NEC

UNIVERGE® SV9100

Programming Manual

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NEC Enterprise Communication Technologies, Inc.
3929 W. John Carpenter Freeway
Irving, TX 75063

PREFACE

THIS MANUAL

The Programming Manual provides the technician with all of the necessary information for programming the UNIVERGE SV9100 system.

Programming can be accomplished using a PC or a multiline terminal.

SUPPORTING DOCUMENTS

UNIVERGE SV9100 System Hardware Manual

The System Hardware Manual is provided for the system installer. This manual has detailed instructions for installing the SV9100 chassis, blades, multiline terminals, and optional equipment.

UNIVERGE SV9100 Features and Specifications Manual

This manual provides detailed information for each of the system features. If you are not familiar with the features, the Table of Contents lists each of the features and where to find the feature within the manual.

UNIVERGE SV9100 Networking Manual

This manual provides information on networking the SV9100 using K-CCIS, IP K-CCIS, and NetLink.

UNIVERGE SV9100 PC Programming Manual

This manual provides information on installing and using the application that allows programming the SV9100 system via a computer.

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Introduction

Chapter 1

SECTION 1 BEFORE YOU START PROGRAMMING

> STOP *Before customizing your system be sure to read this chapter first.*

This chapter provides you with detailed information about the system programs. By changing a program, you change the way the feature associated with that program works. In this chapter, you find out about each program, the features that the program affects and how to enter the program data into system memory.

SECTION 2 HOW TO USE THIS MANUAL

This section lists each program in numerical order. For example, Program 10-01 is at the beginning of the section and Program 92-01 is at the end. The information on each program is subdivided into the following headings:

Description describes what the program options control. The Default Settings for each program are also included. When you first install the system, it uses the Default Setting for all programs. Along with the Description are the ***Conditions*** which describe any limits or special considerations that may apply to the program.

The reverse type (white on black) just beneath the Description heading is the program access level. You can only use the program if your access level meets or exceeds the level the program requires. Refer to Section 3 How to Enter Programming Mode on page 1-2 for a list of the system access levels and passwords.

Feature Cross Reference provides you with a table of all the features affected by the program. You will want to keep the referenced features in mind when you change a program. Customizing a feature may have an effect on another feature that you did not intend.

Telephone Programming Instructions shows how to enter the program data into system memory. For example:

1. Enter the programming mode.

2. 15-07-01

```
15-07-01    TEL
KY01 = *01
  ←                  →
```

tells you to enter the programming mode, dial 150701 from the telephone dial pad. After you do, you will see the message “15-07-01 TEL” on the first line of the telephone display. This indicates the program number (15-07), item number (01), and that the options are being set for the extension. The second row of the display “KY01 = ∗01” indicates that Key 01 is being programmed with the entry of ∗01. The third row allows you to move the cursor to the left or right, depending on which arrow is pressed. To learn how to enter the programming mode, refer to Section 3 How to Enter Programming Mode below.

SECTION 3 HOW TO ENTER PROGRAMMING MODE

To enter programming mode:

1. Go to any working display telephone.
   In a newly installed system, use extension (port 1).

2. *Do not* lift the handset.

3. Press **Speaker**.

4. **# ∗ # ∗** .

```
Password
```

5. Dial the system password + **Transfer**.

   Refer to the following table for the default system passwords. To change the passwords, use 90-02 : Programming Password Setup.

Password	User Name	Level	Programs at this Level
12345678	**tech**	2 (IN)	Installation (IN): All programs in this section not listed below for SA and SB
0000	**ADMIN1**	3 (SA)	System Administrator – Level 1 (SA): 10-01, 10-02, 10-12, 10-13, 10-14, 10-15, 10-16, 10-17, 10-18, 10-22, 12-02, 12-03, 12-04, 15-01, 15-07, 15-09, 15-10, 15-11, 20-16, 21-07, 21-14, 22-04, 22-11, 25-08, 30-03, 32-02, 40-02, 41-02, 41-03, 41-04, 41-05, 41-06, 41-07, 41-08, 41-09, 41-10, 41-11, 41-12, 41-13, 41-14, 41-15, 41-16, 41-17, 41-18, 90-03, 90-04, 90-06, 90-07, 90-18, 90-19

Password	User Name	Level	Programs at this Level
9999	**ADMIN2**	4 (SB)	System Administrator – Level 2 (SB): 13-04, 13-05, 13-06

SECTION 4 HOW TO EXIT PROGRAMMING MODE

To exit the programming mode:

When you are done programming, you must be out of a program option to exit (pressing the **Answer** key will exit the program option).

1. Press **Answer** key to exit the program options, if needed.

   Program Mode
   Base Service OP1 OP2

2. Press **Speaker**. If changes were to the system programming, "Saving System Data" is displayed.

3. The display shows "Complete Data Save" when completed and exits the telephone to an idle mode.
   To save a customer's database, a blank USB Drive is required. Insert the USB Drive into the GCD-CP10 or GCD-CP20 and, using Program 90-03, save the software to the USB Drive. (Program 90-04 is used to reload the customer data if necessary.) Note that a USB Drive can only hold one customer database. Each database to be saved requires a separate drive.

SECTION 5 USING KEYS TO MOVE AROUND IN THE PROGRAMS

Once you enter the programming mode, use the keys in the following chart to enter data, edit data and move around in the menus.

Table 1-1 SV9100 Terminal Keys for Entering Data

SV9100 Terminal Keys for Entering Data	
Use this key...	**When you want to...**
0~9 and ∗	Enter data into a program.
Transfer	Complete the programming step you just made (e.g., pressing **Enter** on a PC keyboard). When a program entry displays, press **Transfer** to bypass the entry without changing it.
Recall	Delete the entry to the left (e.g., pressing **Backspace** on a PC keyboard).
Hold	Delete or clear all characters to the right of the cursor.

Table 1-1 SV9100 Terminal Keys for Entering Data (Continued)

SV9100 Terminal Keys for Entering Data	
Use this key...	**When you want to...**
Answer	Exit one step at a time from the program window currently being viewed. For example, if programming item 5 in 15-03, pressing **Answer** allows you to enter a new option in program 15-03. Pressing **Answer** again allows you to select a new program in the 15-XX series. Pressing **Answer** a third time allows you to enter a new program beginning with **1**. Pressing **Answer** one last time brings you to the beginning program display, allowing you to enter any program number.
MIC	Switch between the different input data fields by pressing **MIC**. The cursor moves up to the top row of the display. Pressing **MIC** again moves the cursor back to the middle row.
LINE KEYS	Use pre-programmed settings to help with the program entry. These settings vary between programs from LINE 1 = 0 (off) and LINE 2 = 1 (on) to preset values for timers where LINE 1 = 5, LINE 2 = 10, LINE 3 = 15, etc. For programs with this option, the line key, which currently matches the programmed setting, lights steady. The display can also indicate Softkey, which will allow you to select the values as well (-1 and +1 will step through these pre-programmed settings.)
LINE KEY 1	Program a pause into a Speed Dialing bin.
LINE KEY 2	Program a recall/flash into a Speed Dialing bin.
LINE KEY 3	Program an @ into a Speed Dialing bin.
VOL ▲	Scroll backward through a list of entry numbers (e.g., from extension etc.) or through entries in a table (e.g., Common Permit Table). If you enter data and then press this key, the system accepts the data before scrolling forward.
VOL ▼	Scroll forward through a list of entry numbers (e.g., from extension etc.) or through entries in a table (e.g., Common Permit Table). If you enter data and then press this key, the system accepts the data before scrolling backward.

SECTION 6 PROGRAMMING NAMES AND TEXT MESSAGES

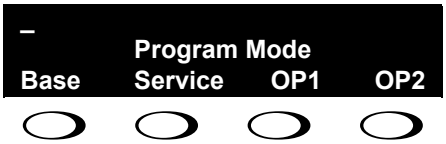
Several programs (e.g., Program 20-16 : Selectable Display Messages) require you to enter text. Use the following chart when entering and editing text. When using the keypad digits, press the key once for the first character, twice for the second character, etc. For example, to enter a C, press the key **2** three times. Press the key six times to display the lower case letter. The name can be up to 12 digits long.

Table 1-2 Keys for Entering Names

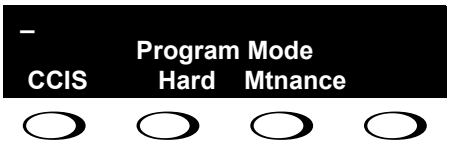
Use this keypad digit . . .	When you want to. . .
1	Enter characters: **1 @ [¥] ^ _ ` { | } ∅ ♦ Á À Â Ã Ç É Ê ì ó**
2	Enter characters: **A-C, a-c, 2**.
3	Enter characters: **D-F, d-f, 3**.
4	Enter characters: **G-I, g-i, 4**.
5	Enter characters: **J-L, j-l, 5**.
6	Enter characters: **M-O, m-o, 6**.
7	Enter characters: **P-S, p-s, 7**.
8	Enter characters: **T-V, t-v, 8**.
9	Enter characters: **W-Z, w-z, 9**.
0	Enter characters: 0 ! “ **#** $ % & ’ ( ) ô Õ ú ä ö ü α ε θ
∗	Enter characters: **∗** + , - . / : ; < = > ? **π Σ σ Ω ∞** ¢ £
#	**#** = Accepts an entry (only required if two letters on the same key are needed – ex: TOM). Pressing **#** again = Space. (In system programming mode, use the right arrow Softkey instead to accept and/or add a space.)
Conf	Clear the character entry one character at a time.
Hold	Clear all the entries from the point of the flashing cursor and to the right.

SECTION 7 USING SOFTKEYS FOR PROGRAMMING

Each UNIVERGE SV9100 display telephone provides interactive Softkeys for intuitive feature access. The options for these keys will automatically change depending on where you are in the system programming. Simply press the Softkey located below the option you wish and the display will change accordingly.



Pressing the VOLUME ▲ or VOLUME ▼ scrolls between the menus.



SECTION 8 WHAT THE SOFTKEY DISPLAY PROMPTS MEAN

When using a display telephone in programming mode, various Softkey options are displayed. These keys will allow you to easily select, scan, or move through the programs.

Table 1-3 Softkey Display Prompts

Softkey Display Prompts	
If you press this Softkey . . .	**The system will. . .**
back	Go back one step in the program display. You can press VOLUME ▲ or VOLUME ▼ to scroll forward or backward through a list of programs.
↑	Scroll down through the available programs.
↓	Scroll up through the available programs.
select	Select the currently displayed program.
←	Move the cursor to the left.
→	Move the cursor to the right.
-1	Move back through the available program options.
+1	Move forward through the available program options.

SECTION 9 SYSTEM NUMBER PLAN/CAPACITIES

The following table provides the capacities for the UNIVERGE SV9100 system.

Table 1-4 System Number Plan/Capacities

System Number Plan/Capacities	
System Type	**Number Plan/Capacities**
System	
Analog Caller ID Detector (detected by DSP)	80/144 channels
Classes of Service	15
Day/Night Mode Numbers	8
Day/Night Service Patterns	32
Dial Tone Detector DTMF Receiver	64
Toll Restriction Classes	15
Verifiable Account Code Table	2000
Trunk	
Trunk Port Number	400
Trunk Ports (Total): ○ Analog Trunks ○ BRI Trunk Ports ○ T1/PRI Trunk Ports ○ E&M Analog Trunk Ports ○ DID Analog Trunk Ports ○ VoIP Trunk Ports	400 176 176 400 44 88 400
DID Translation Tables	20
DID Translation Table Entries	4000
DISA: ○ Classes of Service ○ Users	 15 15
Ring Groups	100
Tie Line Classes of Service	15
Tie Line Toll Restriction Classes	15
Trunk Access Maps	400
Trunk Group Numbers	100
Trunk Routes	100

Table 1-4 System Number Plan/Capacities (Continued)

System Number Plan/Capacities	
System Type	**Number Plan/Capacities**
Extension	
Telephone Extension Ports ❍ Multiline Terminals ❍ Single Line Phones/Analog Devices ❍ VoIP Extensions ❍ SIP DECT Wireless	960 256 256 512 504
DLCA: ❍ Physical Ports	01~16
LCA: ❍ Physical Ports	01~16
Telephone Extension Number Range	1~89999999* (*Extension cannot start with 0 or 9)
Virtual Extension Ports	512
Virtual Extension Number Range	1~89999999* (*Extension cannot start with 0 or 9)
PGD(2)-U10 ADP	56
ADA (Recording Jack) Adapters	240
UNIVERGE SV9100 Wireless – SIP DECT Access Points	Unlimited
Door Boxes	8
Door Box Numbers	1~8
DSS Consoles Numbers: ❍ 60 Button DSS Console	32
Operator Access Number	0 (Default)
Operator Extension	15
Ringdown Assignments	960
SLT Adapters	16
HF-R Adapters	240

Table 1-4 System Number Plan/Capacities (Continued)

System Number Plan/Capacities	
System Type	**Number Plan/Capacities**
Speed Dialing	
Speed Dialing Groups	64
Speed Dialing Bins	0~9999
Speed Dialing Table-Common	1000
Contact Center	
Contact Center Groups	64
Contact Center Agent Extensions	960
ACI	
ACI Groups	16
ACI Ports	96
Automated Attendant	
VRS Message Numbers	1~100
Conference	
Conference Circuits	64 - maximum (32 Parties Per Conference) 96 - when the analog modem function is not used.
Data Communication Interfaces	
APR Software Port Numbers	449~512
APA Adapters	240
APR Adapters	240
Department and Pickup Groups	
Department (Extension) Group Numbers	1~64 1~128 (Version 10.0 or higher)
Call Pickup Group Numbers	1~64
Hotline	
Internal Hotline	960
External Hotline	960

Table 1-4 System Number Plan/Capacities (Continued)

System Number Plan/Capacities	
System Type	**Number Plan/Capacities**
Paging and Park	
Internal Page Group Numbers	0, 01~64 1~128 (Version 10.0 or higher)
External Page Group Numbers	0, 1~8
External Speakers ○ GCD-CP10 or GCD-CP20 ○ PGD(2)-U10 ADP	9 (1) (1~8)
Park Group Numbers	1~64
Park Orbits	1~64
SMDR	
SMDR Ports	1~8
VRS/VM8000 InMail	
VRS/VM8000 InMail	1
VRS/VM8000 InMail Channels	16 (Note 1)
VRS Attendant Messages	3
VRS Recordable Messages	100
VM8000 InMail Ports	8 (Note 1)
VoIP	
ADA2 (Recording Jack) Adapters	240
PSA (Power Failure) Adapters	256
RTP Ports	0~65535
RTCP Ports	0~65535
DSP Resources	256 (Note 2)

Note 1: The VRS/InMail supports up to 16 ports and they are shared by the VM8000 InMail and VRS.
Note 2: The maximum number of VOIP DSP Resources depend on which license is installed.

Passwords	
Programming Passwords:	
Level 1 (MF) PCPro/WebPro User Name:	47544 **necii**
Level 2 (IN) PCPro/WebPro User Name:	12345678 **tech**

Table 1-4 System Number Plan/Capacities (Continued)

System Number Plan/Capacities	
System Type	**Number Plan/Capacities**
Level 3 (SA) PCPro/WebPro User Name:	0000 **ADMIN1**
Level 4 (SB) PCPro/WebPro User Name:	9999 **ADMIN2**
Programming Password Users	8
Footnotes	
Extension numbers can be one to eight digits long. Refer to the Flexible System Numbering feature in the UNIVERGE SV9100 Features and Specifications Manual.	

Programming the UNIVERGE SV9100

Chapter 2

SECTION 1 PROGRAMMING YOUR SYSTEM

The information contained in this chapter provides the information necessary to properly program your UNIVERGE SV9100 system.

The programming blocks are organized into the following programming modes.

Table 2-1 Programming Modes

Program Number : Program Name
Program 10 : System Configuration Setup
Program 11 : System Numbering
Program 12 : Night Mode Setup
Program 13 : Abbreviated Dialing
Program 14 : Trunk, Basic Setup
Program 15 : Extension, Basic Setup
Program 16 : Department Group Setup
Program 20 : System Option Setup
Program 21 : Outgoing Call Setup
Program 22 : Incoming Call Setup
Program 23 : Answer Features Setup
Program 24 : Hold/Transfer Setup
Program 25 : VRS/DISA Setup
Program 26 : ARS Service
Program 30 : DSS/DLS Console Setup
Program 31 : Paging Setup
Program 32 : Door Box and Sensor Setup
Program 33 : CTA and ACI Setup
Program 34 : Tie Line Setup
Program 35 : SMDR Account Code Setup

Table 2-1 Programming Modes (Continued)

Program Number : Program Name
Program 40 : Voice Recording System
Program 41 : ACD Setup
Program 42 : Hotel Setup
Program 44 : ARS/F-Route Setup
Program 45 : Voice Mail Integration
Program 47 : InMail
Program 50 : Common Channel Interoffice Signaling Service (CCIS)
Program 51 : NetLink Service
Program 80 : Basic Hardware Setup for System
Program 81 : Basic Hardware Setup for Trunk
Program 82 : Basic Hardware Setup for Extension
Program 84 : Hardware Setup for VoIP
Program 90 : Maintenance Program
Program 92 : Copy Program
Program 93: System Information

Program 10 : System Configuration Setup

10-01 : Time and Date

Level:
SA

Description

Use **Program 10-01 : Time and Date** to change the system Time and Date through system programming. Extension users can also dial Service Code 828 to change the time if allowed by an extension Class of Service.

Input Data

Item No.	Item	Input Data	Default	Description
01	**Year**	13~97	No Setting	Enter 2 digits for year (13~97).
02	**Month**	01~12	No Setting	Enter 2 digits (01~12) for the month.
03	**Day**	01~31	No Setting	Enter 2 digits (01~31) for the day.
04	**Week**	1~7 (Sun~Sat)	No Setting	Enter digit for the day of the week (1=Sunday, 7=Saturday).
05	**Hour**	00~23	No Setting	Enter 2 digits for the hour (00~23).
06	**Minute**	00~59	No Setting	Enter 2 digits for the minute (00~59).
07	**Second**	00~59	No Setting	Enter 2 digits for the second (00~59).

Conditions
None

Feature Cross Reference

➥ **Clock/Calendar Display**

Program 10 : System Configuration Setup

10-02 : Location Setup

Level: SA

Description

Use **Program 10-02 : Location Setup** to define the location of the installed system.

Input Data

Item No.	Item	Input Data	Default	Description
01	**Country Code**	Dial (up to four digits): 0~9, ∗, #	1	Enter the country code.
02	**International Access Code**	Dial (up to four digits): 0~9, ∗, #	No setting	Enter the international access code.
03	**Other Area Access Code**	Dial (up to two digits): 0~9, ∗, #	9	Enter the other area access code
04	**Area Code**	Dial (up to six digits): 0~9, ∗, #	No setting	Enter the local area code.
05	**Trunk Access Code**	Dial (up to eight digits): 0~9, ∗, #	No setting	Enter the trunk access code digits required to place an outgoing call.

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-03 : ETU Setup

Level:
IN

Description

Use **Program 10-03 : ETU Setup** to setup and confirm the Basic Configuration data for each blade. When changing a defined terminal type, first set the type to 0 and then plug the new device in to have the system automatically define it or you may have to reseat the blade.

NOTE

The items highlighted in gray are read only and cannot be changed.

For CNF PKG Setup

Input Data

Physical Port Number	01~32

Item No.	Item	Input Data	Default
02	**Logical Port Number**	0~960	0

For DLCA PKG Setup s

Input Data

Physical Port Number	01~16

Item No.	Item	Input Data	Default
01	**Terminal Type (B1)**	0 = Not set 1 = Multiline Terminal 2 = SLT Adapter 3 = Bluetooth Cordless Handset (BCH) 4 = --- Not Used --- 5 = --- Not Used --- 6 = PGD(2)-U10 ADP (Paging) 7 = PGD(2)-U10 ADP (Tone Ringer) 8 = PGD(2)-U10 ADP (Door Box) 9 = PGD(2)-U10 ADP (ACI) 10 = DSS Console 11 = --- Not Used ---	0
02	**Logical Port Number (B1)**	0 = Not set 1 = Multiline Terminal (1~960) 2 = SLT Adapter (1~960) 3 = Bluetooth Cordless Handset (BCH) (1~960) 6 = PGD(2)-U10 ADP (Paging) (1~8) 7 = PGD(2)-U10 ADP (for Tone Ringer) (1~8) 8 = PGD(2)-U10 ADP (for Door Box) (1~8) 9 = PGD(2)-U10 ADP (for ACI) (1~96) 10 = DSS (1~32) 11 = --- Not Used ---	0
03	**Additional Data**	0 = No Setting 3 = BCH: 01 ~ 16	0
04	**--- Not Used ---**		
05	**--- Not Used ---**		

B-Channel 2			
Item No.	**Item**	**Input Data**	**Default**
06	**Terminal Type (B2)**	0 = Not set 6 = PGD(2)-U10 ADP (Paging) 7 = PGD(2)-U10 ADP (Tone Ringer) 8 = PGD(2)-U10 ADP (Door Box) 9 = PGD(2)-U10 ADP (ACI) 12 = APR (B2 Mode)	0

B-Channel 2			
Item No.	**Item**	**Input Data**	**Default**
07	**Logical Port Number (B2)**	0 = Not set 6 = PGD(2)-U10 ADP (Ext. Speaker) 7 = PGD(2)-U10 ADP (Paging/Tone Ringer) = (1~8) 8 = PGD(2)-U10 ADP (for Door Box) = (1~8) 9 = PGD(2)-U10 ADP (ACI) = (1~96) 12 = APR (for B2 mode) (193~896)	0
08	**Multiline Telephone Type**	0 = DT3** 1 = *D*^term^ 8 2 = *D*^term^ 7	0
09	**Side Option Information**	0 = No option 1 = 8LK Unit 2 = 16LK Unit 3 = 24ADM	0
10	**Bottom Option Information (Only applies to DTL–style telephones)**	0 = No option 1 = APR 2 = ADA 3 = BHA 4 = ---Not Used --- 5 = BCA	0
11	**Handset Option Information**	0 = No option 1 = PSA/PSD 2 = Bluetooth Cordless Handset (BCH)	0

For LCA PKG Setup

Input Data

Physical Port Number	01~16

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~960	0
03	**Transmit Gain Level (S-Level)**	1~57 (-15.5 +12.5dB)	32 (0dB)
04	**Receive Gain Level (R-Level)**	1~57 (-15.5 +12.5dB)	32 (0dB)

For COTA Unit Setup

Input Data

Physical Port Number	1~8

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~400	0

For GCD-PVAA Unit Setup

Input Data

Physical Port Number	01~200

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~400	0

For ODTA PKG Setup

Input Data

Physical Port Number	01~04

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~400	0
02	**2/4 Wire**	0 = 2 Wire 1 = 4 Wire	1
03	**E&M Line Control Method**	0 = TYPE I 1 = TYPE V	0

For DIOP PKG Setup

Input Data

Physical Port Number	01~04

Item No.	Item	Input Data	Default

01	**LD/OPX Specification**	0 = LD Trunk 1 = OPX	0
02	**Logical Port Number**	0 = 1~400 (LD Trunk) 1 = 1~960 (OPX)	0

For BRIA PKG Setup

Input Data

ISDN Line Number	01~04

Item No	Item	Input Data	Default
01	**ISDN Line Mode**	0 = Not Used 1 = T-Point 2 = S-Point (Not used) 3 = NW Mode (Leased Line) 4 = NW Mode (Interconnected Line) 5 = NW Mode (Interconnected Line, Fixed Layer1 = NT) 6 = S-Point (Leased Line) (Not used)	1
02	**Logical Port Number** ➨ *The starting port number of a BRI line is displayed. Two logic ports are automatically assigned to a BRI line.*	0 = Not Used 1 = T-Point (1~400) 2 = S-Point (1~960) (Not used) 3 = NW Mode (Leased Line) (1~256) 4 = NW Mode (Interconnected Line) (1~256) 5 = NW Mode (Interconnected Line, Fixed Layer1 = NT) (1~256) 6 = S-Point (Leased Line) (1~960) (Not used)	0
03	**Connection Type**	0 = Point-to-Multipoint 1 = Point-to-Point	0
04	**Layer 3 Timer Type** ➨ *Each timer value of Layer 3 is set up for every type using Program 81-06 (T-Bus).*	1~5	1
05	**CLIP Information Announcement** Based on this setting, the system includes a Presentation Allowed (1) or Presentation Restricted (0) in the Setup message to allow or deny the Calling Party Number. Program 15-01-04 must also be set to 1 if this option is enabled.	0 = Disable 1 = Enable	1
06	**Connection Bus Mode**	0 = Extended Passive Bus 1 = Short Passive Bus	0

Item No	Item	Input Data	Default
07	**S-point DDI digits**	0 ~ 4	0
08	**Dial Sending Mode** ISDN Protocol definition	0 = Enblock Sending 1 = Overlap Sending	1
09	**Dial Information Element** ISDN Protocol definition [Only when Dialing Sending Mode (10-03-08) is set for 1 (Overlap Sending]	0 = Keypad Facility 1 = Called Party Number	0
10	**Master/Slave System** If set to 0, system is synchronized to the network clock. If set to 1, system is not synchronized to the network clock. (For NW Mode)	0 = Slave System 1 = Master System	0
11	**Networking System No. (for NW Mode)**	0~50	0
14	**--- Not Used ---**		
15	**--- Not Used ---**		
17	**ISDN Line Ringback Tone** If Telco does not provide ringback tone, SV9100 can if set to 1 (Enable).	0 = Disable 1 = Enable	0
18	**Type of Number** ISDN Protocol definition	0 = Unknown 1 = International number 2 = National number 3 = Network specific number 4 = Subscriber number 5 = Abbreviated number	2
19	**Numbering Plan Identification** ISDN Protocol definition	0 = Unknown 1 = ISDN numbering plan 2 = Data numbering plan 3 = Telex numbering plan 4 = National standard numbering plan 5 = Private numbering plan	1
23	**Straight/Cross Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0
24	**--- Not Used ---**		

Item No	Item	Input Data	Default
25	**Layer 1 Supervision** When set to 0, Layer 1 deactivation is not considered to be a fault, so the channel can be usable and alarm #10 not issued. When set to 1, Layer 1 deactivation is considered to be a fault, so the channel will be skipped and alarm #10 issued.	0 = Disable 1 = Enable	0

For PRTA PKG Setup

Input Data

ISDN Line Number	01~24

Item No.	Item	Input Data	Default
01	**ISDN Line Mode**	0 = Not Used 1 = T-Point 2 = S-Point (Not used) 3 = NW Mode (Leased Line) 4 = NW Mode (Interconnected Line) 5 = NW Mode (Interconnected Line, Fixed Layer1 = NT) 6 = S-Point (Leased Line) (Not used)	1
02	**Logical Port Number** ➡ *The start port number of a PRI line is displayed.*	0 = Not used 1 = T-Point (1~400) 2 = S-Point (1~960) (Not used) 3 = NW Mode (Leased Line) (1~256) 4 = NW Mode (Interconnected Line) (1~256) 5 = NW Mode (Interconnected Line, Fixed Layer1 = NT) (1~256) 6 = S-Point (Leased Line) (Not used)	0
03	**CRC Multi-frame (CRC4)**	0 =Off 1 = On	1
04	**Layer 3 Timer Type** ➡ *Each timer value of Layer 3 is set up for each type in Program 81-06 (T-Bus)*	1~5	1

Item No.	Item	Input Data	Default
05	**CLIP Information** Based on this setting, the system includes a Presentation Allowed (1) or Presentation Restricted (0) in the Setup message to allow or deny the Calling Party Number. Program 15-01-04 must also be set to 1 if this option is enabled.	0 = Disable 1 = Enable	1
06	**Length of Cable**	0 = Level 1 (0~40m) 1 = Level 2 (40~81m) 2 = Level 3 (81~122m) 3 = Level 4 (122~162m) 4 = Level 5 (162~200m)	2
07	**--- Not Used ---**		
08	**Dial Sending Mode** ISDN Protocol definition	0 = Enbloc Sending 1 = Overlap Sending	0
09	**Dial Information Element** ISDN Protocol definition (Only when Dialing Sending Mode (10-03-08) is set for 1 (Overlap Sending)	0 = Keypad Facility 1 = Called Party Number	0
10	**Master/Slave System** If set to 0, system is synchronized to the network clock. If set to 1, system is not synchronized to the network clock. (For NW Mode)	0 = Slave System 1 = Master System	0
11	**Networking System No. (for NW Mode)**	0~50	0
13	**Loss-Of-Signal Detection Limit** If the transmit/receive voltage is less than the setting in 10-03-13, the system considers this as Loss-Of-Signal and the PRTA does not come up.	0 = Level 0 (lowest sensitivity) 1 = Level 1 2 = Level 2 3 = Level 3 4 = Level 4 5 = Level 5 6 = Level 6 7 = Level 7 (highest sensitivity)	2
14	**Service Protocol for S-Point**	0 = Keypad Facility 1 = Protocol for Aspire System	0
15	**Call Busy Mode for S-Point**	0 = Alerting 1 = Disconnect	0
16	**PRI Service Two B-Channel Transfer** Turn On or Off the ability to use the ISDN-PRI 2 B-Channel Transfer service.	0 = Off 1 = On	0

Item No.	Item	Input Data	Default
17	**ISDN Ringback Tone** If Telco does not provide ringback tone, SV9100 can if 10-03-17 is set to 1 (Enable).	0 = Disable 1 = Enable	1
18	**Type of Number** ISDN Protocol definition. Select the number type for the ISDN circuit.	0 = Unknown 1 = International number 2 = National number 3 = Network Specific number 4 = Subscriber number 5 = Abbreviated number	2
19	**Numbering Plan Identification** ISDN Protocol definition. Select the Numbering Plan used for the ISDN circuit.	0 = Unknown 1 = ISDN numbering plan 2 = Data numbering plan 3 = Telex numbering plan 4 = National standard numbering plan 5 = Private numbering plan	1
20	**Network Exchange Selection** Select the ISDN protocol for the ISDN circuit.	0 = Standard (same as NI-2) 1 = reserved 2 = reserved 3 = DMS (A211) 4 = 5ESS 5 = DMS (A233) 6 = 4ESS 7 = NI-2	0
21	**Number of Ports**	0 = Auto 1 = 4 Ports 2 = 8 Ports 3 = 12 Ports 4 = 16 Ports 5 = 20 Ports	0
23	**Straight/Cross Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0

For DTI (T1) PKG Setup

Input Data

Physical Port Number	01~24

Item No.	Item	Input Data	Default

01	**Logical Port Number** The start port number of a T1 line is displayed, and 24 logic ports are automatically assigned to a DTI (T1) line.	0~400	0
02	**T1 Signal Format Selection**	0 = D4 (12 Multi Frame) 1 = ESF (24 Multi Frame)	0
03	**Zero Code Suppression**	0 = B8ZS 1 = AMI/ZCS	0
04	**Line Length Selection**	0 = 0 feet ~ 133 feet 1 = 133 feet ~ 266 feet 2 = 266 feet ~ 399 feet 3 = 399 feet ~ 533 feet 4 = 533 feet ~ 655 feet	0
05	**T1 Clock Source**	0 = Internal 1 = External	1
06	**Number of Ports**	0 = Auto 1 = 4 Ports 2 = 8 Ports 3 = 12 Ports 4 = 16 Ports 5 = 20 Ports	0
07	**Straight/Cross Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0

For IPLE PKG Setup

Item No.	Item	Input Data
01	**VoIP Type**	IPLE
02	**Number of Channel**	256
03	**Number of Voice Channels**	256

For GCD-VM00 PKG Setup

Input Data

Physical Port Number	01~16

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~480	0

For GCD-CCTA PKG Setup

Input Data

Physical Port Number	01~24

Item No.	Item	Input Data	Default
01	**Logical Port Number** The start port number of a T1 line is displayed, and 24 logic ports are automatically assigned to a DTI (T1) line.	0~400	0
02	**T1 Signal Format Selection**	0 = D4 (12 Multi Frame) 1 = ESF (24 Multi Frame)	1
03	**Zero Code Suppression**	0 = B8ZS 1 = AMI/ZCS	0
04	**Line Length Selection**	0 = 0 feet ~ 133 feet 1 = 133 feet ~ 266 feet 2 = 266 feet ~ 399 feet 3 = 399 feet ~ 533 feet 4 = 533 feet ~ 655 feet	0
05	**T1 Clock Source**	0 = Internal 1 = External	1
06	**Number of Ports**	0 = Auto 1 = 4 Ports 2 = 8 Ports 3 = 12 Ports 4 = 16 Ports 5 = 20 Ports	0
07	**Straight/Cross Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0

Conditions

- When changing a defined terminal type, first set the type to 0 and then plug the new device in to have the system automatically define it, or redefine the type manually.
- The system must have a blade installed to view/change the options for that type of blade.

