W – 91
Q – 72	U – 82	X – 92
R – 73	V – 83	Y – 93
S – 74		Z – 94
✳ - ✳0	**0** – 00	#
Blank - ✳1		
':' - ✳2		
';' - ✳3		

3.1.2   Board Assignment (PGM 101)

PGM 101 configures the type of board installed in a slot. This program is only required when a board is installed in an operational system.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 101.

3. Dial desired slot number, see Slot Number chart below.

4. Select Flexible button 1.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 101	Flex Btn	Description	Default	Values
Board Id	1	This parameter defines the type or function of the board installed. The Main and Expansion boards may actually have two sub-boards, a station, and CO board, each with a different slot number.		See Board Id Chart below
Devices for Board	2	This parameter displays the number of ports or channels available with the board and is not adjustable.		

Board Identification Code

Board Type	Station ID. Code	CO Line ID Code	Misc. ID Code
CHB-308	17, DSIB8	33	
CSB316	13, SLIB16	33	
CKB316*	22, DTIB16	33	
E1HB8	17, DSIB8	40	

Board Type	Station ID. Code	CO Line ID Code	Misc. ID Code
T1/PRI			
PRIH8	17, DSIB8	31	
T1HB8	17, DSIB8	50	
SLIB8	14		
VMIU			64
AAFU			65
VOIB			41

* For use only as Expansion board in second cabinet (EKSU)

Slot Number Chart

Slot	Slot Location	Type of Board Supported
01	BKSU Main board station slot	Hybrid
02	BKSU Expansion board station slot	Hybrid,SLIB8,SLIB16
03	EKSU w/EMU Main board station slot	Hybrid
	EKSU w/EMU2 Main board station slot	DTIB16
04	EKSU w/EMU Expansion board station slot	Hybrid,SLIB8,SLIB16
	EKSU w/EMU2 Expansion board station slot	Hybrid, DTIB16
05	BKSU Main board CO line slot	Analog CO
06	BKSU Expansion board CO line slot	Analog CO, E1, T1 or PRI
07	EKSU Main board CO line slot	Analog CO
08	EKSU Expansion board CO line slot	Analog CO
09	VMIB or AAFB	VMIB or AAFU
10	VOIB	VOIB

3.1.3   Logical Slot Assignment (PGM 103)

PGM 103 defines the logical order and therefore logical port numbers associated with a slot. To support IP Phones assign slot '99' (Virtual VMIB) as a Station board in the desired logical order. The system will allocate station numbers to the system using the number of IP Phones entered in PGM 381.

Procedure:

1.   Press the **[TRANS/PGM]** button.
2.   Dial 103.
3.   Select the desired Flexible button.
4.   Enter the appropriate slot number.
5.   Press the **[Hold/Save]** button.

PGM 103	Flex Btn	Description	Default	Values
CO line Board	1	This parameter defines the logical order of the CO line slots.		05 ~ 08
Station Board	2	This parameter defines the logical order of the Station slots		01 ~ 04 & 99
Voice Mail Interface Board	3	This parameter defines the logical slot number for the Voice Mail/AA boards		09

3.1.4   Numbering Plan Type (PGM 104)

PGM 104 defines the basic Numbering Plan for the system. Eight choices are available as shown in section 4.2.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 104.
3. Enter the appropriate value.
4. Press the **[Hold/Save]** button.

PGM 104	Flex Btn	Description	Default	Values
System Numbering Plan		This parameter defines the basic Numbering Plan for the system. One of eight basic plans can be used as shown in section 4.2.	1	1 ~ 8

3.1.5   Flexible Station Numbering Plan (PGM 105)

PGM 105 assigns station intercom numbers to each station port. Two methods are available, Individual Station assignment or Station Range assignment. When changing to a two (2) digit Station Numbering Plan, delete the existing numbering (press the [Speed] button) then enter the new two (2) digit numbering. Also, assure that the new Station Numbering Plan does not conflict with other Numbering Plan codes.

Individual Station assignment Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 105.
3. The system displays the first 4 station ports on the first line of the LCD and the station number below the port
4. Use the Volume buttons to display the station port to be assigned.
5. Select the desired Flexible button, 1 ~ 4, for the port to be assigned.
6. Enter the appropriate value.
7. Press the **[Hold/Save]** button.

Station Range assignment Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 105.
3. The system displays the first 4 station ports on the first line of the LCD and the station number below the port.
4. Use the Volume buttons to display the first station port to be assigned.
5. Enter the new station range (2 to 4 digits) for the start and ending station numbers. The range may extend past the displayed ports and the system will assign the range to the ports consecutively until the entered range is exhausted.
6. Press the **[Hold/Save]** button.

PGM 105	Flex Btn	Description	Default	Values
Station Numbering Plan		This parameter assigns station numbers for the system. Station numbers can be assigned individually or using the range method.	100 ~ 147	Non-conflicting 2 to 4 digits, 0 ~ 9

3.1.6   Flexible Numbering Plan A (PGM 106)

PGM 106 is one of three (3) PGMs that assign dial codes for access to features and functions of the ip-60-60. Also, see PGMs 107 and 109.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 106.

3. Select the desired Flexible button from the chart below.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 106	Flex Btn	Description	Default	Values
Station Group Pilot Range	*1*		*620-629*	*Non-conflicting 2 to 4 digits, 0 ~ 9, '*' and '#'*
Internal Page Zone Range	*2*		*501-510*	
Internal All Call Page	*3*		*543*	
Meet Me Page	*4*		*544*	
External Page Zone	*5*		*545*	
All Call Page Internal/External	*6*		*549*	
SMDR Account Code	*7*		*550*	
Flash Command	*8*		*551*	

PGM 106	Flex Btn	Description	Default	Values
to CO Line				
SLT Last Number Redial (LNR)	9		552	
Do-Not-Disturb	10		553	
Call Forward	11		554	
Speed Dial Program	12		555	
MSG Wait/Call-Back Enable	13		556	
MSG Wait/Call Back Answer	14		557	
Speed Dial Access	15		558	
Cancel DND/CFW/Pre-Selected MSG	16		559	
SLT Hold	17		560	
Virtual Mailbox	18		200-249	
Reserved	19			
SLT Program Mode Select	20		563	
ACD Reroute	21		564	

3.1.7 Flexible Numbering Plan B (PGM 107)

PGM 107 is one of three (3) PGMs that assign dial codes for access to features and functions of the ip-60-60. Also, see PGMs 106 and 109.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 107.
3. Select the desired Flexible button from the chart below.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 107	Flex Btn	Description	Default	Values
Alarm Reset	1		565	Non-conflicting 2 to 4 digits, 0 ~ 9, '*' and '#'
Group Call Pickup	2		566	
UCD Group DND	3		568	
Night Answer	4		569	
Call Park Location Range	5		601-610	
Direct Call Pick-Up	6		7	
Access CO Line Group	7		801-824 (8+ CO Group Line Number)	
Access Individual CO Line	8		88 (88 + CO line Number)	

PGM 107	Flex Btn	Description	Default	Values
Reserved	9			
Access Held CO Line Group	10		8*	
Access Held Individual CO Line	11		8# (8# + CO Line Number)	
Access to CO Line in the 1st Available CO Line Group	12		9	
Attendant Call	13		0	
Door Open – 1	14		#*1	
Door Open – 2	15		#*2	
Door Open – 3	16		#*3	
Door Open – 4	17		#*4	
VM MSG Wait Enable	18		*8	
VM MSG Wait Cancel	19		*9	

3.1.8　System IP Setup (PGM 108)

PGM 108 configures the IP address parameters for the system LAN port.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 108.
3. Select the desired Flexible button from the chart below.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 108	Flex Btn	Description	Default	Values
IP Name	1	This parameter assigns a Name, up to 15 characters, associated with the system's LAN port.	Not assigned	15 characters
ip-60 Server IP address	2	This parameter defines the IP address for the system's LAN port. This address is assigned to allow LAN access to the system database and maintenance functions.	192.168.1.1	IPv4 address
CLI IP address	3	not used		
Gateway Address	4	This parameter defines the IP address of the gateway serving the system LAN port.	0.0.0.0	IPv4 address
Subnet Mask	5	This parameter defines the Subnet mask for the system LAN interface.	255.255.255.0	IPv4 Subnet mask
Point-to Point Protocol	6	This parameter enables use of Point to Point protocol with the optional Modem unit or an ISDN PRI Line.	0 (Off)	0 = Off 1 = On

Dial Pad Character Map

1 – 10	**2** – 20	**3** – 30
'.' – 13	A – 21	D – 31

Q – 11 Z – 12	B – 22 C – 23	E – 32 F – 33
4 – 40 G – 41 H – 42 I – 43	**5** – 50 J – 51 K – 52 L – 53	**6** – 60 M – 61 N – 62 O – 63
7 – 70 P – 71 Q – 72 R – 73 S – 74	**8** – 80 T – 81 U – 82 V – 83	**9** – 90 W – 91 X – 92 Y – 93 Z – 94
∗ - ∗0 Blank - ∗1 ':' - ∗2 ',' - ∗3	**0** – 00	**#**

3.1.9   Flexible Numbering Plan C (PGM 109)

PGM 109 is one of three (3) PGMs that assign dial codes for access to features and functions of the ip-60-60. Also, see PGMs 106 and 107.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 109.

3.   Select the desired Flexible button from the chart below.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 109	Flex Btn	Description	Default	Values
Reserved	*1*			
Reserved	*2*			
Reserved	*3*			
Conference Room	*4*		*57*	*Non-conflicting 2 to 4 digits, 0 ~ 9, '*' and '#'*
SLT Conference Page Join	*5*		*58*	
Extend Unsupervised Conference	*6*		*##*	
Remote Mobile Extension Control	*7*		*#1*	

3.2   Station (*PGM 110 – 131*)

3.2.1   Station Id, Name & DSS/DLS Map (PGM 110)

PGM 110 defines the type of terminal employed for a range of stations. In addition, where a station has an associated DSS Console, one of three maps or templates establishes the default configuration of the Flexible buttons.

Procedure:

1.   Press the **[TRANS/PGM]** button.
2.   Dial 110.
3.   Enter the appropriate Station Range.
4.   Select the desired Flexible button from the chart below.
5.   Enter the appropriate value.
6.   Press the **[Hold/Save]** button.

PGM 110	Flex Btn	Description	Default	Values
Station ID	*1*	*This parameter defines the type of terminal attached and must be assigned if other than default (DKTU o SLT).*	*DKTU or SLT*	*01 = DKT* *05 = ICM Box* *07 = SLT (DTMF)* *08 = SLT (PULSE)* *12 = SLT–CID (FSK)* *13 = SLT–CID (DTMF)* *14 = IP Phone*
Station Name	*PC*	*This parameter assigns the display name for the station; the station LCD, while idle,*		*12 characters*

PGM 110	Flex Btn	Description	Default	Values
	admin only	displays the Station Name and internal parties may receive the Station Name in the LCD.		
DSS/DLS	2	This parameter assigns the Flexible button map or template employed for the DSS Console associated with the station. Individual Flexible button functions can be defined in PGM 115.	02	02 = DSS MAP 1 03 = DSS MAP 2 04 = DSS MAP 3
Company Directory, First Name	3	This parameter assigns the first name of the user associated with the station for use with the Company Directory. Use two digits for each character as shown in the Dial Pad Character Chart below.	Not Assigned	12 Characters
Company Directory, Last Name	4	This parameter assigns the last name of the user associated with the station for use with the Company Directory. Use two digits for each character as shown in the Dial Pad Character Chart below.	Not Assigned	12 Characters

Flexible Button Configurations for DSS/DLS Map

Map	Button Configuration	
1	Buttons 1 to 12	
	Button 1: Intrusion	Button 2: All Call Page
	Button 3: Call Park 01	Button 4: Station Group 1
	Button 5: Camp-On	Button 6: Internal All Call Page
	Button 7: Call Park 02	Button 8: Station Group 2
	Button 9: Group Call Pickup Button	10: External All Call Page
	Button 11: Call Park 03	Button 12: Station Group 3
	Buttons 13 to 48: Station Ports 100-135	
2	Station Ports 136-147	
3	Blank	

Dial Pad Character Map

1 – 10	**2** – 20	**3** – 30
'.' – 13	A – 21	D – 31
Q – 11	B – 22	E – 32
Z – 12	C – 23	F – 33
4 – 40	**5** – 50	**6** – 60
G – 41	J – 51	M – 61
H – 42	K – 52	N – 62
I – 43	L – 53	O – 63
7 – 70	**8** – 80	**9** – 90
P – 71	T – 81	W – 91
Q – 72	U – 82	X – 92
R – 73	V – 83	Y – 93
S – 74		Z – 94
∗ - ∗0	**0** – 00	**#**
Blank - ∗1		
':' - ∗2		
';' - ∗3		

3.2.2   Station Attributes I (PGM 111)

PGM 111 is one of four (4) program groups that assign general attributes to the station range. Also, see PGMs 112, 113, and 114.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 111.

3.   Enter the appropriate Station Range.

4.   Select the desired Flexible button from the chart below.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 111	Flex Btn	Description	Default	Values
Auto Speaker Select	1	When enabled (On), selecting a CO line, DSS, or other feature button will also activate the speakerphone.	1 (On)	0 = Off 1 = On
Call Forward	2	When enabled (On), the station can activate Call Forward. See Flexible button 18 to enable Off-Net Call Forward.	1 (On)	0 = Off 1 = On
DND	3	When enabled, the station can activate DND (Do-Not-Disturb).	0 (Off)	0 = Off 1 = On
Data Line Security	4	When enabled (On), if the station is busy, tones are not sent to the station and override and camp-on from other stations are prohibited.	0 (Off)	0 = Off 1 = On
Howling Tone (SLT)	5	When enabled (On), if the station remains off-hook, taking no action for the ICM Dial tone timer (PGM 181, Flexible button 7), the System sends error followed by howler (loud error) tone.	1 (On)	0 = Off 1 = On
Intercom Box Signaling	6	When enabled (On), the station will receive calls from the Door Phone (ICM box).	0 (Off)	0 = Off 1 = On

PGM 111	Flex Btn	Description	Default	Values
No Touch Answer	7	When enabled (On), transferred CO calls are automatically connected to the station if in the HF or Privacy Intercom Signal Mode.	0 (Off)	0 = Off 1 = On
Page Access	8	When enabled (On), the station is allowed access to the System paging facilities to send page announcements.	0 (Off)	0 = Off 1 = On

Ring Type	9	This parameter defines the ring tone the station will receive for incoming calls.
		        Ring type 1 – 1000 & 1020 Hz
		        Ring type 2 – 890 & 910 Hz
		        Ring type 3 – 1260 & 1280 Hz
		        Ring type 4 - 800 & 820 Hz
			1 (Ring Type 1)	1 = Ring Type 1
				2 = Ring Type 2
				3 = Ring Type 3
				4 = Ring Type 4

Speaker Ring	10	This parameter determines which device will receive ring, the speaker, headset, or both.	1 (Speaker)	1 = Speaker (S) 2 = Headset (H) 3 = Both (B)
Speakerphone	11	When enabled (On), the station speakerphone will be enabled and available for use.	1 (On)	0 = Off 1 = On
VMIB Slot	12	This parameter identifies the slot of the VMIB for use by the station. Not available, the ip-60-60 has only one available VMIB slot.	N/A	Only one available
Intercom Tenancy Group	13	This parameter assigns the Intercom Tenancy Group for the station. A '0' value is no group assignment.	1 (Grp 1)	1 - 5
Error Tone for Tel Answering Device (TAD)	14	When enabled (On), busy tone is sent to the SLT port in place of error tone. This allows a TAD to recognize disconnect supervision.	0 (Off)	0 = Off 1 = On

SLT Flash Drop	15	This parameter determines the treatment of active calls when the user momentarily activates the hook-switch (Flash).
		        0: Disabled, the active call is placed on hold and the user receives dial tone,
		        recall is provided if the user hangs up.
			0 (Disable)	0 = Disable
				1 = Flash Drop
				2 = Flash ignore
				3 = Hold Release

PGM 111	Flex Btn	Description	Default	Values
		1: Flash Drop, the active call is dropped 2: Flash ignore, the flash is ignored, no action is taken 3: Hold Release, the active call is placed on hold and the user receives dial tone, the held call is disconnected if the user hangs up		
Loop LCR Account Code	16	If this value is set to On, the station user must enter an Account Code to use Loop LCR.	0 (Off)	0 = Off 1 = On
VMIB Message Type	17	This parameter determines the order of Voice Mail message playback. 0 = LIFO, Last-in, First-out 1 = FIFO, First-in, First-out	1 (FIFO)	0 = LIFO 1 = FIFO
Off-Net Call Forward	18	When enabled (On), the station is permitted to activate Off-Net Call Forward. The user can forward calls over a CO line. See PGM 112, Flexible button 12 to define the type of calls that will forward.	1 (Disable)	0 = Enable 1 = Disable
Forced Hands Free	19	When enabled (On), the station can change the Intercom Signal mode of the called station from Tone to Handsfree.	1 (On)	0 = Off 1 = On
Reserved	20			
Reserved	21			
Caller Voice Over	22	When this parameter is On, the station can place calls to other stations using Voice Over. The receiving station must be enabled to receive Voice Over, PGM 113 Flexible button 6.	0 (Off)	0 = Off 1 = On
SIP User ID Table Index	23	This parameter determines the caller id for a station when employing SIP for a call. When using SIP, the caller id is based on the CLIP/COLP (PGM 143 Flexible button 1 and 2) or the User ID defined from the SIP User ID Table index (PGM 501) entered here.	00	00-16
Redial DTMF	24	When enabled (On), the station receives DTMF tones during Redial.	1 (On)	0 = Off 1 = On

3.2.3   Station Attributes II (PGM 112)

PGM 112 is one of four (4) program groups that assign general attributes to the station range. Also, see PGMs 111, 113, and 114.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 112.

3.   Enter the appropriate Station Range.

4.   Select the desired Flexible button from the chart below.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 112	Flex Btn	Description	Default	Values
CO Warning Tone	1	When enabled (On), the station user will receive a warning tone indicating the call duration exceeds the CO Warning Tone time (PGM 180, Flexible button 22). The tone is repeated at intervals of the CO Warning tone time.	0 (Off)	0 = Off 1 = On
Automatic Hold	2	When enabled (On), pressing a CO line button while on a CO line call places the active CO line on hold and accesses the selected CO line.	1 (On) for Atd 0 (Off) for others	0 = Off 1 = On
CO Call Time Restriction	3	If this parameter is enabled (On), an outgoing CO line call will disconnect when the Call Cut -Off Timer (PGM113, Flexible button 12) expires.	0 (Off)	0 = Off 1 = On
Individual CO Line Access	4	If enabled, the station user can access a specific CO line by dialing the individual CO access code. See also PGM 107, Flexible button 8.	1 (Enable)	0 = Disable 1 = Enable
CO Line Queuing	5	When enabled (On), a station user can queue for a CO line if the user receives busy tone when attempting to access the CO line.	1 (Enable)	0 = Disable 1 = Enable
CO PGM	6	If enabled (On), the station user can configure Flexible buttons to access a CO line or CO line Group.	0 (Disable)	0 = Disable 1 = Enable

PGM 112	Flex Btn	Description	Default	Values
Priority Line Answer (PLA)	7	When enabled (On), lifting the handset or pressing the 'On/Off' button answers an incoming call. Calls are answered in the priority defined in PGM 173.	1 (Enable)	0 = Disable 1 = Enable
Prepaid Call	8	When enabled (On), the station will be subject to the Prepaid Call feature. If the station exhausts the prepaid allocation, the station will be unable to place calls on a CO line. If the allocated funds are exhausted during a call, warning tone is provided and the call is terminated after the CO Call Drop timer (PGM 180, Flexible button 16.	0 (Off)	0 = Off 1 = On
Speed Dial Access	9	When enabled, the station can place calls employing System Speed Dial numbers.	1 (Enable)	0 = Disable 1 = Enable
Two-way Record	10	When enabled (On,) the station user can record conversations on incoming or outgoing calls.	0 (Off)	0 = Off 1 = On
Fax Mode	11	When enabled (On), CO line calls to an SLT port will ring the port once to notify a FAX machine of an incoming call. In addition, calls to the port are not subject to recall and tones such as Camp-on are not sent to the port.	0 (Off)	0 = Off 1 = On
Off-net Call Mode	12	When allowed Off Net Forward (PGM 111, Flexible button 18), this parameter determines the type of calls, (External CO line calls or All for both external CO line and Intercom calls) the station user can forward Off Net.	1 (Ext)	0 = All (ICM & CO) 1 = External CO line
UCD Group Service	13	When enabled (On), if the station is a member of a UCD group and is busy, DISA and DID calls will route to the group and follow the assigned group attributes.	0 (Off)	0 = Off 1 = On
Ring Group Service	14	When enabled (On), if the station is a member of a Ring group and is busy, DISA and DID calls will route to the group and follow the assigned group attributes.	0 (Off)	0 = Off 1 = On
Stop Camp-on Tone	15	If this parameter is enabled, Camp-on Tone to the station is disabled.	0 (Disable)	0 = Disable 1 = Enable
Line Length	16	This parameter distinguishes the line length when the distance between the station and the system varies significantly. Intended for SAF only	1 (Long)	0 = Short 1 = Long 2 = Far

PGM 112	Flex Btn	Description	Default	Values
MSG Scroll Speed	17	For Korea only, this parameter defines the speed at which SMS and broadcast notices scroll across the LCD of the station.	0 (Fast)	0 to 7, 0 = fastest and 7 = slowest
Block Back Call	18	When enabled (On), if an SLT, busy on a CO line call, hook-flashes and places another CO line call, the system will automatically terminate the original CO line call. This disables Broker Call and assures the SLT user cannot establish an Unsupervised Conference.	0 (Off)	0 = Off 1 = On
Incoming call Time Restriction	19	When enabled (On) the duration of an incoming CO line call is limited to the CO Call Restriction Time (PGM 181, Flexible button 17), the call will disconnect when the timer expires.	0 (Off)	0 = Off 1 = On
Forced Station Account Code	20	If this parameter is enabled 'On', the station user must enter an Authorization code to place an outgoing CO call.	0 (Off)	0 = Off 1 = On
Reserved	21			
Door Open	22	If this parameter is enabled, the station can activate a Door Open contact with the Door Open code. Contacts are defined in PGM 168.	0 (Disable)	0 = Disable 1 = Enable
Dummy Station	23	If this parameter is 'On', the station will provide Hot Desk service; any agent can login and employ the station normally.	0 (Off)	0 = Off 1 = On
Emergency Supervisor	24	If this parameter is 'On', the station is allowed to intrude on other busy stations and force a busy CO line to idle, disconnecting any active call.	0 (Off)	0 = Off 1 = On

3.2.4   Station Attributes III (PGM 113)

PGM 113 is one of four (4) program groups that assign general attributes to the station range. Also, see PGMs 111, 112, and 114.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 113.

3.   Enter the appropriate Station Range.

4.   Select the desired Flexible button from the chart below.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 113	Flex Btn	Description	Default	Values
Admin access (DKTU Only)	1	When enabled, the station is permitted access to System Admin. The station must be a DKTU and a 24-button phone is recommended.	1 (Enable at Atd) 0 (Disable at other stations	0 = Disable 1 = Enable
VMIB Access	2	When enabled, the station user can access the VMIB and the user is assigned a VMIB Voice Mailbox.	1 (Enable)	0 = Disable 1 = Enable
Group Listening	3	When enabled, pressing the [On/Off] button of the station while on a handset call activates the speaker so others in the vicinity hear the voice of the connected user. Only the handset microphone is active.	1 (Enable)	0 = Disable 1 = Enable
Override Privilege	4	When enabled, the station user is allowed to signal a station on a CO line call.	0 (Disable)	0 = Disable 1 = Enable
SMDR Hidden Dialed Digits	5	When enabled, digits dialed by the station user are NOT output in SMDR records.	0 (Disable)	0 = Disable 1 = Enable
Voice Over	6	When enabled, the busy Station can talk alternately between two calling or called	0 (Disable)	0 = Disable

PGM 113	Flex Btn	Description	Default	Values
		parties. Caller Voice Over must be enabled for the calling station, PGM 111 button 22.		1 = Enable
Warm Line	7	This parameter configures Idle Line Selection for the station for Hot Line (immediate connection) or Warm Line (delayed for the Warm Line Time PGM 182, Flexible button 8). See also PGM 122 for Idle Line Selection.	0 (Warm)	0 = Warm 1 = Hot
VMIB MSG Password	8	If this parameter is set to 'On', the station user must enter their password to access the VMIB Voice Mailbox.	0 (Off)	0 = Off 1 = On
VMIB MSG Date/Time	9	If this parameter is set to 'On', the VMIB will play the Date and Time stamp for each message before playing the message.	1 (On)	0 = Off 1 = On
Alarm Attribute	10	If this parameter is set to 'On', the station receives alarm signals. See PGM 163 for Alarm contact programming.	0 (Off)	0 = Off 1 = On
Mute Ring	11	If this parameter is set to 'On', the station, while busy, receives mute ring for an incoming call.	1 (On)	0 = Off 1 = On
Call Cut Off timer	12	This parameter defines the duration of an outgoing call when the station is assigned CO Call Time Restriction (PGM 112, Flexible button 3). Time is set in minutes and a value of '0' disables the restriction.	0 minutes	00~99 minutes
Barge In Mode	13	This parameter configures Barge-in capabilities for the station. Barge-in may be disabled, set for a one-way connection (Monitor) or a two-way connection (Speech). In the Monitor mode, the user may release the mute condition to be heard.	0 (Disable)	0 - Disable 1 - Monitor 2 - Speech
Auto Forward to VMIB	14	When enabled (On), calls to the station forward to the station VMIB Mailbox when the FWD to VMIB timer (PGM 181, Flexible button 20) expires.	1 (On)	0 = Off 1 = On
Station Port Block	15	If this parameter is set to 'On', the station port is disabled and any connected station is out-of-service.	0 (Off)	0 = Off 1 = On
Preset-MSG DND	16	If enabled (On), activating Absent Text Messages at the station also places the station in DND.	1 (On)	0 = Off 1 = On

PGM 113	Flex Btn	Description	Default	Values
Park & Page	17	When enabled, a user can record a Page announcement then, a call for the user's greeting and dials '8', The call is Parked and the Page announcement is played allowing the user to access the call from the Park orbit.	0 (Off)	0 = Off 1 = On
Call Coverage	18	The Call Coverage parameter enables coverage for the Covered station. Stations with a Call Coverage Flexible button for the covered station will be active. The covered station may also activate call coverage using Station User Program codes.	0 (Off)	0 = Off 1 = On
DND Forward to Voice Mail	19	When enabled, calls to a station in DND forward to the station's voice mailbox. When using the VMIB Voice Mail, a user greeting must be recorded.	1 (On)	0 = Off 1 = On
Backlight	20	Not used		

3.2.5   Station Attributes IV (PGM 114)

PGM 114 is one of four (4) program groups that assign general attributes to the station range. This PGM is associated with ISDN and DID services and IP CO lines. Also, see PGMs 111, 112, and 113.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 114.
3. Enter the appropriate Station Range.
4. Select the desired Flexible button from the chart below.
5. Enter the appropriate value.
6. Press the **[Hold/Save]** button.

PGM 114	Flex Btn	Description	Procedure	Values
CLIP LCD Display	1	If this parameter is 'On', the Calling Line Identification from the ISDN or the "From:" header of SIP lines is displayed in the station's LCD.	1 (On)	0 = Off 1 = On
COLP LCD Display	2	If this parameter is 'On', the Connected Line Identification from the ISDN or the "From:" header of SIP lines is displayed in the station's LCD.	0 (Off)	0 = Off 1 = On
CLI / Redirect Display	3	When a call is redirected by the ISDN or IP line, the station will display the original Calling Line Id (CLI) or the Id of the line redirecting the call (RED).	0 (CLI)	0 = CLI 1 = Redirect
CLI MSG Wait	4	If this parameter is set to 'On', a CLI message is activated when the station does not answer an incoming ISDN or IP CO line call.	0 (Off)	0 = Off 1 = On
EXT or ATD	5	When the CLIP Table Index (PGM 143, Flexible button 2) is 50, the system sends either the station number (EXT) or the CO line Attendant station number as the Id.	0 (EXT)	0 = Extension 1 = Attendant
Keypad Facility	6	This parameter determines if digits dialed after the called is connected are sent as	0 (DTMF	0 = DTMF

PGM 114	Flex Btn	Description	Procedure	Values
		normal DTMF tones or as part of the Keypad Facility message.		*1 = Keypad*
Long/Short	*7*	*Not used.*		
CPN Type	*8*	*not available*		
Reserved	*9*			
DISA Restriction	*10*	*If this parameter is 'On', the station cannot receive calls from a DISA line.*	*0 (Off)*	*0 = Off* *1 = On*
CLI Name Display	*11*	*When enabled (On), if the received CLI matches a Speed Dial number for the station, the station LCD displays the Name of the Speed Dial.*	*0 (Off)*	*0 = Off* *1 = On*
ISDN CLI STA	*12*	*When the CLI Type (Flexible button 17) is Short and the CLI is set as EXT (Flexible button 5), this entry, up to 4 digits, is the CLI sent by the system.*	*Station number*	*Up to 4 digits*
Progress Indication	*13*	*When enabled (On), the Setup message from the ISDN and the ip-60-60 Setup Acknowledge message include a progress indication for calls from non-ISDN devices.*	*0 (Off)*	*0 = Off* *1 = On*
CLI Restriction (CLIR)	*14*	*When enabled (On), the system sends the restrict CLI message when the station places an outgoing call on an ISDN or IP line.*	*0 (Off)*	*0 = Off* *1 = On*
COL Restriction (COLR)	*15*	*When enabled (On), the system sends the restrict COL when the station answers an ISDN or IP CO line.*	*0 (Off)*	*0 = Off* *1 = On*
DID Restriction	*16*	*If this parameter is 'On', the station cannot receive DID calls. The DID call will be treated as an invalid number.*	*0 (Off)*	*0 = Off* *1 = On*
DID Call Wait	*17*	*If this parameter is set to 'On', a second DID call will camp-on to the busy Station.*	*1 (On)*	*0 = Off* *1 = On*
CLI Type	*18*	*When the CLIP Table Index (PGM 143, Flexible button 2) is 50, and the CLI is EXT (Flexible button 5), the CLI Type can be set as Short (Flexible button 12) or Long (Flexible button 19)*	*0 (Short)*	*0 = Short* *1 = Long*
Long Station CLI	*19*	*When the CLI Type (Flexible button 18) is Long and the CLI is set as EXT (Flexible*	*No default*	*Up to 12 digits (0 – 9)*

PGM 114	Flex Btn	Description	Procedure	Values
		button 5), this entry, up to 12 digits, is sent by the system.		
MSN Wait	20	When enabled (On), the station, if busy, receives call-waiting tones for a new MSN call to the station and the call camps on to the station.	0 (Off)	0 = Off 1 = On
Long CLI1	21	If CLI Type of the CO line (PGM 143, Flexible button 12) is Long CLI 1, this entry, up to 16 digits, is sent as the CLI overriding other CLI settings.	No default	Up to 16 digits (0 – 9)
Long CLI2	22	If CLI Type of the CO line (PGM 143, Flexible button 12) is Long CLI 2, this entry, up to 16 digits is sent as the CLI overriding other CLI settings.	No default	Up to 16 digits (0 – 9)
CC Blocking	23	If this parameter is 'On', incoming collect calls are blocked. Brazil only	0 (Off)	0 = Off 1 = On

3.2.6 Flexible Button Assignment (PGM 115)

PGM 115 defines the function of the DKT Flexible buttons.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 115.