Feature Cross Reference

➥ **Universal Slots**

Program 10 : System Configuration Setup

10-04 : Music On Hold Setup

Level:
IN

Description

Use **Program 10-04 : Music on Hold Setup** to set the Music on Hold (MOH) source. For internal Music on Hold, the system can provide a service tone to callers on hold, or one of eleven synthesized selections.

Input Data

Item No.	Item	Input Data	Default	Description
01	**Music on Hold Source Selection**	0 = Internal MOH 1 = External MOH 2 = Service Tone 3 = VMDB	2	The Music on Hold (MOH) source can be internal (synthesized) or from a customer-provided music source. The customer-provided source can connect to a PGD(2)-U10 ADP or the connector on the side of the Base Cabinet MOH/ IN connection. Trunk MOH and Extension MOH music source use the same Music on Hold source.
02	**Music on Hold Tone Selection**	[If Item 1 is 0] 1 = Download File1 2 = Download File2 3 = Download File3 [If Item 1 is 1, 2, or 3] 1~100 = VRS Message Number	1	
03	**Audio Gain Setup**	1~57 (-15.5 ~ +12.5dB)	32 (0dB)	
04	**Sub-Music on Hold Source Selection**	0 = Follow PRG10-04-01 1 = Internal MOH 2 = External MOH 3 = VMDB	0	

Input Data

05	**Sub-Music on Hold Tone Selection**	[If Item 4 is 1] 0 = No Tone 1 = Download File1 2 = Download File2 3 = Download File3 [If Item 4 is 3] 0 = No Tone 1~100 = VRS Message Number	0	

Conditions

None

Feature Cross Reference

- **Analog Communications Interface (ACI)**
- **Background Music**
- **Music on Hold**

Program 10 : System Configuration Setup

10-05 : General Purpose Relay Setup

Level:
IN

Description

Use **Program 10-05 : General Purpose Relay Setup** to define which Relay circuits (5~8) on PGD(2)-U10 ADP are used for General Purpose Relay.
Input Data

Input Data

General Purpose Relay No.	1~8

Item No.	Item	Input Data	Default
01	**Slot No.** **Physical Port of DLCA Sensor Circuit No.**	Slot No: 0~24 DLCA Port: 0~16 Relay No: 0, 5~8 ➡ *After each entry, press the Transfer Key to advance to the next entry.*	0 - 0 - 0
02	**Drive Timer Setup**	0~64800 0 = No Setting 1 = 0.1s 2 = 0.2s 3 = 0.3s : 10 = 1.0s : 64800 = 6480s	0

Conditions
None

Feature Cross Reference

➥ **Analog Communications Interface (ACI)**

Program 10 : System Configuration Setup

10-06 : ISDN-BRI Setup

Level: IN

Description

Use **Program 10-06 : ISDN - BRI Setup** to configure the ISDN - BRI Terminal Endpoint Identifier (TEI), mode of operation, and Service Profile Identifier (SPID) number for each circuit B-Channels.

Input Data

SLOT Number	1 ~ 24

ISDN - BRI Circuit	1 ~ 4

Item No.	Item	Input Data	Default
01	**TEI Selection** Select the method the system uses when assigning Terminal Endpoint Identifier (TEI) values to BRI ports.	0 = Select by SPID number 1 = Select by Channel ID number	0
02	**DID Mode**	0 = Route by Called Party Number 1 = Route by Redirecting Number	0
03	**SPID 1**	Dial up to 20 digits	No Setting
04	**SPID 2**	Dial up to 20 digits	No Setting

Conditions

None

Feature Cross Reference

➥ **ISDN Compatibility**

Program 10 : System Configuration Setup

10-08 : Pre-Ringing Setup

Level:
IN

Description

Use **Program 10-08 : Pre-Ringing Setup** to enable or disable pre-ringing for trunk calls. This sets how a trunk initially rings a telephone. With pre-ringing, a burst of ringing occurs as soon as the trunk LED flashes. The call then continues ringing with the normal ring cadence cycle. Without pre-ringing, the call starts ringing only when the normal ring cadence cycle occurs. This may cause a ring delay, depending on when call detection occurs in reference to the ring cycle.

Input Data

Item No.	Description	Input Data	Default
01	**Pre-Ringing**	0 = No 1 = Yes	0

Conditions

- Used with Analog Trunks only.

Feature Cross Reference

- **Central Office Calls, Answering**
- **Synchronous Ringing**

Program 10 : System Configuration Setup

10-09 : DTMF and Dial Tone Circuit Setup

Level: IN

Description

Use **Program 10-09 : DTMF and Dial Tone Circuit Setup** to allocate the circuits on the GCD-CP10 or GCD-CP20 for either DTMF receiving or dial tone detection. The GCD-CP10 has 80 circuits initially, and an additional 64 circuits are added when a GPZ-BS10 is installed. The GCD-CP20 has 105 circuits initially, and an additional 48 circuits are added when a GPZ-BS20 is installed. These are used as follows:

- ❑ Extension DTMF receiver for single line telephone
- ❑ Trunk DTMF receiver, MF/MFC receiver, Caller ID receiver, Busy Tone and Dial Tone receiver for analog trunks

Input Data

Circuit/Resource Number	01~144 01~153 (GCD-CP20 installed)

Item No.	Input Data	Default Setting
01	0 = Common Use 1 = Extension Only 2 = Trunk Only ➡ *The GCD-CP10 has 80 channel DSP resources (receivers) only for basic chassis. When a GPZ-BS10 is installed there are 64 DSP resources (receivers) available.* ➡ *The GCD-CP20 has 105 channel DSP resources (receivers) only for basic chassis. When a GPZ-BS20 is installed there are 48 DSP resources (receivers) available.* ➡ *In case 0 = Common is selected and if 14-02-10 (Caller ID receive ability) is set to "Yes", DSP resources are always allocated to analog trunks not analog extensions. If 14-02-10 is set to "No", DSP resources can be used for both analog trunks and analog extensions.*	GCD-CP10 installed: Circuit/Resource 01~08 = 1 (Extensions) Circuit/Resource 09~32 = 2 (Trunks) Circuit/Resource 33~144 = 0 GCD-CP20 installed: Circuit/Resource 01~08 = 1 (Extensions) Circuit/Resource 09~32 = 2 (Trunks) Circuit/Resource 33~153 = 0

Conditions

None

Feature Cross Reference

- Caller ID
- Central Office Calls, Placing
- Direct Inward Dialing (DID)
- Direct Inward System Access (DISA)
- Tie Lines

Program 10 : System Configuration Setup

10-12 : GCD-CP10 or GCD-CP20 Network Setup

Level:
SA

Description

Use **Program 10-12 :** GCD-CP10 or GCD-CP20 **Network Setup** to setup the IP Address, Subnet-Mask, and Default Gateway addresses.

Input Data

Item No.	Item	Input Data	Default	Description
01	IP Address	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.254.255.254 192.0.0.1 ~ 223.255.255.254	192.168.0.10	Set for GCD-CP10 or GCD-CP20.
02	Subnet Mask	128.0.0.0 192.0.0.0 224.0.0.0 240.0.0.0 248.0.0.0 252.0.0.0 254.0.0.0 255.0.0.0 255.128.0.0 255.192.0.0 255.224.0.0 255.240.0.0 255.248.0.0 255.252.0.0 255.254.0.0 255.255.0.0 255.255.128.0 255.255.192.0 255.255.224.0 255.255.240.0 255.255.248.0 255.255.252.0 255.255.254.0 255.255.255.0 255.255.255.128 255.255.255.192 255.255.255.224 255.255.255.240 255.255.255.248 255.255.255.252 255.255.255.254 255.255.255.255	255.255.255.0	The setting of Subnet Mask is invalid when all Host Addresses are 0. If the network section is: 0, 127, 128.0, 191.255, 192.0.0, 223.255.255 The setting of Subnet Mask is invalid.
03	Default Gateway	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.254.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	IP Address for Router.

Input Data (Continued)

Item No.	Item	Input Data	Default	Description
04	Time Zone	0~48 (0 = -12 Hours and 24 = +12 Hours) 25 = -11:30 26 = -10:30 27 = - 9:30 28 = - 8:30 29 = -7:30 30 = -6:30 31 = -5:30 32 = -4:30 33 = -3:30 34 = -2:30 35 = -1:30 36 = -0;30 37 = +0:30 38 = +1:30 39 = +2:30 40 = +3:30 41 = +4:30 42 = +5:30 43 = +6:30 44 = +7:30 45 = +8:30 46 = +9:30 47 = +10:30 48 = +11:30	+7 (-5 hours)	Determine the offset from Greenwich Mean Time (GMT) time. Then enter its respective value. For example, Eastern Time (US and Canada) has a GMT offset of -5. The program data would then be 7 (0= -12, 1= -11, 2= -10, 3= -9, 4= -8, 5= -7, 6= -6, 7= -5, ……24= +12)
05	**NIC Interface**	0 = Auto Detect 1 = 100Mbps, Full Duplex 2 = 100Mbps, Half Duplex 3 = 10Mbps, Full Duplex 4 = 10Mbps, Half Duplex 5 = 1Gbps, Full Duplex	0	NIC Auto Negotiate (GCD-CP10 or GCD-CP20)
07	**NAPT Router IP Address** **(Default Gateway [WAN])**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	Set the IP address on the WAN side of router.

Input Data (Continued)

Item No.	Item	Input Data	Default	Description
08	**ICMP Redirect**	0 = Enable 1 = Disable	0	0 = signaling packets WILL follow ICMP redirect messages. 1 = signaling packets WILL NOT follow ICMP redirect messages. ➡ *For voice packets and ICMP refer to PRG 84-27-14.*
09	**IP Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	172.16.0.10	
10	**Subnet Mask**	128.0.0.0 192.0.0.0 224.0.0.0 240.0.0.0 248.0.0.0 252.0.0.0 254.0.0.0 255.0.0.0 255.128.0.0 255.192.0.0 255.224.0.0 255.240.0.0 255.248.0.0 255.252.0.0 255.254.0.0 255.255.0.0 255.255.128.0 255.255.192.0 255.255.224.0 255.255.240.0 255.255.248.0 255.255.252.0 255.255.254.0 255.255.255.0 255.255.255.128 255.255.255.192 255.255.255.224 255.255.255.240 255.255.255.248 255.255.255.252 255.255.255.254 255.255.255.255	255.255.0.0	Set for GPZ-IPLE
11	**NIC Setup**	0 = Auto Detect 1 = 100Mbps, Full Duplex 3 = 10Mbps, Full Duplex 5 = 1 Gbps, Full Duplex	0	Set for GPZ-IPLE
13	**DNS Primary Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	Set for adding a function for DNS.
14	**DNS Secondary Address**			
15	**DNS Port**	0~65535	53	
17	**IPL NIC Port Setting**	0 = MDI 1 = MDI-X	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Description
18	**GCD-CP10 or GCD-CP20 Network Setup - CCPU MTU**	1000~1500	1450	Define the MTU size for the packets sent from IP address defined in PRG 10-12-01.
19	**GCD-CP10 or GCD-CP20 Network Setup - IPL MTU**	1000~1500	1450	Define the MTU size for the packets sent from IP address defined in PRG 10-12-09.
20	**SSLv3 Setting**	0 = Disable 1 = Enable	0	Set whether to use the SSLv3 in SMTP. 0 (Disable) is encrypted with TLSv1. This data requires a reset to apply changed data to the system.
21	**Default Gateway MAC Address** **(Read Only)**	00-00-00-00-00-00 ~ FF-FF-FF-FF-FF-FF	00-00-00-00-00-00	

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 10 : System Configuration Setup

10-13 : In-DHCP Server Setup

Level: SA

Description

Use **Program 10-13 : In-DHCP Server Setup** to setup the DHCP Server built into the GCD-CP10 or GCD-CP20 blade.

Input Data

Item No.	Item	Input Data	Default	Description
01	**DHCP Server Mode**	0 = Disable 1 = Enable	0	Enable/Disable the built-in DHCP Server.
02	**Lease Time**	Days 0~255	0 day	Lease Time of the IP address to a client. ➡ *Press the Transfer Key to increment to the next setting data.*
		Hour 0~23	0 hour	
		Minutes 1~59	30 minutes	
05	**Last DHCP Data**	0 = Disable 1 = Enable	1	If 10-13-01 is enabled, this setting determines if DHCP resource is enabled or disabled. When enabled, the system does not update DHCP (Option 54 DHCP Server info) if 10-12-09 IP Address is changed.

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 10 : System Configuration Setup

10-14 : Managed Network Setup

Level:
SA

Description

Use **Program 10-14 : Managed Network Setup** to set up the range of the IP address which the DHCP Server leases to a client.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**The Range of the IP address to Lease.** When Maximum has not been entered, the maximum value equals the minimum value. When **Single** is selected in 10-13-04, only 1 scope range can be entered. When **Divide Same Network** is selected in 10-13-04, a maximum of 10 scope ranges can be entered.	Minimum: 1.0.0.1 ~ 126.255.255.254 128.1.0.1 ~ 191.254.255.254 192.0.1.1 ~ 223.255.254.254	172.16.0.100	
		Maximum: 1.0.0.1 ~ 126.255.255.254 128.1.0.1 ~ 191.254.255.254 192.0.1.1 ~ 223.255.254.254	172.16.5.254	

Conditions
None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 10 : System Configuration Setup

10-15 : Client Information Setup

Level:
SA

Description

Use **Program 10-15 : Client Information Setup** to set up the client information when the DHCP server needs to assign a fixed IP address to clients.

Input Data

Client Number	1~960

Item No.	Item	Input Data	Default
01	**The IP address should be assigned out of the scope range set up in Program 10-14**.	MAC: 00-00-00-00-00-00 ~ FF-FF-FF-FF-FF-FF	00-00-00-00-00-00
		1.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 10 : System Configuration Setup

10-16 : Option Information Setup

Level: SA

Description

Use **Program 10-16 : Option Information Setup** to set up the option given from the DHCP server to each client.

Input Data

Item No.	Item	Input Data	Default
01	**Router** Set the Router Code and IP Address.	Code number 0~255	3 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
02	**DNS Server** Set the DNS Server Code and IP Address	Code number 0~255	6 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
03	**TFTP Server** Set the TFTP Server Code and IP Address	Code number 0~255	66 (Fixed)
		Maximum 64 character strings	No setting
05	**MGC**	Code number 0~255	129 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	172.16.0.10
06	**Client Host Name** Set the Client Host Name.	Code number 0~255	12 (Fixed)
		Maximum 64 character strings	No setting
07	**DNS Domain Name** Set the DNS Domain Name.	Code number 0~255	15 (Fixed)
		Maximum 20 character strings	No setting

Input Data (Continued)

Item No.	Item	Input Data	Default
08	**Download Protocol** Set Download Protocol used for AutoConfig (for IP Multiline Terminal).	Code number 0~255	43 (Fixed)
		Sub code number	163
		1 = FTP 2 = HTTP	1
09	**Encryption Information** Set an Encryption Information used for AutoConfig (for IP Multiline Terminal).	Code number 0~255	43 (Fixed)
		Sub code number	164
		Maximum 128 character strings	No setting
10	**FTP Server Address** Set a FTP Server Address used for AutoConfig.	Code number 0~255	43 (Fixed)
		Sub code number	141
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
11	**Config File Name** Set a File Name used for AutoConfig.	Code number 0~255	43 (Fixed)
		Sub code number	151
		Configuration file name: Maximum 15 character strings	No setting
12	**Vender Class ID**	Code number 0~255	60 (Fixed)
		Maximum 256 character strings	NECDT700
13	**SNMP Server**	Code number 0~255	69 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
14	**POP3 Server**	Code number 0~255	70 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
16	**SIP Server (IP Address)**	Code number 0~255	120 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	172.16.0.10

Input Data (Continued)

Item No.	Item	Input Data	Default
17	**SIP Server (Domain Name)**	Code number 0~255	120 (Fixed)
		Maximum 20 character strings	No setting
18	**FTP Server**	Code number 0~255	141 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
19	**Config File Name**	Code number 0~255	151 (Fixed)
		Maximum 15 character strings	No setting
20	**LDS Server 1**	Code number 0~255	162 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
21	**LDS Server 2**	Code number 0~255	162 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
22	**LDS Server 3**	Code number 0~255	162 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
23	**LDS Server 4**	Code number 0~255	162 (Fixed)
		IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
24	**Next Server IP Address**	IP address 0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
27	**SIP Server Receive Port**	Code number 0~255	168 (Fixed)
		Port: 1~65535	5080

Input Data (Continued)

Item No.	Item	Input Data	Default
28	**Config File Name**	Code number 0~255	43 (Fixed)
		Sub code number	152
		Configuration file name: Up to 15 character	No setting
29	**Config File Name**	Code number 0~255	43 (Fixed)
		Sub code number	153
		Up to 15 characters	No setting
30	**Config File Name** (Version 10.00 or higher)	Code number 0~255	43 (Fixed)
		Sub code number	154
		Up to 15 characters	No setting

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 10 : System Configuration Setup

10-17 : H.323 Gatekeeper Setup

Level: SA

Description

Use **Program 10-17 : H.323 Gatekeeper Setup** to set the H.323 Gatekeeper information.

Input Data

Item	Name	Input Data	Default
01	**Gatekeeper Mode** Set IP Address either automatically or manually if using an external Gatekeeper.	0 = No Gatekeeper 1 = Automatic 2 = Manual	0
02	**Gatekeeper IP Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
04	**Preferred Gatekeeper** When 10-17-01 is set to 1, use this to set the preferred ID of multiple Gatekeepers.	Maximum 124 characters	No setting

Conditions
None

Feature Cross Reference

➥ **IP Trunk – H.323**

Program 10 : System Configuration Setup

10-18 : H.323 Alias Address Setup

Level: SA

Description

Use **Program 10-18 : H.323 Alias Address Setup** to set the alias address registered to the outside H.323 Gatekeeper.

Input Data

Number of Alias	1~6

Item	Name	Input Data	Default
01	**Alias Address** Set the telephone number (Alias Address) to external gatekeeper.	Dial up to 12 digits (0~9, ∗, #)	No setting
02	**Alias Address Type** Set the Alias Address Type to external gatekeeper.	0 = E164	0

Conditions

None

Feature Cross Reference

➥ **IP Trunk – H.323**

Program 10 : System Configuration Setup

10-19 : VoIP DSP Resource Selection

Level:
SA

Description

Use **Program 10-19 : VoIP DSP Resource Selection** to define the criteria for each DSP resource on the VoIP blade.

Input Data

Slot Number	1

DSP Resource Number	01~256

Item No.	Item	Input Data	Default
01	**VoIP DSP Resource Selection**	0 = Common use for both IP extensions and trunks 1 = IP Extension 2 = SIP Trunk 3 = CCIS/Networking 4 = Use for NetLink 5 = Blocked 6 = Common without Unicast Paging 7 = Multicast Paging 8 = Unicast Paging 9 = Use for RTP Streaming	Resource 1 = 1 Resource 2~256 = 0

Conditions
None

Feature Cross Reference

❑ None

Program 10 : System Configuration Setup

10-20 : LAN Setup for External Equipment

Level: IN

Description

Use **Program 10-20 : LAN Setup for External Equipment** to define the TCP port/address/etc. for communicating to external equipment.

Input Data

Type of External Equipment	1 = CTI Server 2 = Contact Center 3 = Not Used 4 = Networking System 5 = SMDR Output 6 = DIM Output 7 = Contents Server 8 = UC Web Application 9 = 1st Party CTI 10 = Contact Center Agent Control 11 = O&M Server 12 = Traffic Report Output 13 = Room Data Output for Hotel Service 14 = IP-DECT Directory Access 15 = Presense 16 = FTP Server

Item No.	Item	Input Data	Default

01	**TCP Port**	0~65535	External Equipment 1 = 0 External Equipment 2 = 4000 External Equipment 3 = 0 External Equipment 4 = 30000 External Equipment 5 = 0 External Equipment 6 = 0 External Equipment 7 = 7443 External Equipment 8 = 0 External Equipment 9 = 0 External Equipment 10 = 0 External Equipment 11 = 8010 External Equipment 12 = 0 External Equipment 13 = 0 External Equipment 14 = 0 External Equipment 15 = 0 External Equipment 16 = 0
03	**Keep Alive Time**	1~255 (sec)	30

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-21 : GCD-CP10 or GCD-CP20 Hardware Setup

Level: IN

Description

Use **Program 10-21 :** GCD-CP10 or GCD-CP20 **Hardware Setup** to set up various hardware, such as the function of AUX terminal and the Relay function on the GCD-CP10 or GCD-CP20 blade.

Input Data

Item No.	Item	Input Data	Default	Related Program
04	**External Source I/O Selection on GCD-CP10 or GCD-CP20** Determines the external music source input/ output selection for GCD-CP10 or GCD-CP20 CN8 and CN9.	0 = External MOH (AUX2)/ External Speaker(AUX1) 1 = BGM source (AUX2)/ External Speaker(AUX1) 2 = External MOH (AUX2)/BGM source (AUX1) ➡ *Relationships between AUX number and Relay number are as follows:* AUX2 = Relay2 AUX1 = Relay1	0	
05	**General Purpose Relay Switch Selection on GCD-CP10 or GCD-CP20**	0 = Off 1 = Relay 1 on GCD-CP10 or GCD-CP20 2 = Relay 2 on GCD-CP10 or GCD-CP20	0	
06	**Drive Timer Setup**	0~64800 0 = No Setting 1 = 0.1s 2 = 0.2s 3 = 0.3s : 10 = 1.0s : 64800 = 6480s	0	

Input Data

07	**Modem Support** ➡ *This program is not available with Version 10.00 or higher.*	0 = Off 1 = On	0	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-23 : SIP System Interconnection Setup

Level: IN

Description

Use **Program 10-23 : SIP System Interconnection Setup** to determine if the system is interconnected and define the IP address of another system, call control port number and alias address for SV9100 system interconnection.

Input Data

System Number	001~1000

Item No.	Item	Input Data	Default
01	**System Interconnection**	0 = No (Disable) 1 = Yes (Enable)	0
02	**IP Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
03	**Call Control Port**	1~65535	1720
04	**Dial Number**	Up to 12 digits (0~9)	None
05	**Keep Alive Mode for SIP**	0 = Disable 1 = Enable	0
06	**SIP Profile**	1 = Profile 1 2 = Profile 2 3 = Profile 3 4 = Profile 4 5 = Profile 5 6 = Profile 6 ➡ *With Version 2.00 or lower CPU Software only two SIP Profiles are supported.*	1

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-24 : Daylight Saving Setup

Level: IN

Description

Use **Program 10-24 : Daylight Saving Setup** to set the options for daylight savings. As the telephone system is used globally, these settings define when the system should automatically adjust for daylight savings as it applies to the region in which the system is installed.

Input Data

Item No.	Item	Input Data	Default
01	**Daylight Saving Mode** Enable/Disable the system ability to adjust the time for daylight savings/standard time.	0 = Disable 1 = Enable	1
02	**Time for Daylight Saving** Enter the time of day when the system should adjust for daylight savings time.	00:00~23:59	02:00
03	**Start Month (Summer Time)** Enter the month when the system should adjust the time for daylight savings time (01~12).	1~12 (Jan = 1, 2 = Feb, etc.)	3
04	**Start of Week** Enter the week of the month when the system should adjust the time for daylight savings time. The week will start on the day listed in 10-24-05.	0 = Last Week of Month 0~5	2
05	**Start of Week Day** Enter the day of the week when the system should adjust the time for daylight savings time (01 = Sunday, 02 = Monday, etc.).	1~7 (Sun = 1, Mon = 2, etc.)	1
06	**End of Month** Enter the month when the system should adjust the time for standard time (01~12).	1~12 (Jan = 1, 2 = Feb, etc.)	11
07	**End of Week** Enter the week of the month when the system should adjust the time for standard time. The week will start on the Day listed in 10-24-08.	0 = Last Week of Month 0~5	1

Input Data

Item No.	Item	Input Data	Default
08	**End of Week Day** Enter the day of the week when the system should adjust the time for daylight savings time (01 = Sunday, 02 = Monday, etc.).	1~7 (Sun = 1, Mon = 2, etc.)	1

Conditions

None

Feature Cross Reference

➥ **Clock/Calendar Display**

Program 10 : System Configuration Setup

10-25 : H.323 Gateway Prefix Setup

Level: IN

Description

Use **Program 10-25 : H.323 Gateway Prefix Setup** to set the gateway prefix registered to the outside gatekeeper.

Input Data

Item No.	Item	Input Data	Default
01	**Gateway Prefix Entry**	0 = Off 1 = On	0
02	**Gateway Prefix Value**	Up to 12 digits (0~9, ∗, #)	No setting

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-27 : IP System ID

Level: IN

Description

Use **Program 10-27 : IP System ID** to set the IP address of the networked IP systems.

Input Data

Item No.	Item	Input Data	Default
01	**IP Address** System ID is related with the System ID in the Numbering Plan (Program 11-01-03). When the digits are analyzed and the system ID is determined from the SV9100 data set in the Numbering Plan, the networking call is sent to the IP Address set in this program. The IP Address should be the IP Address of the peer CPU (Program 10-12-01).	0.0.0.0~126.255.255.254 128.0.0.1~191.255.255.254 192.0.0.1~223.255.255.254	0.0.0.0
02	**Call Procedure Port** The Port Number should be set with the same value as the H.225 setup port in Program 84-02-33.	1~65535	1730

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-28 : SIP System Information Setup

Level: IN

Description

Use **Program 10-28 : SIP System Information Setup** to set up basic SIP trunking.

Input Data

Item No.	Item	Input Data	Default	Profile 1~6
01	**Domain Name** Set the domain name of the SIP-URL.	Up to 64 Characters (ex.:UserID@HostName.DomainName)	None	
02	**Host Name** Set the host name of the SIP-URL.	Up to 48 Characters (ex.:UserID@HostName.DomainName)	None	
03	**Transport Protocol** Set the protocol for the connection.	0 = UDP 1 = TCP 2 = TLS	0	
05	**Domain Assignment** If the information from Telco was a domain name (siptrunk@sip.com) then set to domain. If the information for Telco was a IP address then set to IP Address.	0 = IP Address 1 = Domain Name	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
06	**IP Trunk Port Binding** Trunk port binding is only used for SIP trunks to the provider in Non-Registration Mode only. When this is disabled, an inbound call comes in and follows your DID routing but it comes in on the first available trunk. When enabled, the inbound call comes in and follows your normal DID routing but maps to that specified trunk. If that trunk is busy, it sends back a busy unless you build a hunt group. To build the hunt group, it references command 14-12-02 (pilot register ID). This points you to command 10-36-02. All numbers with the same pilot are in the same hunt group.	0 = Disable 1 = Enable	0	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-29 : SIP Server Information Setup

Level: IN

Description

Use **Program 10-29 : SIP Server Information Setup** to define the SIP Proxy setup for outbound/ inbound. The 10-29 commands are not used in non-registration mode.

NOTE

If entries are made in Program 10-29-xx for a SIP Server and the SIP Server is then removed or not used, the entries in Program 10-29-xx must be set back to their default settings. Even if 10-29-01 is set to 0 (off), the SV9100 still checks the settings in the remaining 10-29 programs.

Input Data

Item No.	Item	Input Data	Default	Profile 1~6
01	**Default Proxy (Outbound)** Set whether or not the SIP message is always sent through the Default Proxy.	0 = Off 1 = On	0	
02	**Default Proxy (Inbound)** Need to be registered in registration mode. Set whether or not the SIP message is always received through the Default Proxy.	0 = Off 1 = On	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
03	**Default Proxy IP Address** This is optional and used if the provider gives you a proxy address that is different than the registration address. If the provider is using domain names instead of IP addresses, leave this at default.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	
04	**Default Proxy Port Number** Set the port number of the Default Proxy.	0 ~ 65535	5060	
05	**Registrar Mode** Set the mode registered in the registration server.	0 = None 1 = Manual	0	
06	**Registrar IP Address** Set the IP address of the SIP registration server.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	
07	**Registrar Port**	0 ~ 65535	5060	
11	**Registrar Domain Name** Set the domain name of the registration server.	Up to 128 Characters	None	
12	**Domain Name** Specify the domain name of the SIP server.	Up to 64 Characters	None	
13	**Proxy Host Name** Specify the host name of the SIP server.	Up to 48 Characters	None	
14	**SIP Carrier Choice** Select the carrier type of the SIP server.	0 ~ 26 0 = Standard 1 ~ 26 = A ~ Z	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
15	**Registration Expiry (Expire) Time** Set the expiration time when the SIP trunk registers to the SIP server. When half the time set here passes, the registration update is automatically done.	120 ~ 65535 seconds	3600	
16	**Register Sub Mode** Prevents an invalid Invite message. If "the register information that SV9100 send to SIP server" and "the Invite information that SV9100 receive" are different, SV9100 sends “404 Not Found” Message. If PRG10-29-05 Register Mode is 0:Off, it is necessary to set 0:off in PRG10-29-16.	0 = Off (Allow invalid Invite message) 1 = On (Deny invalid Invite message)	0	
19	**Keep Alive by Option Message**	0 = Disable 1 = Enable	0	
20	**Authentication Trial**	0~9	1	
21	**NAT Router**	0 = Not used 1 = Used	0	
22	**Default Gateway**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	
23	**MAC Address** **(Read Only)**	00-00-00-00-00-00 ~ FF-FF-FF-FF-FF-FF	00-00-00-00-00-00	
24	**NAPT Router IP Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-31 : Network Keep Alive Setup

Level: IN

Description

Use **Program 10-31 : Network Keep Alive Setup** to set the interval and retry count of the AspireNet networking keep alive message. The keep alive is used for ISDN and IP networking.

The keep alive message is automatically responded to by the destination SV9100, if the response is not received the retry count will start. If a response is not received within the number of retries, the networking link will be taken out of service. When the link is taken out of service:

- ❑ Any calls that are in progress will be released.
- ❑ Park Hold orbits will be released.
- ❑ No further Park Hold information will be sent until the link is active.

The link will automatically become active when the next keep alive response is received.

Input Data

Item No.	Item	Input Data	Default
01	**Keep Alive Interval** This program is used to set the interval of the Keep Alive timer. The SV9100 does not send Keep Alive when this item is set to 0. If this entry is greater than 0, networked PRI spans which are using Kentrox DSUs will not re-sync when removed from service, then returned to service.	0~65535 seconds	0
02	**Keep Alive Retry Timer** Set how many times theSV9100 resends Keep Alive.	1~255	5

Conditions

- The Keep Alive message must be sent and a response not received for the retry count, for the link to be taken out of service and the calls in progress and Park Hold orbits to be released. For example, if an ISDN NetLink connection is disconnected at Layer 1, then the Keep Alive message cannot be sent, therefore the Keep Alive operation will not occur.

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-32 : PRI Networking Channel Limitation

Level: IN

Description

Use **Program 10-32 : PRI Networking Channel Limitation** to assign the number of B-channels to be used for each ISDN blade. This allows for fractional PRIs when used with multiple site networking. If this program is limited to less than "23" on one side of the network, then it also limits both inbound and outbound network calls. For example, when you select 10 channels then only channels 1 to 10 will be available. If a call is attempted on channels 11 to 30 the caller will receive busy tone. This also applies on the other side of the network as well.

The setting is for each slot within the SV9100. Ensure that you select the correct slot before making any changes.

This program will not affect a PRI card set as Trunk or Station mode.

Input Data

Slot Number	1~24

Item No.	Item	Input Data	Default
01	**Maximum Channels** Set the maximum number of channels that can be used with PRI NetLink.	1~23	23

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-33 : SIP Registrar/Proxy Information Basic Setup

Level: IN

Description

Use **Program 10-33 : SIP Registrar/Proxy Information Basic Setup** to set the registrar/proxy options for SIP extensions.

Input Data

Item No.	Item	Input Data	Default
01	**Registration Expire Time** After this time expires, the UAs are forced to re-register with the CPU. This allows the CPU to keep a current location of the entire end UAs.	60 ~ 65535	3600
02	**Authentication Mode** Check here if a password is desired for the IP SIP phones to register. When checked, 15-05-16 must have a password entered and the SIP phone must have the same password. When using Authentication, the station number is the authorization name.	0 = Disable 1 = Enable	0
03	**SIP Registrar/Proxy Domain Name** Set the domain name of the SIP proxy.	Up to 64 Characters	None
04	**SIP Registrar/Proxy Host Name** Set the domain name of the SIP proxy.	Up to 48 Characters	None
05	**SIP Registrar/Proxy Information Basic Setup - NAT Mode**	0 = No (Disable) 1 = Yes (Enable)	0

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-36 : SIP Trunk Registration Information Setup

Level: IN

Description

Use **Program 10-36 : SIP Trunk Registration Information Setup** to set the SIP trunk registration information.

Input Data

Register ID	0~31

Item No.	Item	Input Data	Default	Profile 1~6
01	**Registration** Determine if the SIP trunk information is registered.	0 = Disable 1 = Enable	0	
02	**User ID** Set the SIP trunk User ID.	Up to 32 Characters	None	
03	**Authentication User ID** Set the SIP trunk Authentication User ID.	Up to 64 Characters	None	
04	**Authentication Password** Set the SIP trunk authentication password.	Up to 32 Characters	None	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-37 : UPnP Setup

Level: IN

Description

Use **Program 10-37 : UPnP Setup** to set the UPnP (Universal Plug and Play) options for SIP trunks.

Input Data

Item No.	Item	Input Data	Default
01	**UPnP Mode** Router must support UPnP.	0 = Disable 1 = Enable	0
02	**Retry Time**	0,60 ~ 3600 (1~59 cannot be input)	60

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-38 : BGM Resource Setup

Level: IN

Description

Use **Program 10-38 : BGM Resource Setup** to configure the Background Music Source input.

Input Data

Item No.	Item	Input Data	Default
01	**BGM Resource Type**	0 = CPU IN (MOH/IN) 1 = ACI Port	0
02	**ACI Port Number for BGM Source (only used if 10-38-01 is set to 1)**	0 ~ 96	0

Conditions

None

Feature Cross Reference

➥ **Analog Communications Interface (ACI)**

➥ **Background Music**

Program 10 : System Configuration Setup

10-39 : Fractional Setup

Level: IN

Description

Use **Program 10-39 : Fractional Setup** to enable or disable the ability to use fractional T1 or PRI.

Input Data

Item No.	Item	Input Data	Default
01	**Fractional**	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-41 : General Purpose Contact Detector

Level: IN

Description

Use **Program 10-41 : General Purpose Contact Detector** to assign System Number/Slot Number, ESIU Port Number and Circuit Number settings used by the PGD(2)-U10 ADP.

Input Data

System Number	1~50

Slot Number	1~24

Item No.	Item	Input Data	Default
01	**System Number/Slot Number** The User can set the System ID when NetLink is active. ESIU Slot No. used by PGD(2)-U10 ADP.	System No. 0 = Not Used 1 ~ 50 Slot No. 0 = No Setting 1 ~ 24	0
02	**ESIU Port Number** ESIU Port No. used by PGD(2)-U10 ADP.	0 = No Setting 1 ~ 16	0
03	**Circuit Number** Circuit No. of PGD(2)-U10 ADP Line Number.	0 = No Setting 1 ~ 2 = Line No.	0

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-42 : Virtual Loop Back Port Setting

Level: IN

Description

Use **Program 10-42 : Virtual Loop Back Port Setting** to set the data for the Virtual Loop Back Port.

Input Data

Item No.	Item	Input Data	Default
01	**Number of Loop Back Ports**	0~30 (0 = No setting)	0
02	**Logical Trunk Port Number**	0~400	0
03	**Logical Station Port Number**	0~896	0
04	**Layer 3 Timer Type**	1~5	1
05	**Calling Party Number**	0 = No 1 = Yes	1
06	**S-Point DID Digits**	0~4	0
07	**S-Point Call Busy Mode**	0 = Alerting Message 1 = Disconnect Message	0

Conditions

None

Feature Cross Reference

- **Station Message Detail Recording (SMDR)**
- **Hotel/Motel**
- **Transfer**

Program 10 : System Configuration Setup

10-46 : DT900/DT800 Server Information Setup

Level: IN

Description

Use **Program 10-46 : DT900/DT800 Server Information Setup** to setup the information of SIP Multiline (IP Multiline Terminal) Server.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Register Mode** Normal: When the phone boots up, it reports the ext. assigned in the phone or chooses the next available extension in the system. Password is not required. Auto: If set to Auto, the SIP user name and password must be entered on the actual IP phone. These settings must match 84-22/ 15-05-27, or the phone does not come on-line. Manual: When the phone boots up, it prompts user to enter a user ID and password before logging in. If the user name and password are programmed in the SIP User settings in the telephone, it comes up without prompting the user. It checks this user ID/password against 84-22/15-05-27. If there is no match, the phone does not come on-line.	0 = Normal 1 = Auto 2 = Manual	0	
04	**Server Name** Assign the Server name to be used in the SIP URL.	Up to 32 characters	sipphd	

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
06	**Register Port** Assign the port number in which the SIP messages are sent to on the IPLE. This same port number must be assigned in the SIP Multiline terminals. If this command is changed, it requires a CPU reset. When using NetLink (Program 51-01-01) this Program is not used and Program 51-17-01 will be used per each System ID.	0~65535	5080	
07	**Encryption Mode**	0 = Off 1 = On	0	
08	**Encryption Type**	0 = Mode1	0	
09	**One Time Password**	Up to 10 characters (0~9, ∗, #)	None	10-46-07
10	**Start Port**	1~960	1	10-46-01
11	**Multicast IP Address** Set the Multicast IP address so that two or more main devices don't overlap on the same network, or if Multicast is used by other IP services.	224.0.0.0~ 239.255.255.255	224.0.0.10	

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
12	**Multicast Port** The port number that is used for paging will change based upon the following information. The formula for the ports that will be used is: Starting port number assigned in 10-46-12 + Management ID * 2 The value of the Management ID is from 1 to 64. The Management ID will count up sequentially, for example: 10-46-12 = 3000 The first page the system makes will use port 30002 (3000 + 1*2). The second page the system makes will use port 30004 (3000 + 2*2). The Management ID will increment every time the page is used. After the Management ID reaches 64 it will start over, so the next page will use Management ID 1. The max. port starting from 3000 would be 30128 (3000 +64*2)	0~65535	30000	
13	**Subscribe Session Port** When using NetLink (Program 51-01-01) this Program is not used and Program 51-17-02 will be used per each System ID.	0~65535	5081	
14	**NAT Mode** When the system controls the SIP multiline terminal via the NAT router, this system data is set to On.	0 = Off 1 = On	0	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-47 : Terminal License Server Information Setup

Level: IN

Description

Use **Program 10-47 : Terminal License Server Information Setup** to setup the information of Terminal License Server.

Input Data

Item No.	Item	Input Data	Default	Description
01	**Register Port of TCP I/F**	0~65535	6080	
02	**TCP Keep Alive Time**	1~255 seconds	5	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-48 : License Activation

Level: IN

Description

Use **Program 10-48 : License Activation** to turn on the license issued from the license server.

Input Data

Item No.	Item	Input Data	Default
01	**Software Key Code**	20-digit character	None
02	**Activation Code**	8-digit hexadecimal number	None
03	**Feature Code**	7-digit number	None

Key Operation for Item 03

Transfer key:
Edit next feature code

- Up to 10 feature codes are possible to input at once.
- Register the license when 10th feature code is edited.

Soft Key2 (BACK):
Edit previous feature code

Soft Key3 (SUBMIT):
Register the license

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-49 : License File Activation

Level: IN

Description

Use **Program 10-49 : License File Activation** to enable the command to save the license file via USB memory which is issued from the license server.

Input Data

Item No.	Item	Input Data
01	**Save License File on USB Drive**	Dial **1** + **TRF** (Press **TRF** to cancel)

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-50 : License Information

Level: IN

Description

Use **Program 10-50 : License Information** to confirm license information that is stored in a system.

Input Data

Item No.	Item	Read Data
01	**Feature Code Name**	Refer to Table 2-3 NEC External Solutions on page 2-76.
02	**License Quantity**	0~32767
03	**Free License Quantity**	0~32767
04	**Free License Remaining Days**	0~9999

Refer to the following table to assist with licensing information.

Table 2-2 License Information

Feature Code	Item Name	Feature Name (WebPro/PCPro)	Min	Max	Note
0002	SV9100 NETLINK NODE LIC-01	NetLink	1	49	This license number is determined according to number of secondary sites. For example, if you have one (1) Primary and three (3) Secondary sites networked; three (3) licenses are needed. All licenses are activated at the Primary site. With each "SV9100 NETLINK NODE LIC-01" you receive (32) "SV9100 IP RESOURCE- LIC 01" licenses.
0007	SV9100 HM LIC	Hotel/Motel	On/Off		–
0017	SV9100 REMOVE LIC		On/Off		–
0030	SV9100 ENCRYPTION LIC	Encryption	On/Off		–
0031	SV9100 NAT TRAVERSAL LIC	NAT Traversal	On/Off		–
0041	SV9100 XMLPRO LIC	XML Pro	On/Off		–
0042	SV9100 VIDEO MCU LIC	Video MCU	On/Off		–

Table 2-2 License Information (Continued)

Feature Code	Item Name	Feature Name (WebPro/PCPro)	Min	Max	Note
0046	SV9100 PMS LIC	PMS	On/Off		–
0047	SV9100 REMOTE CONF LIC-01	Remote Conference	1	20	–
0048	SV9100 HW MIGRATION LIC	H/W migration	On/Off		–
0049	SV9100 MULTI-DEVICE	Multi-Device	1	512	–
0080	SV9100 WEB VIDEO CONFERENCE	Video Conference with WebRTC	1	32	–
0111	SV9100 1ST PARTY CTI LIC-01	1st Party CTI (Ethernet)	1	256	1st Party CTI (Ethernet) xx client
0112	SV9100 3RD PARTY CTI-LIC 01	3rd Party CTI Client	0	999	–
0123	SV9100 OAI LIC	OAI Interface	On/Off		–
0300	SV9100 RESOURCE - LIC 01	System Port	1	1296	Required for each port TDM/IP station port, trunk port, etc., that connects to the system.
0411	SV9100 VERSION LIC (R1)	Version R1	On/Off		–
0413	SV9100 VERSION LIC (R3)	Version R3	On/Off		–
0414	SV9100 VERSION LIC (R4)	Version R4	On/Off		–
0415	SV9100 VERSION LIC (R5)	Version R5	On/Off		–
0416	SV9100 VERSION LIC (R6)	Version R6	On/Off		–
0417	SV9100 VERSION LIC (R7)	Version R7	On/Off		–
0418	SV9100 VERSION LIC (R8)	Version R8	On/Off		–
0419	SV9100 VERSION LIC (R9)	Version R9	On/Off		–
0420	SV9100 VERSION LIC (R10)	Version R10	On/Off		–
1001	SV9100 INMAIL VRS PORT-LIC 01	VRS Port	1	16	–
1012	SV9100 INMAIL VM BOX-LIC 01	VM Box	1	896	–
1014	SV9100 INMAIL EMAIL CLIENT-LIC 01	InMail Email Client	1	896	–
1402	SV91/93 UM8000 FAX PORT-LIC 01	UMS FAX Port	1	4	1 Port FAX
1403	SV91/93 UM8000 TTS PORT-LIC 01	UMS TTS Port	1	6	1 Port of Text-to-Speech language for Microsoft outlook activation license.
1404	SV91/93 UM8000 UMS CLIENT-LIC 01	UMS Client	1	896	A minimum of 6 UMS Client licenses are required for UM8000 in a SV9100. This license enables the following features for UM8000 Mail: – One Subscriber or Guest Mailbox. – One View App Session, (Supports View Mail, View Call Plus, VMM (Outlook), VML (Lotus Notes), VMG (GroupWise) and Web Mailbox clients Manager.)

Table 2-2 License Information (Continued)

Feature Code	Item Name	Feature Name (WebPro/PCPro)	Min	Max	Note
1406	SV91/93 UM8000 SYSTEM LANG-01 LIC	UMS Multi-Language	1	25	1 Language activation License.
1407	SV91/93 UM8000 HOSPITALITY & PMS LIC	UMS Hospitality and PMS	On/Off		Hospitality and PMS activation license.
1408	SV91/93 UM8000 HOSPITALITY LANG-LIC 01	UMS Hospitality Language	1	10	1 Hospitality Language activation license.
1409	SV91/93 UM8000 AMIS NETWORK LIC	UMS Amis/Plus Net	On/Off		–
1410	SV91/93 UM8000 TTS LANG-LIC 01	UMS TTS Language	1	10	1 Port of Text-to-Speech language activation license.
2002	SV9100 CONTACT CENTER AGENT-LIC 01	ACD Client	1	896	–
2101	SV9100 CONTACT CENTER P-EVENT LIC	ACD P-event	On/Off		
2102	SV9100 CONTACT CENTER-MIS LIC	ACD-MIS Basic	On/Off		–
2103	SV9100 CONTACT CENTER RT-REPORTING-LIC 01	ACD-MIS Monitor	1	16	–
2104	SV9100 CONTACT CENTER MIS AGENT-LIC 01	ACD-MIS Agent	1	197	–
2105	SV9100 CONTACT CENTER SKILL/CID BASE LIC	ACD Advance	On/Off		–
2107	SV9100 INCONTROL CR PKG LIC	InControl Server	On/Off		–
3000	SV91/93/95 CA STATION PKG LIC-20	CA-Basic	On/Off		–
3001	SV91/93/95 CA STATION PKG LIC-256	CA-256 Station	On/Off		–
3002	SV91/93/95 CA UPG LIC-20/256	CA-Up 20 to 256	On/Off		–
3003	SV91/93/95 CA NETWORK CLIENT PACK-LIC 05	CA-Network Client	1	999	–
3004	SV91/93/95 CA ADD REMOTE SITE-LIC 01	CA-Add Remote Site	1	999	–
3005	SV91/93/95 CA ADD REMOTE SOFTWARE-LIC 01	CA-Remote Site Soft	1	999	–
3006	SV91/93/95 CA SYS TRAFFIC ANALYSIS LIC	CA-Traffic Analys	On/Off		–
3007	SV91/93/95 CA SYS PMS INTEGRATION LIC	CA-PMS Integratio	On/Off		–
3008	SV91/93/95 CA WEB REPORTING-LIC 05	CA-Web Reporting	On/Off		–
3013	SV91/93/95 CA ADDITIONAL STATION LIC-256	CA-Add Stations	1	256	–

Table 2-2 License Information (Continued)

Feature Code	Item Name	Feature Name (WebPro/PCPro)	Min	Max	Note
3014	SV9100 CA E911-REPORTING-LIC	CA-E911 Reporting	1	999	–
3200	SV91/93 IP RECORDER - Basic Package	IP REC BASIC PAC	On/Off		–
3201	SV91/93 IP RECORDER - Basic Supervisor Capacity	REC BASIC SUPV	1	256	–
3202	SV91/93 IP RECORDER - Basic Port Capacity	REC BASIC PORT	1	256	–
3203	SV91/93 IP RECORDER - IP Recorder-LIC 01	IP REC ADD 256	1	256	
3204	SV91/93 IP RECORDER - Call Scoring-LIC 01	IP REC CALLSCORING	1	999	
3205	SV91/93 IP RECORDER - Reporting-LIC	IP CALL REPORTING	On/Off		
3210	SV91/93/95 IP/DIGITAL-REPORT-LIC 01	VSR-IP Port			Includes feature codes 3210 and 3211.
3211	SV91/93/95 IP/DIGITAL-ENCRYPTION-LIC 01	VSR-Encrypt			–
3212	SV91/93/95 MANAGER PORT-LIC 01	VSR-Manager			–
3213	SV91/93/95 IP/DIGITAL-REPORT-LIC 01	VSR-Reporter			–
3214	SV91/93/95 IP/DIGITAL ARCHIVER PORT-LIC 01	VSR-Archive			–
3300	SV91/93 E911 ESN Suite-LIC	ESN Registry	On/Off		–
3301	SV91/93 E911On-Site Monitor-LIC	ESN Site Monitor	1	9999	–
3302	SV91/93 E911 ALARM CLIENT ADD-ON -LIC	ESN Alarm Client	1	9999	–
3303	SV91/93 E911 Call Notify-Addon-LIC	ESN Call Notify	1	9999	–
3400	SV9100 CTI OCX LIC	CTI-OCX	On/Off		–
3512	SV9100 INGUARD LIC	InGuard	On/Off		–
3513	SV9100 LUA PMS LIC	LUA InPMS	On/Off		–
3514	SV9100 LUA PHONEPRO LIC	LUA PhonePro	On/Off		–
5001	SV9100 IP TRUNK-LIC 01	IP Trunk	1	400	–
5012	SV9100 NETWORKING-LIC 01	K-CCIS over IP	1	400	Each system need this license to specify suitable K-CCIS over IP channel (Trunk) number.

Table 2-2 License Information (Continued)

Feature Code	Item Name	Feature Name (WebPro/PCPro)	Min	Max	Note
5050	DT820 GIGABIT	DT820 Gigabit	1	896	For DT820 software version 2 telephones only. Each telephone must be manually set to get this license from the SV9100.
5051	DT820 EXT LK 16	DT820 Ext LK 16	1	896	
5052	DT820 EXT LK 32	DT820 Ext LK 32	1	896	
5053	DT920/930 Gigabit for SV91 (LIC)	DT920 Gigabit	1	896	–
5054	DT920/930 Ext LK 16 for SV91 (LIC)	DT920 Ext LK 16	1	896	–
5055	DT920/930 Ext LK 32 for SV91 (LIC)	DT920/930 Ext LK 32	1	896	–
5091	SV9100 NETWORKING OVER IP-LIC 01	Networking over IP	1	128	
5103	SV9100 IP RESOURCE-LIC 01	VoIP Channel	1	12800	–
5111	SV9100 IP PHONE-LIC 01	IP Terminal	1	896	–
5201	SV9100 MOBILE EXT-LIC 01	Mobile Extension	1	896	–
5301	SV9100 UCS SOFTPHONE CLIENT-LIC01	UCS SoftPhone Client	1	256	–
5303	SV9100 UCS SOFTPHONE E CLIENT-LIC01	UCS SoftPhone Enhance	1	256	–
5304	SV9100 UCS ATTENDANT CLIENT-LIC 01	UCS Attendant Client	1	512	–
5305	SV9100 UCS CLIENT-LIC01	UCS Client	1	256	–
5309	SV9100 UCS ADVANCED SERVICE-LIC 01	UCS Enhancement I	1	512	–
5310	SV9100 UCS CRM INTEGRATION-LIC 01	UCS CRM Integration	1	256	This will support external CRM applications. Refer to the UC Suite Installation manual for further details.
5311	SV9100 MOBILE PRESENCE LIC	UCS Mobile Presence	On/Off		–
5312	SV9100 UCS VOICEMAIL INT-LIC 01	UCS InMail Integration	1	128	Access to InMail function from UC Suite. Client base license.
5313	SV9100 UCS WEB CLIENT-LIC 01	UCS Web Client	1	512	–
5320	SV9100 UCS VERSION LIC(R1)	UCS Version 1	On/Off		–
5326	SV9100 UCS WebRTC P2P-LIC 01	UCS WebRTC P2P (Advanced)	1	512	–
5327	SV9100 INCONTROL ADDON-01 LIC	InControl Addon	On/Off		–
6200	PVA-CCIS PORT LIC	PVA-CCIS Port	4	400	–
6201	SV9100 PVA-PMS US LIC	PVA-PMS	On/Off		–
6300	RGA CONF PORT-LIC 08	RGA Conference	8	32	–

Table 2-2 License Information (Continued)

Feature Code	Item Name	Feature Name (WebPro/PCPro)	Min	Max	Note
6301	RGA CONF ENH I-LIC	RGA-CNF ENH I	On/Off		
6302	RGA CONF ENH II-LIC	RGA-CNF ENH II	On/Off		
6303	RGA CONF ENH III-LIC	RGA-CNF ENH III	On/Off		
6304	RGA CONF MULTI LANG-LIC 01	RGA-CNF Multi Lang	1	60	

NEC External Solutions

Some NEC Solutions require feature activation directly on the applications interface. These external applications are excluded from SV9100 PBX system features and the application feature set is based on predefined feature maps configured in the License Manager Server.

Table 2-3 NEC External Solutions

Application	Feature Code	Item Name	Min	Max	Note
NMC XMP Meeting Center	X1ADDPRT	NMC XMP Audio Add-On Port	1	24	–
	X1AUDPRT	NMC XMP Audio Port	8	32	–
	X1DFBPRT	NMC XMP Dial-Out Fire bar Conferencing	8	32	–
	X1WEBCON	NMC XMP Audio Web Conf Port	8	32	–
	X1MASPRT	NMC XMP Audio Mass Notification Port	8	32	–
	X1RECORD	SNMC XMP Conf Recording	1	1	–
	X1LDAPRT	NMC XMP LDAP	1	1	–
MLC BYOD Application	BYODMLC	Multi Line Client User	1	896	–

NOTE

Refer to the application specific user manual for license installation and activation procedures.

Conditions

- Confirm license by entering Feature Code No. (0~9999)

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-51 : PRI/T1 Selection of CD-PRTA

Level: IN

Description

Use **Program 10-51 : PRI/T1 Selection of** CD-PRTA to select whether the CD-PRTA works as PRI or T1.