3. Enter the appropriate Station Range.

4. Dial 1 to assign one of the 1st 24 buttons and 2 for the 2nd 24 buttons.

5. Select the desired Flexible button.

6. Enter the appropriate Type and Range.

7. Press the **[Hold/Save]** button.

PGM 115	Flex Btn	Description	Default	Value
Flex Button Assignment	*All*	*Each Flexible button of a DKT and Console can be assigned a function (Type) and value (Range). The Type and Range are shown in the Button Assignment Table below.*	*See Button Default Table*	*Type = 01 ~ 11 Range = see Button Assignment Table*

Button Assignment Table

Function.		Range	Description
No.	Button Type		
1	*Undefined*		*Undefined, User programmable*
2	*{CO line xx}*	*01 – 36*	*CO line*
3	*{CO line Group xx}*	*01 – 24*	*CO line Group*
4	*{LOOP}*		

	Function.	Range	Description
No.	Button Type		
5	{Station xxxx}	100-147	DSS for Station xxxx
6	Station User PGM Code	11 – 99	See Station User PGM chart in section 4.1
7	{Station Speed xxx}	000 – 099	Station Speed Bin
8	{System Speed xxxx}	2000 –2499	System Speed Bin
9	Number Plan	Number Plan Code	Numbering Plan Code PGM 106, 107 & 109
10	Net DSS		DSS for networked station
11	MSN	MSN No.	Not available in ip-60-60
12	Virtual Voice Mailbox	200-249	Virtual Mailbox number

Button Default Configuration

Flexible Button	DKT Model	
	12-Button	24-Button
1	DND/FWD	{CO 1}
2	{LOOP}	{CO 2}
3	Not assigned	{CO 3}
4	Not assigned	{CO 4}
5	Not assigned	{CO 5}
6	Call Back	{CO 6}
7	{LOOP}	{CO 7}
8	Not assigned	{CO 8}
9	Not assigned	{LOOP}
10	Not assigned	Not assigned

Flexible	DKT Model	
Button	12-Button	24-Button
11	Not assigned	Not assigned
12 - 24	-	Not assigned

* For 12-button phones, the first button is fixed as a Speed Dial button and buttons 2 to 12 are renumbered as buttons 1 to 11.

3.2.7   Station Class of Service (COS) (PGM 116)

PGM 116 assigns a Class of Service to stations. The COS for a particular call is determined by the Station COS and the CO line COS (PGM 141, Flexible button 2)

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 116.

3. Enter the appropriate Station Range.

4. Select the desired Flexible button from the chart below.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 116	Flex Btn	Description	Default	Values
Station COS, Day	*1*	*Each station is assigned a Class Of Service (COS) that determines the station dialing restriction for Day operation (refer to Station COS Table).*	*1*	*1 - 11*
Station COS, Night	*2*	*Each station is assigned a Class Of Service (COS) that determines the station dialing restriction for Night operation (refer to Station COS Table).*	*1*	*1 - 11*

Station COS Table

Station COS	Restrictions
1	*No restrictions are placed at the station for dialing.*
2	*The assignments in the Exception Table A are monitored for Allow and Deny numbers.*
3	*The assignments in the 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.*

Station COS	Restrictions
5	*The leading digit dialed cannot be a long distance code. The dialed digits can be longer than 7 digits. In addition, the Canned Toll Table is monitored for Allow and Deny numbers.*
6	*The leading digits cannot be a Long Distance code. Only eight digits maximum can be dialed. In addition, the Canned Toll Table is monitored for Allow and Deny numbers.*
7	*Intercom and paging calls are allowed. No dialing is allowed on CO lines except Emergency numbers. Door Phones (ICM boxes) should be assigned with this COS.*
8	*The assignments in the Exception Table C are monitored for allow and deny numbers.*
9	*The assignments in the Exception Table D are monitored for allow and deny numbers.*
10	The assignments in the Exception Table C & D are monitored for allow and deny numbers
11	The assignments in the Exception Table A, B, C, & D are monitored for allow and deny numbers

3.2.8   CO Line Group Access (PGM 117)

PGM 117 defines the CO line Groups available to a station. The station user may access CO lines from the CO Group using dial codes or a Flexible button assigned to the CO Group.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 117.
3. Enter the appropriate Station Range.
4. Press the Flexible button to enable/disable CO Group access.
5. Press the **[Hold/Save]** button.

PGM 117	Flex Btn	Description	Default	Values

CO Line Group	1 ~ 24	CO lines are assigned to a CO Group (PGM 141, Flexible button1). Each station is assigned access to the CO Group and thus the CO lines in the group. The Flexible button toggles access to the CO Group and the LED indicates access,
		    'On' = allowed access
		    'Off' = access not allowed.
			All stations have access to all CO Groups	Flexible button 1 ~ 24

3.2.9   Internal Page Zone (PGM 118)

PGM 118 defines the Internal Page Zones that will transmit a page to the speaker of the station.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 118.
3. Enter the appropriate Station Range.
4. Press the Flexible button to enable/disable Page Zone access.
5. Press the **[Hold/Save]** button.

PGM 118	Flex Btn	Description	Default	Values

Internal Page Zone	*1 ~ 5*	*Stations are assigned to receive pages from any combination of the five Internal Page Zones. The Flexible button toggles access to the Zone and the LED indicates Zone membership,*
		    'On' = Page Zone member will receive pages
		    'Off' = Not a Page zone member will not receive pages
			Zone 1	*Flexible button 1 ~ 5*

3.2.10   Conference Page Zone Access (PGM 119)

PGM 119 defines the Conference Page Zones that will transmit pages to the station. Conference Page Zones are Internal Page Zones 6 through 10.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 119.

3.   Enter the appropriate Station Range.

4.   Press the Flexible button to enable/disable Conference Zone access.

5.   Press the **[Hold/Save]** button.

PGM 119	Flex Btn	Description	Default	Values
Conference Page Zone	*1 ~ 5*	*Stations are assigned to receive pages from any combination of the five Conference Page Zones. The Flexible button toggles access to the Zone and the LED indicates Zone membership,* *'On' = Zone member* *'Off'' = Not Zone member.*	*No Access*	*Flexible button 1 ~ 5*

3.2.11   Intercom Tenancy Group (PGM 120)

PGM 120 configures the Attendant station for each of the five (5) Intercom Tenancy Groups and defines other Tenancy Groups that can be called by stations in a specific Tenancy Group.

Procedure:

Tenancy Group Attendant

1. Press the **[TRANS/PGM]** button.
2. Dial 120.
3. Press the Flexible button for the Tenancy Group (1 ~ 5).
4. Press Flexible button 1 to assign an Attendant for the Tenancy Group.
5. Enter the station number desired.
6. Press the **[Hold/Save]** button.

Tenancy Group Access

1. Press the **[TRANS/PGM]** button.
2. Dial 120.
3. Press the Flexible button for the Tenancy Group (1 ~ 5).
4. Press Flexible button 2 to assign Tenancy Group access.
5. Press the Flexible button for the Tenancy Group (1 ~ 5) to enable/disable access.
6. Press the **[Hold/Save]** button.

PGM 120	Flex Btn	Description	Default	Values
Tenancy Group	*1*	*Any DKT station can be assigned as the Attendant for an Intercom Tenancy Group.*	*No assignment*	*Station number*

PGM 120	Flex Btn	Description	Default	Values
Attendant				

Tenancy Group Access	2	Stations in a Tenancy Group are allowed or denied the ability to call stations in other Tenancy Groups. The Flexible button toggles access and the LED indicates access,
		    'On' = allowed access
		    'Off'' = access not allowed.
			No assignment	Flexible button 1 ~ 5

3.2.12   Call Forward Preset (PGM 121)

PGM 121 defines the Preset Call Forward destination for each station. Calls are sent to the destination, which can be another station or a Station Hunt Group, when the Preset Call Forward timer (PGM 181, Flexible button 12) expires.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 121.

3.   Enter the appropriate Station Range.

4.   Enter the destination;
     Dial 1 and a station number or
     Dial 2 and a Station Hunt Group.

5.   Press the **[Hold/Save]** button.

PGM 121	Flex Btn	Description	Default	Values
Preset Call Forward		*This parameter defines the destination for Preset Call Forward. If the station does not answer an incoming CO call within the Preset Call Forward timer (PGM 181, Flexible button 12), the call is sent to the assigned station or Station Hunt Group.*	*No assignment*	*1 + station number* *2 + Hunt Group*

3.2.13   Idle Line Selection (PGM 122)

PGM 122 defines the Idle Line Selection for the station. The defined Idle Line Selection is accessed when the station goes Off-hook. Idle Line Selection can be immediate (Hot Line) or delayed (Warm Line). Hot/Warm Line operation is defined in PGM 113, Flexible button 7. The Warm Line delay is defined in PGM 182, Flexible button 8.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 122.
3. Enter the appropriate Station Range.
4. Enter the desired Idle Line Selection Type and Value.
5. Press the **[Hold/Save]** button.

PGM 122	Flex Btn	Description	Default	Values
Idle Line Selection		This parameter defines the CO line, station, or Flexible button the system connects to the station when the station goes off-hook. Use the Delete softkey to remove an assignment and provide Internal dial tone.	No assignment Internal dial tone	Type: 1 ~ 4 & Value = Range from Idle Line Select Table

Idle Line Select Table

Type	Item	Range	Description
1	Flexible button	01 - 44	Activate a feature of a Flexible button as if pressed.
2	CO Line	01 - 36	Access a CO Line.
3	CO Line Group	01 - 24	Access a CO line from a CO Group.
4	Station	100 - 147	Call a station.

3.2.14   SMDR Account Group (PGM 124)

PGM 124 defines the SMDR Account Group for each station. The SMDR record will include the Account Group.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 124.
3. Enter the appropriate Station Range.
4. Enter the desired Account Group, 00 ~ 23.
5. Press the **[Hold/Save]** button.

PGM 124	Flex Btn	Description	Default	Values
SMDR Account Group		This parameter assigns the station to an Account Group that is output as part of the SMDR record for calls to/from the station.	00 (no group)	00 - 23

3.2.15   Copy DSS Button (PGM 125)

PGM 125 permits the Flexible button configuration of a station to be copied to other stations or all stations in an Intercom Tenancy Group, see PGM 120.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 125.

3.   Enter the 'copy from' station number.

4.   Press Flexible button 1 to copy to a station or
     Press Flexible button 2 to copy to all stations of a Tenancy Group.

5.   Enter the desired 'copy to' station or Tenancy Group number.

6.   Press the **[Hold/Save]** button.

PGM 125	Flex Btn	Description	Default	Values
Copy DSS Button	1	Flexible button 1 copies Flexible buttons to another station.		Station number
	2	Flexible button 2 copies Flexible buttons to all stations in a Tenancy Group.		Tenancy Group number (1 – 5)

3.2.16 Station IP List (PGM 126)

PGM 126 defines the IP address of a station for 1st party CTI call control when employing a LAN connection.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 126.
3. Enter the station port number (01 – 48)
4. Enter the desired IP address.
5. Press the **[Hold/Save]** button.

PGM 126	Flex Btn	Description	Default	Values
Station IP List		This parameter assigns the IP address of the station when using a LAN for 1st party CTI connection.	No assignment	IP v4 IP address xxx.xxx.xxx.xxx

3.2.17   Station Mailbox Attributes (PGM 127)

PGM 127 defines the characteristics of a Voice Mailbox including COS, Outbound notification of new messages and e-mail notification.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 127.

3.   Enter the appropriate Voice Mailbox range.

4.   Select the desired Flexible button from the chart below.

5.   Enter the desired parameter value.

6.   Press the **[Hold/Save]** button.

PGM 127	Flex Btn	Description	Default	Values
Administrative Mailbox	1	A mailbox can be assigned to allow access to other mailboxes and other administrative functions.	0 (Disable)	0 = Disable 1 = Enable
Class of Service	2	Each mailbox can be assigned a COS to define specific characteristics of the mailbox including message storage limitations and message delivery options, refer to PGM 238.	1	1 ~ 5
Announce Only	3	A mailbox can be configured to provide an announcement only and will not provide incoming message storage. The Announce Only mailbox can be used for Automatic Park and Page.	0 (Disable)	0 = Disable 1 = Enable
Action after Announcement	4	When configured as an "Announcement Only" mailbox, the system will either disconnect the call or return the caller to the previous announcement	0 (hang-up)	0 = Hang-up 1 = Previous
VM ON (Outbound Notification)	5	The system can be configured to notify the user of new messages by placing an outbound telephone call.	0 (Disable)	0 = Disable 1 = Enable

PGM 127	Flex Btn	Description	Default	Values
VMON CO Grp	6	When Outbound Notification is enabled, the CO Line group to use to place the outbound notification call can be configured.	01	01 ~ 24
VMON Telephone Number	7	When Outbound Notification is enabled, the telephone number to call must be assigned.		24 digits
VMON Retry Count	8	Should the notification fail (error, busy, or no-answer) the system will retry the outbound call up to 9 times. After the assigned number of attempts, the system abandons the notification.	2	1 ~ 9
VMON Retry Interval	9	Should the notification fail, the system will attempt the call again after the "VMON Retry Interval" time.	10 seconds	01 ~ 60 seconds
Cascade Destination	10	The system can send a copy of a received voice mail to another Voice mailbox. Flexible button 1 = Station Flexible Button 2 = Voice Mailbox number		Button 1 – Station Number Button 2 – Voice Mailbox Number
Cascade Type	11	The system will send a copy of a new message under one of several conditions as assigned here.	0 (no cascade)	0 – No Cascade 1 – Immediate 2 - Notify Failure 3 – Urgent
Email Notification	12	The system can be configured to send an e-mail to the user as notification of a new voice message.	0 (Off)	0 = Off 1 = On
Authorization Code (Password)	13	Access to a Voice Mailbox can be password protected, when the user enters the mailbox, the system will request entry of the password.	Station Number	11 digits
SMTP Server	14	When e-mail notification is on, the SMTP (Simple Mail Transfer Protocol) server IP address must be configured.		IPv4 Address
Email Address	15	When e-mail notification is enabled, the e-mail address to notify must be configured.		24 Characters

PGM 127	Flex Btn	Description	Default	Values
SMTP User Id	16	When e-mail notification is enabled, the ip-60-60 id on the e-mail server must be configured.		24 Characters
SMTP Password	17	When e-mail notification is enabled, the ip-60-60 password on the e-mail server must be configured.		24 Characters

3.2.18   Virtual Mailbox Attributes (PGM 129)

PGM 129 defines Attributes for Virtual mailboxes including notification, Mail access privileges, and Company Directory names associated with the mailbox.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 129.

3. Enter the Virtual Mailbox number (200 – 249)

4. Selected desired Flexible button from the chart below

5. Enter the desired value.

6. Press the **[Hold/Save]** button.

PGM 129	Flex Btn	Description	Default	Values
Administrative Mailbox	1	A mailbox can be assigned to allow access to other mailboxes and other administrative functions.	0 (Disable)	0 = Disable 1 = Enable
VMIB access	2	The VMIB Access parameter enables the Virtual Voice Mailbox to receive calls.	0 (Disable)	0 = Disable 1 = Enable
Class of Service	3	Each mailbox can be assigned a COS to define specific characteristics of the mailbox including message storage limitations and message delivery options, refer to PGM 238.	1	1 ~ 5
Announce Only	4	A mailbox can be configured to provide an announcement only and will not provide incoming message storage.	0 (Disable)	0 = Disable 1 = Enable
Action after Announcement	5	When configured as an "Announcement Only" mailbox, the system will either disconnect the call or return the caller to the previous announcement	0 (hang-up)	0 = Hang-up 1 = Previous

PGM 129	Flex Btn	Description	Default	Values
VMIB Message Password	*6*	*The Voice Mailbox may require entry of a valid system password for access to the mailbox.*	*0 (Off)*	*0 = Off* *1 = On*
VMIB Message Time	*7*	*If this parameter is set to 'On', the VMIB will play the Date and Time stamp for each message before playing the message.*	*0 (Off)*	*0 = Off* *1 = On*
VMIB Message Type	*8*	*This parameter defines the order in which messages are retrieved from the Voice Mailbox, LIFO (Last-In First-out) or FIFO (First-in First-out).*	*0 (LIFO)*	*0 = LIFO* *1 = FIFO*
VMON	*9*	*The system can be configured notify the user of new messages over an outbound telephone call.*	*0 (Disable)*	*0 = Disable* *1 = Enable*
VMON CO Grp	*10*	*When Outbound Notification is enabled, the CO Line group to use to place the outbound notification call can be configured.*	*01*	*01 ~ 24*
VMon Telephone Number	*11*	*When Outbound Notification is enabled, the telephone number to call must be assigned.*		*24 digits*
VMON Retry Count	*12*	*Should the notification fail, error, busy, or no-answer, the system will retry the outbound call up to 9 times. After the number of attempts, the system abandons the notification.*	*2*	*1 ~ 9*
VMON Retry Interval	*13*	*Should the notification fail, the system will attempt the call again after the "VMON Retry Interval" time.*	*10 seconds*	*01 ~ 60 seconds*

Cascade Destination	*14*	*The system can send a copy of a received voice mail to another Voice mailbox.*
		     Flexible button 1 = Station
		     Flexible Button 2 = Voice Mailbox number
				Button 1 – Station Number
				 Button 2 – Voice Mailbox Number

Cascade Type	*15*	*The system will send a copy of a new message under one of several conditions as assigned here.*	*0 (No cascade)*	*0 – No Cascade* *1 – Immediate* *2 - Notify Failure* *3 - Urgent*

PGM 129	Flex Btn	Description	Default	Values
Email Notification	16	The system can be configured to send an e-mail to the user as notification of a new voice message.	0 (Off)	0 = Off 1 = On
Authorization Code (Password)	17	Access to a Voice Mailbox can be password protected, when the user enters the mailbox, the system will request entry of the password.	Mailbox Number	11 digits
SMTP Server	18	When e-mail notification is on, the SMTP (Simple Mail Transfer Protocol) server IP address must be configured.		IPv4 Address
Email Address	19	When e-mail notification is enabled, the e-mail address to notify must be configured.		24 Characters
SMTP User Id	20	When e-mail notification is enabled, the ip-60-60 id on the e-mail server must be configured.		24 Characters
SMTP Password	21	When e-mail notification is enabled, the ip-60-60 password on the e-mail server must be configured.		24 Characters
Company Directory First Name	22	For Access from the company directory, the virtual mailbox must be assigned a First Name. A recorded Name greeting and Last Name are also required. Use two digits for each character as shown in the Dial Pad Character Chart below.		12 Characters
Company Directory Last Name	23	For Access from the company directory, the virtual mailbox must be assigned a Last Name. Use two digits for each character as shown in the Dial Pad Character Chart below.		12 Characters

3.2.19   Display Station Numbers by COS (PGM 130)

PGM 130 displays station numbers assigned a specific Station COS

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 130.

3. Press Flexible button 1 for Day COS or
    Press Flexible button 2 for Night COS.

4. Enter the desired Station COS (00 – 11).

5. Use Volume Up/Down to navigate to next page.

6. Press the **[Hold/Save]** button.

PGM 130	Flex Btn	Description	Default	Values
Display Station	*1*	*Displays stations by Day COS*		
Number by COS	*2*	*Displays stations by Night COS*		

3.2.20   Display Station Numbers by CO Group Access (PGM 131)

PGM 131 displays station numbers allowed access to a specific CO line Group.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 131.

3.   Enter the desired CO line Group (01 – 24).

4.   Use Volume Up/Down to navigate to next page.

5.   Press the **[Hold/Save]** button.

PGM 131	Flex Btn	Description	Default	Values
Display Station Number by CO Group		*Displays stations by CO line Group Access*		

3.3   CO Line (PGM 140-147)

3.3.1   CO Service Type (PGM 140)

PGM 140 defines the type of CO line service available from the CO line.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 140.

3. Enter the CO line Range.

4. Press Flexible button 1 for CO line Type or 2 for service attributes.

5. For Line Type enter the desired Type;
    For Normal CO line service attributes, follow the instructions in the table below otherwise enter the desired value.

6. Press the **[Hold/Save]** button.

PGM 140	Flex Btn	Description	Default	Values
Line Type	1	This parameter defines the type of CO line Defines the type of CO line and service.		1 = Normal 2 = T1 DID 3 = ISDN DID/MSN 4 = TIE 5 = DCO DID TIE ANI TIE DNIS
Normal CO line service attributes	2	This parameter defines DISA service for the various ring modes. Select Flexible button:	Flexible button 1 DISA Service	0 = Off 1 = On

PGM 140	Flex Btn	Description	Default	Values
		1 = Day ring 2 = Night ring 3 = Weekend 4 = Lunch 5 = On-demand Then select Flexible button 1 for DISA Service or Flexible button 2 to assign a VMIB Greeting.	0 (Off) Flexible button 2 VMIB Greeting Not assigned	VMIB Greeting (00 – 70)
T1 service attributes		This parameter determines the T1 DID line start signal	1 (Immediate)	1 = Immediate 2 = Wink start 3 = Delayed dial
TIE Line service attributes		This parameter determines the start signal for T1 TIE lines.	1 (Immediate)	1 = Immediate 2 = Wink start 3 = Delayed dial

3.3.2   CO Line Attributes I (PGM 141)

PGM 141 is one of three PGMs that assign general attributes to the CO line range. Also, see PGMs 142 and 146.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 141.

3.   Enter the appropriate CO line Range.

4.   Select the desired Flexible button.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 141	Flex Btn	Description	Default	Values
CO line Group	1	This parameter defines the CO Group for the CO lines. Each CO line is assigned to a CO Group with other CO lines having similar characteristics. Group 00 is for Private lines and Group 25 is for unused lines.	01	00 ~ 25

CO COS	2	This parameter defines the Class Of Service (COS) for CO lines. The CO COS is combined with Station COS (PGM 116) to determine dialing restrictions for a call.
		            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	1 ~ 5

DISA Account Code	3	When enabled (On), DISA callers attempting to place a CO line call must enter a Station or System Authorization Code (PGM 227).	1 (On)	0 = Off 1 = On
CO Line Assign	4	This parameter determines the 'Start' and 'Disconnect' signal for the CO line, Loop	0 (Loop)	0 = Loop

PGM 141	Flex Btn	Description	Default	Values
		or Polarity Reversal.		1 = Polarity Reversal
CO Line Type	5	CO lines can be assigned for operation with a PBX or Centrex enforcing COS after a PBX/Centrex Trunk access code is dialed, see PGM 172.	0 (CO)	0 = CO 1 = PBX/Centrex
CO Line Signal Type	6	The system can send either DTMF or Open-loop pulses as dial pad signals on analog CO lines.	1 (DTMF)	0 = Pulse 1 = DTMF
Analog CO Line Flash	7	This parameter determines the type of Flash signal for analog CO lines, Open Loop or Ground. The duration is set in PGM 142, Flexible button 12.	0 (Open Loop)	0 = Open Loop 1 = Ground
UNA (Universal Night Answer)	8	When enabled (On), a CO line is subject to UNA service; a station may answer calls using the UNA code.	0 (Off)	0 = Off 1 = On
CO Line Group Account	9	When enabled (On), an Authorization code must be entered to place a call on CO lines.	0 (Off)	0 = Off 1 = On
Tenancy Group	10	This parameter assigns CO lines for the exclusive use by stations in an Intercom Tenancy Group.	0 (all groups)	0 = All groups 1 - 5 = Group 1 - 5
E911 Use	11	Enhanced 911 location support is not available.		
CO Line Start Signal	12	Analog CO Lines can be configured to recognize a Loop closure or Ground connection as the signal indicating	0 (Loop)	0 = Loop 1 = Ground
Preset Forward Timer	13	This parameter defines the Preset Call Forward time for CO Line Preset Call Forward. After the timer expires, if the call is unanswered, the call is sent to the destination defined in PGM 141 button 14 below.	25 (25 seconds)	00 ~ 99 seconds
Preset Forward	14	This parameter defines the destination for CO Line Preset Call Forward. If the incoming CO call is not answered within the Preset Call Forward timer (PGM 141, Flexible button 13), the call is sent to the assigned station, Voice mailbox, VMIB announcement or Station Hunt Group.	0	0 = Not assigned 1 + Station number 2 + Station Voice Mailbox number 3 + Hunt Grp number 4 + VMIB Annc

PGM 141	Flex Btn	Description	Default	Values
				number 5 + Virtual VMB number
Preset Forward Voice Mail Id	15	When desired, CO Line Preset Forward can send calls to an external Voice Mailbox using the Voice Mailbox Id assigned here.	0000	0000 ~ 9999

3.3.3   CO Line Attributes II (PGM 142)

PGM 142 is one of three PGMs to assign general attributes to the CO line range. Also, see PGMs 141 and 146.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 142.

3.   Enter the appropriate CO line Range.

4.   Select the desired Flexible button.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 142	Flex Btn	Description	Default	Values
CO Line Name Display	1	When enabled (On), the assigned CO Line Name, Flexible button 2, displays in the DKT LCD for incoming calls on the CO line.	0 (Off)	0 = Off 1 = On
CO Line Name Assign	2	This parameter assigns the name for the CO line. The name can be up to 12 characters. Refer to the Dial Pad Character chart below for dial pad entries.	No assignment	12 characters
Metering Unit	3	This parameter defines the type of Metering Signal the system expects to receive from the PSTN.	00 (None)	00 = None 01 = 50 Hz 02 = 12 KHz 03 = 16 KHz 04 = Singular Polarity Reverse (SPR) 05 = Plural Polarity Reverse (PPR) 06 = No Polarity

PGM 142	Flex Btn	Description	Default	Values
				Reverse (NPR)
Line Drop CPT (Call Progress Tone)	4	If this parameter is On, the system monitors incoming CO line calls, if after answer dial tone is detected, the CO line is dropped. Thus, a station cannot receive dial tone as a transfer and defeat Toll Restriction.	0 (Off)	0 = Off 1 = On
CO Distinct Ring	5	CO lines can be assigned one of 5 ring tones for incoming calls. When different ring tones are assigned to each CO line, the ringing CO line can be determined from the tone.	0	0 – 4
CO Line MOH	6	CO lines may be assigned separate sources for MOH overriding the system wide assignments in PGM 171. When the CO Line MOH here is 'Not assigned' (0), the assignments in PGM 171 apply to the CO line.	1 (Internal Music)	0 = Not assigned 1 = Internal Music 2 = External Music 3 = Reserved 4 – 8 = SLT MOH 1-5 9 = Hold Tone
Supply PABX-CO Dial Tone	7	In some cases, the PABX or PSTN may not provide certain tones to the CO line. In this case, the ip-60-60 can provide these tones to the station in place of the CO line. When this parameter is assigned 'Yes' the ip-60-60 provides the tone otherwise, the PABX or PSTN is expected to provide the tone. Select the desired Flexible button for the specific Tone.	No (PABX/CO)	Yes = ip-60-60 No = PABX/CO
Supply PABX-CO Ring Back Tone	8		No (PABX/CO)	Yes = ip-60-60 No = PABX/CO
Supply PABX-CO Error Tone	9		No (PABX/CO)	Yes = ip-60-60 No = PABX/CO
Supply PABX-CO Busy Tone	10		No (PABX/CO)	Yes = ip-60-60 No = PABX/CO
Supply PABX-CO Announce Tone	11		No (PABX/CO)	Yes = ip-60-60 No = PABX/CO
CO Flash Timer	12	This parameter defines the length of a Flash on the PABX/CO line. The Flash type is defined in PGM 141, Flexible button 7.	050 (500 msec.)	000 – 300 in 10-milli-second increments

PGM 142	Flex Btn	Description	Default	Values
Open Loop Detect Timer	13	Common analog CO lines use a short 'Open Loop' signal as disconnect. This parameter defines the minimum duration of the expected Open Loop disconnect signal.	03 (300 milli-seconds)	00 – 20 in 100-milli-second increments
Line Length	14	In certain regions (SAF), the CO line length to a system may vary greatly. In this case, the length can be assigned as Short or Long for each CO line.	0 (Short)	0 = Short 1 = Long
DISA Answer Timer	15	When a call is received on a CO line with DISA service, the system will answer the call when the DISA Answer Timer expires.	2 (2 seconds)	1 – 9 in 1-second increments
DISA Delay Timer	16	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.	1 (1 second)	1 – 9 in 1-second increments
SMDR Print	17	When enabled (On), calls on the CO line(s) will be included in the SMDR outputs.	1 (Yes)	0 = No 1 = Yes
Busy/Error CPT Detect	18	If this parameter is enabled (On), calls on a CO line connected to another CO line are dropped and the CO lines returned to idle if busy or error tone is detected.	1 (On)	0 = Off 1 = On
LD Delay Count	19	In some cases, the PSTN may require a delay when setting up LD calls. This parameter sets the duration the system will delay dialing after an LD code is sent to the PSTN.	0 (no delay)	0 – 5 in 1-second increments

Dial Pad Character Chart

1 – 10	**2** – 20	**3** – 30
'**.**' – 13	A – 21	D – 31
Q – 11	B – 22	E – 32
Z – 12	C – 23	F – 33
4 – 40	**5** – 50	**6** – 60

G – 41	J – 51	M – 61
H – 42	K – 52	N – 62
I – 43	L – 53	O – 63
7 – 70	**8** – 80	**9** – 90
P – 71	T – 81	W – 91
Q – 72	U – 82	X – 92
R – 73	V – 83	Y – 93
S – 74		Z – 94
∗ - ∗0	**0** – 00	#
Blank - ∗1		
':' - ∗2		
',' - ∗3		

3.3.4 ISDN/IP CO Line Attributes (PGM 143)

PGM 143 assigns attributes associated with ISDN or VoIP to the CO line range.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 143.