Input Data

System ID	0~50

Slot Number	01~24

Item No.	Item	Input Data	Default
01	**PRI/T1 Selection** Choose whether the CD-PRTA works as PRI or T1.	0 = PRI 1 = T1	0 = PRI

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-52 : Free/Demo License Information

Level: IN

Description

Use **Program 10-52 : Free/Demo License Information** to display information on free of charge/Demo license.

Input Data

Item No.	Item	Read Data
01	**Remaining days of Free/Demo License**	0~9999

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-54 : License Configuration for Each Package

Level: IN

Description

Use **Program 10-54 : License Configuration for Each Package** to set the license information for each unit.

Input Data

Slot Number	1~24

License Index Number	1~32

Item No.	Item	Read Data
01	**License Code**	0000~9999
02	**License Quantity**	0~255

Conditions

- If applying more than 255 licenses to a slot the licenses must be applied across multiple indexes. For example assigning 256 VoIP resource licenses (5103) to the CPU slot could be assigned using different methods as long as the total for the CPU slot is 256:

  1. Index 1 has 128 of feature code 5103 and index 2 also has 128 of feature code 5103 for a total of 256.
  2. Index 1 has 255 of feature code 5103 and index 2 has 1 of feature code 5103 for a total of 256.

- When using IP devices IP Resource licenses (5103) must be assigned to the CPU Slot (1) for them to be available for use. If this is not done, IP related features will not work.

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-55 : Package Network Setup

Level: IN

Description

Use **Program 10-55 : Package Network Setup** to set the network information for each unit. This program sets the SPOE of each package.

Input Data

Slot Number	1~24

Item No.	Item	Input Data	Default
01	**IP Address**	0.0.0.0~126.255.255.254 128.0.0.1~191.255.255.254 192.0.0.1~223.255.255.254	172.16.1.100
02	**LAN Setup** LAN setup for each unit.	0 = Auto Detect 1 = 100Mbps, Full Duplex 2 = 100Mbps, Half Duplex 3 = 10Mbps, Full Duplex 4 = 10Mbps, Half Duplex	0
03	**Main/Add-on**	0 = Main 1 = Add-on	1
04	**Sub Net Mask**	128.0.0.0 192.0.0.0 224.0.0.0 240.0.0.0 248.0.0.0 252.0.0.0 254.0.0.0 255.0.0.0 255.128.0.0 255.192.0.0 255.224.0.0 255.240.0.0 255.248.0.0 255.252.0.0 255.254.0.0 255.255.0.0 255.255.128.0 255.255.192.0 255.255.224.0 255.255.240.0 255.255.248.0 255.255.252.0 255.255.254.0 255.255.255.0 255.255.255.128 255.255.255.192 255.255.255.224 255.255.255.240 255.255.255.248 255.255.255.252 255.255.255.254 255.255.255.255	255.255.0.0

Item No.	Item	Input Data	Default
05	**Default Gateway**	0.0.0.0~126.255.255.254 128.0.0.1~191.255.255.254 192.0.0.1~223.255.255.254	0.0.0.0

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-56 : XML Portal IP Phone

Level: IN

Description

Use **Program 10-56 : XML Portal IP Phone** to set the contents of XML portal page provided to the IP Phone. The XML Portal Page is included in the XML application name and URL Link information. XML URL Link Information can be set for up to five system bases.

Input Data

XML URL Information Link	1~5

Item No.	Item	Input Data	Default
01	**Name**	Up to 40 characters.	No Setting
02	**URL**	Up to 256 characters.	No Setting

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-58 : IP Phone Local Network Area Setup

Level: IN

Description

Use **Program 10-58 : IP Phone Local Network Area Setup** to set the local network address when the NEC IP Multiline terminal and standard SIP terminal connects the system via a local router.

Input Data

Area Table	1~8

Item No.	Item	Input Data	Default	Related Program
01	**Network Address** Sets local network address.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	10-46-14
02	**Subnet Mask** Sets local subnet mask.	248.0.0.0 / 252.0.0.0 / 254.0.0.0 / 255.0.0.0 255.128.0.0 / 255.192.0.0 / 255.224.0.0 255.240.0.0 / 255.248.0.0 / 255.252.0.0 255.254.0.0 / 255.255.0.0 / 255.255.128.0 255.255.192.0 / 255.255.224.0 255.255.240.0 / 255.255.248.0 255.255.252.0 / 255.255.254.0 255.255.255.0 / 255.255.255.128 255.255.255.192 / 255.255.255.224 255.255.255.240 / 255.255.255.248 255.255.255.252 / 255.255.255.254	0.0.0.0	10-46-14

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-62 : NetBIOS Setting

Level: IN

Description

Use **Program 10-62 : NetBIOS Setting** to set the NetBIOS which is used to access WebPro of SV9100 using HTTP and HTTPS.

Input Data

Area Table	1~8

Item No.	Item	Input Data	Default	Related Program
01	**NetBIOS Setting - NetBIOS Mode** Enable/Disable NetBIOS Mode.	0 = Disable 1 = Enable	1	
02	**NetBIOS Setting - NetBIOS Name** Assign the NetBIOS name up to 15 characters	Up to 15 characters	SV9100	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-65 : NTP Server

Level: IN

Description

Use **Program 10-65 : NTP Server** to set the NTP (Network Time Protocol) Server which is built-in the CPU. NTP server can synchronize the time for IP Video Door phone, or NTP clients connected to the SV9100 network.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**NTP Server** Select whether or not the NTP Server is used.	0 = Disable 1 = Enable	0	
02	**NTP Server Port** Sets the NTP Server Port.	1 ~ 65535	123	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-67 : SIP Stack Configuration Setup

Level: IN

Description

Use **Program 10-67 : SIP Stack Configuration Setup** to assign a configuration for each SIP trunk, SIP station and IP Multiline Terminal.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**DNS Mode** Select whether DNS mode is enabled.	0 = Disable 1 = Enable	0	
02	**DNS IP Address** Set the IP Address of DNS Server.	xxx.xxx.xxx.xxx	0.0.0.0	
03	**DNS Port** Assign the DNS Port.	0 ~ 65535	53	
04	**DNS Source Port** Assign the DNS Source Port.	0 ~ 65535	53	
05	**Request ReTx Start Time** Assign the ReTx Start Time.	0 ~ 65535 (0ms ~ 6553.5sec)	5 (500ms)	
06	**Request Maximum ReTx Interval**	0 ~ 65535 (0ms ~ 6553.5sec)	40 (4000ms)	

Conditions

- The SIP Stack cannot separate DNS Servers, only one DNS server can be used.

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-68 : IP Trunk Availability

Level: IN

Description

Use **Program 10-68 : IP Trunk Availability** to set the number of ports available for IP Trunking.

Index 1

System ID	0~50

Index 2

Setting	1~10

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Trunk Type**	0 = None 1 = SIP 2 = H.323 3 = CCIS	0	
02	**Start Port**	0 ~ 400	0	
03	**Number of Port**	0 ~ 400	0	

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-69 : UC Server General Settings

Level: IN

Description

Use **Program 10-69 : UC Server General Settings** to set the general settings for the UC Server

Input Data

Item No.	Item	Input Data	Default
01	**UC Server Availability**	0 = Disable 1 = Enable	0
02	**UC Server IP Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.254.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
03	**UC Server Host Name**	Any Characters	NECUCSvr
04	**UC Server Port Number**	0 ~ 65535	0
05	**UC Server Trace**	0 = Disable 1 = Enable	0
06	**UC Server Use Name for Communication**	0 = Disable 1 = Enable	0
07	**UC Server Large System Mode**	0 = Disable 1 = Enable	0
08	**UC Server Auto Restart**	0 = Disable 1 = Enable	0
09	**UC Server Auto Restart Frequency**	0 = Weekly 1 = Monthly	0
10	**UC Server Auto Restart : Day of the Week**	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	0
11	**UC Server Auto Restart Week**	0 = First 1 = Second 2 = Third 3 = Fourth	0

Input Data

Item No.	Item	Input Data	Default
12	**UC Server Auto Restart Day**	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday	0
13	**UC Server Auto Restart Time**	00:00 ~ 23:59	00:00

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-70 : UC Server VoiceMail Interface Settings

Level: IN

Description

Use **Program 10-70 : UC Server VoiceMail Interface Settings** to configure the VoiceMail Integration for the UC Server. to set .

Input Data

Item No.	Item	Input Data	Default
01	**UC Server VoiceMail Integration**	0 = Disable 1 = Enable	1
02	**UM8000 IP Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.254.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
03	**UM8000 Port Number**	0 ~ 65535	0

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-71 : UC Server Contact Center Settings

Level: IN

Description

Use **Program 10-71 : UC Server Contact Center Settings** to define the IP address and port UC Clients with Contact Center integration will connect to**.**

Input Data

Item No.	Item	Input Data	Default
01	**MIS Server IP Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.254.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
02	**MIS Server Computer Name**	Any Characters	No setting
03	**MIS Server Port Number**	0 ~ 65535	0

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-72 : Network Security Setup

Level: IN

Description

Use **Program 10-72 : Network Security Setup** to define the Server Certificate and the Private Key for TLS connection when the SV9100 receives a TLS request.

Input Data

Item No.	Item	Input Data	Default
01	**Server Certificate**	Up to 32 characters	No setting
02	**Private Key**	Up to 32 characters	No setting
03	**FQDN Assignment** Specify the FQDN (Fully Qualified Domain Name) on self-signed certificate for SV9100. Note: Version 10.00 or higher required.	Up to 128 characters	No setting
04	**Created Certificate file name assignment** ➨ *Version 10.00 or higher required.* ➨ *Extension must be .pem. If assigned other than pem, system will reject.*	Up to 64 characters (a – z, A – Z, 0 – 9)	No setting

Conditions

None

Feature Cross Reference

➥ **TLS on SIP**

➥ **STD SIP-TLS Connection Support**

Program 10 : System Configuration Setup

10-73 : Access Control of System Data

Level: IN

Description

Use **Program 10-73 : Access Control of System Data** to restrict the TEL Pro/WebPro/PCPro/UserPro access when an incorrect ID or Password is entered. Also used to allow/deny the MF Level access.

Input Data

Item No.	Item	Input Data	Default
01	**Monitoring Time**	0 = Disable the feature 1 ~255(sec)	60
02	**Miss Number**	1~128	3
03	**Restrict Time**	1~255: 10~2550(sec)	6
04	**MF Access**	0 = Deny 1 = Access	1

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-76 : Push Notification Service Basic Setup

Level: IN

Description

Use **Program 10-76 : Push Notification Service Basic Setup** to set the information of Push Server for ST500.

Note: In Program 24-02-15, change the default value to 8 seconds when using the push service.

Input Data

Item No.	Item	Input Data	Default
01	**Domain Name** Set the domain name of Push Proxy server. The DNS server uses 10 -12 - 13/14. It does not change from the default value	Enter any characters. Maximum of 128 characters	usa01.nec-pushproxy.com
02	**Access Key** Sets the access key for Push Proxy server communication. It does not change from the default value.	Character string of up to 64 characters (ASCII large and small alphanumeric characters)	A2Hi123s>Y=RBx4u5DIt7wO9?70M<2@JMsCD8QErFX:N96GyDBLsK6N sJZ;P2V63
03	**Server Certificate** Set the Sever Certificate file's name.	Character string of up to 32 characters (half size alphanumeric characters only)	No Setting
04	**HTTPS Proxy Server Address** IP Address setting of HTTPS proxy server used for connection of Push Proxy server.	0.0.0.0~126.255.255.254 128.0.0.1~191.255.255.254 192.0.0.1~223.255.255.254	0.0.0.0
05	**HTTPS Proxy Server Port** Port setting of HTTPS proxy server used for connection of Push Proxy server.	1-65535	8080

Conditions

None

Feature Cross Reference

➥ **ST500**

Program 11 : System Numbering

11-01 : System Numbering

Level: IN

Description

Use **Program 11-01 : System Numbering** to set the system numbering plan. The numbering plan assigns the first and second digits dialed and affects the digits an extension user must dial to access other extensions and features, such as service codes and trunk codes. If the default numbering plan does not meet the site requirements, use this program to tailor the system numbering to the site.

CAUTION

Improperly programming this option can adversely affect system operation. Make sure you thoroughly understand the default numbering plan before proceeding. If you must change the standard numbering, use the chart for Table 2-4 System Numbering Default Settings on page 2-101 to keep careful and accurate records of your changes.

Before changing your numbering plan, use PC Pro to make a backup copy of your system data.

Changing the numbering plan consists of three steps:

Step 1: Enter the digit(s) you want to change

You can make either single- or two-digit entries. In the Dialed Number column in the Table 2-4 System Numbering Default Settings on page 2-101 table, the nX rows (e.g., 1X) are for single digit codes. The remaining rows (e.g., 11, 12, etc.) are for two-digit codes.

- ❑ Entering a single digit affects all the Dialed Number entries beginning with that digit. For example, entering 6 affects all number plan entries beginning with 6. The entries you make in step 2 and step 3 below affect the entire range of numbers beginning with 6. (For example, if you enter 3 in step 2 the entries affected are 600~699. If you enter 4 in step 2 below, the entries affected are 6000~6999.)
- ❑ Entering two digits lets you define codes based on the first two digits a user dials. For example, entering 60 allows you to define the function of all codes beginning with 60. In the default program, only ∗ and # use 2-digit codes. All the other codes are single digit. If you enter a two digit code between 0 and 9, be sure to make separate entries for all the other two digit codes within the range as well. This is because in the default program all the two digit codes between 0 and 9 are undefined.

WARNING

Defining codes based on more than two digits require a secondary program (PRG 11-20) to define the codes.

Step 2: Specify the length of the code you want to change

After you specify a single- or two-digit code, you must tell the system how many digits comprise the code. This is the ***Number of Digits Required*** column in the Table 2-4 System Numbering Default Settings on page 2-101 table.

Step 3: Assign a function to the code selected

After entering a code and specifying its length, you must assign its function. This is the Dial Type column in the Table 2-4 System Numbering Default Settings on page 2-101 table. The choices are:

Input Data

Dial Types	Dial Type Description	Related Program
0	**None**	
1	**Service Code**	11-10 : Service Code Setup (for System Administrator) 11-11 : Service Code Setup (for Setup/Entry Operation) 11-12 : Service Code Setup (for Service Access) 11-13 : Service Code Setup (for Contact Center) 11-14 : Service Code Setup (for Hotel) 11-15 : Service Code Setup, Administrative (for Special Access) 11-16 : Single Digit Service Code Setup
2	**Extension Number**	11-02 : Extension Numbering 11-04 : Virtual Extension Numbering 11-06 : ACI Extension Numbering 11-07 : Department Group Pilot Numbers 11-08 : ACI Group Pilot Number 11-17 : Group Pilot Number
3	**Trunk Access Code**	11-09-01 : Trunk Access Code
4	**Special Trunk Access**	11-09-02 : Trunk Access Code
5	**Operator Access**	20-17 : Operator Extension
6	**ARS/F-Route Access**	44-xx
8	**Networking System Access**	
9	**Dial Extension Analyze**	11-20 : Dial Extension Analyze Table

➨ *Changing the Dial Type for a range of codes can have a dramatic affect on how your system operates. Assume, for example, the site is a hotel that has room numbers from 100-399. To make extension numbers correspond to room numbers, you should use Program 11-02 to reassign extension numbers on each floor from 100 to 399. (Other applications might also require you to change entries in Program 11-10 ~ 11-16.)*

Default

See the following tables for default settings.

Table 2-4 System Numbering Default Settings

Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 8 = Networking 9 = Dial Extension Analyze, 0=None					
Dialed	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] 0~50**
	Default	**New**	**Default**	**New**	
1X	3		2		
11	0		0		
12	0		0		
13	0		0		
14s	0		0		
15	0		0		
16	0		0		
17	0		0		
18	0		0		
19	0		0		
10	0		0		
1*	0		0		
1#	0		0		
2X	3		2		
21	0		0		
22	0		0		
23	0		0		
24	0		0		
25	0		0		
26	0		0		
27	0		0		
28	0		0		
29	0		0		
20	0		0		
2*	0		0		
2#	0		0		
3X	4		2		

Table 2-4 System Numbering Default Settings (Continued)

Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 8 = Networking 9 = Dial Extension Analyze, 0=None					
Dialed	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] 0~50**
	Default	**New**	**Default**	**New**	
31	0		0		
32	0		0		
33	0		0		
34	0		0		
35	0		0		
36	0		0		
37	0		0		
38	0		0		
39	0		0		
30	0		0		
3*	0		0		
3#	0		0		
4X	3		1		
41	0		0		
42	0		0		
43	0		0		
44	0		0		
45	0		0		
46	0		0		
47	0		0		
48	0		0		
49	0		0		
40	0		0		
4*	0		0		
4#	0		0		
5X	3		1		
51	0		0		
52	0		0		
53	0		0		

Table 2-4 System Numbering Default Settings (Continued)

Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 8 = Networking 9 = Dial Extension Analyze, 0=None					
Dialed	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] 0~50**
	Default	**New**	**Default**	**New**	
54	0		0		
55	0		0		
56	0		0		
57	0		0		
58	0		0		
59	0		0		
50	0		0		
5∗	0		0		
5#	0		0		
6X	3		1		
61	0		0		
62	0		0		
63	0		0		
64	0		0		
65	0		0		
66	0		0		
67	0		0		
68	0		0		
69	0		0		
60	0		0		
6∗	0		0		
6#	0		0		
7X	3		1		
71	0		0		
72	0		0		
73	0		0		
74	0		0		
75	0		0		
76	0		0		

Table 2-4 System Numbering Default Settings (Continued)

Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 8 = Networking 9 = Dial Extension Analyze, 0=None					
Dialed	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] 0~50**
	Default	**New**	**Default**	**New**	
77	0		0		
78	0		0		
79	0		0		
70	0		0		
7*	0		0		
7#	0		0		
8X	1		1		
81	0		0		
82	0		0		
83	0		0		
84	0		0		
85	0		0		
86	0		0		
87	0		0		
88	0		0		
89	0		0		
80	0		0		
8*	0		0		
8#	0		0		
9X	1		3		
91	0		0		
92	0		0		
93	0		0		
94	0		0		
95	0		0		
96	0		0		
97	0		0		
98	0		0		
99	0		0		

Table 2-4 System Numbering Default Settings (Continued)

Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 8 = Networking 9 = Dial Extension Analyze, 0=None					
Dialed	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] 0~50**
	Default	**New**	**Default**	**New**	
90	0		0		
9∗	0		0		
9#	0		0		
0X	1		5		
01	0		0		
02	0		0		
03	0		0		
04	0		0		
05	0		0		
06	0		0		
07	0		0		
08	0		0		
09	0		0		
00	0		0		
0∗	0		0		
0#	0		0		
∗X	2		1		
∗1	0		0		
∗2	0		0		
∗3	0		0		
∗4	0		0		
∗5	0		0		
∗6	0		0		
∗7	0		0		
∗8	0		0		
∗9	0		0		
∗0	0		0		
∗∗	0		0		
∗#	0		0		

Table 2-4 System Numbering Default Settings (Continued)

Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 8 = Networking 9 = Dial Extension Analyze, 0=None					
Dialed	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] 0~50**
	Default	**New**	**Default**	**New**	
#X	0		0		
#1	2		1		
#2	2		1		
#3	2		1		
#4	2		1		
#5	2		1		
#6	2		1		
#7	2		1		
#8	2		1		
#9	2		1		
#0	2		1		
#*	4		1		
##	2		1		

Conditions

None

Feature Cross Reference

➥ **Flexible System Numbering**

Program 11 : System Numbering

11-02 : Extension Numbering

Level: IN

Description

Use **Program 11-02 : Extension Numbering** to set the extension number. The extension number can have up to eight digits. The first/second digit(s) of the number should be assigned in Program 11-01 or Program 11-20. This allows an employee to move to a new location (port) and retain the same extension number.

Input Data

Extension Port Number	001 ~ 960

Item No.	Extension Number	Description
01	**Dial (Up to 8 digits)**	Set up extension numbers for multiline telephones, single line telephones (including SLTII Adapter, APR), and IP telephones. Extension number assignments cannot be duplicated in Programs 11-02, 11-06, 11-07, 11-08, and 11-17.

Default

Extension Port Number	Extension Number
1	101
2	102
3	103
≀	≀
99	199
100	3101
≀	≀
960	3961

Conditions

None

Feature Cross Reference

- Department Calling
- Flexible System Numbering
- Intercom

Program 11 : System Numbering

11-04 : Virtual Extension Numbering

Level: IN

Description

Use **Program 11-04 : Virtual Extension Numbering** to define the virtual extension numbers. The extension number can have up to eight digits. The first/second digit(s) of the number should be assigned in Program 11-01 or Program 11-20.

Input Data

Virtual Extension Numbers	001~512

Item No.	Virtual Extension Number	Description
01	**Dial (up to 8 digits)**	Set up Virtual Extension numbers. The extension number cannot be duplicated in Programs 11-02, 11-06, 11-07, 11-08, and 11-17.

Default

Virtual Port Number	Extension Number
1	201
2	202
3	203
~	~
99	299

NOTE *Ports 100~512 have no setting.*

Conditions

None

Feature Cross Reference

- **Flexible System Numbering**
- **Multiple Directory Numbers / Call Coverage**

Program 11 : System Numbering

11-06 : ACI Extension Numbering

Level: IN

Description

Use **Program 11-06 : ACI Extension Numbering** to define the virtual extension number used for the ACI. The extension number can have up to eight digits. The first and second digits of the number should be assigned in Program 11-01 or Program 11-20.

Input Data

ACI Port Number	01~96

Item No.	ACI Extension Number	Description	Related Program
01	**Dial (Up to 8 digits)**	The extension number cannot be duplicated in Programs 11-02, 11-04, 11-07, 11-08, and 11-17.	10-03 : Basic Configuration for each blade.

Default

- ACI Port Numbers have no extension number set.

Conditions

None

Feature Cross Reference

- **Analog Communications Interface (ACI)**
- **Flexible System Numbering**

Program 11 : System Numbering

11-07 : Department Group Pilot Numbers

Level: IN

Description

Use **Program 11-07 : Department Group Pilot Numbers** to assign a pilot number to each Department Group set up in Program 16-02. The pilot number is the number users dial for Department Calling and Department Step Calling. The pilot number can have up to eight digits. The first and second digits of the number should be assigned in Program 11-01 or Program 11-20 as type 2.

Input Data

Department (Extension) Group Number	01~64 01~128 (Version 10.00 or higher)

Item No.	Extension Group Pilot Number	Description	Related Program
01	**Dial (Up to 8 digits)**	Assign department group pilot numbers. The number set up by Program 11-02 (Extension Numbering) cannot be used. The extension number cannot be duplicated in Programs 11-02, 11-04, 11-06, 11-08, and 11-17.	❍ 16-01 : Department (Extension) Group Basic Data Setup ❍ 16-02 : Department Group Assignment for Extensions ❍ 16-03 : Secondary Department Group

Default

❍ Extension Group Number 1~127 = None

❍ Extension Group Number 128 = 3999

Conditions

None

Feature Cross Reference

- Department Calling
- Department Step Calling

Program 11 : System Numbering

11-08 : ACI Group Pilot Number

Level: IN

Description

Use **Program 11-08 : ACI Group Pilot Number** to assign the pilot number to the ACI Groups set in Program 33-02. The pilot number can have up to four digits. The first and second digits of the number should be assigned in Program 11-01 or Program 11-20 as type 2.

Input Data

ACI Group Number	01~16

Item No.	ACI Group Pilot Number	Description	Related Program
01	**Dial (Up to 8 digits)**	The extension number cannot be duplicated in Programs 11-02, 11-04, 11-06, 11-07, and 11-17.	33-02

Default

- No Setting

Conditions

None

Feature Cross Reference

➥ **Analog Communications Interface (ACI)**

Program 11 : System Numbering

11-09 : Trunk Access Code

Level: IN

Description

Use **Program 11-09 : Trunk Access Code** to assign the trunk access code (normally 9). The trunk access code can be set from 1~8 digits which is defined to type 3 and 4 in Program 11-01. This is the code extension users dial to access Automatic Route Selection. The individual Trunk Access Code is used when Trunk Group Routing is desired for an outgoing line.

CAUTION

The digit 9 is defined in Program 11-01 as Dial Type 3 with the Number of Digits Required set to 1. If you change the trunk access code in Program 11-09, you must make the corresponding changes in Program 11-01.

Input Data

Item No.	Trunk Access Code	Description	Default	Related Program
01	**Dial** **(Up to four digits)**	Assign the trunk access code (normally 9). This is the code extension users dial to access Automatic Route Selection.	9	❍ 11-01 : System Numbering ❍ 14-01 : Basic Trunk Data Setup ❍ 14-05 : Trunk Group ❍ 14-06 : Trunk Group Routing ❍ 21-02: Trunk Group Routing for Extensions
02	**2nd Trunk Route Access Code**	Define additional trunk access codes. When a user dials the Alternate Trunk Route Access Code, the system routes their call to the Alternate Trunk Route.	No Setting	❍ 11-01 : System Numbering ❍ 14-01 : Basic Trunk Data Setup ❍ 14-05 : Trunk Group ❍ 14-06 : Trunk Group Routing ❍ 21-02 : Trunk Group Routing for Extensions ❍ 21-15 : Individual Trunk Group Routing for Extensions

Conditions

None

Feature Cross Reference

- Automatic Route Selection
- Central Office Calls, Placing
- Trunk Group Routing

Program 11 : System Numbering

11-10 : Service Code Setup (for System Administrator)

Level: IN

Description

Use **Program 11-10 : Service Code Setup (for System Administrator)** to customize the Service Codes for the System Administrator. You can customize additional Service Codes in Programs 11-11~11-16. The following chart shows:

- ❑ The number of each code (01~42).
- ❑ The function of the Service Code.
- ❑ The type of telephones that can use the Service Code.
- ❑ The default entry. For example, dialing Item 26 allows users to force a trunk line to disconnect.

Input Data

Item No.	Item	Terminals	Default	Related Program
01	**Night Mode Switching**	MLT, SLT	718	12-xx 20-07-01
03	**Setting the System Time**	MLT	728	
04	**Storing Common Speed Dialing Numbers**	MLT	753	
05	**Storing Group Speed Dialing Numbers**	MLT	754	
06	**Setting the Automatic Transfer for Each Trunk Line**	MLT	733	24-04-01
07	**Canceling the Automatic Transfer for Each Trunk Line**	MLT	734	24-04-01
08	**Setting the Destination for Automatic Trunk Transfer**	MLT	7355	24-04-01
09	**Charging Cost Display by the Supervisor**	MLT	No Setting	
10	**--- Not Used ---**			
11	**Entry Credit for Toll Restriction**	MLT	No Setting	
12	**Night Mode Switching for Other Group**	MLT	618	12-xx 20-07-01

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
13	**--- Not Used ---**			
14	**--- Not Used ---**			
15	**--- Not Used ---**			
16	**Leaving Message Waiting (Requires CPU to be licensed for Hotel/Motel)**	MLT	626	11-11-09
17	**Dial Block by Supervisor**	MLT	601	90-19
18	**Off-Premise Call Forward by Door Box**	MLT	722	13-05
19	**--- Not Used ---**			
20	**VRS - Record/Erase Message**	MLT, SLT	616	20-07-13
21	**VRS - General Message Playback**	MLT, SLT	611	20-07-14
22	**VRS - Record or Erase General Message**	MLT, SLT	612	20-07-15
23	**SMDR - Extension Accumulated Printout Code**	MLT	621	20-07-18
24	**SMDR - Group Accumulated Printout Code**	MLT	622	20-07-19
25	**Account Code Accumulated Printout Code**	MLT	623	20-07-20
26	**Forced Trunk Disconnect**	MLT, SLT	No Setting	20-07-11
27	**Trunk Port Disable for Outgoing Calls**	MLT, SLT	645	20-07-12
28	**--- Not Used ---**			
29	**--- Not Used ---**			
30	**Register DECTPP**	MLT	Not Set	
31	**Delete DECTPP**	MLT	Not Set	
32	**Set Private Call Refuse**	MLT, SLT	Not Set	
33	**Entry Caller ID Refuse**	MLT	Not Set	
34	**Set Caller ID Refuse**	MLT, SLT	Not Set	
35	**Dial-In Mode Switching**	MLT, SLT	Not Set	
36	**Change the Guidance Message Number on Voice Mail Auto Attendant**	MLT, SLT	Not Set	
37	**--- Not Used ---**			
38	**--- Not Used ---**			

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
39	**--- Not Used ---**			
40	**--- Not Used ---**			
41	**Date Setting**	MLT	Not Set	20-07-30
42	**Maintenance Service**	MLT	Not Set	
43	**--- Not Used ---**			
44	**--- Not Used ---**			
45	**--- Not Used ---**			
46	**Watch Message Setting**	MLT, SLT	614	
47	**Warning Message Setting**	MLT	615	
48	**Auto Dial Setting for Sensor**	MLT	617	
49	**Auto Dial Setting for Remote Watch**	MLT	619	
51	**Power Saving for Power Save Group**	MLT, SLT	731	
53	**Clear Alarm Report**	MLT, SLT	Not Set	
54	**Save Store Statistical Information of RTP**	MLT	671	20-07-35

➡ *MLT = Multiline Terminal*

➡ *SLT = Single Line Telephone*

Conditions

None

Feature Cross Reference

➥ **Refer to Input Data chart on the previous pages.**

Program 11 : System Numbering

11-11 : Service Code Setup (for Setup/Entry Operation)

Level: IN

Description

Use **Program 11-11 : Service Code Setup (for Setup/Entry Operation)** to customize the Service Codes which are used for registration and setup. You can customize additional Service Codes in Programs 11-10, and 11-12 ~ 11-16.

The following chart shows:

- ❑ The number of each code (01~65).
- ❑ The function of the Service Code.
- ❑ What type of telephones can use the Service Code.
- ❑ The default entry. For example, dialing 725 (Item 18) allows users to turn on or turn off Background Music.

Input Data

Item No.	Item	Terminals	Default	Related Program
01	**Call Forward – All**	MLT, SLT	741	
02	**Call Forward – Busy**	MLT, SLT	742	
03	**Call Forward – No Answer**	MLT, SLT	743	
04	**Call Forward – Busy/No Answer**	MLT	744	
05	**Call Forward – Both Ring**	MLT	745	
06	**--- Not Used ---**			
07	**Call Forwarding – Follow-Me**	MLT, SLT	746	
08	**Do Not Disturb**	MLT, SLT	747	
09	**Answer Message Waiting**	MLT, SLT	∗0	11-10-16
10	**Cancel All Messages Waiting**	MLT, SLT	773	
11	**Cancel Message Waiting**	MLT, SLT	771	
12	**Alarm Clock**	MLT	727	20-01-06

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
13	**Display Language Selection for Multiline Terminal**	MLT	678	15-02
14	**Text Message Setting**	MLT	No Setting	
15	**Enable Handsfree Incoming Intercom Calls**	MLT	721	20-09-05 20-02-12
16	**Force Ringing of Incoming Intercom Calls**	MLT	723	20-09-05 20-02-12
17	**Programmable Function Key Programming (2-Digit Service Codes)**	MLT	751	15-07 11-11-38
18	**BGM On/Off**	MLT	No Setting	
19	**Key Touch Tone On/Off**	MLT	724	
20	**Change Incoming CO and ICM Ring Tones**	MLT	720	15-02
21	**Check Incoming Ring Tones**	MLT	711	
22	**Extension Name Programming**	MLT	700	15-01
23	**Second Call for DID/DISA/DIL**	MLT	679	
24	**Change Station Class of Service** Allow an extension user to change the COS of another extension. Must be allowed in Program 20-13-28.	MLT	677	20-13-28
25	**Automatic Transfer Setup for Each Extension Group**	MLT, SLT	602	20-11-17 24-05
26	**Automatic Transfer Cancellation for Each Extension Group**	MLT, SLT	603	
27	**Destination of Automatic Transfer Each Extension Group**	MLT	604	20-11-17 24-05
28	**Delayed Transfer for Every Extension Group**	MLT, SLT	605	20-11-17 24-05 24-02-08
29	**Delayed Transfer Cancellation for Each Extension Group**	MLT, SLT	606	20-11-17
30	**DND Setup for Each Extension Group**	MLT, SLT	607	
31	**DND Cancellation for Each Extension Group**	MLT, SLT	608	
32	**--- Not Used ---**			
33	**Dial Block**	MLT, SLT	600	
34	**Temporary Toll Restriction Override**	MLT, SLT	775	21-07
35	**Pilot Group Withdrawing**	MLT, SLT	650	

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
36	**Toll Restriction Override**	MLT, SLT	663	21-14
37	**Ring Volume Set**	MLT	729	
38	**Programmable Function Key Programming (3-Digit Service Codes)**	MLT	752	15-07 11-11-17
39	**Station Speed Dial Number Entry**	MLT, SLT	755	
40	**--- Not Used ---**			
41	**Tandem Ringing**	MLT, SLT	No Setting	15-07 30-03
42	**Transfer Dial Setting for Out of Range**	MLT	689	
43	**Headset Mode Switching**	MLT, SLT	688	
44	**Auto Attendant**	MLT, SLT	No Setting	
45	**Set/Cancel Call Forward All (Split)**	MLT, SLT	No Setting	
46	**Set/Cancel Call Forward Busy (Split)**	MLT, SLT	No Setting	
47	**Set/Cancel Call Forward No Answer (Split)**	MLT, SLT	No Setting	
48	**Set/Cancel Call Forward Busy No Answer (Split)**	MLT, SLT	No Setting	
49	**Set/Cancel Call Forward Both Ring (Split)**	MLT, SLT	No Setting	
50	**Set Message Waiting Indication**	SLT	No Setting	15-03-03 45-01-01
51	**Cancel Message Waiting Indication**	SLT	No Setting	15-03-03 45-01-01
52	**Set/Cancel Call Forward All Destination (No Split)**	MLT, SLT	790	
53	**Set/Cancel Call Forward Busy Destination (No Split)**	MLT, SLT	791	
54	**Set/Cancel Call Forward No Answer Destination (No Split)**	MLT, SLT	792	
55	**Call Forward Busy No Answer Destination (No Split)**	MLT, SLT	793	
56	**Telephone Book Lock Service**	MLT	No Setting	
57	**Set Do Not Call Table**	MLT, SLT	No Setting	
58	**Call Forward with Personal Greeting**	MLT, SLT	713	
59	**Call Forward to Attendant except Busy**	MLT, SLT	No Setting	15-01-08
60	**Call Forward to Attendant/No Answer**	MLT, SLT	No Setting	15-01-09
61	**--- Not Used ---**			

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
62	**Headset Ring Volume Adjustment**	MLT, SLT	662	11-11-37 15-02-12 15-02-41 15-02-42
63	**Double Height Character Indication**	MLT	No Setting	15-02-45
64	**Reverse Display Indication**	MLT	No Setting	15-02-44
65	**Headset Mode Switching**	MLT	No Setting	
66	**--- Not Used ---**			
67	**--- Not Used ---**			
68	**IntraMail Language Selection for own Extension**	MLT, SLT	No Setting	47-02-16
69	**IntraMail Language Selection for Specific Extension**	MLT, SLT	No Setting	20-13-53 47-02-16
70	**--- Not Used ---**			
71	**--- Not Used ---**			
72	**--- Not Used ---**			
73	**--- Not Used ---**			
74	**Delete BCA Key**	MLT	787	
75	**Multi-Device Support (On)**	MLT	788	
76	**Multi-Device Support (Off)**	MLT	789	

➨ *MLT = Multiline Terminal*

➨ *SLT = Single Line Telephone*

Conditions

None

Feature Cross Reference

➥ **Refer to the Input Data chart above.**

Program 11 : System Numbering

11-12 : Service Code Setup (for Service Access)

Level: IN

Description

Use **Program 11-12 : Service Code Setup (for Service Access)** to customize the Service Codes which are used for service access. You can customize additional Service Codes in Programs 11-10, 11-11, and 11-13 through 11-16.

The following chart shows:

- ❑ The number of each code (01~59).
- ❑ The function of the Service Code.
- ❑ The type of telephones that can use the Service Code.
- ❑ The default entry. For example, dialing 770 (Item 05) cancels a previously set Camp-On.
- ❑ Programs that may be affected with the changing the code.

Input Data

Item No.	Item	Terminals	Default	Related Program
01	**Bypass Call** Activate Call Forwarding/Do Not Disturb Override. This code is available only if you disable the voice mail Single Digit dialing code in Program 11-16-09.	MLT, SLT	707	11-16-09
02	**Conference**	MLT, SLT	#1	
03	**Override (Off-Hook Signaling)**	MLT, SLT	709	
04	**Set Camp-On**	MLT, SLT	750	
05	**Cancel Camp-On**	MLT, SLT	770	
06	**Switching of Voice Call and Signal Call**	MLT, SLT	712	
07	**Step Call**	MLT, SLT	708	
08	**Barge-In**	MLT, SLT	710	
09	**Change to STG (Department Group) All Ring**	MLT, SLT	No Setting	16-02
10	**Station Speed Dialing**	MLT, SLT	#2	

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
11	**Group Speed Dialing**	MLT, SLT	#4	
12	**Last Number Dial**	MLT, SLT	#5	
13	**Saved Number Dial**	MLT, SLT	715	
14	**Trunk Group Access**	MLT, SLT	704	
15	**Specified Trunk Access**	MLT, SLT	#9	
16	**Trunk Access Via Networking**	MLT, SLT	No Setting	
17	**Clear Last Number Dialing Data**	MLT, SLT	776	
18	**Clear Saved Number Dialing Data**	MLT, SLT	785	
19	**Internal Group Paging**	MLT, SLT	701	31-01-01
20	**External Paging**	MLT, SLT	703	
21	**Meet-Me Answer to Specified Internal Paging Group**	MLT, SLT	764	31-02-01
22	**Meet-Me Answer to External Paging**	MLT, SLT	765	
23	**Meet-Me Answer in Same Paging Group**	MLT, SLT	763	31-02-01
24	**Combined Paging**	MLT, SLT	*1	31-02-01 31-07
25	**Direct Call Pickup - Own Group**	MLT, SLT	756	
26	**Call Pickup for Specified Group**	MLT, SLT	768	23-02
27	**Call Pickup**	MLT, SLT	* #	23-02
28	**Call Pickup for Another Group**	MLT, SLT	769	23-02
29	**Direct Extension Call Pickup**	MLT, SLT	* *	
30	**Specified Trunk Answer**	MLT, SLT	672	
31	**Park Hold**	MLT, SLT	#6	24-03
32	**Answer for Park Hold**	MLT, SLT	*6	24-03
33	**Group Hold**	MLT, SLT	732	
34	**Answer for Group Hold**	MLT, SLT	762	
35	**Station Park Hold**	MLT, SLT	757	
36	**Door Box Access**	MLT, SLT	702	
37	**Common Canceling Service Code**	MLT, SLT	620	
38	**General Purpose Indication**	MLT, SLT	783	15-07-56 15-07-57

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
39	**--- Not Used ---**			
40	**Station Speed Dialing**	MLT, SLT	#7	
41	**Voice Over**	MLT	690	11-16-08
42	**Flash on Trunk lines**	SLT	#3	
43	**Answer No-Ring Line (Universal Answer)**	MLT, SLT	#0	14-05 14-06
44	**Callback Test for SLT**	SLT	799	
45	**Enabled On Hook When Holding (SLT)**	SLT	749	15-03-07
46	**Answer On Hook When Holding (SLT)**	SLT	759	15-03-08
47	**Call Waiting Answer/Split Answer** Splitting (switching) between calls	SLT	794	11-12-03
48	**Account Code**	SLT	# #	
49	**--- Not Used ---**			
50	**General Purpose Relay**	MLT, SLT	780	
51	**VM Access (SV8100 InMail and VMS)**	MLT, SLT	*8	
52	**Live Monitoring (SV8100 InMail)**	MLT	No Setting	
53	**Live Recording at SLT**	MLT, SLT	654	
54	**VRS Routing for ANI/DNIS** Use when setting up ANI/DNIS Routing to the VRS Automated Attendant. Using the Transfer feature, this also allows a call to be transferred to the VRS.	MLT, SLT	782	
55	**--- Not Used ---**			
56	**E911 Alarm Shut Off** Enter the Service Code that an extension user can dial to shut off the E911 Alarm Ring.	MLT	786	21-01-13 21-01-14
57	**Tandem Trunking**	MLT, SLT	#8	
58	**Transfer Into Conference** Assign the Service Code a user dials to Transfer a call to a Conference call.	MLT, SLT	624	20-13-10 20-13-15 20-13-16
59	**Trunk Drop Operation for SLT**	SLT	No Setting	
60	**--- Not Used ---**			
61	**--- Not Used ---**			
62	**Security Sensor Reset**	MLT, SLT	716	

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
63	**Watch Mode Start**	MLT, SLT	717	
64	**Security Sensor Mode Start**	MLT, SLT	719	
65	**Flexible Caller ID Notification**	MLT, SLT	779	21-29

➡ *MLT = Multiline Terminal*

➡ *SLT = Single Line Telephone*

Conditions

None

Feature Cross Reference

➥ **Refer to the Input Data chart on the previous pages.**

Program 11 : System Numbering

11-13 : Service Code Setup (for Contact Center)

Level: IN

Description

Use **Program 11-13 : Service Code Setup (for Contact Center)** to customize the Service Codes which are used with the Contact Center feature. You can customize additional Service Codes in Programs 11-10 ~ 11-12 and 11-14 ~ 11-16. The following chart shows:

- The number of each code (01~13).
- The function of the Service Code.
- The type of telephones that can use the Service Code.
- The default entry.

Input Data

Item No.	Item	Terminals	Default
01	**Log In/Log Out (for KTS)**	MLT, SLT	✱5
02	**Log Out (for SLT)**	SLT	655
03	**Set Wrap-Up Time (for SLT)**	SLT	656
04	**Cancel Wrap-Up Time (for SLT)**	SLT	657
05	**Set Off Duty (for SLT)**	SLT	658
06	**Cancel Off Duty (for SLT)**	SLT	659
07	**--- Not Used ---**		
08	**Agent ID Code Login** Allow an AIC Agent to log into a group.	MLT	No Setting
09	**Agent ID Code Logout** Allow an AIC Agent to log out of a group.	MLT	No Setting
10	**Agent Login by Supervisor** Allow an Supervisor to log into a group.	MLT	667
11	**Agent Logout by Supervisor** Allow an Supervisor to log out of a group.	MLT	668

Input Data (Continued)

Item No.	Item	Terminals	Default
12	**Change Agent Group by Supervisor** When using service code 669 to change an agent group, the supervisor must enter a 2-digit number for the group. For example, to change to group 4, the entry would be 669 04.	MLT	669
13	**Agent Changing Own Group** Using this service code, an Agent can reassign themselves to another Group.	MLT	670

➡ *MLT = Multiline Terminal*

➡ *SLT = Single Line Telephone*

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 11 : System Numbering

11-14 : Service Code Setup (for Hotel)

Level: IN

Description

Use **Program 11-14 : Service Code Setup (for Hotel)** to customize the Service Codes which are used with the Hotel/Motel feature. You can customize additional Service Codes in Programs 11-10 ~ 11-13, 11-15 and 11-16. The Service Codes can be used only at telephones registered as hotel terminals in Program 42-02.

The following chart shows:

- The number of each code (01~18).
- The function of the Service Code.
- The type of telephones that can use the Service Code.
- The default entry.

Input Data

Item No.	Item	Terminals	Default
01	**Set DND for Own Extension**	MLT, SLT	627
02	**Cancel DND for Own Extension**	MLT, SLT	628
03	**Set DND for Other Extension**	MLT, SLT	629
04	**Cancel DND for Other Extension**	MLT, SLT	630
05	**Set Wake Up Call for Own Extension**	MLT, SLT	631
06	**Cancel Wake Up Call for Own Extension**	MLT, SLT	632
07	**Set Wake Up Call for Other Extension**	MLT, SLT	633
08	**Cancel Wake Up Call for Other Extension**	MLT, SLT	634
09	**Set Room to Room Call Restriction**	MLT, SLT	635
10	**Cancel Room to Room Call Restriction (Hotel)**	MLT, SLT	636
11	**Change Toll Restriction Class for Other Extension**	MLT, SLT	637
12	**Check-In**	MLT, SLT	638
13	**Check-Out**	MLT, SLT	639

Input Data (Continued)

Item No.	Item	Terminals	Default
14	**Room Status Change for Own Extension**	MLT, SLT	640
15	**Room Status Change for Other Extension**	MLT, SLT	641
16	**Room Status Output**	MLT	642
17	**Hotel Room Monitor**	MLT, SLT	675
18	**Set Hotel PMS Code Restriction**	MLT	666
19	**Set Hotel Room Data**	MLT, SLT	681

➡ *MLT = Multiline Terminal*

➡ *SLT = Single Line Telephone*

Conditions

None

Feature Cross Reference

➥ **Hotel/Motel**

Program 11 : System Numbering

11-15 : Service Code Setup, Administrative (for Special Access)

Level: IN

Description

Use **Program 11-15 : Service Code Setup, Administrative (for Special Access)** to customize the special access Service Codes which are used by the administrator in the Hotel/Motel feature. You can customize additional Service Codes in Programs 11-10 ~ 11-14 and 11-16.

The following chart shows:

- The number of each code (01~14).
- The function of the Service Code.
- What type of telephones can use the Service Code.
- The default entry.
- Programs that may be affected when changing the code.

Input Data

Item No.	Item	Terminals	Default	Related Program
01	**Remote Maintenance**		730	
02	**Access in Dial-In Conversion Table**		760	22-04 22-11
03	**Backup Data Save** Save the user's soft key settings (extension programmed Call Forwards, DND, etc.). This feature should be used before upgrading the system software. Note: The last digit of the service code for "Backup Data Save" is not displayed on the MLT if it has more than one digit.	MLT	# ∗ # 9	
04	**--- Not Used ---**			
05	**System Programming Mode, Log-On**	MLT	# ∗ # ∗	11-01
06	**--- Not Used ---**			
07	**--- Not Used ---**			
08	**--- Not Used ---**			

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
09	**Transfer to Incoming Ring Group**		No Setting	
10	**--- Not Used ---**			
11	**Ethernet Port Reset**		No Setting	
12	**Extension Data Swap**	MLT	No Setting	92-04
13	**Remote Access from DISA**	SLT		22-02
14	**Modem Access**		740	
16	**Outbound IP Connection**			90-69

➡ *MLT = Multiline Terminal*

➡ *SLT = Single Line Telephone*

Conditions

None

Feature Cross Reference

➥ **Hotel/Motel**

Program 11 : System Numbering

11-16 : Single Digit Service Code Setup

Level: IN

Description

Use **Program 11-16 : Single Digit Service Code Setup** to customize the one-digit Service Codes used when a busy or ring back signal is heard. You can customize additional Service Codes in Programs 11-10 ~ 11-15.

The following chart shows:

- The number of each code (01~11).
- The function of the Service Code.
- The default entry. For example, dialing 1 (code 03) when calling an extension switches the call from either a voice or signal call (depending on how it is currently defined).
- Programs that may be affected by changing these codes.

Input Data

Item No.	Item	Default	Related Program
01	**Step Call**	2	11-12-07
02	**Barge-In**	No Setting	11-12-08
03	**Switching of Voice/Signal Call**	1	11-12-06
04	**Intercom Off-Hook Signaling**	*	11-12-03
05	**Camp-On**	#	11-12-04
06	**DND/Call Forward Override Bypass**	No Setting	11-12-01
07	**Message Waiting**	0	11-12-09
08	**Voice Over**	6	11-12-41
09	**Access to Voice Mail**	8	11-12-51
10	**(Department) STG All Ring Mode**	No Setting	11-12-09 16-01-05
11	**Station Park Hold**	No Setting	11-12-35

Conditions

None

Feature Cross Reference

➥ **Refer to the Input Data chart on previous pages.**

Program 11 : System Numbering

11-17 : Group Pilot Number

Level: IN

Description

Use **Program 11-17 : Group Pilot Number** to assign the Master Number for each Group. This is the number a user dials to transfer calls to the Group. Normally, you should use unassigned extension numbers (e.g., 500) for the master number. If you want to use an extension number which, by default, has a port number assigned (for example: in the 101~199, 3101~3257), first remove the default assignment. For example, to use extension number 125 as an Master Number, first give extension port 025 a different extension assignment.

Input Data

Group Number	01~64

Item No.	Group Pilot Number
01	Dial (Up to eight digits)

Default

- No Group Pilot Number assigned to any Group (1~64).

Conditions

None

Feature Cross Reference

- **Contact Center**
- **Multiple Directory Numbers/Call Coverage Keys**

Program 11 : System Numbering

11-19 : Remote Conference Group Pilot Number

Level: IN

Description

Use **Program 11-19: Remote Conference Group Pilot Number** to assign the remote conference pilot number for each Remote Conference Group. This is the number a user dials to call into the Remote Conference.

You must use unassigned extension numbers (e.g., 500) for the pilot number. If you want to use an extension number which, by default, has a port number assigned (for example: in the 101~199, 3101~3257), first remove the default assignment. For example, to use extension number 125 as a Remote Conference pilot number, first give extension port 025 a different extension assignment.

Input Data

Item No.	Item	Input Data	Default
01	**Remote Conference Group Pilot Number** Enter the pilot number for remote conference.	Must work within current system dialing plan	blank

Conditions

None

Feature Cross Reference

None

Program 11 : System Numbering

11-20 : Dial Extension Analyze Table

Level: IN

Description

Use **Program 11-20 : Dial Extension Analyze Table** to define the dial type based on three or more digits. This program is relevant only if digits in 11-01-01 are set to 9 (Dial Extension Analyze).

Input Data

Dial Extension Analyze Table	01~128

Item No.	Dial Extension Analyze Table
01	Dial (Up to eight digits: 0, 1~9, #, ∗, @)
02	Type of Dials: 0 = None 1 = Service Code 2 = Extension Number 5 = Operator Access 6 = F-Route Access

Default

- Dial Extension Analyze Tables are not set at default.

Conditions

- When the system uses the Dial Extension Analyze Table to determine the dial type, the lower table has priority. For example, if Table 1 has 211 defined and Table 2 has 2113 defined, Table 1 is used to determine the dial type.

Feature Cross Reference

None

Program 12 : Night Mode Setup

12-01 : Night Mode Function Setup

Level:
IN

Description

Use **Program 12-01 : Night Mode Function Setup** to set up the Night Mode options. Refer to the following chart for a description of each option, its range and default setting.

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	**Manual Night Mode Switching**	0 = Off 1 = On	1	Allow/Prevent activating Night Service by dialing a service code.	11-10-01
02	**Automatic Night Mode Switching**	0 = Off 1 = On	0	According to a preset schedule, enable or disable Automatic Night Service for the system.	12-02 12-03 12-04
03	**Assign Night Mode**	0 = Not Used 1 ~ 8 = Night Mode	0	Assign Night Mode (1~8) when Sensor device is assigned as a Night Mode Detection function on the CPU card to detect a signal.	
04	**Night Mode Function Assignment**	0 = Not Used 1 ~ 8 = PGDAD Detector Port	0	Assign Night Mode detector function on PGDAD General Purpose Detector port.	

➡ *Even if the operation mode is changed manually, the operation mode changes according to the schedule set up.*

Conditions
None

Feature Cross Reference

➥ **Night Service**

Program 12 : Night Mode Setup

12-02 : Automatic Night Service Patterns

Level: SA

Description

Use **Program 12-02 : Automatic Night Service Patterns** to define the daily pattern of the Automatic Mode Switching. Each Mode Group has 10 patterns. These patterns are used in Programs 12-03 and 12-04. The daily pattern consists of 20 timer settings.

Input Data

Night Mode Service Group Number	01~32

Time Pattern Number	01~10

Set Time Number	01~20

Item No.	Description	Input Data
01	Start Time	0000~2359
02	End Time	0000~2359
03	Operation Mode	1~8

Example:

Time Pattern 1

0:00	9:00	12:00	13:00	17:00	18:00	22:00	0:00
Mode 3 (midnight)	Mode 1 (day)	Mode 4 (rest)	Mode 1 (day)	Mode 4 (rest)	Mode 2 (night)	Mode 3 (midnight)	

To make the above schedule, it is necessary to set the data as follows:

Time setting 01:	00:00 to 09:00	Mode 3 (midnight)
Time setting 02:	09:00 to 12:00	Mode 1 (day)
Time setting 03:	12:00 to 13:00	Mode 4 (rest)
Time setting 04:	13:00 to 17:00	Mode 1 (day)
Time setting 05:	17:00 to 18:00	Mode 4 (rest)
Time setting 06:	18:00 to 22:00	Mode 2 (night)
Time setting 07:	22:00 to 00:00	Mode 3 (midnight)

Time Pattern 2

0:00 0:00
Mode 2
(night)

Time setting 01: 00:00 to 00:00 Mode 2 (night)

Default

All groups, all patterns : 00:00 to 00:00 = Mode 1

Time Pattern 1

Set Time Number	Start Time	End Time	Mode
01	0000	0800	2
02	0800	1700	1
03	1700	0000	2
04	0000	0000	1
:	:	:	:
20	0000	0000	1

Time Pattern 2

Set Time Number	Start Time	End Time	Mode
01	0000	0000	2
02	0000	0000	1
:	:	:	:
20	0000	0000	1

Time Pattern 3~10

Set Time Number	Start Time	End Time	Mode
01	0000	0000	1
:	:	:	:
20	0000	0000	1

Conditions

None

Feature Cross Reference

➥ **Night Service**

Program 12 : Night Mode Setup

12-03 : Weekly Night Service Switching

Level: SA

Description

Use **Program 12-03 : Weekly Night Service Switching** to define a weekly schedule of night-switch settings.

Input Data

Night Mode Service Group Number	01~32

Item No.	Day of the Week	Time Schedule Pattern Number
01	01 = Sunday	0~10
	02 = Monday	
	03 = Tuesday	
	04 = Wednesday	
	05 = Thursday	
	06 = Friday	
	07 = Saturday	

Default

Day of the Week	Time Schedule Pattern Number
01 = Sunday	2
02 = Monday	1
03 = Tuesday	1
04 = Wednesday	1
05 = Thursday	1
06 = Friday	1
07 = Saturday	2

Conditions

None

Feature Cross Reference

➥ **Night Service**

Program 12 : Night Mode Setup

12-04 : Holiday Night Service Switching

Level: SA

Description

Use **Program 12-04 : Holiday Night Service Switching** to define a yearly schedule of holiday night-switch settings. This schedule is used for the setting of special days when the company is expected to be closed, such as a national holiday.

Input Data

Night Mode Service Group Number	01~32

Item No.	Days and Months	Time Pattern Number
01	0101~1231 (e.g. 0101 = Jan. 1; 1231 = Dec. 31)	0~10 (0 = No Setting)

Default

No setting

Conditions

None

Feature Cross Reference

➥ **Night Service**

Program 12 : Night Mode Setup

12-05 : Night Mode Group Assignment for Extensions

Level: IN

Description

Use **Program 12-05 : Night Mode Group Assignment for Extensions** to assign a Day/Night Mode Group for each extension.

Input Data

Extension Number	001 ~ 960

Item No.	Night Mode Service Group Number	Default
01	01~32	1

Conditions

None

Feature Cross Reference

➥ **Night Service**

Program 12 : Night Mode Setup

12-06 : Night Mode Group Assignment for Trunks

Level: IN

Description

Use **Program 12-06 : Night Mode Group Assignment for Trunks** to assign a Day/Night Mode Group for each trunk port.

Input Data

Trunk Port Number	001~400

Item No.	Night Mode Service Group Number	Default
01	01~32	1

Conditions

None

Feature Cross Reference

➥ **Night Service**

Program 12 : Night Mode Setup

12-07 : Text Data for Night Mode

Level: IN

Description

Use **Program 12-07 : Text Data for Night Mode** to make an original text message which is displayed on an LCD of multiline telephone in each Mode.

Input Data

Night Mode Service Group Number	01~32

Day/Night Mode	1~8

Item No.	Text Message
01	Maximum 12 Characters (alphabetic or numeric)

Default

- Mode 1 = No setting
- Mode 2 = <Night>
- Mode 3 = <Midnight>
- Mode 4 = <Rest>
- Mode 5 = <Day2>
- Mode 6 = <Night2>
- Mode 7 = <Midnight2>
- Mode 8 = <Rest2>

Conditions

None

Feature Cross Reference

Night Service

Program 12 : Night Mode Setup

12-08 : Night Mode Service Range

Level: IN

Description

Use **Program 12-08 : Night Mode Service Range** to define the changing range of toggle key for each Day/Night Mode.

Input Data

Night Mode Service Group Number	01~32

Item No.	Range
01	2~8 (default = 2)

Item No.	Item	Input Data	Default	Description
02	**LED Indication Mode Settings**	0 = Off 1 = On	0	Toggle On or Off LED mode indications.