3. Enter the appropriate CO line Range.

4. Select the desired Flexible button. For Numbering Plan Id, Flexible button 8, select Flexible button 1 for Calling or Flexible button 2 for Called numbers.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 143	Flex Btn	Description	Default	Values
COLP Table Index	1	This parameter defines the index to the COLP Table (PGM 201) used to determine the COLP sent by the system. If the index is 50, the COLP is determined from PGM 114, Flexible button 5.	Not assigned	00 – 50 Delete softkey = Not assigned
CLIP Table Index	2	This parameter defines the index to the COLP Table (PGM 201) used to determine the CLIP sent by the system. If the index is 50, the CLIP is determined from PGM 114, Flexible button 5.	Not assigned	00 – 50 Delete softkey = Not assigned
Call Type	3	This parameter defines the call type for the ISDN CO line CLI.	2 (National)	0 = Unknown 1 = International 2 = National 3 = Not used 4 = Subscriber
DID Conversion	4	This parameter defines the DID digit conversion process for DID digits received from	0 (Use Digit Mask	0 = Digit Mask

PGM 143	Flex Btn	Description	Default	Values
Type		the ISDN or IP CO line. After removal of digits, Flexible button 5, the DID number treatment can be a simple conversion (0), no conversion (1) or simple conversion with table look-up (2).	PGM 146)	(PGM146) 1 = Use digits as is 2 = Flex DID Table (PGM231)
DID Remove Number	5	This parameter defines the number of digits to remove from the DID number received. After digit removal, the ip-60-60 can process a 2 to 4 digit DID number. Digits are removed starting with the first received digit.	00 (no digits removed)	00 – 99
ISDN Enblock Send	6	If this parameter is 'On', dialed digits are sent using Enblock Sending, all digits are sent at once (user dials # or Enblock timer –PGM 182 Flexible button 10 expires). Otherwise, digits are sent using Overlap Sending, digits are sent as dialed. IP lines must be assigned Enblock Sending.	0 (Overlap)	0 = Overlap Sending 1 = Enblock Sending
CLI Transit	7	When calls are rerouted (Call Forward) the system will send either the original Call Line ID (ORI) or the forwarding station's CLI (CFW).	0 (CFW)	0 = CFW 1 = ORI
Numbering Plan Id	8	This parameter defines the "Type of Numbering Plan" the system will use in the Information Element of the call Setup message. Flexible button 1 covers outgoing calls (CLI) and Flexible button 2 covers incoming calls (COL).	Flexible button 1 Calling 0 (Unknown) Flexible button 2 0 (Unknown) Called	0 = unknown 1 = ISDN / Telephony 3 = Data 4 = Telex 6 = National Std 7 = Private
ISDN Call Deflection/ Rerouting	9	This parameter defines which ISDN Supplementary Service is supported, Call Deflection (Unconditional Forward) or Call Reroute (Call Forward No response).	0 (No service)	0 = No Service 1 = Call Deflection 2 = Call Reroute
ISDN 1 Dgt Rm	10	When this parameter is 'On', only the 1st digit is removed from the received DID digits before the number is converted. (Intended for use in Italy only)	0 (Off)	0 = Off 1 = On
ISDN Call Proc.	11	If this parameter is 'On', call processing information is provided in-band. (Intended	0 (Off)	0 = Off

PGM 143	Flex Btn	Description	Default	Values
In-band Message		for Italy only)		1 = On
CLI Type	12	This parameter controls how the ip-60 will generate the Id for an ISDN or IP line call. The CLI Type can be: 0 – Use COLP/CLIP Table index (Flexible buttons 1 & 2 above.) 1 – Use Long CLI 1 (PGM 114, Flexible button 21) 2 – Use Long CLI 2 (PGM 114, Flexible button 22)	0 (Normal)	0 = Normal 1 = Long CLI 1 2 = Long CLI 2
Reserved	13			
Screening Indicator	14	This parameter defines the value used as the Screening Indicator element of the CLI field in the ISDN Setup message for an outgoing call.	0 (User provided – No service)	0 = User provided – No service. 1 = User provided – Pass 2. = User provided – Fail 3. = Network provided
Double CLI Service	15	This parameter determines if the system will display the original CLI or Transit CLI for calls rerouted (forwarded) by the ISDN or IP line.	0 (Transit)	0 = Transit 1 = Original
Prefix Table Index	16	This parameter enables Prefix dialing and defines the Enblock Prefix Table (PGM 205) index to use for the CO line. (Intended for Ukraine only)	0 (Off)	0 = OFF 1 ~ 6 = Table Index
Deny Incoming Call	17	A CO line can be configured not recognize an incoming call.	0 (Off)	0 = Off 1 = On
ICLID	18	A CO Line can be configured to route a call based on the Incoming Caller ID (ICLID). The ICLID is compared to the ICLID Table entries, PGM 237 to determine routing.	0 (Off)	0 = Off 1 = On
Drop if No CLI	19	A CO Line can be configured to drop a call if the CO line does not provide CLI.	0 (Off)	0 = Off 1 = On

3.3.5   CO Line Ring Assignment (PGM 144)

PGM 144 determines the routing for incoming calls on Normal service CO lines (PGM 140). Calls are routed to and alert (ring and LED) the assigned destination(s), which can be a station range, Hunt Group or a VMIB announcement. Separate assignments are made for each service mode Day, Night, Weekend, Lunch and On-demand. When assigned to a station, the ring can be delayed by 0 to 9 seconds.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 144.
3. Enter the appropriate CO line Range.
4. Select the Flexible button for the desired service mode Day, Night, etc.
5. Enter the appropriate value.
6. Press the **[Hold/Save]** button.

PGM 144	Flex Btn	Description	Default	Values
Day Ring	1	Flexible buttons 1 through 5 determine call routing and alerting for calls on the CO line while the system is in the respective service mode. Calls can be routed to stations with a delay, a Hunt Group, a VMIB Greeting or a station in a networked system.	Station 100, System Attendant w/no delay	1 + station range + delay (0 ~ 9)
Night Ring	2			
Weekend Ring	3			2 + Hunt Group
Lunch Ring	4			3 + VMIB Greeting (00 – 70)
On-demand Ring	5			4 + networked station number
				5 + Virtual Mailbox

3.3.6 CO Line Ring Assignment Display (PGM 145)

PGM 145 is used to display CO line ring assignments defined in PGM 144.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 145.

3. Enter the appropriate CO line Range.

4. Select the Flexible button for the desired service mode Day, Night, etc.

5. Use the Volume Up/Down buttons to navigate to next/previous page.

3.3.7 CO Line Attributes III (PGM 146)

Program 146 is one of three PGMs that assign general attributes to the CO line range. Also, see PGMs 141 and 142.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 146.

3. Enter the appropriate CO line Range.

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 146	Flex Btn	Description	Default	Values
Incoming Prefix Code Insertion	*1*	*When enabled (On), the My Area and Prefix codes (PGM 200, Flexible buttons 9 &10) are inserted in front of received CLI for incoming calls*	*0 (Off)*	*0 = Off* *1 = On*
Outgoing Prefix Code Insertion	*2*	*When enabled (On), the My Area and Prefix codes (PGM 200 Flexible buttons 9 & 10) are inserted in front of the CLI for outgoing calls.*	*0 (Off)*	*0 = Off* *1 = On*
ISDN Line Type	*3*	*This parameter determines the codec used by the ISDN or IP line. The codec can be PCM u-Law (NA standard) or A-Law (EU standard).*	*1 (u-Law)*	*0 = A-Law* *1 = μ-Law*
Calling Sub-address	*4*	*When enabled (On), the bit for the calling party sub-address in the ISDN Setup message is set for outgoing calls. (Intended for Norway only)*	*0 (Off)*	*0 = Off* *1 = On*
DID Digit Receive No.	*5*	*This parameter defines the number of DID digits the system expects to receive after digit removal (PGM 143, Flexible button 5).*	*3*	*2 - 4*
DID Digit Mask	*6*	*This parameter defines the DID digit conversion process (Digit Mask) for Type '0' and '2' DID Conversion (PGM 143, Flexible button 4).*	*'# * * *'*	*2 to 4 digits* *0 ~ 9, * and #* *# = delete digit*

PGM 146	Flex Btn	Description	Default	Values
				* = accept digit
Collect Call Blocking	7	This parameter defines the type of Collect Call Blocking supported for E1 CO lines with R2 signaling. (Intended for Brazil only)	O (Disabled)+	0 = Disable 1 = Double Answer 2 = w/Indicator
Collect Call Answer Timer	8	These parameters determine treatment of an incoming call when Collect Call Blocking Double Answer is 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.	010 (1 seconds)	001 ~ 250 in 100 milli-seconds increments
Collect Call Idle Timer	9		020 (2 seconds)	001 ~ 250 in 100 milli-seconds increments

3.3.8   CO Line Caller Id (CID) Attributes (PGM 147)

PGM 147 defines the Caller Id characteristics associated with analog CO lines.

Procedure:

1. Press the **[TRANS/PGM]** button.
2. Dial 147.
3. Enter the appropriate CO Line Range.
4. Press the desired Flexible button.
5. Enter the appropriate value.
6. Press the **[Hold/Save]** button.

PGM 147	Flex Btn	Description	Default	Values
CID Mode Select	1	This parameter defines the type of Caller Id signal provided by the PSTN.	1 (FSK)	0 = Disable 1 = FSK 2 = DTMF 3 = Russia CID 4 = Russia Auto CID
CID Name Display	2	When the analog CO line provides the caller's name as well as number, the system can display the telephone number or the name and the telephone number received.	0 (Telephone number)	0 = Tel. number. 1 = Name
RCID Detect	3	This parameter determines the types of call that include CID, only local calls, or all calls. (Intended for use in Russia only)	0 (Local)	0 = Local 1 = All
RCID Request	4	This parameter determines if the system will request Caller ID from the network. (Intended for use in Russia only)	1 (Auto)	0 = Auto 1 = User
RCID Request Timer	5	When RCID Request (Flexible button 4) is set to auto, the system will delay sending the request for the setting of this timer. (Intended for use in Russia only)	150 (1.5 seconds)	010 ~ 150 in 10 milli-second increments

PGM 147	Flex Btn	Description	Default	Values
RCID Virtual Answer Timer	6	When RCID Request (Flexible button 4) is set to Auto, the system automatically answers incoming calls and routes them the appropriate Station(s). If the call is not answered in the Virtual Answer time, the call is disconnected form the system. (Intended for use in Russia only)	020 (20 seconds)	001 ~ 300 in 1 second increments
RCID Digit Number	7	This parameter defines the number of digits of the received CID to display. (Intended for use in Russia only)	07	04 ~ 10
RCID Request Count	8	This parameter determines the number of times the system will request CID from the network when RCID Request is set to Auto. The maximum value is 3. (Intended for use in Russia only)	1	1 ~ 3
RCID Request Delay	9	This parameter determines the time the system will wait between RCID Requests. (Intended for use in Russia only)	10 (100 milli-seconds)	10 ~ 30 in 10 milli-second increments

3.3.9 T1 CO Line Attributes (PGM 152)

PGM 152 defines various attributes associated with T1 CO lines.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 152.

3. Enter the appropriate CO Line Range.

4. Press the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 152	Flex Btn	Description	Default	Values
Pause Duration	1	This parameter sets the duration of the delay in dialing when a pause is encountered in a Speed Dial number.	2 seconds	1 ~ 9 in 1-second increments
Release Guard Time	2	This parameter defines the interval between when a user disconnects from a T1 CO line call and when the CO line is available for access by another user. This interval allows time for the CO to return the circuit to an idle state.	20 (2 seconds)	01 ~ 60 in 100-milli-second increments
Dial tone Delay Timer	3	This parameter sets the time between the user accessing a T1 CO line and dial tone delivery to the user. This interval allows the T1 CO line to setup the circuit. If Dial Tone Detect (PGM 160, Flexible button 6) is enabled, when dial tone is detected, it is immediately sent to the user otherwise, this timer is employed.	10 (1 second)	02 ~ 50 in 100-milli-second increments
Inter-digit Timer	4	not used		
Wink Timer	5	This parameter sets the duration of the 'Wink' signal for Wink start T1 CO lines. The parameter is also used to define the delay when delay start is assigned for the T1 CO line.	10 (200 milli-seconds)	07 ~ 15 in 20-milli-second increments

PGM 152	Flex Btn	Description	Default	Values
Out-pulse Rate	6	not used		
Seize Timer	7	This parameter defines the duration of the seizure signal provided by the T1 CO line for DID and TIE lines.	3 (60 milli-seconds)	000 ~ 127 in 20-milli-second increments
Release Timer	8	This parameter defines the duration of the release signal provided by the T1 CO line for DID and TIE lines.	7 (140 milli-seconds)	000 ~ 127 in 20-milli-second increments
IASG Mode	9	not used	1 (DTMF)	0 = Pulse 1 = DTMF
Ring Detect Time	10	This parameter defines the minimum incoming Ring-on signal to be considered a valid ring signal for Loop/Ground Start T1 CO lines. Shorter ring-on periods are ignored.	2 (200 milli-seconds	2 ~ 9 in 100-milli-second increments
Ring Stop Time	11	This parameter defines the maximum duration of the Ring-off period to be considered a valid ring signal for Loop/Ground Start T1 CO lines. Longer Ring-off signals are considered an abandoned call.	60 (6 seconds)	10 ~ 60 in 100-milli-second increments
Collect Digit Timer	12	not used		
Store Timer	13	not used		

3.4   Board Slot Based Admin (PGM 155)

3.4.1   T1/DCO Board Attributes (PGM 155)

PGM 155 assigns characteristics for all digital CO lines on a T1 or E1 board.

Procedure:

1.   Press the **[TRANS/PGM]** button.

2.   Dial 155.

3.   Enter the appropriate T1/DCO board slot number.

4.   Press the desired Flexible button.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 155	Flex Btn	Description	Default	Values
T1/R2 CRC Check	1	When enabled (On), the system will perform a CRC check for T1 and R2 digital CO lines.	0 (Disable)	0 = Disable 1 = Enable
Distance Coefficient Setting	2	When the switch for selection of long loop on the board is set to 'Long', the gain value is set according to the Distance Coefficient. (Applied to LCOB/SLIB/HYBRID)	0 (0 Km)	0 = 0 Km 1 = 3 Km 2 = 5 Km 3 = 7 Km
DCO IP Address	3	This parameter defines the IP Address of the digital CO board (E1/T1/PRI) used to upgrade the board firmware when required.	0.0.0.0	IP v4 IP address xxx.xxx.xxx.xxx
DCO Gateway IP Address	4	This parameter defines the default gateway IP address for the digital CO board (E1/T1/PRI) used to upgrade the board firmware when required.	0.0.0.0	IP v4 IP address xxx.xxx.xxx.xxx

PGM 155	Flex Btn	Description	Default	Values
DCO Subnet Mask	5	This parameter defines the subnet mask of the digital CO board (E1/T1/PRI) used to upgrade the board firmware when required.	0.0.0.0	IP v4 IP address xxx.xxx.xxx.xxx
Reserved	6	not used		
DCO Master Clock	7	This parameter determines the master clock for the digital CO board. When set to slave, the board will derive the clock signal from the connected circuit. When set to master, the digital CO board will employ the local clock as the master clock signal and expects the connected circuit to synchronize to the clock.	0 (Slave)	0 = Slave 1 = Master
PLL SSCG	8	not used		
T1 Setup mode	9	This parameter assigns the type of framing for the T1 circuit as D4 or ESF.	0 (D4)	0 = D4 1 = ESF
T1 Line Mode	10	This parameter assigns the Line coding for the T1 circuit as B8ZS or AMI.	0 (B8ZS)	0 = B8ZS 1 = AMI

3.5   System Data (*PGM 160 – 184*)

3.5.1   System Attributes I (PGM 160)

PGM 160 defines general system attributes.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 160.

3. Press the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 160	Flex Btn	Description	Default	Values
Attendant Call Queue Ring Back/MOH	*1*	*If this parameter is RBT, Ring Back Tone is provided to the station when calling a busy Attendant otherwise hold tone or VMIB-MOH is provided as defined in PGM 171, Flexible button 2.*	*0 (MOH)*	*0 = MOH* *1 = Ring Back Tone*
Camp-on Call RBT/MOH	*2*	*If this parameter is RBT, Ring Back Tone is provided to the camped on party otherwise MOH is provided.*	*0 (MOH)*	*0 = MOH* *1 = RBT*
CO Line Choice	*3*	*This parameter defines the method the system will use to secure a CO line from a CO Group, Last (highest numbered) or Round Robin.*	*1 (Last)*	*0 = Round Robin* *1 = Last*
DISA Retry Counter	*4*	*This parameter determines the number of times a DISA caller can retry dialing a station or feature code before being routed to the DID/DISA Destination (PGM 167).*	*3*	*0-9*
ICM Continuous Dial Tone	*5*	*This parameter determines if Intercom dial tone is continuous or interrupted (discontinuous).*	*1 (continuous)*	*0 = Discontinuous* *1 = Continuous*

PGM 160	Flex Btn	Description	Default	Values
CO Dial-Tone Detect	6	When enabled, the system uses dial tone detection when a pause is detected in a Speed Dial number otherwise the Pause timer (PGM 181, Flexible button 11) is used.	0 (Off)	0 = Off 1 = On
External Night Ring	7	If this parameter is 'On', when an incoming CO call is received and UNA service is activated, alerting will be sent to the LBC contact.	0 (Off)	0 = Off 1 = On
Hold Preference	8	This parameter defines the preferred type of Hold, System (anyone with an appearance may access the held call) or Exclusive (only the holding station can access the held call).	1 (System)	0 = Exclusive 1 = System
Multi-line Conference	9	When enabled (On), the system will allow multiple parties, up to 14, in a conference.	1 (On)	0 = Off 1 = On
Print LCR Converted Digit	10	This parameter determines if the DKT LCD and SMDR will show the digits dialed by LCR (On) or the originally dialed digits (Off).	0 (Off)	0 = Off 1 = On
Conference Warning Tone	11	If this parameter is 'On', when a member joins a Conference Room, existing members hear a warning tone.	1 (On)	0 = Off 1 = On
Off-net Prompt Usage	12	If this parameter is 'On', the Off-net VMIB prompt is heard when a call is forwarded over a CO line.	1 (On)	0 = Off 1 = On
Off-net DTMF Tone	13	This parameter determines if DTMF tones are returned to a caller on a CO line when forwarded Off net.	1 (On)	0 = Off 1 = On
Voice Path Connect	14	This parameter determines if a voice path to an outgoing CO line is set-up immediately (IMM) or after dialing the first digit (DGT) when a CO line is assigned for PBX operation in PGM 141, Flexible button 5.	0 (After dialing)	0 = After digits 1 = Immediate
Transfer Tone	15	This parameter determines if a call receives Ring Back tone or MOH during a transfer.	0 (Ring Back)	0 = Ring Back Tone 1 = MOH
CO to CO Xfer CPT detection	16	See PGM 142, Flexible button 18.		

PGM 160	Flex Btn	Description	Default	Values
ACD Package Usage	*17*	*not used*	*0 (Off)*	*0 = Off* *1 = On*
CO – CO Unsupervised Conference Extend Timer	*18*	*If this parameter is 'On', an Unsupervised Conference member can extend the duration of the conference by dialing the UC Timer Extend code. Also, see PGM 182, Flexible button 6 for the UC Conference Timer.*	*0 (Off)*	*0 = Off* *1 = On*
Call Log List Number	*19*	*This parameter determines the number of records allowed for the Call Log at each station. The system allocates memory for the Call Logs until the Call Log memory is exhausted.*	*15*	*15 - 50*
Reserved	*20*			
SIP Pound Usage	*21*	*When enabled (On), '#' and '*' are treated as dialed digits on a SIP outgoing call.*	*0 (Off)*	*0 = Off* *1 = On*

3.5.2 System Attributes II (PGM 161)

PGM 161 defines general system attributes.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 161.
3. Press the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 161	Flex Btn	Description	Default	Values
PX Time/Day/Month	1	This parameter determines if the System Time and Date are set manually (Off, see PGM 178) or based on the Time and Date from the ISDN (On).	0 (Off)	0 = Off 1 = On
Off-Hook Ring Type	2	This parameter determines if the system will use muted ring or a single ring burst for the off-hook ring signal.	1 (Muted ring)	0 = Single Burst 1 = Muted ring
Override 1st CO Line Group	3	When enabled (On), if the user dials '9', the system will search all CO Groups for an idle CO line starting with the 1st CO Group otherwise, only CO Group 1 is searched.	1 (On)	0 = Off 1 = On
Page Warning Tone	4	When enabled (On) a warning tone is sent over a page prior to establishing an audio path with the paging user.	1 (On)	0 = Off 1 = On
Auto Privacy	5	If this parameter is 'On', a call cannot be overridden by a station with Override Privilege, see PGM 113, Flexible button 4	1 (On)	0 = Off 1 = On
Privacy Warning Tone	6	If this parameter is 'On', when a call is intrude upon or overridden, a warning tone is sent to the parties on the call.	1 (On)	0 = Off 1 = On
Single Ring for CO Call	7	This parameter determines the cadence of CO line and Intercom ring. If 'Yes', the Intercom ring cadence is 1 second on and 4 seconds off and the CO line ring	0 (No)	0 =No 1= Yes

PGM 161	Flex Btn	Description	Default	Values
		cadence is 0.4s on/ 0.2s off/0.4s on/4s off. When set to 'No' the Intercom and CO line ring cadences are reversed.		
Reserved	8			
ACD Print Enable	9	When enabled (On), ACD (Automatic Call Distribution) Statistics are output at an interval defined by Flexible button 10 and 14.	0 (Off)	0 = Off 1 = On
ACD Print Timer	10	This parameter defines the time between outputs of the ACD Statistics (Flexible button 9) from 001 to 225 units, where the units (seconds or hours) are defined by Flexible button 14.	001	001 ~ 225
ACD Clear Database after Print	11	When enabled (On), the system will clear data from the ACD statistics after output of ACD reports.	0 (Off)	0 = Off 1 = On
VIMB Prompt Gain	12	This parameter determines the gain used for playback of VMIB announcements.	08	00 ~ 31
CLI Information at VM SMDI	13	When enabled (On), the system will send the CLI associated with the call to the external VM if SMDI signaling is enabled, DIP SW 1-position 2. Not available in ip-60-60.	0 (Off)	0 = Off 1 = On
ACD Print Timer Unit	14	This parameter defines the unit of measure for the ACD Print Timer, Flexible button 10.	0 (Seconds)	0 = Seconds 1 = Hours
Set VM SMDI Type	15	This parameter determines if SMDI signaling for an external Voice Mail is Type I or Type II. Not available in ip-60-60.		0 = Type I 1= Type II
Incoming Toll Check	16	When enabled (On), the system will apply COS should the user dial after answering an incoming CO line call.	0 (Off)	0 = Off 1 = On
Auto FAX transfer CO	17	This parameter defines an analog CO line the system will monitor for incoming call FAX Tone (1100Hz, 0.5 second On/3 seconds Off repeated). If detected on the CO line, the call is sent to SLT port 16 in the Basic KSU. Also see PGM 182 Flexible	Not assigned	01 ~ 36 Must be an Analog CO line.

PGM 161	Flex Btn	Description	Default	Values
		buttons 13 and 14.		
No DSS Indication	18	When enable (On), the CO line and DSS/BLF buttons at a Station do not provide incoming call indications for the calls to other Stations.	0 (Disable)	0 = Disable 1 = Enable
UK Billing Mode UK Only	19	If this parameter is 'On', the UK Billing Mode is applied. (UK Only)	0 (Off)	0 = Off 1 = On
COS 7 When Authorization Fail	20	When enabled (On), if an invalid Authorization Code is entered, the system changes the Station COS to 7 – fully restricted. Also, if the station has no Day and Night COS assignment (PGM 116) the Day and Night are changed to 7 and must be reassigned to recover. Otherwise, the user may return to the normal COS with the COS Restore procedure.	0 (Off)	0 = Off 1 = On
5-digit Authorization Code	21	This parameter determines the structure of Authorization Codes; when 'On' fixed 5-digit Authorization Codes are used, when Off variable 3 to 11-digit codes are used and '#' is the terminating digit.	0 (Off)	0 = Off 1 = On
LCR Dial Tone Detect	22	When enabled (On), for all LCR Modes except M13, the system will verify dial tone on an analog CO line; if dial tone is not received, the Alternate DMT Index is used to route the call.	0 (Off)	0 = Off 1 = On
Transit-Out Security	23	When enabled (On), the system will verify the IP address in the Transit-Out set-up message received by the VOIB is from a registered IP address. If not registered, the Transit-Out call will fail.	0 (Off)	0 = Off 1 = On

3.5.3   Admin Password (PGM 162)

PGM 162 assigns a password to access Admin programming.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 162.

3. Enter the appropriate value.

4. Press the **[Hold/Save]** button.

PGM 162	Flex Btn	Description	Default	Values
Admin Password		This parameter defines the password, if any, required for a user to access Admin programming. The password must be 4 digits. To delete a password press the [Speed] button.	Not assigned	4-digits 0 – 9, '*' and '#'

3.5.4   Alarm Attributes (PGM 163)

PGM 163 configures the Alarm contact in the main cabinet.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 163.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 163	Flex Btn	Description	Default	Values
Alarm Enable	*1*	*If this parameter is 'On', the system will monitor the external Alarm contact.*	*0 (Off)*	*0 = Off* *1 = On*
Alarm Contact Type	*2*	*This parameter defines the contact state (open or close) that activates the Alarm signal.*	*1 (Close)*	*0 = Open* *1 = Close*
Alarm Mode	*3*	*This parameter determines the operating mode of the contact, Alarm or Doorbell.*	*1 = Alarm*	*0 = Doorbell* *1 = Alarm*
Alarm Signal Mode	*4*	*This parameter determines if the Alarm signal is a single or repeating tone. Users to receive the Alarm signal are defined in PGM 113, Flexible button 10.*	*1 (Repeat)*	*0 = Once* *1 = Repeat*

3.5.5   System & Main Attendant Assignments (PGM 164)

PGM 164 configures the System and Main Attendants for the system.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 164.

3. Select the desired Flexible button. Note attendants must be entered in order.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 164	Flex Btn	Description	Default	Values
System Attendant	*1*	*This parameter defines the System Attendant.*	*100*	*DKT station number*
Main Attendant 1	*2*	*This parameter defines the first Main Attendant. To delete a Main Attendant press the [Speed] button*	*Not assigned*	*DKT station number*
Main Attendant 2	*3*	*This parameter defines the second Main Attendant. To delete a Main Attendant press the [Speed] button*	*Not assigned*	*DKT station number*
Main Attendant 3	*4*	*This parameter defines the third Main Attendant. To delete a Main Attendant press the [Speed] button*	*Not assigned*	*DKT station number*
Main Attendant 4	*5*	*This parameter defines the fourth Main Attendant. To delete a Main Attendant press the [Speed] button*	*Not assigned*	*DKT station number*

3.5.6   Auto Attendant VMIB Announcement (PGM 165)

PGM 165 configures the back-up Auto Attendant Announcement used when the Attendant does not answer an incoming CO line call.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 165.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 165	Flex Btn	Description	Default	Values
Auto Attendant Usage	1	If this parameter is 'On', the back-up Auto Attendant is enabled and will play the assigned VMIB announcement, refer to Flexible button 2.	0 (Off)]	0 = Off 1 = On
VMIB Announce	2	This parameter defines the VMIB announcement used for the back-up Auto Attendant.	Not assigned	00 ~ 70

3.5.7   CO-To-CO COS (PGM 166)

PGM 166 assigns the Day and Night/Weekend service mode COS for a CO-to-CO connection (Unsupervised Conference).

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 166.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 166	Flex Btn	Description	Default	Values
CO to CO Day COS	1	This parameter defines the CO-to-CO Day mode COS. Refer to the table below for COS values.	07	01 ~ 11
CO to CO Night COS	2	This parameter defines the CO-to-CO Night and Weekend COS. Refer to the table below for COS values.	07	01 ~ 11

CO to CO COS Table

Station COS	Restrictions
1	No restrictions are placed on dialing.
2	The assignments in the Exception Table A are monitored for Allow and Deny numbers.
3	The assignments in the 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. The dialed digits can be longer than 7 digits. There is no restriction for the number in Canned Toll Table.

Station COS	Restrictions
6	The leading digits cannot be a Long Distance code. Only eight digits maximum can be dialed. There is no restriction for the number in the Canned Toll Table.
7	Intercom and paging calls are allowed. No dialing allowed on CO lines ICM boxes are assigned with this COS.
8	The assignments in the Exception Table C are monitored for allow and deny numbers.
9	The assignments in the Exception Table D are monitored for allow and deny numbers.
10	The assignments in the Exception Table C & D are monitored for allow and deny numbers
11	The assignments in the Exception Table A, B, C, & D are monitored for allow and deny numbers

3.5.8 DID/DISA Destination (PGM 167)

PGM 167 establishes destinations for DID/DISA calls that encounter busy, error, No-answer or DND conditions and enables VMIB prompts for these conditions.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 167.