Example:

When Program 12-08 is set to 3 and the Mode Key is pressed (SC 751, 09 +0), the following modes are switched:

- Press once = Night
- Press twice = Mid-night
- Press third = Day
- Default = 2

Conditions

None

Feature Cross Reference

Night Service

Program 13 : Abbreviated Dialing

13-01 : Speed Dialing Function Setup

Level: SA

Description

Use **Program 13-01 : Speed Dialing Function Setup** to define the Speed Dialing functions.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Speed Dialing Auto Outgoing Call Mode** Set whether the Speed Dial bins use Trunk Routing (0) or dial the bin as though it is an Intercom number (1).	0 = Trunk Outgoing Mode 1 = Intercom Outgoing Mode	0	13-05
02	**--- Not Used ---**			
03	**Number of Common Speed Dialing Bins** Assign the number of Speed Dial bins that are used for System Speed Dials.	0~10000 0 = No Common Speed Dialing	1000	13-04
04	**Trunk Access Routing** When set to 0, PRG13-05 defines a trunk group in PRG14-05 to select a trunk from. When set to 1, PRG13-05 refers to a trunk access route in PRG14-06.	0 = Trunk Group 1 = Trunk Route	0	13-05 14-05 14-06
05	**Speed Dial Digits Expansion** If set to 0 speed dial digits are three If set to 1 speed dial digits are four	0 = Not expand 1 = Expand	0	

Conditions

None

Feature Cross Reference

➥ **Speed Dial – System/Group/Station**

Program 13 : Abbreviated Dialing

13-02 : Group Speed Dialing Bins

Level: IN

Description

Use **Program 13-02 : Group Speed Dialing Bins** to define the range of bin numbers to be used by each Speed Dialing group. (Refer to 13-03 : Speed Dialing Group Assignment for Extensions).

Input Data

Item No.	Speed Dialing Group Number	Start Address of Speed Dialing Bin	End Address of Speed Dialing Bin
01	01~64	0~9990	0, 9~9999

Default
No Setting

Conditions
None

Feature Cross Reference

➥ **Speed Dial - System/Group/Station**

Program 13 : Abbreviated Dialing

13-03 : Speed Dialing Group Assignment for Extensions

Level: IN

Description

Use **Program 13-03 : Speed Dialing Group Assignment for Extensions** to assign Speed Dialing Group for each extension. There are 64 available Speed Dialing groups.

Input Data

Extension Number	001 ~ 960

Item No.	Group Number	Default Value
01	01~64	1

Conditions

None

Feature Cross Reference

➥ **Speed Dial - System/Group/Station**

Program 13 : Abbreviated Dialing

13-04 : Speed Dialing Number and Name

Level: SB

Description

Use **Program 13-04 : Speed Dialing Number and Name** to store Speed Dialing data in the Speed Dialing areas. This program is also used to define the names assigned to the Speed Dialing numbers.

Input Data

Speed Dialing Bin Number	0~9999

Item No.	Item	Input Data	Default	Related Program
01	**Speed Dialing Data**	1~9, 0, ∗, #, **P**ause (Press line key 1), **R**ecall/Flash (Press line key 2), **@** = Code to wait for answer supervision in ISDN (Press line key 3) (max. 24 digits)	No Setting	
02	**Name**	Maximum 12 Characters (Use dial pad to enter name)	No Setting	
03	**Transfer Mode**	0 = Not Used 1 = Internal Dial 2 = Incoming Ring Group (IRG)	0	
04	**Transfer Destination Number**	If Transfer mode is (Refer to 13-04-03): 1 = Internal Dial Mode 1~9, 0, ∗, #, P, R, @ (Maximum 24 Characters) 2 = Incoming Ring Group 0 ~ 100 (IRG Number) P = Pause R = Recall @ = Additional Digits when using ISDN functionality	No Setting	13-04-03

Item No.	Item	Input Data	Default	Related Program
05	**Incoming Ring Pattern**	Incoming Ring Pattern 0 = Normal Pattern 1 ~ 4 = Tone Pattern (1~4) 5 ~ 9 = Scale Pattern (1~5) 10 ~ 13 = Tone Pattern (5~8)	0	13-04-03
08	**Memo 1** Define Memo Display information tied to Common Speed Dial bin or Telephone Book which match with incoming Caller ID. This will be displayed in LCD Line 1.	Maximum of 28 digits	No Setting	15-02-58
09	**Memo 2** Define Memo Display information tied to Common Speed Dial bin or Telephone Book which match with incoming Caller ID. This will be displayed in LCD Line 2.	Maximum of 28 digits	No Setting	15-02-58
10	**Memo 3** Define Memo Display information tied to Common Speed Dial bin or Telephone Book which match with incoming Caller ID. This will be displayed in LCD Line 3.	Maximum of 28 digits	No Setting	15-02-58
11	**Mailbox Number** Per Speed Dial Bin No. (0000~9999), set the voice mail box number. Incoming Caller ID number will be checked with Speed Dial Data (PRG 13-04-01). From matched Speed Dial Bin No., the system finds the voice mail box number according to this PRG.	0 ~ 896 900 ~ 931 Station Mail Box (896) + Group Mail Box (32) = 928	0	
13	**Large LED Illumination Setup (by CID)** Define the color the large LED will blink when Incoming call with matching Caller ID is received.	1 = Not used 2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Light Blue 8 = White 9 = Rotation 0 = No Setting	0	14-01-35 15-23-01

Conditions

None

Feature Cross Reference

- **Speed Dial – System/Group/Station**

Program 13 : Abbreviated Dialing

13-05 : Speed Dial Trunk Group

Level: SB

Description

Use **Program 13-05 : Speed Dialing Trunk Group** to define the trunk group/route number to be seized for each Speed Dialing number.

If this program has an entry of 0 (no setting), then seizing a line follows the trunk access group routing of the caller's extension (refer to Program 14-06). This setting is available only in External Speed Dialing Mode (Program 13-01-01).

Input Data

Speed Dialing Bin Number	0~9999

Item No.	Trunk Group/Route Number
01	0~100

Default
No Setting

Conditions
None

Feature Cross Reference

➥ **Speed Dial – System/Group/Station**

Program 13 : Abbreviated Dialing

13-07 : Telephone Book Dial Number and Name

Level: SB

Description

Use **Program 13-07 : Telephone Book Dial Number and Name** to set up the dial number and name of each Telephone Book Number.

Input Data

Telephone Book Number	0~200

Index Data

Telephone Book Entry	0~449

Item No.	Item	Input Data	Default	Related Program
01	**Speed Dialing Data**	1~9, 0, ∗, #, **P**ause (Press line key 1), **R**ecall/Flash (Press line key 2), **@** = Code to wait for answer supervision in ISDN (Press line key 3) (max. 24 digits)	No Setting	
02	**Name**	Maximum 12 Characters (Use dial pad to enter name)	No Setting	
04	**Group Number**	1~40	1	

Conditions

None

Feature Cross Reference

None

Program 13 : Abbreviated Dialing

13-08 : Telephone Book System Name

Level: SB

Description

Use **Program 13-08 : Telephone Book System Name** to set up the name of the Telephone Book.

Input Data

Telephone Book Number	0~200

Item No.	Item	Input Data	Default	Related Program
01	**Telephone Book Name**	Up to six characters	No Setting	

Conditions

None

Feature Cross Reference

None

Program 13 : Abbreviated Dialing

13-09 : Telephone Book Group Name

Level: SB

Description

Use **Program 13-09 : Telephone Book Group Name** to set up the group name of the Telephone Book.

Input Data

Telephone Book Number	0~200

Item No.	Group Number
01	0~40

Item No.	Item	Input Data	Default	Related Program
01	**Group Name**	Up to 12 characters	1 = Group 01 2 = Group 02 3 = Group 03 : : : 40 = Group 40	

Conditions

None

Feature Cross Reference

None

Program 13 : Abbreviated Dialing

13-10 : Telephone Book Routing

Level: SB

Description

Use **Program 13-10 : Telephone Book Routing** to set up outgoing mode when using the Telephone Book. Trunk outgoing mode follows Program 14-06 setting.

Input Data

Telephone Book Number	0~200

Item No.	Item	Input Data	Default	Related Program
01	**Outgoing Mode**	0 = Trunk Outgoing 1 = Intercom Outgoing	0	

Conditions

None

Feature Cross Reference

None

Program 14 : Trunk, Basic Setup

14-01 : Basic Trunk Data Setup

Level: IN

Description

Use **Program 14-01 : Basic Trunk Data Setup** to set the basic options for each trunk port. Refer to the table below for a description of each option, its range and default setting.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default	Related Program
01	**Trunk Name** Set the names for trunks. The trunk name displays on a multiline terminal for incoming and outgoing calls.	Up to 12 Characters	Line 001 Line 002 Line 003 : Line 400	
02	**Transmit Level** Select the CODEC gain for the trunk. The option sets the gain (signal amplification) for the trunk you are programming.	1~57 (-15.5dB~+12.5dB in 0.5dB intervals)	32 (0dB)	
03	**Receive Level** Select the CODEC gain for the trunk. The option sets the gain (signal amplification) for the trunk you are programming.	1~57 (-15.5dB ~ +12.5dB in 0.5dB intervals)	32 (0dB)	
04	**Transmit Gain Level for Conference and Transfer Calls** Select the CODEC gain type used by the trunk when it is part of an Unsupervised Conference.	1~57 (-15.5dB ~ +12.5dB in 0.5dB intervals)	32 (0dB)	
05	**Receive Gain Level for Conference and Transfer Calls** Select the CODEC gain type used by the trunk when it is part of an Unsupervised Conference.	1~57 (-15.5dB ~ +12.5dB in 0.5dB intervals)	16 (-8dB)	

Item No.	Item	Input Data	Default	Related Program
06	**SMDR Printout** Include/Exclude the trunk you are programming from the SMDR printout. Refer to Program 35-01 and 35-02 for SMDR printout options.	0 = No Print Out 1 = Prints Out	0	35-01 35-02
07	**Outgoing Calls** Allow/Prevent outgoing calls on the trunk you are programming.	0 = Deny (No) 1 = Allow (Yes)	1	
08	**Toll Restriction** Enable/Disable Toll Restriction for the trunk. If enabled, the trunk follows Toll Restriction programming (example: Programs 21-05, 21-06). If disabled, the trunk is a toll free line.	0 = Restriction Disabled (No) 1 = Restriction Enabled (Yes)	1	21-04 21-05 21-06
09	**Private Line**	0 = Disable Private Line (Normal) 1 = Enable Private Line (Private Line)	0	
10	**DTMF Tones for Outgoing Calls** Enable/ Disable DTMF tones for outgoing trunk calls.	0 = Disable (No) 1 = Enable (Yes)	0	
11	**Account Code Required**	0 = Disable (No) 1 = Enable (Yes)	1	
12	**--- Not Used ---**			
13	**Trunk-to-Trunk Transfer** Enable/Disable loop supervision for the trunk. This option is required for Call Forwarding Off-Premise and Tandem Trunking only.	0 = Disable (No) 1 = Enable (Yes)	1	
14	**Long Conversation Cutoff** Enable/Disable the Long Conversation Cutoff feature for each trunk.	0 = Disable (No) 1 = Enable (Yes)	0	20-21-03 20-21-04
15	**Long Conversation Alarm Before Cutoff** Enable/Disable the Long Conversation Alarm for each trunk.	0 = Disable (No) 1 = Enable (Yes)	0	20-21-01 20-21-02

Item No.	Item	Input Data	Default	Related Program
16	**Forced Release of Held Call** Enable/Disable forced release for calls on Hold. If enabled, the system disconnects a call if it is on Hold longer than a programmed interval (Program 24-01-05). If disabled, forced disconnection does not occur. Program 24-01-01 also affects this option.	0 = Disable (No) 1 = Enable (Yes)	0	24-01-01 24-01-05
17	**Trunk to Trunk Warning Tone for Long Conversation Alarm** Enable/Disable the Warning Tone for Long Conversation feature for DISA callers.	0 = Disable (No) 1 = Enable (Yes)	0	
18	**Warning Beep Tone Signaling**	0 = Disable (No) 1 = Enable (Yes)	0	
19	**Privacy Mode Toggle Option** Enable/Disable a trunk ability to be switched from private to non-private mode by pressing the line key or Privacy Release function key.	0 = Disable (No) 1 = Enable (Yes)	0	
20	**Block Outgoing Caller ID** Allow (1)/Prevent (0) the system from automatically blocking outgoing Caller ID information when a user places a call. If allowed (i.e. block, enabled), the system automatically inserts the Caller ID block code (defined in 14-01-21) before the user dialed digits.	0 = Disable (No) 1 = Enable (Yes)	0	14-01-21
21	**Caller ID Block Code** Enter the code, up to 8 digits, that should be used as the Caller ID Block Code. This code is automatically inserted before dialed digits if Program 14-01-20 is set to **1**.	Dial (up to eight digits)	∗67	14-01-20
22	**Caller ID to Voice Mail** Enable/ Disable the system ability to send the Caller ID digits (Remote Log-On Protocol) to voice mail.	0 = Disable (No) 1 = Enable (Yes)	0	
23	**LCR (Least Cost Routing)**	0 = LCR Off 1 = LCR On 2= LCR ON (Cost Center Code only)	0	

Item No.	Item	Input Data	Default	Related Program
24	**Trunk-to-Trunk Outgoing Caller ID through Mode** Enable/Disable the ability to send the original Caller ID through when the call is Forward Off-Premise.	0 = Disable (No) 1 = Enable (Yes)	0	
25	**Continued/Discontinued Trunk-to-Trunk Conversation** Enable/Disable the ability to dial a service code to continue or disconnect the Trunk-to-Trunk conversation after the alert tone is heard.	0 = Disable (No) 1 = Enable (Yes)	0	20-28-01 20-28-02 20-28-03 24-02-07 24-02-10 25-07-07 25-07-08
26	**Automatic Trunk-to-Trunk Transfer Mode**	0 = Normal Transfer (Normal) 1 = Step Transfer (Step)	0	24-02-11 24-02-12
27	**Caller ID Refuse Setup**	0 = Disable (No) 1 = Enable (Yes)	0	
28	**Effective of Conversation Recording Destination for Extension**	0 = No Effect (No) 1 = Available (Yes)	1	15-12
30	**Flexible Ringing by Caller ID**	0 = Disable (No) 1 = Enable (Yes)	1	13-04
32	**Anti-trombone Function**	0 = No Effect (No) 1 = Available (Yes)	0	
33	**APSU Trunk Receive Gain** Additional PAD when a trunk call connects to APSU Voice Mail.	1~57 (-15.5dB ~ +12.5dB in 0.5dB intervals)	32 (0dB)	
35	**DT900/DT800 Large LED Illumination Setup** Sets LED color for incoming trunk call. In DT900/DT800 local terminal setting menu, illumination setting must be 'Automatic', otherwise the terminal will ignore PRG 14-01-35, PRG 15-05-37 and PRG 15-23 settings.	2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Light Blue 8 = White 9 = Rotation	2	
36	**Calling Party Name Indication (ISDN Trunk)** Shows sending caller name on outgoing ISDN calls.	0 = Disable 1 = Enable	0	

Item No.	Item	Input Data	Default	Related Program
38	**Outgoing CLI Selection** Select CLI (Calling Party Number) sending way to trunk. When set to 0, extension CLI number set in PRG21-13-01, PRG21-18-01, or PRG21-19-01is sent according to seized trunk type (ISDN/H.323/SIP) automatically. When set to 1, calling extension number is sent as CLI. When set to 2, extension table number set in PRG21-25-01 is sent as CLI. When set to 3, 4, or 5, extension CLI number set in PRG21-13-01, PRG21-18-01, or PRG21-19-01is sent to seized trunk regardless of trunk type.	0 = Contract Number 1 = Extension Number 2 = Extended Table 3 = PRG 21-13 4 = PRG 21-18 5 = PRG 21-19 6 = No digits	0	21-13-01 21-18-01 21-19-01 21-25-01
39	**CLI Composition** If select default value 0:”prefer extension”, the extension's CLI is sent out, if it is not empty. If it is empty, the trunk's CLI is sent instead. If select value 1:”combine trunk + extension”, the trunk's CLI is stored in the sending buffer, padded with the extension's CLI.	0 = Prefer Extension 1 = Combine Trunk + Extension	0	
40	**ISDN Queue Announcement Connect Mode**	0 = Send CONNECT 1 = Send PROGRESS #8	0	22-14 22-15 41-11 41-19
41	**Incoming Caller Name Usage** This setting determines whether the caller name information from the network is valid or not. If set to 1 (Ignore), the caller name information the network provides is ignored.	0 = Use 1 = Ignore	0	
46	**Collect Call Blocking** Set the incoming ISDN collect call block (reject) or not for the trunk line.	0 = Disable 1 = Enable	0	20-09-09
47	**DTMF Receiver Type**	1 = Type 1 2 = Type 2 3 = Type 3	1	

Item No.	Item	Input Data	Default	Related Program
48	**VoIP DSP Resource Number Selection for RTP Streaming** Assign the VoIP DSP resource number, which is set to "9 = Used for RTP Streaming" in PRG10-19-01. A duplication error occurs when both PRG14-01-48 and PRG14-01-49 are the same value. 0 and odd number entries are permitted. Two DSP resources (setting odd numbers and the subsequent even numbers) are used for each trunk.	0 ~ 255 0= Disable 1 ~ 255 = VoIP DSP Resource Number used for RTP Streaming	0	10-19-01
49	**System ID of Trunk** Displays the NetLink system ID of a system where the trunk is located. (Read Only)	0 = Not Netlink 1 ~ 50	0	

Default

Trunk Port Number	Name
1	Line 001
2	Line 002
:	:
400	Line 400

Conditions

None

Feature Cross Reference

➥ **Refer to features in the Input Data table.**

Program 14 : Trunk, Basic Setup

14-02 : Analog Trunk Data Setup

Level: IN

Description

Use **Program 14-02 : Analog Trunk Data Setup** to set the basic options for each analog trunk port. Refer to the table below for a description of each option, its range and default setting.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default	Related Program
01	**Signaling Type (DP/DTMF)** **Set the signaling type for the trunk.**	0 = Dial Pulse (10 PPS) 1 = Dial Pulse (20 PPS) 2 = DTMF	2	
02	**Ring Detect Type** Set Extended Ring Detect or Immediate Ring Detect for the trunk. For T1 loop/ground start trunks, this option must be set to 1 for the trunks to ring and light correctly.	0 = Normal/delayed 1 = Immediate Ringing	1	
03	**Flash Type** Select the flash type (open loop flash or ground). Always set this option for open loop flash.	0 = Open Loop Flash 1 = Ground	0	
04	**Hooking Type** Use Flash for Timed Flash (Program 81-01-14) or Disconnect (Program 81-01-15). (A user implements Flash by pressing the FLASH key while on a trunk call.)	0 = Timed Flash (Hooking) 1 = Disconnect (Cut)	0	81-10-07 81-10-08
05	**Dial Tone Detection for Manually Accessed Trunks** Enable/Disable dial tone detection for directly accessed trunks. If disabled, the system outdials on the trunks without monitoring for dial tone.	0 = Dial Tone Detection Not Used 1 = Dial Tone Detection Used	0	21-01-04
06	**Pause at 1st Digit after Line Seize in Manual Dial Mode**	0 = No Pause (No) 1 = Pause (Yes)	1	21-01-06

Item No.	Item	Input Data	Default	Related Program
07	**DP to DTMF Conversion Options** Determine how a user can convert a Dial Pulse (DP) call to a DTMF call. For each trunk, set the type of DP to DTMF conversion required. There are three conversion options: Automatic (0), Automatic and Manual (1), or Manual (2). Automatic: DP to DTMF conversion occurs automatically if the extension user waits more than 10 seconds before dialing the next digit. Automatic and Manual: DP to DTMF conversion occurs automatically if the extension user waits more than 10 seconds before dialing the next digit. In addition, the user can dial **#** to switch a DP trunk to DTMF dialing. Manual: Users can dial **#** to switch a DP trunk to DTMF dialing.	0 = Automatic 1 = Automatic and Manual 2 = Manual	2	21-01-03
08	**Answering Condition**	0 = Polarity Reversing (Polarity) 1 = Polarity Reversing or Timer (Int Digit)	1	21-01-03
09	**Busy Tone Detection**	0 = Disable (No) 1 = Enable (Yes)	0	
10	**Caller ID** Enable/Disable ability of a trunk to receive Caller ID information.	0 = No 1 = Yes	0	
11	**Next Trunk in Rotary if No Dial Tone** Enable/Disable the system ability to skip over a trunk if dial tone is not detected. This option pertains to calls placed using Speed Dial, ARS, Last Number Redial or Save Number dialed. It does not pertain to line key or Direct Trunk Access calls.	0 = Disable (No) 1 = Enable (Yes)	0	
12	**Detect Network Disconnect Signal**	0 = Disable (No) 1 = Enable (Yes)	1	
13	**Trunk-to-Trunk Limitation**	0 = Disable (No) 1 = Enable (Yes)	0	
14	**Loop Start/Ground Start**	0 = Loop Start (Loop) 1 = Ground Start (Ground)	0	

Item No.	Item	Input Data	Default	Related Program
17	**Sync. Ringing** Specify whether or not CO/PBX calls follow Synchronous Ringing. ➨ *Synchronous Ringing does not apply to incoming DID calls, off-hook ringing calls, or CO/PBX ring transfer calls.*	0 = Disable 1 = Enable	1	
18	**Busy Tone Detection on Talking**	0 = Disable 1 = Enable	0	
19	**Busy Tone Detection Frequency**	1~255	1	14-02-18
20	**Busy Tone Detection Interval**	0 = No 1 = Yes	0	14-10
21	**Fax Branch Connection**	0 = No 1 = Yes	0	
23	**Caller ID Receiving Method** Rings extension before receiving Caller ID (1) or after receiving Caller ID (0).	0 = Wait Caller ID 1 = Immediate Ring	1	

Conditions

None

Feature Cross Reference

None

Program 14 : Trunk, Basic Setup

14-04 : Behind PBX Setup

Level: IN

Description

Use **Program 14-04 : Behind PBX Setup** to indicate if the trunk is installed behind a PBX. There is one item for each mode.

Input Data

Trunk Port Number	1~400

Item No.	Day/Night Mode	Type of Connection	Default	Related Program
01	1~8	0 = Stand Alone (Trunk) 1 = Behind PBX (PBX) 2 = Not Used 3 = CTX assume 9	0	22-02

Conditions

None

Feature Cross Reference

➥ **Central Office Calls, Placing**

Program 14 : Trunk, Basic Setup

14-05 : Trunk Group

Level: IN

Description

Use **Program 14-05 : Trunk Group** to assign trunks to Trunk Groups. You can also assign the outbound priority for trunks within the group. When users dial up the trunk group, they seize the trunks in the order you specify in the outbound priority entry.

Input Data

Trunk Port Number	001~400

Item No.	Trunk Group Number	Priority Number
01	0~100	1~400

Default

Trunk Port	Group	Priority
1	1	1
:	:	:
400	1	400

Conditions

None

Feature Cross Reference

➥ **Trunk Groups**

Program 14 : Trunk, Basic Setup

14-06 : Trunk Group Routing

Level: IN

Description

Use **Program 14-06 : Trunk Group Routing** to set up an outbound routing table for the trunk groups you assigned in Program 14-05. When a user dials 9, the system routes their calls in the order (priority) specified. For example, if a user dials 9 and all calls in the first group are busy, the system may route the call to another group. Trunk Access Map programming (Programs 14-07) may limit this option. The system contains 100 routing tables for trunk access. Each table has four priority orders for trunk access. There are 100 available Trunk Group Numbers.

Example for setting:

With less than four trunk groups,

Route Number 1 : Order 1 – Trunk Group 1

: Order 2 – Trunk Group 2

For the above setting, if all the lines in trunk group 1 are busy, the system searches for an idle line in trunk group 2.

With more than four trunk groups,

Route Number 1 : Order 1 – Trunk Group 1

: Order 2 – Trunk Group 2

: Order 3 – Trunk Group 3

: Order 4 – 1002 (Jump To Route Number 2)

Route Number 2 : Order 1 – Trunk Group 4

: Order 2 – Trunk Group 5

For the above setting, if all the lines in the trunk groups 1, 2 and 3 are busy, the system searches for an idle line in trunk groups 4 and 5.

Input Data

Route Table Number	001~100

Item No.	Priority Order Number	Input Data	Related Program
01	1~4	0 = Not Specified 001~100 : (Trunk Group No.) 101~150: (100+ Networking System No.) 1001~1100 : (1000+ Route Table Number)	14-01-07 14-05 15-01-02 21-02

Default

- Route 1, Order Number 1 = 1 (Trunk Group 1).
- Order Numbers 2, 3, 4 = 0 (Not Specified).
- All Other Routes (2~100) and Order Numbers (1~4) = 0 (Not Specified).

Conditions

None

Feature Cross Reference

None

Program 14 : Trunk, Basic Setup

14-07 : Trunk Access Map Setup

Level: IN

Description

Use **Program 14-07 : Trunk Access Map Setup** to set up the Trunk Access Maps. This sets an extension access options for trunks. For example, an extension can place only outgoing calls on trunks to which it has outgoing access. There are 400 Access Maps with all 400 trunk ports programmed in Map 1 with full access.

An extension can use one of the maps you set up in this program. Use Program 15-06 to assign Trunk Access Maps to extensions. Each trunk can have one of eight access options for each Access Map.

NOTE

911 calls will override Program 14-07 settings.

Input Data

Access Map Number	001~400

Item No.	Trunk Port Number	Input Data
01	001~400	0 = No access 1 = Outgoing access only 2 = Incoming access only 3 = Access only when trunk on Hold 4 = Outgoing access and access when trunk on Hold 5 = Incoming access and access when trunk on Hold 6 = Incoming and Outgoing access 7 = Incoming access, outgoing access and access when trunk on Hold

Default

Access Maps 1~400 = Trunk Ports 1~400 assigned with option 7 access (incoming and outgoing access and access when trunk is on Hold).

Conditions

None

Feature Cross Reference

- Central Office Calls, Answering
- Central Office Calls, Placing

Program 14 : Trunk, Basic Setup

14-08 : Music on Hold Source for Trunks

Level: IN

Description

Use **Program 14-08 : Music on Hold Source for Trunks** to define a Music on Hold source for a trunk as either the ACI or COI port.

IMPORTANT

If ACI is selected as the source in Item 1, the port number for the source must be selected in Item 2.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**MOH Type** Select a Music on Hold source for the trunk.	0 = Internal synthesized/external MOH 1 = A customer-provided source connected to BGM port 2 = A customer-provided source connected to ACI port	0
02	**Source Port Number**	If the MOH Type is 2, the source port number is 0~96.	0

Conditions

None

Feature Cross Reference

➥ **Music on Hold**

Program 14 : Trunk, Basic Setup

14-09 : Conversation Recording Destination for Trunks

Level: IN

Description

Use **Program 14-09 : Conversation Recording Destination for Trunks** to set the ACI Conversation Recording destination for each trunk.

NOTE

If both Programs 14-09 and 15-12 define a destination, the destination in Program 15-12 is followed.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**ACI Recording Destination Extension Number** Enter the ACI extension number where the trunk calls should be recorded.	Maximum eight digits	No Setting
02	**ACI Automatic Recording for Incoming Calls** Determine if incoming trunk calls should be automatically recorded in the ACI.	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

➥ **Analog Communications Interface (ACI)**

Program 14 : Trunk, Basic Setup

14-11 : ID Setup for IP Trunk

Level: IN

Description

Use **Program 14-11 : ID Setup for IP Trunk** to set the ID of each IP Trunk. This program refers to incoming and outgoing IP Trunk calls. The ID is sent on an outgoing IP Trunk call. This program is used only for H.323.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**IP Trunk ID**	0~65535 (0 = No setting)	0

Conditions

- This Data is called IP trunk outgoing call, or IP trunk incoming call.
- This ID is notified at IP trunk outgoing call.
- It is not notified when ID is 0.
- Incoming Call arrives to the trunk port of the same ID as ID notified from the partner system.

Feature Cross Reference

➥ **IP Trunk – H.323**

Program 14 : Trunk, Basic Setup

14-12 : SIP Register ID Setup for IP Trunk

Level: IN

Description

Use **Program 14-12 : SIP Register ID Setup for IP Trunk** to define the SIP Register ID for IP Trunks.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**Register ID**	0 ~ 31	0
02	**Pilot Register ID**	0 ~ 31	0

Conditions

None

Feature Cross Reference

None

Program 14 : Trunk, Basic Setup

14-13 : CCIS System Route ID

Level: IN

Description

Use **Program 14-13 : CCIS System Route ID** to define the CCIS route ID to the trunk group used for K-CCIS.

Input Data

Trunk Group Number	001~100

Item No.	Trunk Group Number	Input Data	Default	Related Program
01	001~100	0 = Not Assigned 1~8 = CCIS Route IDs ➨ *CCIS Route IDs 5~ 8 are for future use and should not be used.*	0	14-05-01 50-02-01 50-02-02 50-02-03 50-02-04 50-02-05 50-02-06

Conditions

Not used for IP-CCIS

Feature Cross Reference

➥ **Key-Common Channel Interoffice Signaling (K-CCIS)**

Program 14 : Trunk, Basic Setup

14-14 : CCIS Trunk CIC Assignment

Level: IN

Description

Use **Program 14-14 : CCIS Trunk CIC Assignment** to define the CIC (Circuit Identifier Code) to each voice channel (trunk port) used for K-CCIS.

Input Data

Trunk Port Number	001 ~ 400

Item No.	Trunk Port Number	Input Data	Default	Related Program
01	001~400	0 = Not Assigned 1~127 = CIC Numbers	0	14-05-01

Conditions

- CIC Numbers must be assigned consecutively for K-CCIS to operate correctly.
- The D-Channel trunk port should not have a CIC assignment.
- This is not used for IP-CCIS.

Feature Cross Reference

➥ **Key-Common Channel Interoffice Signaling (K-CCIS)**

Program 14 : Trunk, Basic Setup

14-18 : IP Trunk Data Setup

Level: IN

Description

Use **Program 14-18 : IP Trunk Data Setup** to define the basic setting of each IP Trunk.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**IP Trunk Type** This indicates the IP Trunk type. (Read Only)	0 = None 1 = SIP 2 = H.323 3 = CCIS	0
02	**System ID (SIP Trunk)** This indicates NetLink System ID of the trunk when multiple SIP trunks for NetLink is enabled. (Read Only)	0 ~ 50	0
03	**P2P Mode (SIP Trunk)** Select whether or not peer-to-peer connection method is used for the SIP Trunk.	0 = Disable 1 = Enable	0
04	**Video Mode (SIP Trunk)** Select whether or not the Video mode is used for the SIP Trunk.	0 = Disable 1 = Enable	0
05	**SIP Profile**	1 = Profile 1 2 = Profile 2 3 = Profile 3 4 = Profile 4 5 = Profile 5 6 = Profile 6 ➨ *With Version 2.00 or lower CPU Software only two SIP Profiles are supported.*	1

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-01 : Basic Extension Data Setup

Level: SA

Description

Use **Program 15-01 : Basic Extension Data Setup** to define the basic settings for each extension.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default	Related Program
01	**Extension Name** Define the extension/virtual extension name.	Up to 12 Characters	101 = STA 101 202 = STA 202 : 199 = STA 199 3101 = STA 3101 : 3513 = STA 3513	
02	**Outgoing Trunk Line Preference** Set the extension outgoing Trunk Line Preference. If enabled, the extension user receives trunk dial tone when they lift the handset. The user hears trunk dial tone only if allowed by Trunk Access Map programming (Programs 14-07 and 15-06). Refer to the Line Preference feature for more details.	0 = Off 1 = On	0	14-06 21-02
03	**SMDR Printout** Include/Exclude the extension in the SMDR report.	0 = Do not print on SMDR report 1 = Include on SMDR report	1	

Item No.	Item	Input Data	Default	Related Program
04	**ISDN Caller ID** If both Program 15-01-04 and 10-03-05 are enabled, the system includes Caller ID in the Setup message as Presentation Allowed. If these options are disabled, it is Presentation Restricted.	0 = Disable 1 = Enable	1	10-03-05 20-08-13
05	**Restriction for Outgoing Disable on Incoming Line** Enable/Disable supervised dial detection for an extension.	0 = No 1 = Yes	0	21-01-15 21-01-16 21-01-17 80-03-01
07	**Do-Not-Call**	0 = Off 1 = On	0	21-01-19
08	**Call Attendant Busy Message**	0~100 (0 = No setting)	0	11-11-59 40-10-08
09	**Call Attendant Answer Message**	0~100 (0 = No setting)	0	11-11-60 40-10-09
10	**Extension Number** Sends caller name on outgoing ISDN calls.	0 = Disable 1 = Enable	0	
12	**CCIS CPN** Enable or Disable sending CPN to remote trunk via CCIS.	0 = Disable 1 = Enable	1	
13	**Special Ringtone Choice**	0 = Incoming extension ring tone 1 = Tone pattern 1 2 = Tone pattern 2 3 = Tone pattern 3 4 = Tone pattern 4 5 = Tone pattern 5 6 = Tone pattern 6 7 = Tone pattern 7 8 = Tone pattern 8	0	15-02-03
14	**SMDR Output of Intercom Calls Made**	0 = Disable 1 = Enable	0	15-01-49
15	**SMDR Output of Intercom Calls Answered**	0 = Disable 1 = Enable	0	15-01-49
16	**Line Load Control Restriction**	0 = Disable 1 = Enable	Ext 101=0, Ext102 ~ =1	

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-02 : Multiline Telephone Basic Data Setup

Level: IN

Description

Use **Program 15-02 : Multiline Telephone Basic Data Setup** to set up various multiline telephone options.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default	Related Program
01	**Display Language Selection** (To select options 8~10, press either 8 or Recall, then press line keys 1~3. Key 1 is option 8, Key 2 is option 9, and Key 3 is option 10.)	0 = Japanese 1 = English 2 = German 3 = French 4 = Italian 5 = Spanish 6 = Dutch 7 = Portuguese 8 = Norwegian 9 = Danish 10 = Swedish 11 = Turkish 12 = Latin American Spanish 13 = Romanian 14 = Polish 17 = Simplified Chinese 18 = Traditional Chinese	1	11-11-13

Item No.	Item	Input Data	Default	Related Program
02	**Trunk Incoming Ring Tone** Set the tone (pitch) of the incoming trunk ring for the extension port you are programming.	1 = High 2 = Medium 3 = Low 4 = Ring Tone 1 5 = Ring Tone 2 6 = Ring Tone 3 7 = Ring Tone 4 8 = Ring Tone 5 9 = Music Ring 1 10 = Music Ring 2 11 = Music Ring 3 ✎ *DT500, DT800 and DT900 series terminals can select Data Number 9, 10 and 11.*	2	22-03 15-02-78
03	**Extension Ring Tone** Set the tone (pitch) of the incoming extension call ring for the extension port you are programming. Also refer to Program 15-08.	1 = High 2 = Medium 3 = Low 4 = Ring Tone 1 5 = Ring Tone 2 6 = Ring Tone 3 7 = Ring Tone 4 8 = Ring Tone 5 9 = Music Ring 1 10 = Music Ring 2 11 = Music Ring 3 ✎ *DT500, DT800 and DT900 series terminals can select Data Number 9, 10 and 11.*	8	15-01-13 15-02-78
04	**Redial (Speed Dial) Control** Control the function of the extension Redial key when used with Speed Dialing. The Redial key can access either the Common or Group Speed Dialing numbers.	0 = Common and Individual Speed Dialing 1 = Group Speed Dialing	0	
05	**Transfer Key Operation Mode** Set the operating mode of the extension CONF key. The keys can be for Call Transfer, Serial Calling or Flash. When selecting the Flash option (selection 2), refer also to Program 81-01-14.	0 = Transfer 1 = Call back 2 = Hook	0	
06	**Hold Key Operating Mode** Set the function of the Multiline Hold key. The Hold key can activate normal Hold or Exclusive Hold.	0 = Normal (Common) 1 = Exclusive Hold	0	

Item No.	Item	Input Data	Default	Related Program
07	**Automatic Hold for CO Lines** When talking on a CO call and another CO line key is pressed, the original trunk is placed on Hold or Disconnected.	0 = Hold 1 = Disconnect (Cut)	1	
08	**Automatic Handsfree** Set whether pressing a key accesses a One-Touch Key or if it preselects the key.	0 = Preselect 1 = One-Touch (Automatic Handsfree)	1	
10	**Ringing Line Preference for Trunk Calls** Select between Idle and Ringing Line Preference for trunk calls.	0 = Idle (Off) 1 = Ringing (On)	1	
11	**Callback Automatic Answer** Enable/Disable automatic answer of calls recalling to a station. For example, if a Transfer Recall or Hold Recall is ringing back to a station, the following happens: If PRG 15-02-11 is enabled, the station automatically answers the recall when it goes off-hook. If PRG 15-02-11 is disabled, a station does not automatically answer the recall when it goes off-hook. The user must first press the line appearance of the recalling call or press the answer key.	0 = Off 1 = On	1	
12	**Off-Hook Ringing** Set the telephone Off-Hook signaling. Off-hook signaling occurs when a telephone user receives a second call while busy on a handset call. To enable/ disable Off-Hook Signaling for an extension Class of Service, use Program 20-13-06.	0 = Muted Off-Hook Ringing 1 = No Off-Hook Ringing 2 = Not Used 3 = Beep in Speaker (SP) 4 = Beep in Handset (HS) 5 = Speaker & Handset Beep	5	
13	**Outgoing Caller List Mode** Select whether the Redial List feature should store internal and external numbers (0), or only external numbers (1).	0 = ICM/Trunk (Extension/Trunk Mode) 1 = Trunk Mode	1	
15	**Storage of Caller ID for answered call**	0 = Disable (Off) 1 = Enable (On)	1	
16	**Hands Free Operation**	0 = Disable 1 = Enable	1	

Item No.	Item	Input Data	Default	Related Program
18	**Power-Saving Mode**	0 = Normal mode 1 = Power-Saving Mode (Eco-Mode)	1	20-02-10
21	**Virtual Extension Access Mode (when idle Virtual Extension key pressed)** Determine whether a Virtual Extension/Call Arrival Key(CAR) should function as a DSS key, a Virtual Extension, or a CAR key. When DSS (0) is selected, the key functions as a DSS key to the extension and for incoming calls to that extension. When Outgoing (1) is selected, the key functions as a virtual extension and can be used for incoming and outgoing calls. When Ignore (2) is selected, the key functions as a CAR key and can receive incoming calls only.	0 = DSS 1 = Outgoing (OTG) 2 = Ignore	2	
22	**Multiple Incoming From Intercom and Trunk** If enabled, this affects how a Hotline key lights, based on the setting in Program 22-01-01. If 22-01-01 is set to 1 for trunk priority, the Hotline key lights solid when a trunk call rings in. If 22-01-01 is set to 0 for intercom priority, the Hotline key does not light for incoming trunk calls, but lights solid for intercom calls. If 15-02-22 is disabled, Hotline keys light solid for any incoming calls regardless of the setting in Program 22-01-01.	0 = Disable 1 = Enable	1	22-01-01
23	**Speed Dial Preview Mode** Define how a speed dial key functions when pressed. If set to Preview (0), the speed dial number can be previewed before dialing. If set to Outgoing Immediately (1), the number is dialed immediately.	0 = Preview 1 = Outgoing Immediately	0	

Item No.	Item	Input Data	Default	Related Program
24	**Conference Key Mode** Allow an extension Conf key to be programmed for Conference or for Transfer. When set for 1, the user places a call on hold, dials the extension to which it should be transferred, then presses the Conf key. The call is then transferred. When set for 0, with an active call, the user presses the Conf key, places a second call, then presses the Conf key twice. All the calls are then connected.	0 = Conference 1 = Transfer	0	
26	**MSG Key Operation Mode** Determine whether an extension MSG key should function as a Message key or Voice Mail key. If set as a Message key, users can press the key to call the voice mail only when they have new messages.	0 = Message Key 1 = Voice Mail Key	0	
27	**Handset Volume** Determine how an extension handset volume is set after it is adjusted during a call. ➨ *When **1** is assigned in this program and a user sets the volume to maximum, the volume is reset to a level to meet FCC standards when the user hangs up.*	0 = Back to Default (Back) 1 = Stay at previous level (Stay)	1	
28	**Message Waiting Lamp Color** Determine whether an extension Message Waiting Lamp lights Green or Red when a message is received.	0 = Green 1 = Red	1	15-02-35 15-02-36 15-02-37 15-02-38
29	**PB Back Tone Level** Allow adjustment of the PB Back Tone Level when you are calling an ISDN Line.	1~57 (-15.5dB ~ +12.5dB)	32 (0dB)	
30	**Toll Restriction Class** Select the Toll Restriction Class to use when placing a call from a virtual extension.	0 = Vir. Ext. (Virtual Extension Class) 1 = Real Ext. (Real Extension Class)	1	
34	**Call Register Mode** The Caller ID Scroll stores Trunk calls only (0), or both Internal and Trunk calls (1).	0 = Trunk Mode 1 = Extension/Trunk Mode	0	

Item No.	Item	Input Data	Default	Related Program
35	**Message Waiting Lamp Cycle for Calling Extension** Select the cycle method that the Large LED flashes when the extension has set Message Waiting.	1 = Cycle 1 2 = Cycle 2 3 = Cycle 3 4 = Cycle 4 5 = Cycle 5 6 = Cycle 6 7 = Cycle 7	3	15-02-28 15-02-36 15-02-37 15-02-38
36	**Message Waiting Lamp Cycle for Called Extension** Select the cycle method that the Large LED flashes when the extension has Message Waiting set to the extension.	1 = Cycle 1 2 = Cycle 2 3 = Cycle 3 4 = Cycle 4 5 = Cycle 5 6 = Cycle 6 7 = Cycle 7	2	15-02-28 15-02-35 15-02-37 15-02-38
37	**Voice Mail Message Wait Lamp Color** Select the color of the Large LED when a voice mail message is waiting at the extension.	0 = Green 1 = Red	1	15-02-28 15-02-35 15-02-36 15-02-38
38	**Voice Mail Message Wait Lamp Cycle** Select the cycle method that the Large LED flashes when the extension has a VM Message Waiting set to the extension.	1 = Cycle 1 2 = Cycle 2 3 = Cycle 3 4 = Cycle 4 5 = Cycle 5 6 = Cycle 6 7 = Cycle 7	2	15-02-28 15-02-35 15-02-36 15-02-37
40	**Additional Dial for Caller ID Call Return** Enter the digits to be dialed in front of the Caller ID when using the Caller ID Return function.	Up to four digits (0, 1~9, #, ∗)	No Setting	10-02-04
41	**Incoming Ring Setup**	0 = Speaker Normal Ring 1 = Headset Ring	0	
42	**Incoming Off-Hook Ring Setup**	0 = Speaker Off-Hook Ring 1 = Headset Off-Hook Ring	0	
43	**Headset Ring Duration**	0 = No Switch to Speaker Ring 1 = 10 seconds 2 = 20 seconds 3 = 30 seconds 4 = 40 seconds 5 = 50 seconds 6 = 1 minute	0	

Item No.	Item	Input Data	Default	Related Program
44	**Reversing Display Indication** The display on the DT900/DT800/DT700/DT500/DT400/DT300 style telephones can be set to Normal or Reversed.	0 = Normal Indication 1 = Reversing Indication	0	
45	**Double Height Character Indication** On the DT800/DT700/DT500/DT400/DT300 style phones Name and Number Line (2), Calender Line (1) or No Line (0) set to has double height characters. ➨ *The DT900 does not support Double Height Character.*	0 = Normal Indication 1 = Double height character indication of calendar display line 2 = Double height character indication of name and number display line	0	
46	**Backlight LCD duration** On the DT900/DT800/DT700/DT500/DT400/DT300 style phones set the time the Backlight LCD stays on.	0 = Continuous on 1 = 5 seconds 2 = 10 seconds 3 = 15 seconds 4 = 30 seconds 5 = 60 seconds	2	
47	**Icon display of DESI-less** On the DTL/ITL-8LD style phones are icons displayed (1), or not displayed (0).	0 = Off 1 = On	1	11-11-17 15-07-01 15-20-01
48	**Short Ring Setup**	0 = Disable 1 = Enable	0	80-09-01
49	**Button Kit Information for Multiline Telephone**	0 = No setting 1 = Not Used 2 = Type-A with Cursor Key 3 = Type-B with Cursor Key 4~9 = Not Used 10 = Type-A for Overseas without Cursor Key (Retrofit) 11 = Type-B without Cursor Key (Retrofit)	0	90-48-01
51	**Alarm Notification to other NetLink System**	0 = Disable 1 = Enable	1	20-08-16
52	**Voice Mail Message Waiting Lamp Setup**	0 = Light the VM function key only. 1 = Light the Message Waiting lamp only. 2 = Light the MW lamp and VM key.	0	15-07-01
54	**Menu Operation Mode**	0 = Automatic Close 1 = Manual Close	0	
57	**Caller Log on Busy**	0 = Off 1 = On	1	15-02-34

Item No.	Item	Input Data	Default	Related Program
58	**Display Mode of Incoming Trunk**	0 = Caller ID 1 = Memo Information	0	13-04-08 13-04-09 13-04-10
60	**Softkey/Navigation Key Mode**	0 = Standard Mode 1 = Advanced Mode	1	
69	**Microphone Operation on Handsfree** Select the microphone status when starting Handsfree mode.	0 = No change for MIC status 1 = Start from MIC enabled 2 = Start from MIC muted	0	
70	**MIC Key Operation** Control whether the microphone key is enabled (0) or disabled (1).	0 = Enabled 1 = Disabled	0	
71	**Disable Softkey** When set to 1 (On), disable Softkey and cursor key operation at the terminal.	0 = Off 1 = On	0	
72	**DT500/DT400 Large LED Illumination Setup – Internal Incoming**	2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Light Blue 8 = White 9 = Rotation	3	
73	**Multiline Telephone Basic Data Setup - Calling Party History View Mode** For saving multiple entries for the same number (in case of different calling times), set this to 1. For saving a single entry for the same number, set this to 0.	0 = Pack 1 = Unpack	0	
74	**Ten Key Backlit Control** This program sets the brightness of the ten key backlighting When Set to Normal (0), brightness of ten key backlighting is Full. When set to Half (1), brightness of ten key backlighting is Half.	0 = Normal 1 = Half	0	
75	**History View Mode** Select the 3-line or 1-line view of history.	0 = 1-line view 1 = 3-line view	0	
76	**3-line View Caller ID** Select the number and name preference to display in 3-line view.	0 = Dial 1 = Name	1	

Item No.	Item	Input Data	Default	Related Program
77	**3-line View Index Type** Select the index type of the call history. “Status mode” indicates incoming call status.	0 = Index mode 1 = Status mode	0	
78	**Music Ring Setting** This program decides whether the music ring feature is enabled. ✎ *Do not set enable to the extension, it is not supported by the download ring tone feature.*	0 = Disable 1 = Enable	0	15-02-02 15-02-03 15-08-02 22-03-02

Table 2-5 Lamp Cycle On/Off Timing Pattern

Programs 15-02-35, 36, and 38		
Input		**Cycle**
1	Cycle 1	500ms – ON / 500ms – OFF
2	Cycle 2	250ms – ON / 250ms – OFF
3	Cycle 3	125ms – ON / 125ms – OFF
4	Cycle 4	125ms – ON / 125ms – OFF / 125ms – ON / 625ms – OFF
5	Cycle 5	875ms – ON / 125ms – OFF
6	Cycle 6	625ms – ON / 125ms – OFF / 125ms – ON / 125ms – OFF
7	Cycle 7	1000ms – ON

Table 2-6 Program 15-02 – Incoming Signal Frequency Patterns

Incoming Signal Frequency Pattern	Type	Frequency 1	Frequency 2	Modulation
External Incoming Signal Frequency (Pattern 1)	High Middle Low	1100 660 520	1400 760 660	16Hz 16Hz 16Hz
External Incoming Signal Frequency (Pattern 2)	High Middle Low	1100Hz 660Hz 520Hz	1400Hz 760Hz 660Hz	8Hz 8Hz 8Hz
External Incoming Signal Frequency (Pattern 3)	High Middle Low	2000Hz 1400Hz 1100Hz	760Hz 660Hz 540Hz	16Hz 16Hz 16Hz

Table 2-6 Program 15-02 – Incoming Signal Frequency Patterns (Continued)

Incoming Signal Frequency Pattern	Type	Frequency 1	Frequency 2	Modulation
External Incoming Signal Frequency (Pattern 4)	High Middle Low	2000Hz 1400Hz 1100Hz	760Hz 660Hz 540Hz	8Hz 8Hz 8Hz
Internal Incoming Signal Frequency	High Middle Low	1100Hz 660Hz 520Hz	1400Hz 760Hz 660Hz	8Hz 8Hz 8Hz

Conditions

None

Feature Cross Reference

➥ **Refer to the Input Data chart.**

Program 15 : Extension, Basic Setup

15-03 : Single Line Telephone Basic Data Setup

Level:
IN

Description

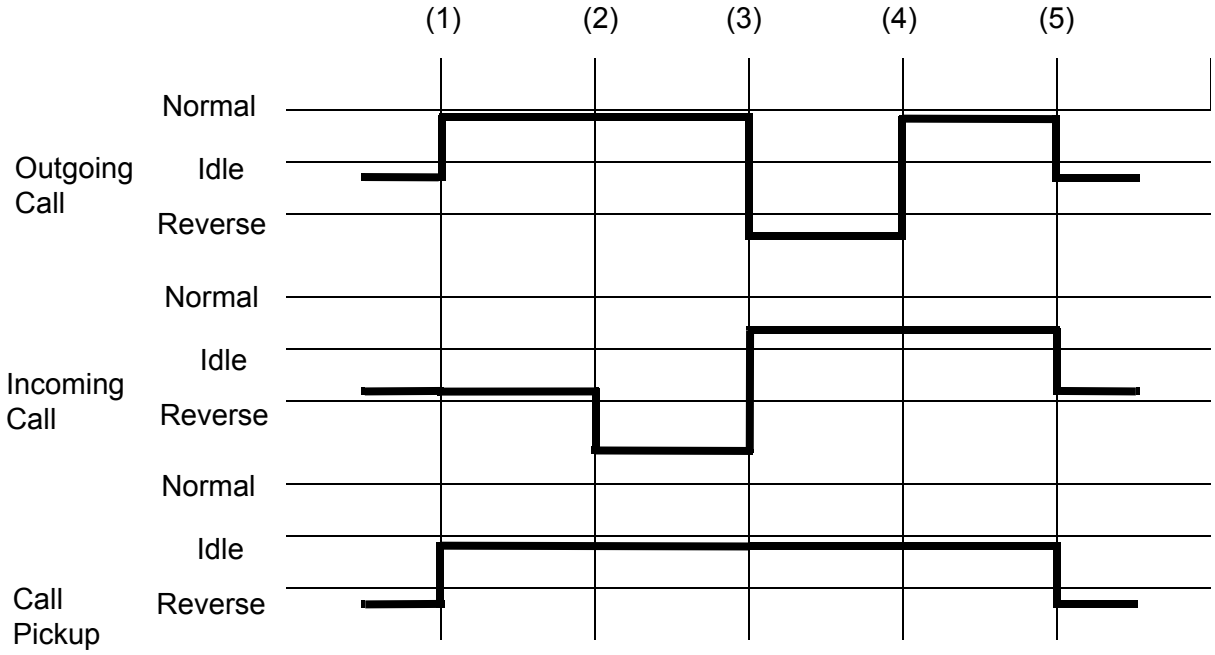
Use **Program 15-03 : Single Line Telephone Basic Data Setup** to set up various single line telephone options.

Input Data

Extension Number	001 ~ 960

Item No	Item	Input Data	Default	Related Program
01	**SLT Signaling Type** Select the type of dialing the connected telephone uses. For the UNIVERGE SV9100 Wireless telephones to function correctly, this must be set to 0. If this option is set for DTMF, after an outside call is placed, the system cannot dial any additional digit. This program change is automatically performed when the UNIVERGE SV9100 Wireless telephone is registered. When upgrading software from prior versions, the previous default of 1 is saved from the prior database so this option must be changed manually.	0 = DP 1 = DTMF	Port1-896: 1 (DTMF) Port 897-960 : 0 (DP)	15-03-03 45-01-01
03	**Terminal Type** Enter 1 for this option to allow a single line port to receive DTMF tones after the initial call setup. Enter 0 to have the port ignore DTMF tones after the initial call setup. For Voice Mail, always enter 1 (e.g., receive DTMF tones).	0 = Normal 1 = Special	Port1-896 : 0 (Normal) Port897-960 : 1 (Special)	15-03-01 45-01-01
04	**Flashing** Enable/Disable Flash for single line (500/2500 type) telephones.	0 = No 1 = Yes	1	
05	**Trunk Polarity Reverse** Not Used in U.S. – Do Not Change Default Entry as DTMF issues may arise with voice mail.	0 = Off 1 = On	0	

Item No	Item	Input Data	Default	Related Program
06	**Extension Polarity Reverse** Not Used in U.S. -- Do Not Change Default Entry as DTMF issues may arise with voice mail.	0 = Disable (Off) 1 = Enable (On)	0	
07	**Enabled On-Hook When Holding (SLT)**	0 = No 1 = Yes	1	11-12-45
08	**Answer On-Hook when Holding (SLT)**	0 = Disable (No) 1 = Yes (Enable)	1	11-12-46
09	**Caller ID Function - For External Module** Enable/Disable the Caller ID FSK signal for an external Caller ID module or a 3rd party vendor telephone with Caller ID display. Important: If voice mail is used, this setting must be disabled for the system integration codes to be correct. ✎ *With a 2500 set (no Caller ID) installed, this must be set to 0 for incoming callers to have a talk path.*	0 = Disable (Off) 1 = Enable (On)	0	
10	**Caller ID Name** Determine if an extension user telephone should display the Caller ID name.	0 = Disable 1 = Enable	1	15-03-09
14	**Forwarded Caller ID Display Mode** Determine what the display shows when a multiline terminal receives a forwarded outside call.	0 = Calling Extension Number (Calling) 1 = External Caller ID (Forward)	0	
15	**Disconnect without dial after hooking hold** Determine whether or not to disconnect a held call when on-hook without any dialing after hooking-hold.	0 = Normal 1 = Disc.	0	
16	**Special DTMF Protocol Send** Determine whether or not to send the extension number of the phone forwarded to the extension when PRG 15-03-03 is set to Special (1) and not in the VM group.	0 = No 1 = Yes	0	
18	**Select Special Terminal Type** Select what terminal type transmits data via a SIP trunk.	0 = Fax 1 = Modem	0	15-03-03



(1) = Off-Hook (2) = Calling/Ringing (3) = Answer (4) = Detect Hang Up (5) = On-Hook

Conditions

None

Feature Cross Reference

➥ **Single Line Telephones, Analog 500/2500 Sets**

Program 15 : Extension, Basic Setup

15-05 : IP Telephone Terminal Basic Data Setup

Level:
IN

Description

Use **Program 15-05 : IP Telephone Terminal Basic Data Setup** to set up the basic settings for an IP telephone.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default	Description	Related Program
01	**Terminal Type**	1 = H.323 None: Version 10.00 or higher 2 = SIP 3 = None 4 = DT900/DT800	3	Viewing Only – No changes permitted	
02	**IP Phone Fixed Port Assignment**	MAC address 00-00-00-00-00-00 to FF-FF-FF-FF-FF-FF	00-00-00-00-00-00	MAC Address of registered SIP MLT phone is stored and/or can input the MAC address of an SIP MLT phone so when it comes online it is provided with the extension in which the MAC address matches.	15-05-01
04	**Nickname**	Up to 48 characters	No setting	Nickname section on Invite message. Example: Extension 100 has a Nickname set to PAUL. Extension 101 has command 15-05-17 set to Nickname. The inbound call to extension 101, from 100, shows PAUL.	15-05-17
07	**Using IP Address**	0.0.0.0~255.255.255.255	0.0.0.0	Informational Only registered IP Phones	15-05-01
09	**Call Procedure Port**		0	Viewing Only – No changes permitted	
11	**DT900/DT800 C/CTR Port**			0~65535	No setting

Item No.	Item	Input Data	Default	Description	Related Program
15	**CODEC Type**	1-Type 1 2-Type 2 3-Type 3 4-Type 4 5-Type 5	1	Assign CODEC Type for the STD SIP or MLT SIP.	84-24-XX 84-19-XX
16	**Authentication Password**	Up to 24 characters GCD-CP20: The Password needs to be 8 or more characters in length and have at least one each of an uppercase letter, a lowercase letter and a number.	None	Assign the authentication password for SIP single line telephones.	15-05-01
18	**IP Duplication Allow Mode**	0 = Disable 1 = Enable	0	Allows one IP Address to be assigned to multiple extensions.	15-05-01
19	**Side Option Information**	0 = No Option 1 = 8LK Unit 2 = 16LK Unit 3 = 24ADM	0	This is a read only program that shows what type of Line Key unit is installed on the telephone.	10-03-09 15-05-22
20	**Bottom Option Information**	0 = No Option 1 = ADA 2 = BHA	0	This is a read only program that shows what type of adapter is installed on the telephone.	10-03-10
21	**Handset Option Information**	0 = Normal Handset 1 = Handset for power failure (PSA/PSD) 2 = BCH	0	This is a read only program that shows what type of Handset is installed on the telephone.	10-03-11 15-05-23
22	**Side Option Additional Data**	0 = No Setting 1~32 = DSS Console number	0	This is a read only program that shows the DSS console number when one is installed on the telephone.	30-01 30-02 30-03 30-04 30-05 30-06
23	**Handset Option Additional Information**	0 = No Setting 1~16 = Terminal equipment number (TEN) of Bluetooth Cordless Handset (BCH)	0	Determine to use TEN or not.	
24	**Protection Service**	0 = Not Used 1 = Used	0	When enabled this allows the MLT SIP telephones to use the security key. If disabled, and the key is pressed, nothing happens.	