3. Select the desired Flexible button.
   VMIB Prompt Use, select the Flexible button for the prompt.

4. Enter the appropriate value, for 'Destinations' press the appropriate Flexible button.

5. Press the **[Hold/Save]** button.

PGM 167	Flex Btn	Description	Default	Values
Busy Destination	1	This parameter defines the destination when a DID or DISA call encounters busy and no forwarding destination is enabled. The destination can be busy Tone, an Attendant or a Station Hunt Group. When selecting Hunt Group, enter the Hunt Group number.	1 (Tone)	Flexible button 1 = Tone 2 = Attendant 3 = Hunt Group (enter group number)
Error Destination	2	This parameter defines the destination when a DID or DISA call encounters an error. The destination can be busy Tone, an Attendant or a Station Hunt Group. When selecting Hunt Group, enter the Hunt Group number.	1 (Tone)	Flexible button 1 = Tone 2 = Attendant 3 = Hunt Group (enter group number)
No Answer Destination	3	This parameter defines the destination when a DID or DISA call encounters No-answer and no forwarding destination is enabled. The destination can be busy	1 (Tone)	Flexible button 1 = Tone

PGM 167	Flex Btn	Description	Default	Values
		Tone, an Attendant or a Station Hunt Group. When selecting Hunt Group, enter the Hunt Group number.		2 = Attendant 3 = Hunt Group (enter group number)
DND Destination	4	This parameter defines the destination when a DID or DISA call encounters DND and no forwarding destination is enabled. The destination can be busy Tone, an Attendant or a Station Hunt Group. When selecting Hunt Group, enter the Hunt Group number.	1 (Tone)	Flexible button 1 = Tone 2 = Attendant 3 = Hunt Group (enter group number)
VMIB Prompt Usage	5	The VMIB includes prompts that play when the destination is busy, invalid (error), in DND, does not answer, or is transferred to an Attendant. Each prompt is separately enabled. When enabled (On), the VMIB announcement will be presented to the caller before the call is routed to the assigned destination	Select Flexible button	Flexible button 1 = Busy Prompt 2 = Error Prompt 3 = DND Prompt 4 = No answer 5 = Attendant Xfer
Busy Prompt	5-1		1 (On)	0 = OFF 1 = ON
Error Prompt	5-2		1 (On)	0 = OFF 1 = ON
DND Prompt	5-3		1 (On)	0 = OFF 1 = ON
No Answer Prompt	5-4		1 (On)	0 = OFF 1 = ON
Attendant Transfer Prompt	5-5		1 (On)	0 = OFF 1 = ON
Reroute Busy	6	This parameter defines the destination when a DID or DISA call is rerouted with No-	2 (Attendant)	Flexible button

PGM 167	Flex Btn	Description	Default	Values
Destination		*answer forward or CCR to a busy destination.* *Not supported for T1/E1 CO line*		*1 = Tone* *2 = Attendant* *3 = Hunt Group (enter group number)*
Reroute Error Destination	*7*	*This parameter defines the destination when a DID or DISA call is rerouted with No-answer forward or CCR to an invalid destination.* *Not supported for T1/E1 CO line*	*2 (Attendant)*	*Flexible button* *1 = Tone* *2 = Attendant* *3 = Hunt Group (enter group number)*
Reroute No Answer Destination	*8*	*This parameter defines the destination when a DID or DISA call is rerouted with No-answer forward or CCR and is not answered in the DID/DISA No- answer time (PGM 181, Flexible button 2).* *Not supported for T1/E1 CO line*	*2 (Attendant)*	*Flexible button* *1 = Tone* *2 = Attendant* *3 = Hunt Group (enter group number)*

3.5.9   External Control Contacts (PGM 168)

PGM 168 configures the four External Control Contacts.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 168.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 168	Flex Btn	Description	Default	Values
First Contact	*1*	*These parameters define the function of each of the four Control Contacts in the ip-60-60. Contacts 1 and 2 are located in the Basic cabinet and contacts 3 and 4 are located in the Expansion cabinet. The contact can be assigned to activate when:*	*Not assigned*	*1 + station number + LBC*
Second Contact	*2*			*2 = Doorbell*
Third Contact	*3*			*3 = External Page*
Fourth Contact	*4*	*A station receives a call with the system in Night Service,* *A doorbell contact is activated or* *External Page is accessed*		

3.5.10   LCD Time/Date and Language Mode (PGM 169)

PGM 169 defines the Time and Date display format and the display Language.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 169.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 169	Flex Btn	Description	Default	Values
LCD Time Mode	*1*	*This parameter sets the display format for Time as a 12 or 24-hour clock.*	*1 (12 hour clock)*	*0 = 24 hour clock* *1 = 12 hour clock*
LCD Date Mode	*2*	*This parameter sets the format of the date display as Day/Month/Year (DD/MM/YY) or Month/Day/Year (MM/DD/YY).*	*0 (DD/MM/YY)*	*0 = DD/MM/YY* *1 = MM/DD/YY*
LCD Language	*3*	*This parameter selects the language used in the LCD of the DKTs.*	*00 (English)*	*00 = English* *01 = Italian* *02 = Finnish* *03 = Dutch* *04 = Swedish* *05 = Danish* *06 = Norwegian* *07 = Hebrew* *08 = German* *09 = French*

PGM 169	Flex Btn	Description	Default	Values
				10 = Portuguese
				11 = Spanish
				12 = Korean
				13 = Estonia
				14 = Russian
				15 = Turkish
				16 = Romanian
				17 = Polish

3.5.11   Modem Assignment (PGM 170)

PGM 170 defines the station or CO line associated with the modem on the optional MODU. If the station or CO line associated with the modem receives a call, the modem is connected.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 170.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 170	Flex Btn	Description	Default	Values
Station number	1	This parameter assigns an associated station for the Modem	147	Station number
CO Line Number	2	This parameter assigns an associated CO line for the Modem	Not assigned	Analog CO line number

3.5.12   Music Assignments (PGM 171)

PGM 171 assigns music and tone sources.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 171.

3.   Select the desired Flexible button.
     For SLT MOH assignments, press Flexible button 1 – 5 for SLT MOH 1 – 5.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 171	Flex Btn	Description	Default	Values
BGM Type	1	This parameter defines the source for BGM (Back Ground Music).	1 (Internal Music, see Flexible button 8)	0=Not assigned 1 = Internal Music 2 = External Music 3 = unused 4-8 = SLT MOH 1-5
MOH Type	2	This parameter defines the source for MOH (Music On Hold).	1 (Internal Music, see Flexible button 8)	0=Not assigned 1 = Internal Music 2 = External Music 3 = Unused 4-8 = SLT MOH 1-5 9 = Hold Tone
ICM Box Music Channel	3	This parameter assigns the music source for the Door Phone (ICM Box) that plays at the Door Phone while idle.	0 (Not assigned)	0=Not Assigned 1 = Internal Music

PGM 171	Flex Btn	Description	Default	Values
				2 = External Music
3 = unused
4-8 = SLT MOH 1-5
Assign SLT MOH	4	This parameter assigns an SLT station in the system as an SLT MOH source. The SLT port requires connection to a music source
SLT MOH 1 = Flexible button 1 + station number
SLT MOH 2 = Flexible button 2 + station number
SLT MOH 3 = Flexible button 3 + station number
SLT MOH 4 = Flexible button 4 + station number
SLT MOH 5 = Flexible button 5 + station number	Not assigned	Flexible button + SLT station number
Dial Tone Source	5	This parameter assigns an SLT MOH source for dial tone, set the SLT Station number of the SLT port.	0 (Not assigned)	0 = Not Assign
1 = SLT MOH 1
2 = SLT MOH 2
3 = SLT MOH 3
4 = SLT MOH 4
5 = SLT MOH 5
Intercom Ring Back Tone	6	This parameter assigns an SLT MOH source for Intercom Ring Back tone.	0 (Not assigned)	0 = Not Assign
1 = SLT MOH 1
2 = SLT MOH 2
3 = SLT MOH 3
4 = SLT MOH 4
5 = SLT MOH 5
CO Ring Back Tone RBT	7	This parameter assigns an SLT MOH source for DID CO line Ring Back tone.	0 (Not assigned)	0 = Not Assign
1 = SLT MOH 1
2 = SLT MOH 2
3 = SLT MOH 3

PGM 171	Flex Btn	Description	Default	Values
				4 = SLT MOH 4
				5 = SLT MOH 5
Internal MOH	8	This parameter selects the melody used for Internal MOH, select from 13 available melodies	0 (Romance)	0 = Romance
				1 = Turkish March
				2 = Green sleeves
				3 = Fur Elise
				4 = Carmen Toreador Song
				5 = Waltz of the Flowers
				6 = Pavane
				7 = Sichilland
				8 = Mozart Piano Sonata
				9 = Song of Spring
				10 = La Campanella
				11 = Overture No. 2 Badinerie
				12 = Blue Danube

3.5.13   PBX Access Codes (PGM 172)

PGM 172 assigns up to four (4) PBX Trunk Access codes used by the ip-60-60 when installed behind a PBX/Centrex.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 172.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 172	Flex Btn	Description	Default	Values
PBX Access Code	1 ~ 4	This parameter defines up to four (4) PBX Trunk Access codes used by ip-60-60 to determine when to activate COS on lines installed behind a PBX/Centrex	Not assigned	0 – 9, '*' and '#'

3.5.14   PLA Priority Setting (PGM 173)

PGM 173 defines the priority of incoming calls for Priority Line Answer.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 173.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 173	Flex Btn	Description	Default	Values
Transfer Call	*1*	*This parameter defines the relative priority of PLA for transferred calls.*	*1*	*1 – 4'*
Recall	*2*	*This parameter defines the relative priority of PLA for recalls.*	*2*	*1 – 4'*
Incoming Call	*3*	*This parameter defines the relative priority of PLA for incoming calls.*	*3*	*1 – 4'*
Queued Call	*4*	*This parameter defines the relative priority of PLA for queued calls.*	*4*	*1 – 4'*

3.5.15 RS-232C Port Setting (PGM 174)

PGM 174 defines the characteristics of the RS-232C and Modem (MODU) ports.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 174.

3. Select the desired Flexible button.
    Flexible button 1 = COM1 - RS-232C port
    Flexible button 2 = COM2 - Modem (MODU) port

4. Select desired parameter Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 174	Flex Btn	Description	Default	Values
BAUDRATE	1	This parameter defines the Baud Rate of the selected COM port.	6	0 = N/A 1 = N/A 2 = 1200 Baud 3 = 2400 Baud 4 = 4800 Baud 5 = 9600 Baud 6 = 19200 Baud 7 = 38400 Baud
CTS/RTS	2	This parameter enables CTS (Clear to Send)/RTS (Ready to Send) protocol for the COM port.	0 (Off)	0 = Off 1 = On

PGM 174	Flex Btn	Description	Default	Values
Page Break	3	When enabled (On), the system will insert a page break after printing the number of lines defined under Flexible button 4.	1 (On)	0 = Off 1 = On
Lines per Page	4	This parameter defines the number of lines-per-page the system will print before sending a Page Break signal, if enabled under Flexible button 3.	060	001 - 199

3.5.16   Print Port Selection (PGM 175)

PGM 175 defines the output port to receive specific system reports and information as well as the connection for certain software applications.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 175.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 175	Flex Btn	Description	Default	Values
Off-line SMDR/ Statistics Print	1	This parameter establishes the port for Off-line SMDR data output.	01 (COM1)	01 + COM 1 02 = COM 2 (MODU)
ADMIN Print	2	This parameter establishes the port for database outputs using PGM 451.	01 (COM1)	03 = Telnet 1
Traffic	3	This parameter establishes the port for Traffic Analysis data output.	01 (COM1)	04 = Telnet 2
SMDI Print	4	This parameter establishes the port for SMDI data output to an external AA/Voice Mail. Not supported in ip-60-60.		05 = Telnet 3
Call Information	5	This parameter establishes the port for Call information data output.	01 (COM1)	
Info/On-line SMDR	6	This parameter establishes the port for On-line SMDR data output.	01 (COM1)	
Trace	7	This parameter establishes the port for Trace data output.	01 (COM1)	
Debug	8	This parameter establishes the port for Debug data output.	01 (COM1)	
PC ADMIN	9	ip-60-60 automatically selects the PC Admin port, no entry required.	Auto	
PC Attendant	10	This parameter establishes the port for a PC Attendant connection.	08 (Net PC Attd)	01 + COM 1 02 = COM 2

PGM 175	Flex Btn	Description	Default	Values
				08 = Net PC Attd
CTI	11	This parameter establishes the port for a CTI data connection.	09 (Net CTI)	01 + COM 1
				02 = COM 2
				09 = Net CTI

3.5.17 Pulse Dial Ratio (PGM 176)

PGM 176 establishes the analog CO line out-pulse dial close to open ratio, 60/40 or 67/33.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 176.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 176	Flex Btn	Description	Default	Values
Pulse dial ratio		This parameter defines the close/open ratio for dial pulses on an analog CO line.	1 (67/33)	0 =60/40 1 = 67/33

3.5.18 SMDR Attributes (PGM 177)

PGM 177 defines characteristics for SMDR outputs and LD call definition.

Procedure:

1. Press the **[TRANS/PGM]** button.

2. Dial 177.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 177	Flex Btn	Description	Default	Values
SMDR Save Enable	1	When enabled (On), a maximum of 2000 SMDR records can be recorded in the System memory.	0 (Off)	0 = Off 1 = On
SMDR Print Enable	2	If this parameter is 'On', real-time SDMR data outputs through the port assigned in PGM 175, Flexible button 6.	0 (Off)	0 = Off 1 = On
Record Type	3	This parameter determines if All calls or only LD calls are recorded for SMDR. LD calls are defined by Flexible button 4 and 14.	1 (LD)	0 = All calls 1 = Long Distance
Long Distance Call Digit Counter	4	This parameter determines the number of digits for a Long Distance call; if the number of digits exceeds the assigned value, ip-60 considers the call Long Distance. Flexible button 14 defines LD codes.	07	07 ~ 15
Print Incoming Call	5	When enabled (On), the system will record incoming call records for SMDR output.	0 (Off)	0 = Off 1 = On
Print Lost Call	6	When enabled (On), lost calls are recorded for output over the assigned SMDR port. Lost calls are defined as calls that are unanswered or disconnect while on Hold.	0 (Off)	0 = Off 1 = On
Records in Detail	7	When enabled (On), detailed call records are stored in place of summary records. A	1 (On)	0 = Off

PGM 177	Flex Btn	Description	Default	Values
		maximum of 2000 detail records can be stored. If disabled (Off), only total calls, total metering count, and total cost for each station are stored.		1 = On
SMDR Dial Digit Hidden	8	This parameter defines the number of digits the system removes from the dialed number recorded for SMDR. Each removed digit is replaced with an "*" in the record. Digits are removed beginning from the left or right as defined in Flexible button 13.	0	0 - 9
SMDR Currency Unit	9	This parameter defines the currency unit for the call cost. The currency unit can be up to three (3) alphanumeric characters.	Not Assigned	3 alpha-numeric characters
SMDR Cost Per Unit Pulse	10	This parameter defines the cost per meter pulse unit, up to 6 digits. Flexible button 11 defines the decimal location of the cost per meter unit.	000000	6 digits
SMDR Fraction	11	This parameter defines the decimal location in the cost per meter unit beginning at the right-most digit and proceeding left 0 to 5 digits.	0	0 - 5
SMDR Start Timer	12	This parameter determines the minimum call duration of a call for SMDR. If the call duration is shorter than the assigned time, an SMDR record is not generated.	000 seconds	000 – 250 in 1-second increments
SMDR Hidden Digit	13	This parameter determines the order to hide SMDR dialed digits, right to left (Right) or left to right (Left). Flexible button 8 defines the number of digits to hide. Hidden digits are displayed as "*".	1 (Right)	0 = Left 1 = Right
SMDR Long Distance Codes	14	This parameter defines the Long Distance (LD) call codes; when dialed as the first digits, these codes indicate a Long distance call. When an LD code is dialed, an SMDR call record is generated. Five LD codes, each up to 2-digits, can be defined.	Flexible btn 1 = 1 Flexible btn 2-5 Not assigned	Flexible button1 ~ 5 Up to 2-digits each
MSN Print on SMDR	15	If this parameter is 'On', the MSN number is output as the station number in the SMDR record.	0 (Off)	0 = Off 1 = On
Print Caller Number	16	When enabled (On), the SMDR record for incoming calls will include the Caller Id.	0 (Off)	0 = Off 1 = On
Intercom SMDR Save	17	When enabled (On), Intercom call data is stored for output as part of the Off-line SMDR output.	0 (Off)	0 = Off 1 = On

PGM 177	Flex Btn	Description	Default	Values
Intercom SMDR Print	18	When enabled (On), Intercom call data is output as part of the On-line SMDR output.	0 (Off)	0 = Off 1 = On
SMDR Interface service	19	When enabled (On), the system will output SMDR data only upon request of an external software application.	0 (Off)	0 = Off 1 = On
I-SMDR connection type	20	This parameter assigns the connection between the system and the external application, Serial (RS-232) or LAN.	0 (Serial))	0 = Serial 1 = LAN
I-SMDR Author Index	21	When enabled (On), SMDR records sent to the external application software will include the Authorization code index in place of the actual Authorization code.	0 (Off)	0 = Off 1 = On

Dial Pad Character Map

1 – 10	**2** – 20	**3** – 30
'.' – 13	A – 21	D – 31
Q – 11	B – 22	E – 32
Z – 12	C – 23	F – 33
4 – 40	**5** – 50	**6** – 60
G – 41	J – 51	M – 61
H – 42	K – 52	N – 62
I – 43	L – 53	O – 63
7 – 70	**8** – 80	**9** – 90
P – 71	T – 81	W – 91
Q – 72	U – 82	X – 92
R – 73	V – 83	Y – 93
S – 74		Z – 94
✱ - ✱0	**0** – 00	#

Blank - ∗1 ':' - ∗2 ',' - ∗3		

3.5.19 System Time and Date (PGM 178)

PGM 178 sets the system Time and Date.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 178.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 178	Flex Btn	Description	Default	Values
Time	1	This parameter sets the current system Time.	00:00	4-digit
Date	2	This parameter sets the current Date for the system.	01/01/05	MM/DD/YY
DST	3	The system can support automatic Daylight Savings Time (DST) adjustment of the system clock.	0 (Off)	0 = Off 1 = On

Set DST Start	4	For DST, the start time for DST can be configured
		    Flexible button 1 = DST Start Month (00 – 12)
		    Flexible button 2 = DST Start Week (00 – 06)
		    Flexible button 3 = DST Start Day (00 – 07)
		    Flexible button 4 = DST Start Time (00 – 24)
			Start Month = 3
			Start Week = 2
			Start Day = 07
			Start Time = 02	

Set DST End	5	For DST, the end time for DST can be configured
		    Flexible button 1 = DST End Month (00 – 12)
		    Flexible button 2 = DST End Week (00 – 06)
		    Flexible button 3 = DST End Day (00 – 07)
		    Flexible button 4 = DST End Time (00 – 24)
			End Month = 11
			End Week = 1
			End Day = 07
			End Time = 02	

3.5.20 Linked Station Pairs (PGM 179)

PGM 179 defines Linked Station pairs; the Linked pair stations act as a single station with a single station number.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 179.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 179	Flex Btn	Description	Default	Values
Display Linked Pairs	1	This Flexible button displays the Linked Pair stations, use the Volume Up/Down buttons to navigate.		
Linked Pairs	2	This parameter assigns two stations as a Linked pair with the properties of the first station (Main) entered for the pair. The Main station of a Linked Pair having a wireless station must be the wired station.	None assigned	Two station numbers, Main & linked

3.5.21   System Timers (PGM 180-184)

3.5.21.1 System Timers I (PGM 180)

PGM 180 is one of three PGMs used to define timers that affect system wide operations. See also PGM 181 and 182.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 180.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 180	Flex Btn	Description	Default	Values
Attendant Recall Timer	1	This parameter sets the duration a call recalls to the Attendant before it is disconnected. Calls can recall from Hold, Transfer, etc.	01 minutes	00 ~ 60 in 1 minute increments
Call Park Recall Timer	2	This parameter sets the duration a call will remain parked before recalling the station that parked the call.	120 seconds	00 ~ 600 in 1 second increments
Camp On Recall Timer	3	This parameter sets the duration a transferred call will remain camped on to a station before recalling the transferring station.	030 seconds	000 ~ 200 in 1 second increments
Exclusive Hold Recall Timer	4	This parameter sets the duration a call will remain on Exclusive hold before recalling the station that placed the call on hold.	060 seconds	000 ~ 300 in 1 second increments
I-Hold Recall Timer	5	This parameter sets the duration the station will receive recall before the Attendant will also receive the recall.	030 seconds	000 ~ 300 in 1 second increments
Sys Hold Recall Timer	6	This parameter sets the duration a call will remain on System hold before recalling the station that placed the call on hold.	030 seconds	000 ~ 300 in 1 second increments

PGM 180	Flex Btn	Description	Default	Values
Transfer Recall Timer	7	This parameter sets the duration transferred calls ring the intended receiver before recalling the transferring station.	030 seconds	000 ~ 300 in 1 second increments
ACNR Delay Timer	8	When no CO line is available for an ACNR attempt, this parameter sets the delay before ACNR reattempts access to a CO line. This will not affect the retry counter.	030 seconds	000 ~ 300 in 1 second increments
ACNR No Answer Timer	9	This parameter sets the duration of ringback tone before an ACNR attempt terminates, the call disconnects and the retry counter increments.	30 seconds	01 ~ 50 in 1 second increments
ACNR Pause Timer	10	This parameter sets the time between ACNR attempts, at expiration the ip-60 attempts ACNR.	030 seconds	005 to 300 in 1 second increments
ACNR Retry Counter	11	This parameter determines the number of attempts the system will make for a given ACNR request. After the assigned number of attempts, ip-60 cancels the ACNR request.	03	01 ~ 30
ACNR No Tone Retry Counter	12	This parameter determines the maximum number of times ACNR attempts to secure a CO line. If a CO line is not seized (all lines busy or out-of-service), ip-60 cancels the ACNR request.	1	1 ~ 9
ACNR Tone Detect Timer	13	This parameter sets the duration the system will monitor the CO line for valid call progress tones. If ip-60 detects busy or reorder tone or the timer expires, the attempt terminates, the CO line disconnects and the retry counter increments.	030 seconds	000 ~ 300 in 1 second increments
Automatic CO Release Timer	14	This parameter sets the duration the system will wait for a user to dial on an outgoing CO line call. If the timer expires, the call attempt terminates and the station receives error tone.	030 seconds	020 ~ 300 in 1 second increments
CCR Inter-digit Timer	15	This parameter sets the duration the system will wait between dialed digits for a CCR or DISA/DID CO call. After the timer expires, the call is routed based on the received digits.	030 (3 seconds)	000 ~ 255 in 100 mill-second increments
CO Call Drop Warning Timer	16	This parameter sets the duration a Prepaid or Unsupervised Conference call remains connected after receiving Call Drop Warning Tone. After this timer expires, the call	10 seconds	00 ~ 99 in 1 second increments

PGM 180	Flex Btn	Description	Default	Values
		drops. Also, see Flexible button 22.		
Reserved	17			
CO Dial Delay Timer	18	This parameter defines a delay before dialed digits are sent by the system over analog CO/PBX lines. Due to slow response of certain PSTN and PABX circuits, it is possible to begin dialing before the circuit is ready to accept and register digits. In order to minimize restricted dialing and misdialing, any digits dialed prior to the timer expiration are buffered and sent when the delay timer expires.	01 (100 milli-seconds)	00 ~ 99 in 100 mill-second increments
CO Release Guard Timer	19	This parameter determines the duration a CO line will remain unavailable after disconnect to allow the network to 'clear-down' the call.	020 (2 seconds)	001 ~ 150 in 100 mill-second increments
CO Ring Off Timer	20	This parameter sets the maximum Ring-off signal before the call is considered abandoned. The ip-60 considers shorter periods a continuation of the alerting cycle for the incoming call.	060 (6 seconds)	010 ~ 150 in 100 mill-second increments
CO Ring On Timer	21	This parameter sets the minimum Ring-on signal duration the system will detect as an incoming CO call. The ip-60 considers shorter periods a spurious signal.	2 (200 milli-seconds)	1 ~ 9 in 100 milli-second increments
CO Warning Tone Timer	22	This parameter sets the amount of time before receiving a warning tone as a reminder of the elapsed call time on an outgoing CO line conversation. (Intended for Korea only)	180 seconds	060 ~ 900 in 1 second increments
Reserved	23			
2nd Call Alert Timer	24	When a busy SLT receives a 2nd call, the station receives a call waiting tone a intervals of the 2nd Call Alert timer.		

3.5.21.2 System Timers II (PGM 181)

PGM 181 is one of three PGMs used to define timers that affect system wide operations. See also PGM 180 and 182.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 181.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 181	Flex Btn	Description	Default	Values
Call Forward No Answer Timer	1	This parameter sets the No-answer Forward time, if No-answer Call Forward is active at the station, when the timer expires the call is rerouted to the designated destination.	015 seconds	000 ~ 255 in 1 second increments
DID/DISA No Answer Timer	2	This parameter sets the time a DID/DISA call will ring the station before it is rerouted to the DID/DISA No-answer destination (PGM 167, Flexible button 3).	25 seconds	00 ~ 99 in 1 second increments
VMIB User Record Timer	3	This parameter determines the maximum duration of the user recorded greeting for the VMIB Voice Mail. Longer greetings cannot be stored.	020 seconds	010 ~ 255 in 1 second increments
VMIB Valid User Message Timer	4	This parameter establishes the minimum duration the ip-60 will recognize as a legitimate Voice Mail, shorter messages are discarded. If set to '0', a message cannot be recorded in the VMIB.	4 seconds	0 ~ 9 in 1 second increments
Door Open Time	5	This parameter sets the duration the Door Open contact will remain activated when a station dials the Door Open code.	20 (2 seconds)	05 ~ 99 in 100 milli-second increments
ICM Box Timer	6	This parameter sets the duration a station receives Door Phone ring when the Door Phone 'Call' button is pressed.	30 seconds	00 ~ 60 in 1 second increments

PGM 181	Flex Btn	Description	Default	Values
ICM Dial Tone Timer	7	This parameter sets the duration Intercom dial tone is provided to the user. When the timer expires, the call is abandoned and the system returns error tone.	10 seconds	01 ~ 20 In 1 second increments
Inter-digit Timer	8	This parameter sets the duration the system permits the user between dialed digits on an internal call. When the timer expires, the call is abandoned and the system returns error tone.	05 seconds	01 ~ 20 in 1 second increments
MSG Wait Reminder Tone Timer	9	This parameter sets the duration between Msg Wait reminder alerts; a '00' setting disables the reminder tone.	00 (disabled)	00 ~ 60 in 1 minute increments
Paging Timeout Timer	10	This parameter sets the duration of a Page. When the time expires, the Page disconnects and returns the Internal/External Page Zone to idle. A setting of '000' disables the timer.	015 seconds	000 ~ 255 in 1 second increments
Pause Timer	11	This parameter sets the time the ip-60 waits before sending digits on a CO line when a Pause is encounter in a Speed Dial number. The Pause Time is also used for LNR and other automatic dialing.	3 seconds	1 ~ 9 in 1 second increments
Preset Call Forward Timer	12	This parameter sets the duration CO Line calls signal the assigned station before reroute to the Preset Forward destination (see PGM 121).	25 seconds	00 ~ 99 in 1 second increments
SLT DTMF Release Timer	13	This parameter sets the duration that a DTMF receiver is connected to the SLT port. When set to 0, the DTMF receiver will release if no digits are dialed for the inter-digit time, button 8, remains connected for the duration of the call.	00 (disabled)	00 ~ 60 in 1 second increments
3 SOFT Auto Release Timer	14	This parameter determines the duration a Softkey menu is displayed before returning to the idle menu.	05 seconds	01 ~ 30 in 1 second increments
VM Pause Timer	15	This parameter sets the duration of a Pause when required for an external Voice Mail.	30 (3 seconds)	01 ~90 in 100 milli-second increments
Transit Connect Timer	16	This parameter defines the time delay when a networked system returns a connect message to a system requesting use of an analog pulse dial CO line to allow the CO	04 seconds	01 ~ 30 in 1 second increments

PGM 181	Flex Btn	Description	Default	Values
		line to setup before receiving digits.		
VMIB Message Rewind Timer	17	This parameter determines the length of time the system will rewind a voice message using the Message Rewind function in the VMIB.	03 seconds	01 ~ 99 in 1 second increments
LCO Connect Timer	18	If this timer expires after starting outgoing dial, the system regards the call as connected. At expiration, any further dialed digits are ignored for the purposes of redial. In this way, digits, which may be dialed into an automated service such as banking, are not stored in the Last Number Redial buffer.	00 (disabled)	00 ~ 30 in 1 second increments
LCO CPT Detect Timer	19	This parameter sets the duration the system periodically removes the CPT detector from a CO line that is transferred or forwarded to another CO line. After the assigned time, a CPT detector is connected to the CO line to detect busy or error tone for 7 seconds. The detector is then removed from the line and reconnected at expiration of the timer. This process continues until the connection is terminated. This timer applies to Busy/Error CPT in PGM 142, Flexible button 18.	05 seconds	00 ~ 20 in 1 second increments
Forward To VMIB Timer	20	This parameter sets the duration a station receives ring before the call forwards to the VMIB when Auto Forward To VMIB (PGM113, Flexible button 14) is enabled.	20 seconds	01 ~ 60 in 1 second increments

3.5.21.3 System Timers III (PGM 182)

PGM 182 is one of three PGMs used to define timers that affect system wide operations. See also PGM 180 and 181.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 182.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 182	Flex Btn	Description	Default	Values
SLT Hook Switch Bounce Timer	*1*	*This parameter defines the duration of a hook-switch transition considered a spurious signal and ignored. If the signal is stable for a period longer than the bounce time, it is considered a valid hook switch transition.*	01 (100 milli-seconds)	*01 ~ 25 in 100 milli-second increments*
SLT Maximum Hook Flash Timer	*2*	*This parameter sets the maximum duration of a Flash (new dial tone request) from an SLT. An open hook switch signal longer than the maximum is considered a disconnect signal from the SLT.*	075 (750 milli-seconds)	*001 ~ 250 in 10 milli-second increments*
SLT Minimum Hook Flash Timer	*3*	*This parameter defines the minimum duration of a Flash (new dial tone request) for the ip-60 to register the Flash signal otherwise the signal is consider a spurious signal.*	020 (200 milli-seconds)	*000 ~ 250 in 10 milli-second increments*
SLT Ring Phase Timer	*4*	*This parameter defines the overall duration of ring signal sent to an SLT port. The Ring-on period is fixed at 1 second. The remaining time is the Ring-off period. The default is 1 second Ring-on and 4 seconds Ring-off for a total duration of 5 seconds.*	5 seconds	*2 ~ 5 in 1 second increments*
Station Auto Release Timer	*5*	*This parameter sets the length of time a station receives intercom Ring Back tone before the call attempt is abandoned and error tone provided to the station. Also, the*	060 seconds	*020 ~ 300 in 1 second increments*

PGM 182	Flex Btn	Description	Default	Values
		station will receive Park recall for the Auto Release Timer.		
Unsupervised Conference Timer	6	This parameter sets the timer that controls the duration of an Unsupervised Conference or other CO line to CO line connections.	10 minutes	0 ~ 99 in 1 second increments
Wake-up Fail Ring Timer	7	This parameter defines the duration of ring the System Attendant receives when a user fails to respond to a Wake-up ring. A setting of '00' disables the Wake-up Fail Attendant alert.	20 seconds	00 to 99 in 1 seconds increments
Warm Line Timer	8	This parameter sets the length of time the user may activate a feature or access a CO line before the system activates the Warm line assignment. Also, see PGM 113, Flexible button 7 and PGM 122	05 seconds	01 ~ 20 in 1 second increments
Wink Timer	9	This parameter defines the duration of the Wink acknowledgement signal returned by the system to a DID CO line.	010 (100 milli-seconds)	010 ~ 200 in 10 milli-second increments
Enblock Digit Timer	10	This parameter determines the inter-digit time when Enblock dialing (PGM 143, Flexible button 6) is enabled. When the timer expires, the system sends all digits dialed in the call set-up message.	05 seconds	01 ~ 20 in 1 second increments
CCR Time Out Timer	11	This parameter defines the first and inter-digit time for a caller after receiving a CCR Greeting. When the timer expires and the user dials no additional digit, the call is routed using the digits dialed and the CCR table (PGM 228) routing.	015 seconds	000 ~ 300 in 1 second increments
DID Inter Digit Timer	12	This parameter defines the length of time the system waits for each digit from a DID CO line. When the timer expires, the system routes the call based on the DID process defined.	05 seconds	01 ~ 20 in 1 second increments
FAX Tone Detect Timer	13	This parameter sets the time interval allowed for the system to detect FAX tone on a CO line assigned for FAX mode, refer to PGM 161, Flexible button 17. After the timer expires, the call is routed with ring to assigned stations.	05 seconds	01 ~ 10 in 1 second increments
FAX CO Call Timer	14	This parameter sets the time interval allowed for the FAX station port (8th station port) to answer a FAX call. After expiration of the timer, the call is disconnected.	1 minute	1 ~ 5 in 1 minute increments

3.5.22   In-Room Indication (PGM 183)

PGM 183 defines the Supervisor for In-Room groups and members that receive the In-Room indication.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 183.

3.   Enter the In-Room Table index (01 ~ 10)

4.   Select the desired Flexible button.
     For Member assignment press Flexible button 2 then select a Flexible button, 1 ~ 4, for up to four (4) members.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 183	Flex Btn	Description	Default	Values
In-Room Group Supervisor	1	This parameter defines the In-Room group (01 to 10) Supervisor station that will control the In-Room indication for the group.	Not assigned	Station number of Supervisor
In-Room Group Member	2	This parameter assigns members to an In-Room Group, maximum 4 members. The members' In-Room button illuminates when the Supervisor activates the In-Room indicator by pressing the Supervisor's In-Room button.	Not assigned	Flexible button 1 ~ 4 Station number

3.5.23   Chime Bell Attributes (PGM 184)

PGM 184 defines the Chime Bell station pairs and the Chime Bell signal characteristics.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 184.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 184	Flex Btn	Description	Default	Values
Chime Bell Station Pair	1	This parameter defines the Chime Bell pair (01 ~ 14); the first station activates the Chime Bell and the second station receives the Chime Bell signal.	Not assigned	01 ~ 14 + station pair
Chime Bell Relay	2	This parameter assigns a Chime Bell pair (01 ~ 14) to activate an External Control Relay as a Loud Bell contact.	Not assigned	01 ~ 14 + External Control Relay, 0 ~ 2
Bell Timer	3	This parameter determines the duration of the Chime Bell signal at the receiving station. The same timer is used for all 14 Chime Bell pairs	02 seconds	01 ~ 20 in 1 second increments
Bell Frequency	4	This parameter defines two frequency components that make up the Chime Bell signal. The same Chime Bell frequencies are used for all 14 Chime Bell pairs. Use Flexible button 1 for T1 and Flexible button 2 to set T2.	T1 0770 T2 0000	T1 = 4 digits in Hz T2 = 4 digits in Hz

3.6   DCOB ATTRIBUTE (PGM 186–PGM 187)

3.6.1   DCOB Attributes I (PGM 186)

PGM 186 is one of several programs that define attributes of digital (E1R2) lines, also see PGM 187.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 186.

3.   Enter the appropriate CO Line range

4.   Select the desired Flexible button.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 186	Flex Btn	Description	Default	Values
DCOB TYPE	1	See PGM 187, Flexible button 4		
Metering Type	2	When enabled (On), this parameter enables the use of Call Metering signals. Also, see PGM 142, Flexible buttons 3.	0 (Off)	0 = Off 1 = On
R2 OUT Manage Timer	3	This parameter sets the time the system will wait for a "backward signal" from an E1R2 CO line after sending a "forward signal" on an outgoing call.	14 seconds	01 ~ 50 in 1 second increments
R2 IN Manage Timer	4	This parameter sets the time the system will wait for a "forward signal" from an E1R2 CO line after sending a "backward signal" on an incoming call.	14 seconds	01 ~ 50 in 1 second increments
R2 Disappear Timer	5	This parameter defines the duration the system will allow to complete R2 signaling.	14 seconds	01 ~ 50 in 1 second increments
R2 Pulse Timer	6	This parameter sets the duration of pulse dial signals sent over an E1R2 Co line.	07 (140 milli-	01 ~ 30 in 20-milli-

PGM 186	Flex Btn	Description	Default	Values
			seconds)	second increments
R2 Ready Timer	7	This parameter determines the time between receipt of a line seize and seize acknowledge signal for an incoming call.	007 (140 milli-seconds)	000 ~ 500 in 20-milli-second increments
Dial Tone Delay Timer	8	not used		
Line Status	9	This parameter defines the code the system will send to indicate idle line status in accordance with E1R2 specifications.	6	1 ~ 9
Calling Category	10	This parameter defines the code sent in response to a call category request from the network in accordance with E1R2 specifications.	1	1 ~ 9
ANI Request	11	When enabled (On), in accordance with E1R2 specifications, the system will request ANI (Automatic Number Identification) from the network as the CLI for the call.	0 (Off)	0 = Off 1 = On
CLI Digit Num	12	not used		
R2 OUT DIGIT TIMER	13	This parameter sets the Inter-digit time for R@ signaling on a digital CO line.	05 seconds	01 ~ 50 in 1-second increments
R2 ERROR PROMT USAGE	14	When enabled (On), the system will play the VMIB error announcement when an error occurs on an R2 outgoing call. If no VMIB announcement is available, the system sends error tone.	0 (Off)	0 = Off 1 = On
R2 BUSY PROMT USAGE	15	When enabled (On), the system will play the VMIB busy announcement when a busy condition occurs on an R2 outgoing call. If no VMIB announcement is available, the system sends busy tone.	0 (Off)	0 = Off 1 = On
R2 ANNOUNCE PROMT USAGE	16	When enabled (On) and the R2 line returns an ANNOUNCE message indicating the destination number is invalid, etc., the VMIB error announcement is played. If no VMIB announcement is available, the system sends error tone.	0 (Off)	0 = Off 1 = On
DCO Gain	17	This parameter defines the gain used to supply R2MFC tones to the digital CO line over the voice path.	32	01 ~ 63

3.6.2 DCOB Attributes II (PGM 187)

PGM 187 is one of several programs that define attributes of digital (E1) lines, also see PGM 186

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 187.

3. Enter the appropriate CO Line range

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 187	Flex Btn	Description	Default	Values
In-Digit Type	1	This parameter defines the type of incoming signaling from a digital CO line.	2 (R2MFC)	0 = Pulse 1 = DTMF 2 = R2MFC
Out-Digit Type	2	This parameter defines the type of outgoing signaling provided on digital CO lines.	2 (R2MFC)	0 = Pulse 1 = DTMF 2 = R2MFC
CLI Digit Number	3	This parameter defines the number of digits expected as the Calling Line Identification from digital CO lines.	10	CO line range + 1 ~ 15 digits, 0 - 9
DCOB TYPE	4	This parameter determines if the digital CO lines support both-way calling protocols of Sweden or Italy, or one-way protocols according to Korea standards.	2	0 = Sweden/Cyprus 1 = Italy 2 = Korea/Australia
Send S-Block Command	5	Not used		0 = Off 1 = On

3.7 Station Group (PGM 190 – PGM 191)

3.7.1 Station Group Assignments (PGM 190)

PGM 190 assigns the type of Station group, member stations, and the Pick-up attribute for each Station Group.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 190.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 190	Flex Btn	Description	Default	Values
Group Type	1	This parameter determines the type of Station or Hunt Group.	Not assigned	0 = Not Assigned 1 = Circular 2 = Terminal 3 = UCD 4 = Ring 5 = VM 6 = Pick up 7 = Networking VM
Pick up Attribute	2	When enabled (On), stations in the group can Pick-up calls for other stations in the group. The Pick-up attribute has no affect on Station Pick-up groups.	0 (Off)	0 = Off 1 = On
Member	3	This parameter assigns stations to the group. Stations are assigned individually by	None assigned	Flexible button 1 ~ 24

PGM 190	Flex Btn	Description	Default	Values
Assignment		selecting a Flexible button or as a range. Use the Volume Up/Down button to scroll the list of stations.		+ station number or Enter a station range

3.7.2　Station Group Attributes (PGM 191)

PGM 191 defines the attributes of each Station Group based on the Type of group (PGM 190) as shown in sections 3.7.2.1 ~ 3.7.2.6.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 191.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

3.7.2.1　Circular & Terminal Hunt Group Attributes

PGM 191 Circular/Terminal	Flex Btn	Description	Default	Values
VMIB Announce 1 Timer	1	This parameter defines the time the system waits to automatically answer an incoming call and play the assigned VMIB announcement (Flexible button 3)	015 seconds	000 ~ 999 in 1 second increments
VMIB Announce 2 Timer	2	This parameter defines the time the system waits after playing the first announcement to play the assigned VMIB announcement 2 (Flexible button 4) to a queued call.	000 seconds	000 ~ 999 in 1 second increments
VMIB Announce 1 Location	3	This parameter assigns the VMIB announcement number to play when the VMIB Announce 1 timer (Flexible button 1) expires.	Not assigned	00 ~ 70
VMIB Announce 2 Location	4	This parameter assigns the VMIB announcement number to play when the VMIB announce 2 timer (Flexible button 2) expires.	Not assigned	00 ~ 70
VMIB Announce 2 Repeat Timer	5	This parameter sets the interval between the playbacks of VMIB Announcement 2 when repeating (Flexible button 6) is enabled.	000 seconds	000 ~ 999 in 1 second increments
VMIB Announce 2 Repeat	6	When enabled (On), the ip-60 will repeat the VMIB Announcement 2 (Flexible button 4) at intervals (Flexible button 5) to queued calls.	0 (Off)	0 = Off 1 = On

PGM 191 Circular/Terminal	Flex Btn	Description	Default	Values
Enable/Disable				
Overflow Destination	7	When assigned, calls to a station in the group queue until answered or each station in the group has been tried. The call remains at the last station in the group or routes to the overflow destination after the Overflow timer (Flexible button 8) expires.	Not assigned	1 = Station # 2 = Hunt # 3 = VMIB 00-70 (00: disable) 4 = System Speed # (2000-2499)
Overflow Timer	8	This parameter sets the interval a call will queue to a group before routing to the Overflow destination (Flexible button 7).	180 seconds	000 ~ 600 in 1 second increments
Wrap-up Timer	9	This parameter sets the duration a station remains unavailable after completing a call.	002 seconds	000 ~ 999 in 1 second increments
No Answer Timer	10	This parameter sets the duration a station receives ring before the call is routed to the next idle station in the group.	15 seconds	00 ~ 99 in 1 second increments
Pilot Hunt	11	If this parameter is enabled (On), calls to a member that are not answered route to the Hunt Group. A circular/terminal hunt group can be assigned with a pilot number so that only calls to the pilot number route to the Hunt Group.	1 (On)	0 = Off 1 = On
Alt If No Member	12	When enabled (On), if a member is not on duty, intercom calls drop and CO incoming calls route to the assigned Alternate destination, Flexible button 14.	0 (Off)	0 = Off 1 = On
Music Source	13	This parameter determines if a queued caller receives Ringback tone or MOH.	0	0 = Not assigned 1 = Internal Music 2 = External Music 3 = Not in ip-60-60 4-8 = SLT MOH 9 = Hold tone
Alt Destination	14	This parameter assigns the Alternate destination when calls are received and no	Not assigned	1 + station number

PGM 191 Circular/Terminal	Flex Btn	Description	Default	Values
		members are on-duty or all members are busy. Alternate destination routing must be enabled, see Flexible button 12.		2 + Hunt Group
MAX Queue Count	15	This parameter determines the maximum number of calls that can queue to the Group. When the queued calls exceed the Maximum Queued Call Count, additional calls are ignored.	99	00 ~ 99
Hunt Member forward	16	When enabled (On), a member with Call Forward active will not receive Hunt Group calls; the member is considered unavailable for group calls.	1 (On)	0 = Off 1 = On
Queue Count Display	17	When enabled (On), the LCD of member stations displays the Queue Call Count.	1 (On)	0 = Off 1 = On
Group Name Assign	18	This parameter assigns a name, maximum 12 characters, to the group.	Not assigned	12 Characters
Call Coverage	19	The Call Coverage parameter enables coverage for the Hunt Group. A Call Coverage Flexible button at a covering station for the group will be active. The covering station must have a Coverage button set using Station User Program codes, 46 and group number. Flexible button 1 = On/Off Flexible button 2 = Delay Ring Cycle	Button 1 = 0 (Off) Button 2 = 0	0 = Off 1 = On 0 ~ 9 cycles

3.7.2.2 ACD/UCD Hunt Group Attributes

PGM 191 ACD/UCD	Flex Btn	Description	Default	Values
VMIB Announce 1 Timer	1	This parameter defines the time the system waits to automatically answer an incoming call and play the assigned VMIB announcement (Flexible button 3)	015 seconds	000 ~ 999 in 1 second increments
VMIB Announce	2	This parameter defines the time the system waits after playing the first	000 seconds	000 ~ 999 in 1

PGM 191 ACD/UCD	Flex Btn	Description	Default	Values
2 Timer		announcement to play the assigned VMIB announcement 2 (Flexible button 4) to a queued call.		second increments
VMIB Announce 1 Location	3	This parameter assigns the VMIB announcement number to play when the VMIB Announce 1 timer (Flexible button 1) expires.	Not assigned	00 ~ 70
VMIB Announce 2 Location	4	This parameter assigns the VMIB announcement number to play when the VMIB announce 2 timer (Flexible button 2) expires.	Not assigned	00 ~ 70
VMIB Announce 2 Repeat Timer	5	This parameter sets the interval between the playbacks of VMIB Announcement 2 when repeating (Flexible button 6) is enabled.	000 seconds	000 ~ 999 in 1 second increments
VMIB Announce 2 Repeat	6	When enabled (On), the ip-60 will repeat the VMIB Announcement 2 (Flexible button 4) at intervals (Flexible button 5) to queued calls.	0 (Off)	0 = Off 1 = On
Overflow Destination	7	When assigned, calls to a station in the group queue until answered or each station in the group has been tried. The call remains at the last station in the group or routes to the overflow destination after the Overflow timer (Flexible button 8) expires.	Not assigned	1 = Station # 2 = Hunt # 3 = VMIB 00-70 (00: disable) 4 = System Speed # (2000-2499)
Overflow Timer	8	This parameter sets the interval a call will queue to a group before routing to the Overflow destination (Flexible button 7).	180 seconds	000 ~ 600 in 1 second increments
Wrap-up Timer	9	This parameter sets the duration a station remains unavailable after completing a call.	002 seconds	000 ~ 999 in 1 second increments
Alt If No Member	10	When enabled (On), if a member is not on duty, intercom calls drop and CO incoming calls route to the assigned Alternate destination, Flexible button 13.	0 (Off)	0 = Off 1 = On
Music Source	11	This parameter determines if a queued caller receives Ringback tone or MOH.	0	0 = Not assigned 1 = Internal Music 2 = External Music

PGM 191 ACD/UCD	Flex Btn	Description	Default	Values
				3 = Not in ip-60-60 4-8 = SLT MOH 9 = Hold tone
ACD Warning Tone	12	When enable (On), if an ACD Supervisor intrudes on a busy group member, a tone, indicating the intrusion is provided to the call parties.	1 (On)	0 = Off 1 = On
Alternate destination	13	This parameter assigns the Alternate destination when calls are received and no members are on-duty or all members are busy.	Not assigned	1 + station number 2 + Hunt Group
Supervisor Timer	14	This parameter defines the delay before the Supervisor DKT LCD displays the queued call count if the number of calls exceeds the Supervisor Call Count, see Flexible button 15.	030 seconds	000 ~ 999
Supervisor Call Count	15	This parameter defines the number of queued calls that activates the Supervisor timer (Flexible button 14) for display of the queued call count. A setting of '00' disables the Supervisor Call Count feature.	00 (disabled)	00 ~ 99
ACD Queued Call	16	When enabled (On), the Supervisor DKT LCD will display the Queued call count for the group.	1 (On)	0 = Off 1 = On
Max Queued Call Count	17	This parameter determines the maximum number of calls that can queue to the Group. When the queued calls exceed the Maximum Queued Call Count, additional calls are ignored.	99	00 ~ 99
Supervisor	18	This parameter assigns a station as the ACD Group Supervisor.	Not Assigned	Station number
UCD hunt Stations' Priority	19	This parameter determines the priority of the member from 0, the highest priority to 9 the lowest priority. Members with higher priority receive group calls before lower priority members.	Not assigned	Flexible button 1 ~ 48 + 1 ~ 9
Hunt Member forward	20	When enabled (On), a member with Call Forward active will not receive Hunt Group calls; the member is considered unavailable for group calls.	1 (On)	0 = Off 1 = On
UCD DND Timer	21	This parameter sets the duration a station will receive ring before the system places	000 seconds	000 ~ 999in 1 second

PGM 191 ACD/UCD	Flex Btn	Description	Default	Values
		the station in UCD DND and unavailable for group calls. A setting of '00' disables automatic ACD DND.		increments
Queued call Tone	22	When enabled (On), the first group member assigned in Program 190 for the group receives a single 0.4 second burst of muted ring when a call is queued to the group.	0 (Off)	0 = Off 1 = On
Group Name Assign	23	This parameter assigns a name, maximum 12 characters, to the group.	Not assigned	12 Characters
Call Coverage	24	The Call Coverage parameter enables coverage for the Hunt Group. A Call Coverage Flexible button at a covering station for the group will be active. The covering station must have a Coverage button set using Station User Program codes, 46 and group number. Flexible button 1 = Hunt Coverage Mode On/Off Flexible button 2 = Delay Ring Cycle	Button 1 =0 (Off) Button 2 = 0	0 = Off 1 = On 0 ~ 9 cycles

3.7.2.3 Ring Group Attributes

PGM 191 Ring	Flex Btn	Description	Default	Values
VMIB Announce 1 Timer	1	This parameter defines the time the system waits to automatically answer an incoming call and play the assigned VMIB announcement (Flexible button 3)	015 seconds	000 ~ 999 in 1 second increments
VMIB Announce 2 Timer	2	This parameter defines the time the system waits after playing the first announcement to play the assigned VMIB announcement 2 (Flexible button 4) to a queued call.	000 seconds	000 ~ 999 in 1 second increments
VMIB Announce 1 Location	3	This parameter assigns the VMIB announcement number to play when the VMIB Announce 1 timer (Flexible button 1) expires.	Not assigned	00 ~ 70
VMIB Announce	4	This parameter assigns the VMIB announcement number to play when the VMIB	Not assigned	00 ~ 70

PGM 191 Ring	Flex Btn	Description	Default	Values
2 Location		announce 2 timer (Flexible button 2) expires.		
VMIB Announce 2 Repeat Timer	5	This parameter sets the interval between the playbacks of VMIB Announcement 2 when repeating (Flexible button 6) is enabled.	000 seconds	000 ~ 999 in 1 second increments
VMIB Announce 2 Repeat	6	When enabled (On), the ip-60 will repeat the VMIB Announcement 2 (Flexible button 4) at intervals (Flexible button 5) to queued calls.	0 (Off)	0 = Off 1 = On
Overflow Destination	7	When assigned, calls to a station in the group queue until answered or each station in the group has been tried. The call remains at the last station in the group or routes to the overflow destination after the Overflow timer (Flexible button 8) expires.	Not assigned	1 = Station # 2 = Hunt # 3 = VMIB 00-70 (00: disable) 4 = System Speed # (2000-2499)
Overflow Timer	8	This parameter sets the interval a call will queue to a group before routing to the Overflow destination (Flexible button 7).	180 seconds	000 ~ 600 in 1 second increments
Wrap-up Timer	9	This parameter sets the duration a station remains unavailable after completing a call.	002 seconds	000 ~ 999 in 1 second increments
Music Source	10	This parameter determines if a queued caller receives Ringback tone or MOH.	0	0 = Not assigned by this field. 1 = Internal Music 2 = External Music 3 = Not in ip-60-60 4-8 = SLT MOH 9 = Hold tone
Max. Queued Call Count	11	This parameter determines the maximum number of calls that can queue to the Group. When the queued calls exceed the Maximum Queued Call Count, additional calls are ignored.	99	00 ~ 99

PGM 191 Ring	Flex Btn	Description	Default	Values
VMIB Supervisor	12	Not used		
Hunt Member forward	13	When enabled (On), a member with Call Forward active will not receive Hunt Group calls; the member is considered unavailable for group calls.	1 (On)	0 = Off 1 = On
Queue Count Display	14	When enabled (On), the LCD of member stations displays the Queue Call Count.	1 (On)	0 = Off 1 = On
Group Name Assign	15	This parameter assigns a name, maximum 12 characters, to the group.	Not assigned	12 Characters
Call Coverage	16	The Call Coverage parameter enables coverage for the Hunt Group. A Call Coverage Flexible button at a covering station for the group will be active. The covering station must have a Coverage button set using Station User Program codes 46 and group number. Flexible button 1 = Hunt Coverage Mode On/Off Flexible button 2 = Delay Ring Cycle	Button 1 = 0 (Off) Button 2 = 0	0 = Off 1 = On 0 ~ 9 cycles

3.7.2.4   VM Group Attributes

PGM 191 External VM	Flex Btn	Description	Default	Values
Wrap-up Timer	1	This parameter sets the duration a station remains unavailable after completing a call.	002 seconds	000 ~ 999 in 1 second increments
Put Mail Index	2	This parameter defines the index in the Voice Mail dialing table for the Put mail code.	1	1 ~ 4
Get Mail Index	3	This parameter defines the index in the Voice Mail dialing table for the Get mail code.	2	1 ~ 4
Hunt Type	4	This parameter defines the type of Hunt Group, Circular or Terminal, for the VM group.	0 (Terminal)	1 = Circular 2 = Terminal

PGM 191 External VM	Flex Btn	Description	Default	Values
SMDI Port	5	Not available in the ip-60-60		
Overflow Timer	6	This parameter sets the interval a call will queue to a group before routing to the Overflow destination (Flexible button 7).	180 seconds	000 ~ 600 in 1 second increments
Overflow Destination	7	When assigned, calls to a station in the group queue until answered or each station in the group has been tried. The call remains at the last station in the group or routes to the overflow destination after the Overflow timer (Flexible button 6) expires.	Not assigned	1 = Station # 2 = Hunt # 3 = VMIB 00-70 (00: disable) 4 = System Speed # (2000-2499)
Group Name Assign	8	This parameter assigns a name, maximum 12 characters, to the group.	Not assigned	12 Characters

3.7.2.5   Pick-up Group Attributes

PGM 191 Pick-up	Flex Btn	Description	Default	Values
Auto Pickup	1	When enabled (On), member stations can answer calls at other member stations by going off-hook.	0 (Off)	0 = Off 1 = On
All Ring	2	When enabled (On), all member stations ring when any member receives an intercom call. Auto Pick-up, Flexible button 1, must be enabled.	0 (Off)	0 = Off 1 = On

3.7.2.6   Network VM Group Attributes

PGM 191 Network VM	Flex Btn	Description	Default	Values
Group Name Assign	1	This parameter assigns a name, maximum 12 characters, to the group.	Not assigned	12 Characters

3.8   ISDN System Base Programs (PGM 200 – PGM 202)

3.8.1   System ISDN Attributes (PGM 200)

PGM 200 defines parameters that affect ISDN CO line operation system-wide.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 200.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 200	Flex Btn	Description	Default	Values
Advice of Charge	1	This parameter defines the type of Advice of Charge service provided from the ISDN based on the country.	0 (No AOC service)	0 = no AOC service 1 = Italy & Spain 2 = Finland 3 = Australia 4 = Belgium 5 = Standard 6 = Netherlands
CO ATD Code	2	This parameter defines the received DID digits that route the call to the Attendant. For outgoing DID calls, if PGM 114, Flexible button 5 is set to CO ATD, when a station places an outgoing ISDN call, this value is used for the CLI.	Not assigned	2 digits, 0 ~ 9
Incoming Prefix Code Insertion	3	Moved to CO Line Attributes III, PGM 146, Flexible button 1		

PGM 200	Flex Btn	Description	Default	Values
Outgoing Prefix Code Insertion	*4*	*Moved to CO Line Attributes III, PGM 146, Flexible button 2*		
ISDN line Type	*5*	*Moved to CO Line Attributes III, PGM 146, Flexible button 3*		
CLI Print	6	*When enabled (On), the system will output the received CLI over the assigned Print port (PGM 175, Flexible button 5).*	*0 (Off)*	*0 = Off* *1 = On*
International Access Code	*7*	*This parameter defines the code inserted in front of the CLI when an international ISDN call is received.*	*Not assigned*	*4 digits, 0 ~ 9*
Calling Sub-address	*8*	*Moved to CO Line Attributes III, PGM 146, Flexible button 4*		
My Area Code	*9*	*This parameter defines the local Area Code that is inserted as part of the Prefix code when Prefix Code Insertion (Flexible button 3 and 4) is enabled. This value is combined with the 'My Area Prefix Code' value for insertion.*	*Not assigned*	*6 digits, 0 ~ 9*
My Area Prefix Code	*10*	*This parameter defines the Area Prefix Code that is inserted as part of the Prefix code when Prefix Code Insertion (Flexible button 3 and 4) is enabled. This value is combined with 'My Area Code' value for insertion.*	*Not assigned*	*4 digits, 0 ~ 9*
Maintain DID Name	*11*	*When enabled (On), the CLI is displayed in the LCD of the answering station throughout the call. Otherwise, the CLI is only displayed while the call is ringing.*	*0 (Off)*	*0 = Off* *1 = On*
PC Application Destination Station	*12*	*This parameter defines the Called Party Number (station number) that must be received from an ISDN to connect PC Admin to the system over an ISDN PPP connection.*	*100*	*Station number*

3.8.2   COLP/CLIP Table (PGM 201)

PGM 201 assigns the CLI/COL used for ISDN/IP CO line calls when a Table index is assigned in PGM 143, Flexible button 1 or 2.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 201.

3. Enter the desired COLP Table index.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 201	Flex Btn	Description	Default	Values
COLP/CLIP		This parameter defines the COLP/CLIP to be presented to the ISDN/IP CO line when a station makes or receives a call. The entry used is based on the index assigned in PGM 143, Flexible button 1 and 2.		10 digits, 0 ~ 9

3.8.3 MSN Table (PGM 202)

PGM 202 defines the telephone numbers and Flexible DID Table index for MSN call routing.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 202.

3. Dial the desired MSN Table index (000 ~ 249).

4. Press the Flexible button for the desired parameter.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 202	Flex Btn	Description	Default	Values
CO Line Number	1	This parameter identifies the range of CO lines (ISDN or SIP) that provide MSN service	Not assigned	Co line number (01 ~ 36)
Index to DID Table	2	This parameter defines the Flexible DID Table index to use for routing the MSN call when the MSN telephone number assigned under Flexible button 4 matches.	Not assigned	Flexible DID Table index (000 ~ 999)
Sub Number	3	Not Used	Not assigned	0 ~ 9
Telephone Number	4	This parameter defines the MSN telephone number to route for this MSN index. The MSN number is received in the Called Party field from the ISDN. When the received number matches this entry, the call is routed based on the assigned DID Table entry.	Not assigned	20 digits, 0 ~ 9
SIP User Id Table Index	5	This parameter identifies the SIP User Id to route for this MSN index. The SIP User Id is provided in the To: header of the SIP message. When the received SIP User Id matches this SIP User Id Table entry, the call is routed based on the assigned DID Table entry, Flexible button 2.	00	00 ~ 32

3.9   Tables *(PGM 204 – 205 and 220 – 238 & 250)*

3.9.1   Local Code Table (PGM 204)

PGM 204 defines leading digits that are considered local calls for SMDR and toll restriction.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 204.
3. Enter Table index, 01 to 16.
4. Enter the desired Local code (up to 5 digits, 0 ~ 9).
5. Press the **[Hold/Save]** button.

3.9.2   Enblock Prefix Table (PGM 205)

PGM 205 configures characteristics for Prefix code dialing.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 205.

3. Select the desired Flexible button.

4. Enter the table index (01 ~ 50).

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 205	Flex Btn	Description	Default	Values
Prefix code	1	This parameter defines the Prefix code number to match to the user-dialed digits. If the dialed number matches an assigned Prefix code, the number is dialed.	Not assigned	8 digits, 0 ~ 9 and [DND] for any digit
Min Digits	2	This parameter defines the minimum number of digits the user must dial for Prefix code dialing.	00	00 ~ 30
Max Digits	3	This parameter defines the maximum number of digits the user must dial for Prefix code dialing. When the maximum digits are dialed, the dialed digits are compared to the assigned Prefix code.	00	00 ~ 30
Sending Complete	4	When enabled (On), the system uses Enblock sending for Prefix dialing. When the Enblock Inter-digit timer (PGM 182, Flexible button 10) expires or the 'Maximum digits' is reached, the system sends all digits.	0 (Off)	0 = Off 1 = On
Number of Type	5	This parameter defines the Type of called number network.	0 = Unknown	0 = Unknown 1 = International 2 = National

PGM 205	Flex Btn	Description	Default	Values
				3 = Network Spec
				4 = Subscriber
				5 = Abbreviated
				6 = Reserved
Numbering Plan	6	This parameter defines the identification of the type of Numbering plan.	0 = Unknown	0 = Unknown
				1 = ISDN/Telephony
				2 = Data Numbering
				3 = Telex
				4 = National Std.
				5 = Private
				6 = Reserved

3.9.3   LCR (PGM 220 - 223)

3.9.3.1 LCR Attributes (PGM 220)

PGM 220 defines the LCR access mode, and time and day for each of three zones or groups for LCR access.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 220.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 220	Flex Btn	Description	Default	Values
LCR Access	1	This parameter defines the user-action that will access LCR. The user activates LCR in one of six modes. Modes provide for activation when the user: Dials while receiving internal dial tone (Internal), Accesses a CO line with a CO line/Group button, or by dialing a CO line/Group access code (Direct) or Accesses a CO line with a Loop button or by dialing'9'.	00	00 = LCR disabled 01 = Dial 9 02 = Internal & Loop 11 = Loop & Direct 12 = All with Loop access immediately 13 = All with Loop access delay
Day Zones (groups)	2	This parameter divides the days-of-week into one of three groups (Day Zones) for separate LCR treatment. Each day, Monday through Sunday represented respectively by Flexible button 1 ~ 7, is assigned to a zone.	All days 1 (Day Zone 1)	Flexible button 1 ~ 7 + 1 ~ 3 (day zone)
Time zones for	3	This parameter assigns three time zones for the day-of-week grouping 1 (Day Zone		Flexible button 1 ~3 +

PGM 220	Flex Btn	Description	Default	Values
Day Zone 1		1). Separate LCR treatments are assigned for each time zone under PGM 221 and 223. Time is assigned in 24-hour format with 00 & 24 as midnight. Any hour not covered by the time zones entered is treated as part of time zone 1.		2-digt pair, 00 ~ 24
Time zones for Day Zone 2	4	This parameter assigns three time zones for the day-of-week grouping 2 (Day Zone 2). Separate LCR treatments are assigned for each time zone under PGM 221 and 223. Time is assigned in 24-hour format with 00 & 24 as midnight. Any hour not covered by the time zones entered is treated as part of time zone 1.		Flexible button 1 ~3 + 2-digt pair, 00 ~ 24
Time zones for Day Zone 3	5	This parameter assigns three time zones for the day-of-week grouping 3 (Day Zone 3). Separate LCR treatments are assigned for each time zone under PGM 221 and 223. Time is assigned in 24-hour format with 00 & 24 as midnight. Any hour not covered by the time zones entered is treated as part of time zone 1.		Flexible button 1 ~3 + 2-digt pair, 00 ~ 24

3.9.3.2 Leading Digit Table (PGM 221)

PGM 221 configures the Leading Digit Table (LDT) that defines digit strings to match with user-dialed digits. For each string, a DMT index is assigned for each time zone of each Day grouping. The Leading Digit Table provides for up to 250 entries.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 221.
3. Dial the LDT index, 000 ~ 249.
4. Select the desired Flexible button.
5. Enter the appropriate value.
6. Press the **[Hold/Save]** button.

PGM 221	Flex Btn	Description	Default	Values
LCR Type	1	This parameter defines the LCR access modes that apply to this digit string. The types are Internal, any CO line access mode or both.	Both	1 = Internal 2 = CO 3 = Both
LCR Code	2	This parameter defines the digit string to match with the user-dialed digits.		Up to 12 digits, 0 ~ 9, DND = any digit
DMT index for Day Zone 1	3	This parameter defines the DMT index for each of three Time Zones in Day grouping 1.	None	3 2-digt pairs, 00 ~ 99, total 6 digits
DMT index for DAY Zn 2	4	This parameter defines the DMT index for each of three Time Zones in Day grouping 2.	None	3 2-digt pairs, 00 ~ 99, total 6 digits
DMT index for Day Zn 3	5	This parameter defines the DMT index for each of three Time Zones in Day grouping 3.	None	3 2-digt pairs, 00 ~ 99, total 6 digits

PGM 221	Flex Btn	Description	Default	Values
Check Password	6	The user may be required to enter a Station or system Authorization code in order for the system to process an LCR call for the LDT index.	0 (Off)	0 = Off 1 = On

3.9.3.3 LCR Digit Modification Table (PGM 222)

PGM 222 configures a digit modification process and a CO line Group for each of the 100 Digit Modification Table (DMT) entries.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 222.

3. Dial the DMT index, 00 – 99.

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 222	Flex Btn	Description	Default	Values
Added Digit Stream (A)	1	This parameter defines the digits that are added to the user-dialed number. Digits are added after the digit removal process (Flexible buttons 2 & 3). The digits are added in the number at the digit position defined under Flexible button 4.	None	Up to 25 digits 0 ~ 9, '*', '#', CBack = Pause DND/FWD = wait for dial tone
Removal Position(RP)	2	This parameter determines the position in the user-dialed number where digits are removed. The number of digits removed is defined under Flexible button 3.	01	01-12
Number of digits to remove (RN)	3	This parameter defines the number of digits to remove from the user-dialed number. The digits are removed starting at the Removal Position defined under Flexible button 2.	None	01-12
Add Position (AP)	4	This parameter defines the position in the user-dialed number where the digit stream, Flexible button 1, is added. Digits are added after the removal process, Flexible buttons 2 & 3.	01	01-13

PGM 222	Flex Btn	Description	Default	Values
CO Line Group	5	This parameter defines the CO line Group that will service LCR for this DMT index. The system accesses an idle CO line from the group and processes the call after digit modification.	01	01-24
Alternative DMT index (ALT)	6	This parameter defines an Alternate DMT index for use should a CO line not be available from the CO line Group assigned under Flexible button 5.	None	00-99

3.9.3.4   LCR Table Initialization (PGM 223)

PGM 223 permits assignment of default values for specific LDT and DMT parameters and initializing the entire LCR database.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 223.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 223	Flex Btn	Description	Default	Values
DMT for Day Zone 1	1	This parameter defines the DMT index for each of three Time Zones in Day grouping 1 (see PGM 220). Entering a value changes this parameter for Day Zone 1 in the Leading Digit Table, PGM 221.	None	3 2-digt pairs, 00 ~ 99, total 6 digits
DMT for Day Zone 2	2	This parameter defines the DMT index for each of three Time Zones in Day grouping 2 (see PGM 220). Entering a value changes this parameter for Day Zone 2 in the Leading Digit Table, PGM 221.	None	3 2-digt pairs, 00 ~ 99, total 6 digits
DMT for Day Zone 3	3	This parameter defines the DMT index for each of three Time Zones in Day grouping 3 (see PGM 220). Entering a value changes this parameter for Day Zone 3 in the Leading Digit Table, PGM 221.	None	3 2-digt pairs, 00 ~ 99, total 6 digits
CO Line Group Change	4	This parameter defines the default CO line for the Digit Modification Table (PGM 222). Entering a value, changes this parameter for all DMT entries.	None	01 ~ 24
ALT Index Change	5	This parameter defines the default Alternative DMT Index for the Digit Modification Table. Entering a value changes this parameter for all DMT entries.	None	00 ~ 99
All LCR Data	6	This Flexible button is used to initialize all the LCR data.	None	

PGM 223	Flex Btn	Description	Default	Values
Initialize				

3.9.4   Toll Table (PGM 224 – 226)

Toll tables are used to enhance the basic COS restrictions by allowing and denying specific digit strings. In Allow and Deny Tables.

3.9.4.1 Toll Exception Tables (PGM 224)

PGM 224 defines the Allow and Deny Tables A to D used to determine Class of Service.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 224.
3. Select the desired Flexible button.
4. Enter the table entry
5. Enter the desired Allow/Deny number.
6. Press the **[Hold/Save]** button.

PGM 224	Flex Btn	Description	Default	Values
Allow Table A	1	This parameter selects a Table index and allowed digit strings for the Allow Table A used in Station COS 2, 4 and 11.	Not assigned	Table entry number (01 to 30) + Allow/Deny number, (0 ~ 9, '*', '#', and [DND] as any digit wild-card entry), maximum 14 digits
Deny Table A	2	This parameter selects a Table index and denied digit strings for the Deny Table A used in Station COS 2, 4, and 11.	Not assigned	
Allow Table B	3	This parameter selects a Table index and allowed digit strings for the Allow Table B used in Station COS 3, 4 and 11.	Not assigned	
Deny Table B	4	This parameter selects a Table index and denied digit strings for the Deny Table B used in Station COS 3, 4 and 11.	Not assigned	
Allow Table C	5	This parameter selects a Table index and allowed digit strings for the Allow Table C	Not assigned	

PGM 224	Flex Btn	Description	Default	Values
		used in Station COS 8, 10 and 11.		
Deny Table C	6	This parameter selects a Table index and denied digit strings for the Deny Table C used in Station COS 8, 10 and 11.	Not assigned	
Allow Table D	7	This parameter selects a Table index and allowed digit strings for the Allow Table D used in Station COS 9, 10 and 11.	Not assigned	
Deny Table D	8	This parameter selects a Table index and denied digit strings for the Deny Table D used in Station COS 9, 10 and 11.	Not assigned	

3.9.4.2 Canned Toll Tables (PGM 225)

PGM 225 defines the Allow and Deny Table used to determine Class of Service 5 and 6.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 225.
3. Select the desired Flexible button.
4. Enter the table entry
5. Enter the desired Allow/Deny number.
6. Press the **[Hold/Save]** button.

PGM 225	Flex Btn	Description	Default	Values
Allow Table	1	This parameter selects a Table index and allowed digit strings for the Allow Table used in Station COS 5 and 6, and CO COS 4.	Not assigned	Table entry number (01 to 20) +
Deny Table	2	This parameter selects a Table index and denied digit strings for the Deny Table used in Station COS 5 and 6, and CO COS 4.	Not assigned	Allow/Deny number, (0 ~ 9, '*', '#', and [DND] as any digit wild-card entry), maximum 14 digits

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3.9.4.3 *Emergency Service Call (PGM 226)*

PGM 226 defines up to ten 14-digit numbers for emergency service, when dialed at an active station the number is dialed, overriding COS if required. Any dial pad digit (0 – 9, '*' and '#') may be entered. The default Emergency numbers are 911 and 9911.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 226.
3. Dial Emergency Table index (1 – 10).
4. Enter the Emergency number, maximum 14 digits.
5. Press the **[Hold/Save]** button.

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3.9.5 Authorization Code Table (PGM 227)

PGM 227 defines the Authorization Codes and the associated COS used with certain features such as 'Call Forward Follow-Me', DISA calls, etc.

Codes 001 to 048 are for stations and can be viewed only in this table.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 227.

3. Enter the Authorization Table index (001 – 200).

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 227	Flex Btn	Description	Default	Values
Authorization Code	1	This parameter assigns the Authorization code. The code may be a variable length, 3 to 11 digits, or a fixed length, 5 digits (PGM 161, Flexible button 21).	Not Assigned	3 ~ 11 digits,0 - 9
Day COS	2	This parameter defines the Day mode Station COS associated with the Authorization Code		1 ~ 9
Night COS	3	This parameter defines the Night mode Station COS associated with the Authorization Code		1 ~ 9

3.9.6 Customer Call Routing (PGM 228)

PGM 228 defines the routing for each CCR Table.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 228.
3. Enter the CCR Table number (01 ~ 07).
4. Select the desired Flexible button.
5. Enter the appropriate value.
6. Press the **[Hold/Save]** button.

PGM 228	Flex Btn	Description	Default	Values
Digit '1'	1	This parameter defines the CCR destination when the DISA caller dials the digit '1'.	Not assigned	See CCR Destination Code Table
Digit '2'	2	This parameter defines the CCR destination when the DISA caller dials the digit '2'.	Not assigned	See CCR Destination Code Table
Digit '3'	3	This parameter defines the CCR destination when the DISA caller dials the digit '3'.	Not assigned	See CCR Destination Code Table
Digit '4'	4	This parameter defines the CCR destination when the DISA caller dials the digit '4'.	Not assigned	See CCR Destination Code Table
Digit '5'	5	This parameter defines the CCR destination when the DISA caller dials the digit '5'.	Not assigned	See CCR Destination Code Table
Digit '6'	6	This parameter defines the CCR destination when the DISA caller dials the digit '6'.	Not assigned	See CCR Destination Code Table
Digit '7'	7	This parameter defines the CCR destination when the DISA caller dials the digit '7'.	Not assigned	See CCR Destination

PGM 228	Flex Btn	Description	Default	Values
				Code Table
Digit '8'	8	This parameter defines the CCR destination when the DISA caller dials the digit '8'.	Not assigned	See CCR Destination Code Table
Digit '9'	9	This parameter defines the CCR destination when the DISA caller dials the digit '9'.	Not assigned	See CCR Destination Code Table
Digit '0'	10	This parameter defines the CCR destination when the DISA caller dials the digit '0'.	Not assigned	See CCR Destination Code Table
Busy Destination	11	This parameter defines the destination when the CCR destination is busy.	1 (Attendant)	Flexible button 1 ~ 3
Error/Time-out Destination	12	This parameter defines the destination when the CCR destination is an error or the Inter-digit time expires (see PGM 181, Flexible button 8).	1 (Attendant)	1 = Tone 2 = Attendant
No Answer Destination	13	This parameter defines the destination when the CCR destination does not answer in the DID/DISA No-answer time, PGM 181, Flexible button 2.	1 (Attendant)	3 + Hunt Group 4 = VMIB (enter announcement 00 ~70)

CCR Destination Table

Destination Code	Destination	Values
01	Station	'01' + station number
02	Hunt Group	02 + Hunt Group number
03	VMIB Announce	'03' + VMIB Announcement number
04	VMIB Announce and Drop	'04' + VMIB Announcement number + '#'
05	System Speed	'05' + 2000 ~ 2499
06	Internal Page	'06' + 01 ~ 10
07	External Page	'07' +1

Destination Code	Destination	Values
08	All Call Page	'08 + 1 = Internal All Call Page '08 + 2 = All Call Page
09	Net Number	'09 + Net Number
10	Conference Room	'10' + 1 ~ 9
11	Station Voice Mailbox	'11' + station number
12	Company Directory	
13	Mailbox Owner	Caller must enter Mailbox number
14	Record a System Greeting	
15	Virtual Mailbox	15 + mailbox number

3.9.7 Executive/Secretary Table (PGM 229)

PGM 229 defines the Executive/Secretary pairs.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 229.

3. Enter the Table index, 1 ~ 6.

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 229	Flex Btn	Description	Default	Values
Exec/Secretary	*1*	*This parameter assigns the Executive and Secretary pairs.*	*Not assigned*	*Exec station + Secretary station*
CO Call to Secretary	2	*When enabled (On), the system routes all CO line calls for the Executive to the Secretary station*	*0 (Off)*	*0 = Off* *1 = On*
Call Executive if Secretary DND	3	*When enabled (On), if the Secretary is in DND, calls for the Executive are not routed to the Secretary even if the Executive is in DND.*	*0 (Off)*	*0 = Off* *1 = On*
Executive Grade	*4*	*This parameter determines if an Executive can make intercom calls to other Executives even if the called Executive is in DND. Executives can call other Executives of the same or higher grade overriding Executive/Secretary Forward.*	*1 (highest grade)*	*01 ~ 12* *1 = Highest level* *12 = Lowest level*
ICM Call To Secretary	*5*	*When enabled (On), the system routes all Intercom for the Executive to the Secretary station*	*0 (Off)*	*0 = Off* *1 = On*

3.9.8 Flexible DID Conversion Table (PGM 231)

PGM 231 defines the Type 2 DID destinations for various ring service modes.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 231.

3. Select Flexible button 1 to input a DID Destination,
   Select Flexible button 2 to initialize the DID Conversion Table or
   Select Flexible button 3 to delete all DID Table entries.

4. For input to the table, enter the DID Table index (000 ~ 999)

5. Select the desired Flexible button.

6. Enter the appropriate value.

7. Press the **[Hold/Save]** button.

PGM 231	Flex Btn	Description	Default	Values
DID Name	*1*	*This parameter assigns a name, up to 12 characters, for the DID Conversion Table index.*	*Not assigned*	*11 characters, see Dial Pad Character Chart*
Day Destination	*2*	*This parameter defines the Flexible DID Conversion route for Day mode service.*	*Not assigned*	*01 ~ 12, see DID Destination Chart below*
Night Destination	*3*	*This parameter defines the Flexible DID Conversion route for Night mode service.*	*Not assigned*	*01 ~ 12, see DID Destination Chart below*
Weekend Destination	*4*	*This parameter defines the Flexible DID Conversion route for Weekend mode service.*	*Not assigned*	*01 ~ 12, see DID Destination Chart below*
Lunch	*5*	*This parameter defines the Flexible DID Conversion route for Lunch mode service.*	*Not assigned*	*01 ~ 12, see DID*

PGM 231	Flex Btn	Description	Default	Values
Destination				Destination Chart below
Reroute Destination	6	This parameter defines the Flexible DID Conversion route when the original destination is busy. Use codes '0 – 5' from the Destination Table, '6' + Net number or 7 + station number for the routing to a station Voice mailbox.	Not assigned	1 ~ 5 from Destination Table 6 + Networked station 7 + station = station VM 12 + virtual mailbox number
Tenancy Group	7	The Day/Night Mode for the DID Destination Table is normally controlled by the System Attendant. When desired the Day/Night mode can be controlled by a Tenant Group Attendant.	0 (System Attendant)	0 ~ 5

DID Destination Table

Code	Destination	Values
01	Station	'01' + station number
02	Hunt Group	02 + Hunt Group number
03	VMIB Announce	'03' + VMIB Announcement number
04	VMIB Announce and Drop	'04' + VMIB Announcement number + '#'
05	System Speed	'05' + 2000 ~ 2499
06	Internal Page	'06' + 01 ~ 10
07	External Page	'07' +1
08	All Call Page	'08 + 1 = Internal All Call Page '08 + 2 = All Call Page
09	Net Number	'09 + Net Number
10	Conference Room	'10' + 1 ~ 9

Code	Destination	Values
11	Station Voice Mailbox	'11' + station number
12	Virtual Voice Mailbox	12 + Virtual mailbox number

Dial Pad Character Chart

1 – 10 '.' – 13 Q – 11 Z – 12	**2** – 20 A – 21 B – 22 C – 23	**3** – 30 D – 31 E – 32 F – 33
4 – 40 G – 41 H – 42 I – 43	**5** – 50 J – 51 K – 52 L – 53	**6** – 60 M – 61 N – 62 O – 63
7 – 70 P – 71 Q – 72 R – 73 S – 74	**8** – 80 T – 81 U – 82 V – 83	**9** – 90 W – 91 X – 92 Y – 93 Z – 94
✳ - ✳0 Blank - ✳1 ':' - ✳2 ';' - ✳3	**0** – 00	**#**

3.9.9 System Speed Zone (PGM 232)

PGM 232 configures the parameters for the System Speed Zone groups.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 232.
3. Enter a Zone number, 01 - 10.
4. Select the desired Flexible button.
5. Enter the appropriate value.
6. Press the **[Hold/Save]** button.

PGM 232	Flex Btn	Description	Default	Values
Speed Bin Range in Zone	*1*	*This parameter assigns System Speed Dial bins to a Speed Zone. Only Speed Dial bins 2200 to 2499 can be assigned to a zone. Speed bins 2000 ~ 2199 cannot be assigned to a System Speed Zone,*	*Zone 1, 2200-2499, Zones 2 ~ 10 not assigned*	*Range between 2200 - 2499*
Station Range to Access Zone	*2*	*This parameter assigns stations allowed access to Speed Dial bins in the zone. Select the Flexible button associated with a station or enter a station range.*	*Zone 1, All stations allowed access*	*Flexible button 1 – 4 or a station range*
Toll Checking	*3*	*This parameter determines if the system will enforce Toll Restriction when a station attempts access to a Speed Dial bin in the zone.*	*All zones,1 (On)*	*0 = Off 1 = On*
Authorization Check	*4*	*When enabled (On), the system requests an Authorization code when a station attempts access to a Speed Dial bin in the zone.*	*Zone 1, 0 (Off) Others 1 (On)*	*0 = Off 1 = On*

3.9.10   Weekly Time Table (PGM 233)

PGM 233 configures separate Weekly Time Tables to control Auto Ring mode for the system and each Intercom Tenancy Group.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 233.

3. Dial '0 ~ 5'; '0' is for the system and '1 ~ 5' are for the individual Intercom Tenancy Groups.

4. Select Flexible button '1 – 7' for Monday to Sunday, respectively.

5. Select the Flexible button for the desired time entry.

6. Enter the desired Time as four (4) digits.

7. Press the **[Hold/Save]** button.

PGM 233	Flex Btn	Description	Default	Values
Day	1	This parameter defines the start time for Day mode service when Auto Ring service is active.	Mon – Fri 09:00	4 digits, 0000 ~ 23:59
Night	2	This parameter defines the start time for Night mode service when Auto Ring service is active.	Mon – Thu 18:00	4 digits, 0000 ~ 23:59
Weekend	3	This parameter defines the start time for Weekend mode service when Auto Ring service is active.	Fri 18:00	4 digits, 0000 ~ 23:59
Lunch Start	4	This parameter defines the start time for Lunch mode service when Auto Ring service is active.	Not assigned	4 digits, 0000 ~ 23:59
Lunch End	5	This parameter defines the end time for Lunch mode service when Auto Ring service is active.	Not assigned	4 digits, 0000 ~ 23:59

3.9.11   Voice Mail Dialing Table (PGM 234)

PGM 234 defines the DTMF digits sent to an external VM to process a call.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 234.

3. Dial digit 1 – 9 for the VM Table index.

4. Dial '1' for Prefix insertion or dial '2' for Suffix insertion.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 234	Flex Btn	Description	Default	Values
Put Mail Index '1'		This parameter defines the code sent to the external VM to receive an incoming Voice message.	Prefix: P# Suffix: -	12 digits, 0 ~ 9, '*', '#' and [DND] for Pause
Get Mail Index '2'		This parameter defines the code sent to the external VM to review Voice message.	Prefix: P## Suffix: -	12 digits, 0 ~ 9, '*', '#' and [DND] for Pause
Busy Index '3'		This parameter defines the code sent to the external VM to receive an incoming Voice message when the call encounters busy.	Prefix: P#*3P Suffix: -	12 digits, 0 ~ 9, '*', '#' and [DND] for Pause
No Answer Index '4'		This parameter defines the code sent to the external VM to receive an incoming Voice message when the call is not answered.	Prefix: P#*4P Suffix: -	12 digits, 0 ~ 9, '*', '#' and [DND] for Pause
Error Index '5'		This parameter defines the code sent to the external VM to receive an incoming Voice message when the call encounters an error.	Prefix: P#*5P Suffix: -	12 digits, 0 ~ 9, '*', '#' and [DND] for Pause
DND Index '6'		This parameter defines the code sent to the external VM to receive an incoming Voice message when the call encounters DND.	Prefix: P#*6P Suffix: -	12 digits, 0 ~ 9, '*', '#' and [DND] for Pause
Index '7'			Prefix:	12 digits, 0 ~ 9, '*', '#'

PGM 234	Flex Btn	Description	Default	Values
			Suffix:	and [DND] for Pause
Index '8'			Prefix:	12 digits, 0 ~ 9, '*', '#'
			Suffix: -	and [DND] for Pause
Disconnect Index '9'		This parameter defines the code sent to the external VM to instruct the VM to disconnect.	*****	12 digits, 0 ~ 9, '*', '#' and [DND] for Pause

3.9.12   Mobil Extension (PGM 236)

PGM 236 configures the characteristics of a Mobile Extension associated with each station port.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 236.

3. Dial a table index '01' ~ '48' for a station port

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 236	Flex Btn	Description	Default	Values
Allow Mobile Extension	1	When enable (On), the system allows the station to activate the Mobile Extension feature.	0 (Off)	0 = Off 1 = On
CO Group	2	This parameter assigns the CO line group to use when the system calls the Mobile Extension. An ISDN or IP CO line group must be used.	01	01 ~ 24
Telephone Number	3	This parameter assigns the number the system dials to call the Mobile Extension.	Not assigned	Up to 24 digits
CLI Number	4	This parameter assigns the CLI the system receives for an incoming call from the Mobile Extension.	Not Assigned	Up to 16 digits
Mobile Extension Hunt Call	5	When enabled (On), Hunt group calls to the associated station alert to the Mobile Extension.	0 (Off)	0 = Off 1 = On
Voice Message Notification	6	When enable (On), the system sends an SMS to the Mobile when a voice mail is received for the associated station. PSTN SMS must be available.	0 (Off)	0 = Off 1 = On
Mobile Extension Usage	7	When enabled (On), the Mobile Extension feature is activated. This is the same as the user dialing '34' to Activate Mobile Extension.	0 (Off)	0 = Off 1 = On

3.9.13   Incoming CLID Destination Table (PGM 237)

PGM 237 defines the destination for DID calls when the CLI matches one of up to 100 CLI entries.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 237.

3.   Enter the ICLID Table index (001 ~ 100)

4.   Select the desired Flexible button.

5.   Enter the appropriate value.

6.   Press the **[Hold/Save]** button.

PGM 237	Flex Btn	Description	Default	Values
Incoming CLI Number	1	This parameter assigns a CLI that, if matched with the CLI on an incoming DID CO line call, routes the call to the destination specified under Flexible button 2.	Not assigned	Up to 20 digits
Conversion Table Index	2	This parameter defines the Flexible DID Conversion Table index (PGM231) for the destination for a call when the CLI on an incoming DID call matches the CLI defined under Flexible button 1.	Not assigned	000 ~ 999, Flexible DID Conversion Table index

3.9.14   Voice Mailbox COS Table (PGM 238)

PGM 238 assigns characteristics to each Class of Service for Voice Mailboxes. The COS defines characteristics for Voice mails as well as enables certain features for mailboxes assigned the COS. There are five (5) Classes of Service.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 238.
3. Dial the COS number (1 ~ 5)
4. Select the desired Flexible button.
5. Enter the appropriate value.
6. Press the **[Hold/Save]** button.

PGM 238	Flex Btn	Description	Default	Values
Greeting Length	1	The system can limit the length of the User Greeting for the mailbox.	15 seconds	00 ~ 99 seconds
Message Record time	2	The system limits the maximum duration of a recorded voice message to the mailbox.	300 seconds	001 ~ 600 seconds
Number of Messages	3	The system limits the number of messages stored in a mailbox.	050	001 ~ 250
Retention Time	4	The system limits the duration a message will be stored in the mailbox.	15 days	01 ~ 99 days
E-mail Notification	5	The system can notify the user e-mail address when a new voice message is received. The user e-mail address must be defined in (PGM 127 and PGM 129)	0 (Disable)	0 = Disable 1 = Enable
Future Delivery Messages	6	The mailbox user may delay delivery of a voice message to another user in the ip-60.	0 (Disable)	0 = Disable 1 = Enable
Confirm Message	7	The user may request delivery confirmation for a voice message sent to another user	0 (Disable)	0 = Disable

PGM 238	Flex Btn	Description	Default	Values
Receipt		of the ip-60. The system will confirm delivery once the receiver listens to the message.		1 = Enable
Private Message Mark	8	A user may mark a message to another ip-60 user as a private message. The receiver cannot forward the message.	0 (Disable)	0 = Disable 1 = Enable

3.9.15 Hot Desk Attributes (PGM 250)

PGM 250 defines attributes for Hot Desk agents including no of Agents and Automatic Logout timer.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 250.
3. Select the desired Flexible button.
4. Enter or view the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 250	Flex Btn	Description	Default	Values
Number of Agents	*1*	*The number of Agents using the Hot desk feature determines the Agent numbers. Agent numbers are assigned backwards from the highest station number, default 147, decrementing the station number by one for each agent to the Number of Agents assigned.*	*00*	*00 ~ 46*
View Agent Range	*2*		*N/A*	*N/A*
Auto Logout Timer	*3*	*The system will log an agent out after the pre-defined Auto Logout timer. The timer is set in 24 hours and, if set at 00, the Logout feature is disabled.*	*00*	*00 ~ 24 hours*

3.10 SMS Attributes (PGM 291 – 292)

3.10.1   SMS Setting (PGM 291)

PGM 291 configures the SMS Message Center telephone number and CLI.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 291.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 291	Flex Btn	Description	Default	Values
SMS Center Number	1	This parameter assigns the telephone number of the SMS Message Center to receive an SMS from the ip-60.	Not assigned	Up to 16 digits
SMS Center CLI	2	This parameter defines the CLI the ip-60 will receive from the SMS Message Center when a new SMS is received.	Not assigned	Up to 16 digits

3.10.2   SMS CO Line Attributes (PGM 292)

PGM 292 assigns CO lines and stations to receive external SMS messages.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 292.

3. Enter the CO line range.

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 292	Flex Btn	Description	Default	Values
SMS Receive station	1	This parameter assigns the range of stations to receive SMS messages on the CO lines in the range.	0 (Off)	Station Range + 0 = Off 1 = On
Display SMS Receive station	2	This Flexible button displays the stations allowed to receive external SMS messages.		
SMS Outgoing CO	3	When enabled (On), CO lines in the range are used to submit external SMS messages to the SMS Center.	0 (Off)	0 = Off 1 = On
Non-CID SMS (Korea Only)	4	When enabled (On) the system will automatically identify incoming SMS calls without using CLI from the SMS Center, special tone detection is used. (Intended for Korea only)	0 (Off)	0 = Off 1 = On

3.11 Private Networking (PGM 320 - 324)

3.11.1   Networking Basic Attributes (PGM 320)

PGM 320 enables Networking and defines basic attributes for network signaling and CAS.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 320.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 320	Flex Btn	Description	Default	Values
Networking Enable	1	This parameter enables the Private Network feature. The Networking lock-key must be installed.	0 (Off)	0 = Off 1 = On
Networking Retry Count	2	This parameter defines the number of times the system will attempt a network connection to a PSTN line. This parameter does not affect a direct connection between two networked systems.	00	00 ~ 99
Networking CNIP Enable	3	When enabled (On), the system displays the name of the calling station in the LCD of the called station.	1 (On)	0 = Off 1 = On
Networking CONP Enable	4	When enabled (On), the system displays the name of the answering station in the LCD of the calling station.	0 (Off)	0 = Off 1 = On
Networking Signal Method	5	This parameter determines the message, information element type used for supplementary network service messages. The system employs either the Facility	1 (Facility)	0 = User-to-User 1 = Facility

PGM 320	Flex Btn	Description	Default	Values
		or the User-to-User Information element as assigned here.		
Networking CAS Enable	*6*	*This parameter enables Centralized Attendant Service for the system. CAS should not be enabled at the system where the CAS Attendant is located.*	*0 (Off)*	*0 = Off* *1 = On*
Networking VPN Enable	*7*	*Reserved*	*0 (Off)*	*0 = Off* *1 = On*
Networking CC Retain Mode	*8*	*When enabled (On), the system employs the Call Completion Retain mode for supplementary services.*	*0 (Off)*	*0 = Off* *1 = On*

3.11.2 Networking Supplementary Attributes (PGM 321)

PGM 321 configures signaling for supplementary features and characteristics of the BLF Manager.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 321.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 321	Flex Btn	Description	Default	Values
Networking Transfer Mode	1	This parameter determines the signaling employed for call transfer over the network. The Join or Reroute method is available.	1 (Reroute)	0 = Join 1 = Reroute
TCP Port	2	This parameter defines the TCP port used for communications with the BLF Manager.	9000	0000 ~ 9999
UDP Port	3	This parameter defines the UDP port used for communications with the BLF Manager.	9001	0000 ~ 9999
BLF Manager IP Address	4	This parameter defines the IP address of the server hosting the BLF Manager.	0.0.0.0	IPv4 address
Duration of BLF status	5	This parameter sets the maximum duration between BLF status messages.	02 seconds	01 ~20 in 1 second increments
Multicast IP Address	6	This parameter defines the IP multi-cast address used by the BLF Manager.	0.0.0.0	IPv4 address
Net Trans Fault Recall Timer	7	This parameter sets the time interval the system waits for a response from a networked system when transferring a call. After expiration of the timer, the	010 seconds	001 ~ 300 in 1 second increments

PGM 321	Flex Btn	Description	Default	Values
		system will recall the transferring station.		
GK Reroute CO Group	8	This parameter defines the CO line group used by a Gatekeeper when transferring a call.	00	00 ~ 24

3.11.3 Networking CO Line Attributes (PGM 322)

PGM 322 establishes characteristics of CO lines used for Private Networking.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 322.

3. Enter the CO line range.

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 322	Flex Btn	Description	Default	Values
Networking CO Line Group	1	This parameter defines the Network CO line Group number. This parameter does not relate to the normal CO line Group number.	00	00 ~ 24
VOIB Mode	2	This parameter defines the VoIP protocol used by the VOIB on CO lines, H.323 or SIP.	1 (SIP)	0 = H.323 1 = SIP
Use Gatekeeper	3	When enabled (On), the system employs the GateKeeper to route calls. Otherwise, the call is routed directly over the network.	0 (Off)	0 = Off 1 = On
Networking CO Line Type	4	This parameter defines the type of system connected to a networked system CO line, PSTN or Networked system.	0 (PSTN)	0 = PSTN 1 = Network
DTMF Mode	5	This parameter defines the DTMF signaling mode employed on the CO line for networking.	2 (In-band DTMF)	2 = In-band DTMF 3 = RFC2833 DTMF 4 = Out-band DTMF

3.11.4   Network Routing-Network Numbering Plan Table (PGM 324)

PGM 324 establishes the routing for each Network Numbering Plan code.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 324.

3. Enter the Network Numbering Plan index, 00 ~ 70.

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 324	Flex Btn	Description	Default	Values
System Usage	1	This parameter defines the type of connection for the Numbering Plan code. Network setting is used when the connection is between networked systems otherwise use PSTN.	0 (Network)]	0 = Network 1 = PSTN
Net Numbering Code	2	This parameter defines the individual Network Numbering Plan code digits. For a local station number, enter '#' after the first digit to signify a local station, 1#**. An asterisk, '*', is used to signify any digit, 0 ~ 9.	Not assigned	16 digits, 0 - 9 and. '#' = signifies local station numbers '*' = any digit wild card
Net Number CO Line Group	3	This parameter defines the Network CO line group used to set-up the connection for the Network Numbering Plan code. A '00' value is used to denote a local intercom connection.	Not assigned	00 ~ 24
CPN IP Information	4	This parameter defines the IP address of the destination system's VOIB. Only Flexible button 1 is used for the ip-60-60 to define the VOIB IP address.	0.0.0.0	Flexible button 1 ~ 4, IP v4 address

PGM 324	Flex Btn	Description	Default	Values
Alternate Dial Bin	5	This parameter defines the alternate route when a network fault occurs while attempting to route a networked call. A System Speed Dial is used to define the alternate route.	Not assigned	2000 ~ 2499
Destination MPB IP	6	This parameter defines the IP address of the receiving MPB for DECT and for the BLF Manager support.	0.0.0.0	IP v4 address
Digit Repeat	7	When enabled (Yes), the system will repeat digits received from the networked system for output over the outgoing PSTN connection.	0 (No)	0 = No 1 = Yes
CO ATD Code CLI	8	When enabled (On), the Attendant station number associated with the CO line is used as the CLI sent to PX. Otherwise, the station number placing or receiving the call is used for the CLI.	0 (Off)	0 = Off 1 = On
Firewall Routing	9	When enabled (On), the system recognizes the connection for the Network Numbering Plan code routes through a Firewall and uses the WAN side Firewall address to complete the connection.	0 (No)	0 = No 1 = Yes
Authorization Code COS Use	10	When enabled (Yes), the user must enter an Authorization code. The COS associated with the Authorization code establishes toll restriction for the call.	0 (No)	0 = No 1 = Yes
SMDR Hidden Digits	11	When enabled, digits dialed by the station user are NOT output in SMDR records.	0 (No)	0 = No 1 = Yes

3.12 VOIB (*PGM 340 – PGM 341 and PGM 500 – PGM 501*)

3.12.1   VOIB Settings (PGM 340)

PGM 340 configures IP and other characteristics of the VOIB interface.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 340.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 340	Flex Btn	Description	Default	Values
IP Address (Skip:#)	1	This parameter defines the IP address for VoIP. This address is assigned to the VOIB and, if installed, the VOIU.	0.0.0.0	IP v4 address
Gateway Address (Skip:#)	2	This parameter defines the IP address of the Gateway serving the VOIB.	0.0.0.0	IP v4 address
SUBNET Mask (Skip:#)	3	This parameter defines the Subnet mask for the VOIB IP address.	255.255.255.0	IPv4 Subnet mask
DNS Address (Skip:#)	4	This parameter defines the Domain Name Server the system will use to convert a URI to an IP address.	0.0.0.0	IP v4 address
Trace Password	5	This parameter assigns a password for access to the VOIB trace facilities.	Not assigned	Up to 10 characters, see Dial Pad Character Chart

PGM 340	Flex Btn	Description	Default	Values
Default Codec	6	This parameter defines the default codec that is requested in call set-up messages.	3 (G711_u-Law))	0 = G.723.1 1 = G.729 2 = G.711_A-Law 3 = G.711_u-Law 4 = G.729A
Default Gain	7	This parameter sets the default gain associated with audio to/from the VOIB.	31	01 ~ 62
No Delay (TOS)	8	This parameter defines the setting for bit 3, the Delay bit of the IP TOS (Type-of-Service) byte. When enabled (On), low or no delay is requested.	0 (Off)	0 = Off 1 = On
Throughput(TOS)	9	This parameter defines the setting for bit 4, the Throughput bit, of the IP TOS (Type-of-Service) byte. Throughput can be set to Normal or High.	0 (Normal)	0 = Normal 1 = High
Reliability(TOS)	10	This parameter defines the setting for bit 5, the Reliability bit, of the IP TOS (Type-of-Service) byte. Reliability can be set to Normal or High for the VOIP board reliability.	0 (Normal)	0 = Normal 1 = High
Firewall IP Address	11	This parameter defines the WAN side IP address of the NAT/Firewall server.	0.0.0.0	IP v4 address
VOIB mode	12	This parameter defines the VoIP protocols required by the VOIB. The system can support SIP, H.323 or both (dual).	2 (Dual)	0 = H.323 1 = SIP 2 = Dual
Silence Detection	13	When enabled (On), the system will detect silence in the incoming audio and introduce 'comfort noise'.	0 (Off)	0 = Off 1 = On
Echo Canceller	14	When enabled (On), the system will implement echo cancellation on audio to/from the VOIB.	1 (On)	0 = Off 1 = On
DTMF Mode	15	This parameter determines the method for interchange of DTMF signals with the call host.	2 (In-band DTMF)	2=In-band DTMF 3=RFC2833 DTMF 4=Out-band DTMF
Jitter Buffer	16	This parameter determines the duration the system will store RTP packets for the	150 milliseconds	050 ~ 300 in 1 milli-

PGM 340	Flex Btn	Description	Default	Values
		purpose of reducing jitter. A short jitter buffer may result in loss of RTP packets, a long jitter buffer may result in excessive delay.		*second increments*
Voice Monitor	17	*When enabled, the system will monitor the RTP traffic to/from the VOIB.*	*0 (Off)*	*0 = Off* *1 = On*
H.323 (Fast) Mode	18	*When enabled (On), the system will implement the H.323 Fast call set-up mode.*	*0 (Fast)*	*0 = Fast* *1 = Normal*
Early H.245	19	*When enabled (On), the system will employ the Early H.245 channel set-up operation for H.323.*	*0 (Off)*	*0 = Off* *1 = On*
H.245 Tunneling	20	*When enabled (On), the system will implement tunneling of H.245 messages in QSig messages.*	*0 (Off)*	*0 = Off* *1 = On*
TOS Precedence	21	*This parameter defines the setting for bits 0 – 2 of the IP TOS byte. Precedence can be set from 0, the lowest precedence, to 7 the highest precedence.*	*0*	*0 ~ 7*
FAX Mode	22	*When enabled (On), the system implements T.38 IP FAX detection using the receiver Re-Invite message. Otherwise, the initial Invite contains the T.38 parameters.*	*0 (Off)*	*0 = Off* *1 = On*

Dial Pad Character Chart

1 – 10	**2** – 20	**3** – 30
'.' – 13 Q – 11 Z – 12	A – 21 B – 22 C – 23	D – 31 E – 32 F – 33
4 – 40	**5** – 50	**6** – 60
G – 41 H – 42	J – 51 K – 52	M – 61 N – 62

I – 43	L – 53	O – 63
7 – 70 P – 71 Q – 72 R – 73 S – 74	**8** – 80 T – 81 U – 82 V – 83	**9** – 90 W – 91 X – 92 Y – 93 Z – 94
✳ - ✳0 Blank - ✳1 ':' - ✳2 ',' - ✳3	**0** – 00	#

3.12.2   GateKeeper Settings (PGM 341)

PGM 341 configures the system to match the H.323 GateKeeper characteristics.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 341.

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 341	Flex Btn	Description	Default	Values
GK Usage	1	When enabled (On), the ip-60 will employ the GateKeeper to route all H.323 VoIP outgoing calls.	0 (Off)	0 = Off 1 = On
GK Call Mode	2	This parameter determines the GateKeeper Call routing mode.	0 (Direct)	0 =Direct 1 = GK Reroute
GK Open H245	3	This parameter determines if the system will open an H.245 channel for H.323 VoIP calls.	0 (Off)	0 = Off 1 = On
GK H245 Tunneling	4	This parameter determines if the GateKeeper will employ tunneling for H.245 messages.	0 (Off)	0 = Off 1 = On
GK Pre-granted ARQ	5	When enabled (On), the GateKeeper has pre-granted admission to the GateKeeper by the system.	0 (Off)	0 = Off 1 = On
GK Out of Band Flash	6	Not used		
GK Time to Live	7	This parameter sets the duration between RRQ (Registrar Request) messages from the VOIB to the GateKeeper as a keep-alive message.	030 seconds	000 ~ 250 in 1 second increments

PGM 341	Flex Btn	Description	Default	Values
GK Address	8	This parameter defines the IP address of the hosting GateKeeper.	0.0.0.0	IPv4 address
GK Find Address	9	This parameter defines the 'well known' IP address for the system to locate a local GateKeeper.	224.0.1.41	IPv4 address
GK Find Port	10	This parameter defines the port used with the IP address of Flexible button 9.	1718	0000 ~ 9999
GK RAS Signal Port	11	This parameter defines the port used for the H.323 RAS (Registration, Admission, and Signal) channel for the GateKeeper.	1719	0000 ~ 9999
GK Signal Port	12	This parameter defines the port used by the GateKeeper for H.323 signals.	1720	0000 ~ 9999
VOIB GK ID	13	This parameter assigns the unique identification of the GateKeeper for the ip-60.	Not assigned	Up to 23 characters, see Dial Pad Character Chart
VOIB H323 ID	14	This parameter assigns a unique H.323 identification to the VOIB.	Not assigned	Up to 23 characters, see Dial Pad Character Chart
VOIB E164 Address	15	This parameter registers one or more stations with the GateKeeper. Enter the station number or enter the first digit of a range of stations (2 = 2000 ~ 2999). In addition, when registering a range of stations, the VOIB Terminal Alias must be assigned.	Not assigned	Up to 23 characters, see Dial Pad Character Chart
VOIB Terminal Alias	16	This parameter is used to register a range of stations with the GateKeeper. Enter the first digit of the range of stations to be registered, 2 = 2000 ~ 2999.	Not assigned	Flexible button 1 ~ 4 20 digits, 0 ~ 9

Dial Pad Character Chart

1 – 10	**2** – 20	**3** – 30
'.' – 13	A – 21	D – 31
Q – 11	B – 22	E – 32

Z – 12	C – 23	F – 33
4 – 40 G – 41 H – 42 I – 43	**5** – 50 J – 51 K – 52 L – 53	**6** – 60 M – 61 N – 62 O – 63
7 – 70 P – 71 Q – 72 R – 73 S – 74	**8** – 80 T – 81 U – 82 V – 83	**9** – 90 W – 91 X – 92 Y – 93 Z – 94
✻ - ✻0 Blank - ✻1 ':' - ✻2 ';' - ✻3	**0** – 00	#

3.12.3 SIP Attributes I (PGM 500, PC Admin only)

PGM 500 is one of two PGMs used to configure SIP operation, see also PGM 501.

Procedure:

1. PC Admin only.

PGM 500	Flex Btn	Description	Default	Values
Proxy Server Address		This parameter defines the IP address or URI for the SIP proxy server.	Not assigned	Max 32 digits character string (e.g. abcd@efg), see Dial Pad Character chart
Proxy Server Port		This parameter defines the port used for SIP messages to/from the SIP Proxy server.	5060	0000 ~ 9999
Proxy Registration Timer		This parameter defines the valid registration interval the system will request when registering with a SIP Call server.	3600 seconds	0 ~ 65535 (sec)
Use Outbound Proxy		When enabled (On), the system sends SIP signaling messages to the SIP Proxy otherwise messages are sent to the Call server.	On	Off On
Primary DNS Address		This parameter defines the primary Domain Name Server the ip-60 will use to convert a URI to an IP address.	Not assigned	IPv4 address
Secondary DNS Address		This parameter defines the secondary Domain Name Server the ip-60 will use to convert a URI to an IP address if the primary DNS does not respond.	Not assigned	IPv4 address
Domain		This parameter defines the domain (name or IP address) used by the system in To: and From: SIP messages when a separate SIP User id is not defined. See also PGM 111 Flexible button 23 and PGM 501.	Not assigned	Value : Max 32 digits character string (e.g. domain.name.com)
Connection Mode		This parameter defines the transport mode for SIP signaling messages, Transport	UDP	UDP

PGM 500	Flex Btn	Description	Default	Values
		Control Protocol (TCP) or User Datagram Protocol (UDP).		TCP
100Rel Support		When enabled (On), the system will acknowledge provisional response (1xx) messages from the call server.	On	Off On
Use R-port Method		When enabled (On), the system will support the R-port SIP Method for NAT traversal.	On	Off On
Use Single Code Only		When enabled, the system will employ only the codec specified in PGM 340 Flexible button 6. If unavailable at the remote end, the call is dropped.	Off	Off On
Remote Part ID		When enabled (On), the system supports the Remote Party Header in SIP messages.	Off	Off On
181 Message		When enabled (On), the 181 forwarding message is supported.	On	Off On
IP Centrex		When enabled, the system will support IP Centrex services from a Broadworks platform.	Off	Off On

Dial Pad Character Chart

1 – 10	2 – 20	3 – 30
'.' – 13	A – 21	D – 31
Q – 11	B – 22	E – 32
Z – 12	C – 23	F – 33
4 – 40	5 – 50	6 – 60
G – 41	J – 51	M – 61
H – 42	K – 52	N – 62
I – 43	L – 53	O – 63
7 – 70	8 – 80	9 – 90

P – 71	T – 81	W – 91
Q – 72	U – 82	X – 92
R – 73	V – 83	Y – 93
S – 74		Z – 94
$*$ - $*$0	**0** – 00	**#**
Blank - $*$1		
':' - $*$2		
',' - $*$3		

3.12.4 SIP Attributes II (PGM 501, PC Admin only)

PGM 501 is one of two PGMs used to configure SIP operation, see also PGM 500.

Procedure:

1. PC Admin only.

PGM 501	Flex Btn	Description	Default	Values
User ID		This parameter defines the SIP User Id that is used in the SIP 'From' header (ex: caller@call.domain). The Id is also used by the SIP Call server in the 'To' header to route calls to the user.	Not assigned	Max 64 characters, see Dial Pad Character Chart
Authentication User Name		This parameter defines the User Name employed during the registration with the SIP Call server to authenticate the user.	Not assigned	Max 64 characters, see Dial Pad Character Chart
Authentication User Password		This parameter defines the Password associated with the User Name and is employed during registration with the SIP Call server to authenticate the user.	Not assigned	Max 64 characters, see Dial Pad Character Chart
Contact Number		This parameter defines the contact number used in the SIP 'Contact' header. Typically the contact number is the station or DID number associated with the contact.	Not assigned	Max 12 characters, see Dial Pad Character Chart
User ID Registration		This parameter determines if the SIP User Id will register with the SIP Call server as defined n RFC3261. When the parameter is set to provision, the User Id is not registered with the SIP Call server and a non-RFC method must be used to route SIP calls to the system.	Provision	Provision Register
User ID Usage		When enabled (On), the system will employ the User Id for CLI on SIP calls. In addition, if User ID Registration is set to register, the User ID will also be employed to register the user with the Call Server host.	Off	Off On

PGM 501	Flex Btn	Description	Default	Values
Associated Station		This parameter defines the station number associated with the SIP User Id when Centrex features are enabled (see also PGM 500, IP Centrex). (Intended for use with Broad Works soft-switch only)	Not assigned	Station Number

3.13 RSG/IP Phone (PGM 380 – 397)

3.13.1 VOIB Slot Assignment, RSG/IP Phone (PGM 380)

PGM 380 defines the number of channels reserved for IP Phones.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 380.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 380	Flex Btn	Description	Default	Values
VOIB Slot for RSG/IP Phones	1	This parameter defines the VOIB slot to employ for RSG modules and IP Phone. ip-60-60 supports a single slot, slot 10.	10	10
Channels for RSG/IP Phones	2	This parameter defines the number of VOIB channels reserved for RSG and IP Phones.	Not assigned	0 – 4 w/VOIB 0 – 8 w/VOIB & VOIU

3.13.2   RSG/IP Phone Ports Assignment (PGM 381)

PGM 381 defines the number of IP Phones.

Procedure:

1.   Press the **[TRANS PGM]** button.

2.   Dial 381.

3.   Select the desired Flexible button.

4.   Enter the appropriate value.

5.   Press the **[Hold/Save]** button.

PGM 381	Flex Btn	Description	Default	Values
RSG Number	1	This parameter assigns the number of RSG modules supported. The RSG is not supported in ip-60-60.		
IP Phone number	2	This parameter sets the number of IP Phones to be registered to the system.	Not assigned	0 - 16

3.13.3   RSG/IP Phone Attributes I (PGM 382)

PGM 382 configures attributes of RSGs and IP Phones registered with the system.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 382.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 382	Flex Btn	Description	Default	Values
Transfer Mode	1	This parameter defines the protocol layer used for communication between the IP phone and the system. ip-60-60 only supports IP.	0 (IP)	0 = IP 1 = MAC
Casting Mode	2	This parameter determines if the IP Phone will employ uni-cast or multi-cast signals when attempting to register with the ip-60.	0 (Uni-cast)	0 = Uni-cast 1 = Multi-cast
Tone Source	3	This parameter defines the tone source when connected to an RSGM. In the remote mode, the RSGM provides tones, which reduces rtp traffic.	0 (Remote)	0 = Remote 1 = LDK
Peer to Peer	4	When enabled (On), a peer-to-peer connection is established between two IP Phones in the same subnet and the call does not use a VOIB channel for RTP packets.	1 (On)	0 = Off 1 = On
Codec Type	5	This parameter defines the default codec used by the system for a VoIP connection. A different codec may be selected during the call set-up negotiation.	1 (G.711 u-Law)	0 = G.711_ALAW 1 = G.711_ULAW 2 = G.723.1 3 = G.729 4 = G.729A

PGM 382	Flex Btn	Description	Default	Values
First Access RSG CO	6	When enabled (On), the station accesses the CO line connected to the RSG by dialing the CO Line access code for the 1st available CO group (ex., 9). The RSG is not supported in ip-60-60.	1 (On)	0 = Off 1 = On
Ring without CO Ring Assign	7	When enabled, stations attached to the RSG will ring for incoming calls even if not assigned CO Ring (PGM 144). The RSG is not supported in ip-60-60.	1 (On)	0 = Off 1 = On

3.13.4   IP Phone Attributes (PGM 386)

PGM 386 defines the MAC address of IP Phones allowed to register and displays attributes of registered IP Phones.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 386.

3. Enter the Table index (01 – 16).

4. Select the desired Flexible button.

5. Enter the appropriate value.

6. Press the **[Hold/Save]** button.

PGM 386	Flex Btn	Description	Default	Values
Set MAC Address	1	This parameter defines the MAC address of each IP Phone, up to 16, the ip-60-60 should register to the system.	00-00-00-00-00-00	12-hex digits (0 ~ F)
IP Address Display	2	This Flexible button displays the IP Address of the IP phone.		Display only
Port View	3	This Flexible button displays the Station Number of IP phone.		Display only
Port Number View	4	This Flexible button displays the Port Number of IP phone.		Display only
NAT IP Address Display	5	This Flexible button displays the NAT IP Address of IP phone.		Display only
NAT Port Number	6	This Flexible button displays the NAT Port Numbers being used.		Display only
STUN Enabled	7	This Flexible button displays the IP Phone NAT-PAT status as NAT, PAT, NAT and PAT or None.		Display only

PGM 386	Flex Btn	Description	Default	Values
CTI Port	8	Not used, see PGM 126 Station IP List		
IPSEC	9	When this parameter is enabled (On), the VOIB implements IPSec for VoIP packet traffic.	0 (Off)	0 = Off 1 = On
Outside NAT Firewall	10	This parameter determines if the system provides packet relay for RTP packets; when behind a NAT Firewall, (Off) RTP packet relay is employed.	0 (Off)	0 = Off 1 = On
User ID	11	This parameter sets the User Id a Phontage user inputs to register with the ip-60. See Flexible button 12 for the corresponding Password.	Not assigned	12 characters
User Password	12	This parameter sets the Password a Phontage user inputs to register with the ip-60. See Flexible button 11 for the corresponding User Id.	Not assigned	12 characters

3.13.5   RSG/IP Phone Tx & Rx Gain Control (PGM 396 and 397)

PGM 396 and 397 establish Transmit and Receive audio gain for IP Phones.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 396 or 397.
3. Select the desired Flexible button.
4. Enter the appropriate value.
5. Press the **[Hold/Save]** button.

PGM 396	Flex Btn	Description	Default	Values
	1	RSG_IP Phone RX from DKTU	26	00 – 63
	2	RSG_IP Phone RX from SLT	33	00 – 63
	3	RSG_IP Phone RX from CTR SLT	22	00 – 63
	4	RSG_IP Phone RX from WKT	26	00 – 63
	5	RSG_IP Phone RX from ACO	33	00 – 63
	6	RSG_IP Phone RX from CTR ACO	22	00 – 63
	7	RSG_IP Phone RX from DCO	33	00 – 63
	8	RSG_IP Phone RX from VMIB	29	00 – 63
	9	RSG_IP Phone RX from DTMF	08	00 – 63
	10	RSG_IP Phone RX from TONE	32	00 – 63
	11	RSG_IP Phone RX from MUSIC 1	29	00 – 63
	12	RSG_IP Phone RX from MUSIC 2	29	00 – 63
	13	RSG_IP Phone RX from R_DKT	26	00 – 63
	14	RSG_IP Phone RX from R_SLT	22	00 – 63

PGM 396	Flex Btn	Description	Default	Values
	15	RSG_IP Phone RX from R_LCO	22	00 – 63
	16	RSG_IP Phone RX from IP Phone	26	00 – 63

PGM 397	Flex Btn	Description	Default	Values
	1	RSG_IP Phone TX to DKTU	26	00 – 63
	2	RSG_IP Phone TX to SLT	33	00 – 63
	3	RSG_IP Phone TX to CTR SLT	22	00 – 63
	4	RSG_IP Phone TX to WKT	26	00 – 63
	5	RSG_IP Phone TX to ACO	33	00 – 63
	6	RSG_IP Phone TX to CTR ACO	22	00 – 63
	7	RSG_IP Phone TX to DCO	33	00 – 63
	8	RSG_IP Phone TX to	29	00 – 63

3.14 Nation Specific Gain/Tone Tables *(PGM 400 - 424)*

PGMs 400 to 423 establish audio gain levels and tone frequencies. Defaults are based on the Country code.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial the PGM number (400 – 423).

3. Select the desired Flexible button.

4. Enter the appropriate value.

5. Press the **[Hold/Save]** button.

PGM 400 DTIB Gain	Flex Btn	Description	Default	Values
	1	DTIB/DTIB	30	00 – 63
	2	DTIB/SLIB	39	00 – 63
	3	Reserved		
	4	DTIB/WTIB	26	00 - 63
	5	DTIB/ACOB	22	00 – 63
	6	Reserved		
	7	DTIB/DCOB	33	00 – 63
	8	DTIB/VMIB	29	00 – 63
	9	DTIB/DTMF	08	00 – 63
	10	DTIB/TONE	22	00 – 63
	11	DTIB/MUSIC1	29	00 – 63
	12	DTIB/MUSIC2	29	00 – 63
	13	Reserved		

PGM 401 SLIB Gain	Flex Btn	Description	Default	Values
	1	SLIB/DTIB	32	00 – 63
	2	SLIB/SLIB	32	00 – 63
	3	Reserved		
	4	SLIB/WTIB	32	00 – 63
	5	SLIB/ACO	32	00 – 63
	6	Reserved		
	7	SLIB/DCO	44	00 – 63
	8	SLIB/VMIB	40	00 – 63
	9	SLIB/DTMF	28	00 – 63
	10	SLIB/TONE	28	00 – 63
	11	SLIB/MUSIC1	40	00 – 63
	12	SLIB/MUSIC2	40	00 – 63
	13	Reserved		

PGM 402 DTIB Spkr. Gain	Flex Btn	Description	Default	Values
	1	DTIB/DTIB	30	00 – 63
	2	DTIB/SLIB	39	00 – 63
	3	Reserved		
	4	DTIB/WTIB	26	00 - 63
	5	DTIB/ACOB	22	00 – 63
	6	Reserved		
	7	DTIB/DCOB	33	00 – 63

PGM 402 DTIB Spkr. Gain	Flex Btn	Description	Default	Values
	8	DTIB/VMIB	29	00 – 63
	9	DTIB/DTMF	08	00 – 63
	10	DTIB/TONE	22	00 – 63
	11	DTIB/MUSIC1	29	00 – 63
	12	DTIB/MUSIC2	29	00 – 63
	13	Reserved		

PGM 403 WTIB Gain	Flex Btn	Description	Default	Values
	1	WTIB/DTIB	26	00 – 63
	2	WTIB/SLIB	33	00 – 63
	3	Reserved		
	4	WTIB/WTIB	26	00 – 63
	5	WTIB/ACO	38	00 – 63
	6	Reserved		
	7	WTIB/DCO	33	00 – 63
	8	WTIB/VMIB	29	00 – 63
	9	WTIB/DTMF	08	00 – 63
	10	WTIB/TONE	37	00 – 63
	11	WTIB/MUSIC1	29	00 – 63
	12	WTIB/MUSIC2	29	00 – 63
	13	Reserved		

PGM 404 ACOB Gain	Flex Btn	Description	Default	Values
	1	ACOB/DTIB	22	00 – 63
	2	ACOBB/SLIB	32	00 – 63
	3	Reserved		
	4	ACOB/WTIB	31	00 – 63
	5	ACOB/ACOB	36	00 – 63
	6	Reserved		
	7	ACOB/DCO	38	00 – 63
	8	ACOB/VMIB	37	00 – 63
	9	ACOB/DTMF	36	00 – 63
	10	ACOB/TONE	37	00 – 63
	11	ACOB/MUSIC1	37	00 – 63
	12	ACOB/MUSIC2	37	00 – 63
	13	Reserved		
	14	ACO/Modem	37	00 – 63

PGM 406 DCOB Gain	Flex Btn	Description	Default	Values
	1	DCOB/DTIB	26	00 – 63
	2	DCOB/SLIB	26	00 – 63
	3	Reserved		
	4	DCOB/WTIB	26	00 – 63
	5	DCOB/ACOB	15	00 – 63
	6	Reserved		
	7	DCOB/DCOB	32	00 – 63
	8	DCOB/VMIB	32	00 – 63

PGM 406 DCOB Gain	Flex Btn	Description	Default	Values
	9	DCOB/DTMF	32	00 – 63
	10	DCOB/TONE	32	00 – 63
	11	DCOB/MUSIC1	32	00 – 63
	12	DCOB/MUSIC2	32	00 – 63
	13	Reserved		
	14	DCOB/MODEM	37	00 – 63

PGM 407 VMIB Gain	Flex Btn	Description	Default	Values
	1	VMIB/DTIB	21	00 – 63
	2	VMIB/SLIB	21	00 – 63
	3	Reserved		
	4	VMIB/WTIB	26	00 – 63
	5	DCOB/ACOB	23	00 – 63
	6	Reserved		
	7	DCOB/DCOB	32	00 – 63
	8	DCOB/MUSIC1	32	00 – 63
	9	DCOB/MUSIC2	32	00 – 63

PGM 408 DTMF Gain	Flex Btn	Description	Default	Values
	1	DTMF Rx/DTIB	32	00 – 63
	2	Reserved		
	3	DTMF Rx/ACOB	32	00 - 63
	4	Reserved		

PGM 408 DTMF Gain	Flex Btn	Description	Default	Values
	5	DTMF Rx/DCOB	32	00 – 63

PGM 409 External Page Gain	Flex Btn	Description	Default	Values
	1	External Page/DTIB	26	00 – 63
	2	External Page/SLIB	26	00 – 63
	3	Reserved		
	4	External Page/WTIB	26	00 – 63
	5	External Page/ACOB	28	00 – 63
	6	Reserved		
	7	External Page/DCOB	37	00 – 63
	8	External Page/VMIB	37	00 – 63
	9	External Page/MUSIC1	37	00 – 63
	10	External Page/MUSIC2	37	00 – 63
	11	Reserved		

PGM 410 CPT Gain	Flex Btn	Description	Default	Values
	1	Call Progress Tone/ACOB	32	00 – 63
	2	Reserved		
	3	Call Progress Tone /DCOB	32	00 – 63

PGM 411 Modem Gain	Flex Btn	Description	Default	Values

PGM 411 Modem Gain	Flex Btn	Description	Default	Values
	1	Modem/ACOB	20	00 – 63
	2	Reserved		
	3	Modem /DCOB	24	00 – 63

PGM 412 Short SLIB Gain	Flex Btn	Description	Default	Values
	1	Short SLIB/Short ACO (Intended for SAF only)	32	00 – 63
	2	Short SLIB/ Long ACO (Intended for SAF only)	32	00 – 63

PGM 413 Long SLIB Gain	Flex Btn	Description	Default	Values
	1	Long SLIB/Short ACO (Intended for SAF only)	32	00 – 63
	2	Long SLIB/ Long ACO (Intended for SAF only)	32	00 – 63

PGM 414 Far SLIB Gain	Flex Btn	Description	Default	Values
	1	Far SLIB/Short ACO (Intended for SAF only)	32	00 – 63
	2	Far SLIB/ Long ACO (Intended for SAF only)	32	00 – 63

PGM 415 Short ACO Gain	Flex Btn	Description	Default	Values
	1	Short ACO/Short SLIB (Intended for SAF only)	32	00 – 63
	2	Short ACO/Long SLIB (Intended for SAF only)	32	00 – 63
	34	Short ACD/Far SLIB (Intended for SAF only)	32	00 – 63
	4	Short ACO/DTIB (Intended for SAF only)	26	00 – 63

PGM 416 Long ACO Gain	Flex Btn	Description	Default	Values
	1	Long ACO/Short SLIB (Intended for SAF only)	32	00 – 63
	2	Long ACO/Long SLIB (Intended for SAF only)	32	00 – 63
	3	Long ACD/Far SLIB (Intended for SAF only)	32	00 – 63
	4	Long ACO/DTIB (Intended for SAF only)	32	00 – 63

PGM 417 MBU DSP Rx Gain	Flex Btn	Description	Default	Values
	1	ACO SMS	24	00 – 63
	2	DCO SMS	38	00 – 63
	3	SLT SMS	17	00 – 63
	4	ACO DTMF CID/DTIB	38	00 – 63
	5	ACO FSK CID	38	00 – 63

PGM 418 MBU DSP Tx Gain	Flex Btn	Description	Default	Values
	1	ACO SMS	32	00 – 63
	2	DCO SMS	38	00 – 63
	3	SLT SMS	32	00 – 63
	4	SLT FSK CID	32	00 – 63

PGM 420 System Tone Frequency	Flex Btn	Description	Default	Values
	Dial 1	Dial Tone	0350, 0440	Two 4-digit numbers
	Dial 2	Ring Back Tone	0440, 0480	Two 4-digit numbers
	Dial 3	Busy Tone	0480, 0620	Two 4-digit numbers
	Dial 4	Error Tone	0480, 0620	Two 4-digit numbers
	Dial 5	Dummy Dial Tone	0350, 0440	Two 4-digit numbers

PGM 421 Differential Ring Frequency	Flex Btn	Description	Default	Values
	Dial 1	Ring 1	1000, 1020	Two 4-digit numbers
	Dial 2	Ring 2	0890, 0910	Two 4-digit numbers
	Dial 3	Ring 3	1260, 1280	Two 4-digit numbers
	Dial 4	Ring 4	0800, 0820	Two 4-digit numbers

PGM 422 Distinctive Ring Frequency	Flex Btn	Description	Default	Values
	Dial 1	Ring 1	0480, 0000	Two 4-digit numbers
	Dial 2	Ring 2	0400, 0000	Two 4-digit numbers
	Dial 3	Ring 3	0620, 0000	Two 4-digit numbers
	Dial 4	Ring 4	0770, 0000	Two 4-digit numbers

PGM 423 ACNR Cadence	Flex Btn	Description	Default	Values
	Dial 1	ACNR Ring Back Tone	100 On 200 Off	000 – 255 in 20-milli-second increments
	Dial 2	ACNR Busy Tone	025 On 025 Off	000 – 255 in 20-milli-second increments
	Dial 3	ACNR Error Tone	012 On 012 Off	000 – 255 in 20-milli-second increments
	Dial 4	ACNR S-Dial Tone	150 On 000 Off	000 – 255 in 20-milli-second increments

PGM 424 DTIB ACO Rx Gain	Flex Btn	Description	Default	Values
	1	Short ACO (Intended for SAF only)	37	00 – 63
	2	Long ACO (Intended for SAF only)	42	00 – 63

3.15 Initialization (PGM 450)

PGM 450 is used to initialize all or sections of the ip-60 database and can be used activate a software reset of the system. After selecting the data to initialize, the system must be reset, use either Flexible button 15, the system reset switch or power cycling.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 450.
3. Select the desired Flexible button for the data to initialize.
4. Select Flexible button 15 to reset the system and initialize the selected data.
5. Press the **[Hold/Save]** button to initialize the database selected.

PGM 450	Flex Btn	Description	Default	Values
Flexible Numbering Plan	1	Initializes PGM105, PGM106 & PGM107		
Station Database	2	Initializes PGM110 - 114, PGM 116 - 119, PGM121,PGM122, PGM124 & PGM179		
CO Line Database	3	Initializes PGM140 - PGM144		
System Feature Database	4	Initializes PGM160 – PGM 177, PGM108		
Station Group Database	5	Initializes PGM190 & PGM191		
ISDN Tables Database	6	Initializes PGM201, PGM202 & PGM231		
Reserved	7			

PGM 450	Flex Btn	Description	Default	Values
System Timer Database	8	Initializes PGM180 – PGM182		
Toll Table Database	9	Initializes PGM224 & PGM225		
LCR Database	10	Initializes PGM220 – PGM222		
Tables	11	Initializes PGM227 – PGM229 & PGM232 – PGM234		
Flexible Button Program	12	Initializes PGM115		
Networking Database	13	Initializes PGM 320 - PGM 324		
All Database	14	Initializes all of the database		
System Reset By Software	15	Resets the ip-60 system		
DID Reroute Table	16	Reroute Destination assigned in PGM 231		
Board Data	17	Initializes PGM 340, 341 & 155		
Enblock Prefix Table	18	Initializes PGM 205		

3.16 Print Prot. Database (PGM 451)

PGM 451 outputs the database values for the various program sections.

Procedure:

1. Press the **[TRANS PGM]** button.
2. Dial 451.
3. Select the desired Flexible button.
4. For CO and Station programs, enter the range to output
5. Press the **[Hold/Save]** button, to output data.

PGM 451	Flex Btn	Description	Default	Values
Flexible Numbering Plan	1	This selection outputs the Flexible Numbering Plan.		
Station	2	This selection outputs the Station Database.		Enter station range
CO line	3	This selection outputs the CO Line Database.		Enter CO line range
System	4	This selection outputs the System Feature Database.		
ISDN	5	This selection outputs the Station Group Database.		
ISDN Tables	6	This selection outputs the ISDN Tables Database.		
System Timers	7	This selection outputs the System Timer Database.		
Toll Table	8	This selection outputs the Toll Table Database.		
LCR	9	This selection outputs the LCR Database.		
Other Tables	10	This selection outputs the Other Tables.		
Nation Specific	11	This selection outputs the Nation Specific Database.		
Flexible buttons	12	This selection outputs the Flexible Button Program.		Enter station range

PGM 451	Flex Btn	Description	Default	Values
Networking	*13*	*This selection outputs the Networking Data.*		
All Database	*14*	*This selection outputs the database for all PGMs.*		
LCD Message Print	*15-1*	*This selection followed by Flexible button 1 outputs the Fixed and Custom Display Messages in the selected language*	*00 (English)*	*00 = English* *01 = Italian* *02 = Finnish* *03 = Dutch* *04 = Swedish* *05 = Danish* *06 = Norwegian* *07 = Hungarian* *08 = German* *09 = French* *10 = Portuguese* *11 = Spanish* *12 = Korean* *13 = Estonian* *14 = Russian* *15 = Turkish*
	15-2	*This selection followed by Flexible button 2 outputs displays for a normal, DECT phone display or Large DKT display*		*0 = Normal* *1 = LG-GAP* *2 = Large*
End Print	*16*	*This selection terminates the print output.*		

3.17 Initialize Database by MPB Version (PGM 452)

PGM 452 permits initialization of the system database based on the software version.

Procedure:

1. Press the **[TRANS PGM]** button.

2. Dial 452.

3. Select the desired Flexible button.

4. Press the **[Hold/Save]** button to initialize.

PGM 452	Flex Btn	Description	Default	Values
Ver. 3.7	1	When upgrading a system to a 3.7 or 3.8 version system software, new database parameters must be set to the default values. The entire database may be set to default or using this program only the new parameters are set to default. Flexible button 1 is used when upgrading to version 3.7 and Flexible button 2 is used when upgrading to version 3.8.		
Ver. 3.8	2			

4 ADMIN REFERENCE CHARTS

4.1 Admin Program Code Index

Admin Program Index Chart

Main Menu	PGM	Item
PRE-PROGRAMMED BASE	100	Location Program
	101	Board Assignment
	103	Logical Slot Assignment
	104	Numbering Plan Type
	105	Flexible Number Plan – Station Number
	106	Flexible Number Plan A
	107	Flexible Number Plan B
	108	IP Setting
	109	Flexible Number Plan C
STATION BASE	110	Station ID
	111	Station Attribute I
	112	Station Attribute II
	113	Station Attribute III
	114	Station Attribute IV
	115	Flex Button Assignment
	116	Station COS
	117	CO Line Group Access
	118	Internal Page Zone
	119	Conference Page Zone

Main Menu	PGM	Item
	120	ICM Tenancy Group
	121	Preset Call Forward
	122	Idle Line Selection
	124	SMDR Account Group
	125	Copy DSS Button
	126	Station IP List
	127	Station Voice Mailbox Attributes
	129	Virtual Voice Mailbox Attributes
	130	Display Stations by COS
	131	Display Stations by CO Line Group Access
CO LINE BASE	140	CO Service Type
	141	CO Line Attribute I
	142	CO Line Attribute II
	143	ISDN CO Line Attribute I
	144	CO Ring Assignment
	145	CO Ring Assignment Display
	146	CO Line Attribute III
	147	CO CID Attribute
T1 Lines	152	T1 CO Line Attributes
SLOT BASE	155	Board Attribute
SYSTEM BASE	160	System Attribute – I
	161	System Attribute – II
	162	ADMIN Password
	163	Alarm Attributes
	164	Attendant Assignment

Main Menu	PGM	Item
	165	Auto Attendant VMIB Announcements
	166	CO-to-CO COS
	167	DID/DISA Destination
	168	External Control Contact
	169	LCD Date/Time/Language Display Mode
	170	Modem
	171	Music
	172	PBX Access Code
	173	PLA Priority Setting
	174	RS-232C Port Setting
	175	Print Port Selection
	176	Pulse Dial Ratio
	177	SMDR Attributes
	178	System Date/Time Setting
	179	Linked Station Pairs Table
SYSTEM TIMERS	180	System Timers – I
	181	System Timers – II
	182	System Timers – III
	183	In Room Indication
	184	Chime Bell Attribute
DCOB ATTRIBUTES	186	DCOB System attribute
	187	DCOB CO Line Attribute
STATION GROUP	190	Station Group Assign
	191	Station Group Attribute

Main Menu	PGM	Item
ISDN SYSTEM BASE	*200*	*System ISDN Attribute*
	201	*COLP Table Entry*
	202	*MSN Table Attribute*
TABLES	*204*	*Local Code Table*
	205	*Enblock Prefix Table*
	220	*LCR Attributes*
	221	*LCR – Leading Digit Table*
	222	*LCR – Digit Modification Table*
	223	*LCR Table Initialization*
	224	*Toll Exception Table – Allow A (Entry no:01-50)*
		Toll Exception Table – Deny A (Entry no:01-50)
		Toll Exception Table – Allow B (Entry no:01-50)
		Toll Exception Table – Deny B (Entry no:01-50)
	225	*Canned Toll Table –Allow (Entry no:01-20)*
		Canned Toll Table –Deny (Entry no:01-20)
	226	*Emergency Code Table*
	227	*Authorization Code Table*
	228	*Customer Call Routing*
	229	*Executive/Secretary Table*
	231	*Flexible DID Table*
	232	*System Speed Zone*
	233	*Weekly Time Table*
	234	*Voice Mail Dialing Table*
	236	*Mobile Extension*
	237	*Incoming CLI destination table*
	238	*Voice Mailbox COS Table*

Main Menu	PGM	Item
	250	Hot Desk Agents
SMS ATTRIBUTES	291	SMS SETTING
	292	SMS CO ATTRIBUTE
NETWORKING	320	Networking Basic Attribute
	321	Networking Supplementary Attribute
	322	Networking CO Line Attribute
	324	Networking Routing Table
VOIB	340	VOIB IP Setting
	341	GK Setting (Not Supported yet)
SIP ATTRIBUTES	500	SIP Attributes 1
	501	SIP Attributes 2
RSG/IP PHONE	380	VOIB Slot For RSG/IP
	381	RSG/IP No Assign
	382	RSG/IP Attribute
	386	IP Phone Attribute
	396	IP Phone RX GAIN
	397	IP Phone TX GAIN
NATION SPECIFIC	400	DTIB Rx Gain Control
	401	SLIB Rx Gain Control
	402	DTIB Spkr Gain Control
	404	ACOB Rx Gain Control
	406	DCOB Rx Gain Control
	407	VMIB Rx Gain Control
	408	DTMF Receiver Rx Gain Control
	409	EXT Page Rx Gain Control

Main Menu	PGM	Item
	410	CPTU Rx Gain Control
	411	Modem Rx Gain Control
	412	Short SLIB Gain Control
	413	Long SLIB Gain Control
	414	Far SLIB Gain Control
	415	Short ACO Gain Control
	416	Long ACO Gain Control
	417	MBU DSP RX Gain
	418	MBU FSK TX Gain
	420	System Tone Frequency
	421	Differential Ring Frequency
	422	Distinct CO Ring Frequency
	423	ACNR Tone Cadence
	424	DTIB Rx From ACO Gain Control
INITIALIZATION	450	Initialization
PRINT DATABASE	451	Print Port Database
INITIALIZE BY MPB VERSION	452	Initialize for specific MPB S/W version (3.7 or 3.8)

4.2   Default Flexible Number Plans

Flexible Numbering Plans Chart

PGM	Flexible Button	Item	Plan 1	Plan 2	Plan 3	Plan 4	Plan 5	Plan 6	Plan 7	Plan 8
PGM 105		Station Numbering	100 ~ 147	100 ~ 147	100 ~ 147	700 ~ 747	200 ~ 247	10 ~ 57	100 ~ 147	100 ~ 147
PGM 106	1	Station Group Pilot Range	620 ~ 629	*620 ~ *629	620 ~ 629	620 ~ 629	620 ~ 629	*620 ~ *629	620 ~ 629	*620 ~ *629
	2	Internal Page Zone Range	501 ~ 510	*501 ~ *510	#01 ~#10	#01 ~#10	#01 ~#10	*501 ~ *510	401 ~ 410	*501 ~ *510
	3	Internal All Call Page	543	*543	#5	#7	#5	*543	43	*543
	4	Meet Me Page	544	*544	##		##	*544	44	*544
	5	External Page Zone	545	*545	#6	#41	#6	*545	45	*545
	6	All Call Page (Internal/External)	549	*549	#00	#6	#00	*549	49	*549
	7	SMDR Account Code	550	*550	550	550	50	*550	50	*550
	8	Flash Command to CO Line	551	*551	551	551	51	*551	51	*551
	9	Last Number Redial (LNR)	552	*552	552	552	52	*552	52	*552
	10	Do-Not-Disturb	553	*553	553	553	53	*553	53	*553
	11	Call Forward	554	*554	554	554	54	*554	54	*554
	12	Speed Dial Program	555	*555	555	*40	55	*555	55	*555
	13	Activate MSG Wait/Call-Back, SLT	556	#556	556	566	56	#556	56	#556
	14	MSG Wait/Call Back Return Call, SLT	557	#557	557	567	57	#557	57	#557
	15	Speed Dial Access	558	*558	558	*7	58	*558	58	*558

PGM	Flexible Button	Item	Plan 1	Plan 2	Plan 3	Plan 4	Plan 5	Plan 6	Plan 7	Plan 8
	16	Cancel DND/CFW/Pre-Selected MSG	559	*559	559	559	59	*559	59	*559
	17	SLT Hold, SLT only	560	*560	560	560	690	*560	30	*560
	18	Virtual Voice Mailbox	200 ~ 249	*200 ~ *249	200 ~ 249	200 ~ 249	100 ~ 149	100 ~ 149	200 ~ 249	200 ~ 249
	19	Reserved								
	20	SLT Program Mode Select, SLT only	563	*563	563	563	693	*3	33	*3
	21	ACD Reroute	564	*564	564	564	694	*4	34	*4
PGM 107	1	Alarm Reset	565	*565	565	*565	695	*565	35	*565
	2	Group Call Pickup	566	*566	**	*1	**	*566	36	*566
	3	UCD Group DND	568	*568	568	568	698	*568	68	*568
	4	Night Answer	569	*569	577	2	699	*569	69	*569
	5	Call Park Location Range	601-610	*601-*610	601-610	601-610	601-610	*601-*610	601 ~ 610	*601-*610
	6	Direct Call Pick-Up	7	*7	*7	*42	7	*7	7	*7
	7	Access CO Line Group	801-824	801-824	801-824	401 ~ 424	801-824	801-824	801-824	#801~ #824
	8	Access Individual CO Line	88 + CO	88 + CO	88 + CO	48 + CO	88 + CO	88 + CO	88 + CO	#88 + CO
	9	Reserved								
	10	Access Held CO Line Group	8*	8*	8*	4*	8*	8*	8*	#8*
	11	Access Held Individual CO Line	8# + CO	8# + CO	8# + CO	4# + CO	8# + CO	8# + CO	8# + CO	#8#
	12	Access to CO Line in the 1st Available CO Line	9	9	9	1	0	9	9	0

PGM	Flexible Button	Item	Plan 1	Plan 2	Plan 3	Plan 4	Plan 5	Plan 6	Plan 7	Plan 8
		Group								
	13	Attendant Call	0	0	0	0	9	0	0	#9
	14	Door Open – 1	#*1	#*1	#*1	#*1	#*1	#*1	#*1	#*1
	15	Door Open – 2	#*2	#*2	#*2	#*2	#*2	#*2	#*2	#*2
	16	Door Open – 3	#*3	#*3	#*3	#*3	#*3	#*3	#*3	#*3
	17	Door Open – 4	#*4	#*4	#*4	#*4	#*4	#*4	#*4	#*4
	18	VM MSG Wait Enable	*8	*8	*8	*8	*8	*8	*8	*8
	19	VM MSG Wait Cancel	*9	*9	*9	*9	*9	*9	*9	*9
PGM 109	1	Reserved								
	2	Reserved								
	3	Reserved								
	4	Conference Room	57 + Room	*57 + Room	*57 + Room	57 + Room	57 + Room	*57 + Room	*57 + Room	*57 + Room
	5	SLT Conference Page Join	58	*58	*58	58	58	*58	*58	*58
	6	Extend Unsupervised Conference	##	##	*##	*##	*##	##	##	##
	7	Remote Mobile Extension Control	#1	#1	*#1	*#1	*#1	#1	#1	#1

5 QUICK REFERENCE CHARTS

5.1 Station User Program Codes

Station User Program Codes Chart

Code	ITEM	REMARK
11	Differential Ring	Keyset
12	Intercom Answer Mode (1 HF / 2 TONE / 3 PV)	Keyset
13	SMS Message Display	LDP Keyset
14	Enblock Mode	LDP Keyset
15	SMS/ Notice Display	LDP Keyset
16	Scroll Speed	LDP Keyset Not supported in ip-60-60
17	Ear-Mic Headset	LDP Keyset
18	ICM Bell	LDP Keyset
19	CO Bell	LDP Keyset
1#	PTT Group	
21	Station COS Down	
22	Station COS Restore	
23	Walking COS	Keyset
24	COS Change	Keyset
25	SMS INBOX	Keyset
26	Delete All SMS Message	Keyset
31	Authorization Code Registration	
32	Authorization Code Change	

Code	ITEM	REMARK
33	Registration Mobile - Extension	
34	Active Mobile - Extension	
35	Register Mobile-Extension CLI	
36	Active Mobile Hunt	
37	Msg Wait Notice To Mobile-Extension	
41	Wake-up Time Registration (One-time/ Continuous)	
42	Wake-up Time Cancel	
43	Activate Conference Room	
44	Deactivate Conference Room	
451	Call Coverage Mode	
452	Call Coverage Delay Ring Cycle	
51	Pre-selected MSG Activation	
52	Set Custom Message	
61	Record VMIB User Greeting	
62	Play Time & Date	
63	Play Station Number	
64	Play Station Status	
65	Record VMIB Page Message	
66	Erase VMIB User Greeting	
67	Erase VMIB Page Message	
68	Outbound Notification Menu	1 = Activate 2 + (0~9) = Retry Count 3 + (0~9 minutes) = Interval
69	Outbound Notify Number	
60	E-mail Notification	
6*	Record User Name	

Code	ITEM	REMARK
6#	Erase User Name	
71	LCD Display Mode (English/Domestic Language)	Keyset
72	MPB Version Display	Keyset
73	Background Music	Keyset
74	Station User Name Registration	
75	Headset/Speakerphone Mode	Keyset
76	Headset Ring Mode	Keyset
77	WTU Station Number Receive	Keyset Not supported in ip-60-60
78	Serial No/SW Packages	Keyset with LCD
79	PC – Phone Lock Key	
**	Hot desk Logout	
*0	Hot desk Login	
*1	Relocation Out	
*2	Relocation IN	
*3	Register Bluetooth	Not supported in ip-60-60
*4	Bluetooth Usage	Not supported in ip-60-60

5.2   Attendant User Program Codes

Attendant User Program Codes Chart

Code	ITEM	REMARK
0111	Print SMDR (Station Base)	System Attendant
0112	Delete SMDR (Station Base)	System Attendant
0113	Print SMDR (Group Base)	System Attendant
0114	Delete SMDR (Group Base)	System Attendant
0115	Display Call Charge	System Attendant
0116	Abort Printing	System Attendant
0117	Print Lost Call	System Attendant
0118	Delete Lost Call	System Attendant
0121	Print All Summary	System Attendant
0122	Print All Periodically	System Attendant
0123	Abort Periodic Printing	System Attendant
0124	Print ATD Traffic	System Attendant
0125	Print Call Summary	System Attendant
0126	Print All Hourly	System Attendant
0127	Print H/W Usage	System Attendant
0128	Print CO Summary	System Attendant
0129	Print CO Hourly	System Attendant
021	Set ICM Only Mode	Attendant
022	Restore COS	Attendant
031	Change Authorization	System Attendant
041	Change Date/Time	Attendant
042	Set Wake up	Attendant

Code	ITEM	REMARK
043	Disable Wake Up	System Attendant
044	LCD Date Mode Change	System Attendant
045	LCD Time Mode Change	System Attendant
046	Use PX(Network) Time & Date	System Attendant
047	Monitor Conference Room	Attendant
048	Forced Delete Conference Room	Attendant
051	Pre-select MSG Activation	Attendant
052	Pre-select MSG Deactivation	Attendant
053	Custom Display Message Program (11-20)	System Attendant
054	Reserved	
06	Record VMIB System Greeting	System Attendant
071	DND/Call Forward/Pre-selected MSG Cancel	Attendant
072	Register Station Name	Attendant
073	Disable CO Outgoing	System Attendant
074	Automatic Day/Night/Weekend Mode Program	Attendant
075	ICM BOX BGM Channel select	Attendant
076, 077, 078	External Page Music -1,2 and 3, toggle On/Off	Attendant
079	Prepaid Call	
07*	LCD Display Language	
091	Set Call Forward	Attendant
0#	WHTU Subscription	Not supported in ip-60-60

5.3 Flexible Button Program Codes

Flexible Button Program Codes Chart

Code	Item	Remark
11	Differential Ring	
12	Answer Mode +1=H, 2=T, 3=3	
21	Station COS Down	
22	Station COS Restore	
23	Walking COS	
31	Authorization Code Registration	
32	Authorization Code Change	
41	Wake-up Time Registration (One-time /Continuous)	
42	Wake-up Time Cancel	
46	Call Coverage + covered Station number	
47	Mailbox button + Mailbox number	
48	Call Screen, +1=Ring, +2=Speaker	
51	Pre-selected MSG Activation	
52	Set Custom Message	
53	CLIR Key	
54	Two Way Recording	
55	Attendant DND	Networking Only
56	Attendant Camp On (Queue) BTN Assignment	Attendant
57	Call Log Display	
61	Record VMIB User Greeting	
64	Listen VMIB Station Status	
66	Erase VMIB User Greeting	

Code	Item	Remark
71	LCD Display Mode (English/Domestic Language)	
73	Background Music	
74	Station User Name Registration	
75	Headset/Speakerphone Mode	
76	Headset Ring Mode	
80	Account Code Activation	
81	DID Call Wait	
83	[ICM Hold] BTN Assignment	
84	[LOOP] BTN Assignment	
85	[Camp-on] BTN Assignment	
86	[INTRUSION] BTN Assignment	System Attendant
87	[UCD DND] BTN Assignment	+ Hunt Grp No.(UCD group should be assigned)
89	Keypad Facility Key	
8*	{ACD STATUS} BTN Assignment	UCD group and ACD supervisor should be assigned
91	[CONF] BTN Assignment	2 & 8 Button DKT
92	[CALLBK] BTN Assignment	2 & 8 Button DKT
93	[DND/FWD] BTN Assignment	2 & 8 Button DKT
94	[FLASH] BTN Assignment	2 & 8 Button DKT
95	[MUTE] BTN Assignment	2 & 8 Button DKT
96	[MON] BTN Assignment	2 & 8 Button DKT
97	[REDIAL] BTN Assignment	2 & 8 Button DKT
98	DID Restriction	
99	DISA Restriction	
9*	Call Recording via USB	Not supported in ip-60-60

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