Item No.	Item	Input Data	Default	Description	Related Program
26	**DT900/DT800 Terminal Type**	0 = Not Set 1 = ITL-( )E-1D/IP- ( )E-1 2 = ITL-( )D-1D/ITL-24BT1D/ITL- 4PA-1D [without 8LKI(LCD)-L] 3 = ITL-( )D-1D/ITL-24BT1D/ITL-24PA-1D [with 8LKI(LCD)-L] 4 = ITL-320C-1 5 = Softphone 6 = CTI 7 = Not Used 9…Not Used 10…ITL-( )DG-3 10 = ITL-DG-3 11 = ITL-CG-3 12 = ITL-2CR-1 13 = ITZ-( )-( )D/ITZ-( )PD-( )D/ITZ-( )DG 14 = ITZ-( )CG 15 = ITZ-( )LDG/ITZ-( )LD 16 = ITY-6D 17 = ITY-8LDX 18 = ITK-( )CG 19 = ITK-( )D 20 = ITK-( )LCGX 21 = ITK-( )TCGX (Version 10.0 or higher required number on 18~21)	0		
27	**Personal ID Index**	0~960	0	Used when the SIP Multiline telephone is using manual/auto registration. Assign each phone a unique personal index. Then go to command 84-22 to assign the user name and password.	84-22-XX
28	**Addition Information Setup**	0 = Do not inform 1 = Inform	0	Select whether or not to inform of additional information.	
29	**Terminal WAN-side IP Address**	0.0.0.0~255.255.255.255	0.0.0.0		

Item No.	Item	Input Data	Default	Description	Related Program
30	**DTMF Play during Conversation at Receive Extension**	0 = Do Not Play 1 = Play	0		
31	**Alarm Tone during Conversation (RTP packet loss alarm)**	0 = Off 1 = On	1		
32	**Ten Key Pad Talkie**	0 = Off 1 = On	0		
33	**LAN Side IP Address of Terminal**	0.0.0.0~255.255.255.255	0.0.0.0	Read-only	
34	**Terminal Touch Panel On/Off**	0 = Off 1 = On	1	Select whether the touch screen used on ITL-320C-1 (BK) TEL can be used (1) or cannot be used (0).	
35	**Encryption Mode**	0 = Off 1 = On	0		
36	**DT900/DT800 Firmware Version**	00.00.00.00~FF.FF.FF.FF	00.00.00.00		
37	**DT900/DT800 Large LED Illumination Setup**	2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Light Blue 8 = White 9 = Rotation	3	Sets LED color for internal Intercom call. In DT900/DT800 local terminal setting menu, illumination setting must be ‘Automatic’, otherwise the terminal will ignore PRG 14-01-35, PRG 15-05-37 and PRG 15-23 settings.	
38	**Paging Protocol Mode** (With V5.00 or higher, the default is “1”)	0 = Multicast 1 = Unicast 2 = Auto	1	Sets the protocol mode for the Paging function.	
39	**CTI Override Mode**	0 = Disable 1 = Enable	0	Sets the override function against the terminal that is controlled by the CTI.	

Item No.	Item	Input Data	Default	Description	Related Program
40	**Calling Name Display Info via Trunk for Standard SIP**	0 = Both name and number 1 = Name only 2 = Number only 3 = None	0	Sets the incoming calling name display type on a standard SIP terminal. Trunk name is the first priority and abbreviated (SPD) name is second priority.	
41	**Time Zone (Hour)**	0~24 (-12~+12)	12	Sets the time difference from the system time set in Program 10-01. Input hour(s) based on this Program.	
42	**Time Zone (Minute)**	0~120 (-60 ~ +60 minute)	60	Sets the time difference from the system time set in Program 10-01. Input minute(s) based on this Program.	
43	**Video Mode**	0 = Disable 1 = Enable	0	This Program is used to select the video function with the standard SIP terminal. If the standard SIP terminal supports the video function, the SV9100 transfers the video CODEC in SDP information.	
44	**Using Standard SIP Display for CPN**	0 = Disable 1 = Enable	0	This Program is used to Enable or Disable the system to send INVITE Fromtag Display attribute which is sent from a standard SIP terminal as CPN to ISDN and if there is no Display attribute from standard SIP terminal, the system will not refer to either PRG 21-12-01 or 21-13-01 and no CPN will be sent.	
45	**NAT Plug & Play**	0 = Disable 1 = Enable	0	Select sending RTP port number to remote router. (0) uses result from negotiation result, (1) from received RTP packet. Effective only when 10-46-14 is to NAT Mode.	10-46-14

Item No.	Item	Input Data	Default	Description	Related Program
46	**Door Phone Number** (Read Only)	0 = Not assigned 1 ~ 8 = Door Phone No.	0	Indicates automatically assigned IP Door Phone Number after system registers the Door Phone port. System assigns the number not to duplicate with the Door Phone connected to 2PGDAD. (Read Only)	10-03 (DLCA) PGD
47	**Registration Expire Timer for NAT**	0 = Disable 60 ~ 65535(sec)	180	On a per station basis, this setting defines the SIP registration expiry timer. If this value is set to 0, for a NAPT terminal, the value in PRG 84-23- 01 is applied. Note: Version 9.00 or higher is required.	10-46-14
48	**Subscribe Expire Timer for NAT**	0 = Disable 60 ~ 65535(sec)	180	On a per station basis, this setting defines the SIP Subscribe expiry timer. If this value is set to 0, for a NAPT terminal, the value in PRG 84-23-02 is applied. Note: Version 9.00 or higher is required.	10-46-14
49	**Receiving SIP INFO**	0 = Disable 1 = Allowed any time 2 = Allowed while RTP is not available	1	Select whether or not system can receive DTMF from standard SIP phone via SIP INFO message. There are two receive types. 1=’Allowed any time' can receive a SIP INFO message from a standard SIP phone as a dial information any time. '2=Allowed while RTP is not available' can receive a SIP INFO message before establishing RTP connection.	
50	**Peer to Peer Mode**	Off = Disable On = Enable	1	On a per station basis enable or disable Peer to Peer mode.	
51	**Transport Protocol**	0 = UDP 1 = TCP 2 = TLS	0	This program shows the transport protocol for selected SIP terminal. Read Only.	
52	**SIP SC Response**	0 = Off 1 = On	0	If enabled, SV9100 send 487 or 486 response for service code call.	

Item No.	Item	Input Data	Default	Description	Related Program
53	**LCD Layout Selection** (Version 10.00 or higher required)	1 = Classic Mode 2 = Portal Mode	2	On DT900 series IP Multiline Terminal, there are two modes for the LCD indication mode. One for current DT series style mode, the other is the new style mode.	
54	**Image File Name**	None	No Setting	This program indicates an image file name for a Standby screen on the IP Multiline Terminal display. Read Only.	
55	**Clock Display** ➨ *Version 10.00 or higher required.*	0 = OFF 1 = ON	0	On ITK-24CG, ITK-8/32LCX and ITK-8/32TCGX DT900 IP Multiline Terminals, Clock indication is selected as ON or OFF in case the TEL is in Portal mode and idle state.	

Conditions

- 15-05-04 – Nickname must be unique in the system.

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-06 : Trunk Access Map for Extensions

Level: IN

Description

Use **Program 15-06 : Trunk Access Map for Extensions** to define the trunk access map for each extension. An extension can place only outgoing calls on trunks to which it has outgoing access. Use Program 14-07 to define the available access maps.

Input Data

Extension Number	001 ~ 960

Day/Night Mode	1~8

Item No.	Trunk Access Map Number	Default	Related Program
01	1~400	1	14-07

Conditions

None

Feature Cross Reference

- Central Office Calls, Answering
- Central Office Calls, Placing

Program 15 : Extension, Basic Setup

15-07 : Programmable Function Keys

Level: SA

Description

Use **Program 15-07 : Programmable Function Keys** to assign functions to a multiline terminal line keys.

For certain functions, you can append data to the key basic function. For example, the function 26 appended by data 1 makes a Group Call Pickup key for Pickup Group 1. You can also program Function Keys using Service Codes.

To clear any previously programmed key, press **000** to erase any displayed code.

Input Data

Extension Number	001 ~ 960

Item No.	Line Key Number	Function Number	Additional Data
01	1~48	0~99 (Normal Function Code) (Service Code 751 by default) * 00 ~ *99 (Appearance Function Code) (Service Code 752 by default)	Refer to Function Number List.

Default

Programmable keys 1~8 are Trunk Line keys (key 1 = Trunk Line 1, key 2 = Trunk Line 2, etc.). All other programmable keys are undefined.

Line Key	Function Number	Additional Data
LK01	∗01 (Trunk Line Key)	1
:	:	:
LK08	∗01 (Trunk Line Key)	8
LK09	0 (No Setting)	0
:	:	:
LK48	0 (No Setting)	0

Function Number List

[1] Normal Function Code (00 ~ 99) (Service Code 751)

Function Number List

[1] Normal Function Code (00 ~ 99) (Service Code 751)

Function Number	Function	Additional Data	LED Indication
00	Not Defined		
01	DSS/One-Touch	Extension number or any numbers (up to 24 digits)	**Red On:** Extension Busy **Off:** Extension Idle **Rapid Blink (Red):** DND or Call Forward
02	Microphone Key (ON/OFF)		**Red On:** Mic Off **Off:** Mic On
03	DND Key		**Red On:** DND
04	BGM (ON/OFF)		**Red On:** BGM On **Off:** BGM Off
05	Headset		**Red On:** Headset in use
06	Transfer Key		None
07	Conference Key		**Red On:** Conference call setup occurring
08	Incoming Caller ID Log		**Rapid Blink (Red):** New Caller ID is available **Red On:** Existing Caller ID **Off:** No Caller ID
09	Day/Night Mode Switch	Mode number (1~8)	**Red On:** Mode active
10	Call Forward – Immediate		**Red On:** Forwarded
11	Call Forward – Busy		**Red On:** Forwarded

Function Number List (Continued)

[1] Normal Function Code (00 ~ 99) (Service Code 751)

Function Number	Function	Additional Data	LED Indication
12	Call Forward – No Answer		**Red On:** Forwarded
13	Call Forward – Busy/No Answer		**Red On:** Forwarded
14	Call Forward – Both Ring		**Red On:** Forwarded
15	Follow Me		**Rapid Blink (Red):** Forwarded
18	Text Message Setup	Message Numbers (01~20)	**Red On:** Feature activated by Function Key
19	External Group Paging	External Paging Number (1~8)	**Red On:** Page Active
20	External All Call Paging		**Red On:** Page Active
21	Internal Group Paging	Internal Paging Number (01~64)	**Red On:** Page Active
22	Internal All Call Paging		None
23	Meet-Me Answer to Internal Paging		None
24	Call Pickup		None
25	Call Pickup for Another Group		None
26	Call Pickup for Specified Group	Call Pickup Group Number	None
27	Speed Dial – Common/ Private	Speed Dial Number (Common / Private)	None
28	Speed Dial – Group	Speed Dial Number (Group)	None
29	Repeat Redial		**Red On:** Waiting to redial
30	Saved Number Redial		None
31	Memo Dial		None
32	Meet – Me Conference		None
33	Override (Off-Hook Signaling)		None
34	Barge – In	No data or Extension No. (not Virtual Extension) or ∗. In case of ∗ refer to the Extension No. (not Virtual Extension) set in 24-09-03.	None
35	Camp On		**Red On:** While camp-on activated
36	Step Call		None

Function Number List (Continued)

[1] Normal Function Code (00 ~ 99) (Service Code 751)

Function Number	Function	Additional Data	LED Indication
37	DND/FWD Override Call		None
38	Message Waiting		None
39	Room Monitoring		**Rapid Blink (Red):** While being monitored **Slow Blink (Red):** While monitoring
40	Handset Transmission Cutoff		**Red On:** Handsfree **Rapid Blink (Red):** Handset
41	Buzzer	Extension Number	**Red On:** Transmission Side **Rapid Blink (Red):** Receiver Side
42	Boss – Secretary Call	Extension Number	**Red On:** Boss – Secretary mode
43	Series Call		None
44	Common Hold		None
45	Exclusive		None
46	Department Group Log Out		**Red On:** Logged Out
47	Reverse Voice Over	Extension Number	**Red On:** extension busy **Off:** extension idle **Rapid Blink (Red):** DND or Call Forward **Green:** Reverse Voice Over to extension in progress
48	Voice Over		Calling Party **Wink Blink (Red):** Listening **Red On:** Responding Called Party **Wink Blink (Red):** Listening **Green On:** Responding
49	Call Redirect	Extension Number or Voice Mail Number	None
50	Account Code		**Red On:** While account code being entered
51	General Purpose Relay	Relay No (0, 1~ 8)	**Red On:** Relay On
52	Automatic Answer with Delay Message Setup	Incoming Ring Group (001~100)	**Red On:** Under setting
53	Automatic Answer with Delay Message Start		**Red On:** Active
54	External Call Forward by Door Box		**Red On:** Active
55	Extension Name Change		None

Function Number List (Continued)

[1] Normal Function Code (00 ~ 99) (Service Code 751)

Function Number	Function	Additional Data	LED Indication
56	General Purpose LED Operation		**Blink (Red):** Active
57	General Purpose LED Indication		**Blink (Red):** Active
58	Automatic Transfer at Department Group Call	Extension Group Number (01~64) (001~128) Version 10.00 or higher	**Blink (Red):** Active **Off:** Not Active
59	Delayed Transfer at Department Group Call	Extension Group Number (01~64) (001~128) Version 10.00 or higher	**Blink (Red):** Active **Off:** Not Active
60	DND at Department Group Call	Extension Group Number (01~64) (001~128) Version 10.00 or higher	**Blink (Red):** Active **Off:** Not Active
61	--- Not Used ---		
62	Flash (Recall) Key		None
63	Outgoing Call Without Caller ID (ISDN)		**Red On:** Active
64	--- Not Used ---		
66	--- Not Used ---		
67	--- Not Used ---		
68	--- Not Used ---		
70	--- Not Used ---		
71	--- Not Used ---		
72	Keypad Facility Key		None
73	Keypad HOLD Key		None
74	Keypad RETRIEVE Key		None
75	Keypad Conference Key		None
76	Application Key (3rd Party CTI)	Any dial data (8 digits)	None

Function Number List (Continued)

[1] Normal Function Code (00 ~ 99) (Service Code 751)

Function Number	Function	Additional Data	LED Indication
77	Voice Mail	Extension Number or Pilot Number	<InMail> **Fast Flash (Green):** New Message(s) in own Mailbox. **Slow Flash (Red):** New Message(s) in other Mailbox. <APSU(VM00)/External VM> **Red On:** Access to Voice Mail **Fast Flash (Green):** New Message(s) in own Mailbox. **Slow Flash (Red):** New Message(s) in other Mailbox.
78	Conversation Recording – Voice Mail		**Rapid Blink (Red):** Recording
79	Automated Attendant (In-Skin)	Extension Number or Pilot Number	**Red On:** Set Up for All Calls **Fast Blink (Red):** Set Up for No Answer Calls **Stutter Blink (Red):** Set Up for Busy Calls **Slow Blink (Red):** Set Up for Busy/No Answer Calls
80	Tandem Ringing	1 = Set 0 = Cancel Extension Number to Tandem Ring	**Red On:** Active
81	Automatic Transfer to Transfer Key	Trunk Line No. (001~400)	**Slow Flash:** Set All LED color is Red
82	--- Not Used ---		
83	Conversation Recording Function (VMSU)	0 = Pause 1 = Re-recording 2 = Address 3 = Erase 4 = Urgent Page	
84	Drop Key	None	
85	--- Not Used ---		
86	Private Call Refuse	None	**Slow Flash:** Set All LED color is Red Off: Cancel
87	Caller ID Refuse	None	**Slow Flash:** Set All LED color is Red

Function Number List (Continued)

[1] Normal Function Code (00 ~ 99) (Service Code 751)

Function Number	Function	Additional Data	LED Indication
88	Dial-In Mode Switching	PRG 22-17 Table No. (1~100)	Off: Pattern 1, Pattern 5~8 On: Pattern 2 Slow flash: Pattern 3 Fast flash: Pattern 4 All LED color is Red
89	--- Not Used ---		
90	--- Not Used ---		
91	Live Recording Key SV8100 InMail		
94	Call Attendant		Fast flash: Setup – No Answer Calls Slow flash: 125ms:on → 125ms:off → 125ms:on → 625ms:off On: Setup – Busy/No Answer Calls
97	Door Box Access Key	Door Box Number (1~8)	On: Door Box Busy Off: Door Box Idle Fast flash: Door Box Incoming
98~99	--- Not Used ---		
#04	Change Restriction Class	One-time Toll Restriction	
#06	Power Saving for Power Save Group	Power Save Group Number 00~32 (00 = All Groups)	On (Red): Set Off: Cancel
#07	Fixed Operation Mode	Night Mode Service Group No. (01~32)	Fast flash (Red) : – Setup
#08	Bluetooth Connect		
#09	Bluetooth Path		
#10	Conference Record		LED: On Recording
#11	Major Alarm		On (Red): A major alarm has occurred.
#12	Minor Alarm		On (Red): A minor alarm has occurred.
#13	Calling Party Number Notification	Any number up to 24 digits.	On (Red): Set Off: Cancel
#14	Multi-Device Support		On (Red): Set Off: Cancel
#15	Security Appliance Alarm	None	LED: On (Red): Alarm Off: No Alarm
#16	Security Appliance Firmware	None	LED: On (Red): Update Firmware exist Off: Update Firmware
#17	Security Appliance License	None	On (Red): License end is coming Off: License Enable **Slow Flash (Red):** License Disable

Function Number List

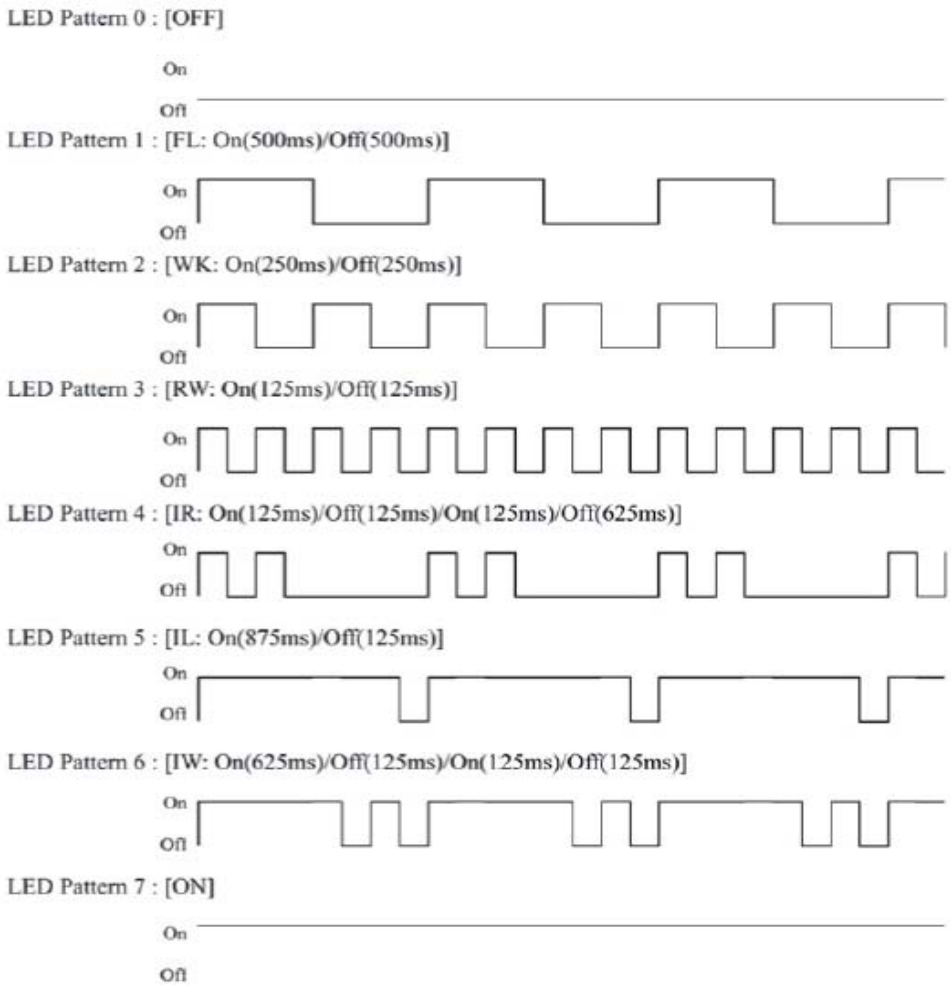
[2] Appearance Function Level (*00 ~*99) (Service Code 752)

Function Number	Function	Additional Data	LED Indication
∗00	ICM Key	None	Red On: Off Hook on Intercom Call Red Blink: Intercom Call on Hold
∗01	Trunk Key	Trunk Number (001~400)	Red On: Trunk Busy by Another User Green On: Trunk Busy by Extension
∗02	Trunk Group	Trunk Group Number (001~100)	Red On: Trunk Busy by Another User Green On: Trunk Busy by Extension
∗03	Virtual Extension Key	Extension Number or Department Group Number	Red On: Trunk busy by another user Slow Blink (Red): Incoming Call
∗04	Park Key	Park Number (01~64)	Slow Blink (Red): Call Placed in Park by Another User Fast Blink (Green): Extension Placed Call in Park
∗05	LoopKey	0~2 (0:Incoming, 1:Outgoing, 2:Both)	Green On: Extension on an active call.
∗06	Trunk Access Via Networking	Network System Number (01~50)	
∗07	Station Park Hold None		
∗08	CAP Key	CAP Orbit No. (0001~9999) If CAP Orbit No.0000 is used, the next available orbit is automatically selected.	
∗10	ACD Log-In/Log-Out		Red On: Under log-on Off: Under log-off
∗12	ACD Emergency Call		Red On: Under monitor, Override, Standby Fast Blink (Red): Supervisor Telephone Receiving Emergency Call
∗13	ACD Off Duty Mode		Red On: Under Off Duty Slow Blink (Red): Under Reservation
∗14	ACD Start/End		Red On: Operation End

Function Number List (Continued)

[2] Appearance Function Level (*00 ~*99) (Service Code 752)

Function Number	Function	Additional Data	LED Indication
∗15	ACD Terminal Speech Monitor		Red On: Under Monitor
∗16	ACD Waiting		Red On: Standby
∗17	ACD Work Wrap Up Time		Red On: Under Work Time Slow Blink (Red): Under Reservation
∗18	ACD Overflow Control	Group Number	Red On: Enable Slow Blink (Red): Disable
∗19	ACD Queue Status Display Check		
∗32	Warning Message		On(Red): Play Warning Message Off: Stop Warning Message
∗33	Sensor Mode	Related PRG20-50-01	On(Red): Security Sensor On Off: Security Sensor Off
∗34	ACD Caller ID Marking Setup		
∗35	System Call History		On (Red) : other using On (Red) : using Off (Green) : not using
∗36	ACD Whispering		On (Red) : When using Contact Center Whispering
∗37	ACD Queue Alarm Display	ACD Group No. (01 ~ 64)	On (Red) : While displaying queue status Fast Flash (Red) : Queue has more calls than PRG 41-02-06



LED Indication Reference:

ON = LED pattern 7 (On).
OFF = LED pattern 0 (Off).
Rapid Blink = LED pattern 3 (RW).
Slow Blink (General Function Level) = LED pattern 5 (IL).
Slow Blink (Appearance Function Level) = LED pattern 1 (FL).
Fast Blink = LED pattern 3 (RW).
Stutter Blink = LED pattern 4 (IR).

Conditions

- When a key is programmed using service code 752, it cannot be programmed with a function using the 751 code until the key is undefined (000). For example with a Park Key programmed by dialing 752 + ∗04 must be undefined by dialing 752 + 000 before it can be programmed as a Voice Over key by dialing 751 + 48.

- When assigning a CAP key, ∗08, an orbit number must be used. If orbit 000 is used, it automatically assigns the next available orbit.

Feature Cross Reference

➥ **Programmable Function Keys (Function Number List)**

Program 15 : Extension, Basic Setup

15-08 : Incoming Virtual Extension Ring Tone Setup

Level: IN

Description

Use **Program 15-08 : Incoming Virtual Extension Ring Tone Setup** to assign a ring tone range (0~4) to incoming virtual extensions assigned to a Virtual Extension key (Program 15-07). If you enable ringing for the key in Program 15-09, the key rings with the tone you set in this program. Also see Program 22-03. The chart below shows the available tones. There are 512 available extension ports.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default	Description
01	**Incoming Ring Pattern**	0 = Tone Pattern 1 1 = Tone Pattern 2 2 = Tone Pattern 3 3 = Tone Pattern 4 4 = Incoming Ring Tone Extension 5 = Tone Pattern 5 6 = Tone Pattern 6 7 = Tone Pattern 7 8 = Tone Pattern 8	0 = Tone Pattern 1	When an extension or a virtual extension is assigned to the function key on the key telephone, select the ring tone when receiving a call on that key. For CAR keys, only tone pattern 1 (entry 0) can be used. The remaining patterns are not checked with this feature.
02	**Incoming Ring Pattern (Downloaded Music Ring)**	0 = Follow PRG 15-08-01 1 = Music Ring 1 2 = Music Ring 2 3 = Music Ring 3	0	This program is referred only when PRG15-02-78 is set to “enable”. When an extension or a virtual extension is assigned to the function key on the telephone, select the ring tone when receiving a call on that key. * When PRG15-02-78 is set to “disable”, refer to PRG15-08-01 instead of this program. * It is necessary to set PRG 15-10.

Table 2-7 Program 15-08 – Incoming Signal Frequency Patterns

Incoming Signal Frequency Pattern	Type	Frequency 1	Frequency 2	Modulation
Tone Pattern 1	High Middle Low	1100 660 520	1400 760 660	16Hz 16Hz 16Hz
Tone Pattern 2	High Middle Low	1100 660 520	1400 760 660	8Hz 8Hz 8Hz
Tone Pattern 3	High Middle Low	2000 1400 1100	760 660 540	16Hz 16Hz 16Hz
Tone Pattern 4	High Middle Low	2000 1400 1100	760 660 540	8Hz 8Hz 8Hz
Incoming Ring Tone Extension	High Middle Low	1100 660 520	1400 760 660	8Hz 8Hz 8Hz
Tone Pattern 5	High Middle Low	1400 760 660	540 540 540	16Hz 16Hz 16Hz
Tone Pattern 6	High Middle Low	1400 760 660	540 540 540	8Hz 8Hz 8Hz
Tone Pattern 7	High Middle Low	2000 2000 1100	1100 540 760	16Hz 16Hz 16Hz
Tone Pattern 8	High Middle Low	2000 2000 1100	1100 540 760	8Hz 8Hz 8Hz

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-09 : Virtual Extension Ring Assignment

Level: SA

Description

Use **Program 15-09 : Virtual Extension Ring Assignment** to assign the ringing options for an extension Virtual Extension Key or Virtual Extension Group Answer Key which is defined in Program 15-07. You make an assignment for each Night Service Mode.

Assign extension numbers and names to virtual extension ports in Program 15-01. Program Virtual Extension keys in Program 15-07 (code ∗03). There are 512 Virtual Extension Ports.

Input Data

Extension Number	Up to eight digits

Key Number	01~48

Item No.	Day/Night Mode	Ringing	Default
01	1~8	0 = No Ringing 1 = Ring	0

Conditions

- Program the Multiple Directory Number function keys **NOT** to ring before removing the key from telephone programming.

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-10 : Incoming Virtual Extension Ring Tone Order Setup

Level: SA

Description

Use **Program 15-10 : Incoming Virtual Extension Ring Tone Order Setup** to set the priority (1~4) for the Virtual Extension Ring Tones set in Program 15-08. When Virtual Extension calls ring an extension simultaneously, the tone with the highest order number (e.g., 1) rings. The other keys only flash. There are 512 Virtual Extension ports.

Input Data

Extension Number	Up to eight digits

Item No.	Priority Order	Data	Description	Related Program
01	1~4	0 = Tone Pattern 1 1 = Tone Pattern 2 2 = Tone Pattern 3 3 = Tone Pattern 4 4 = Incoming Extension Ring Tone 5 = Tone Pattern 5 6 = Tone Pattern 6 7 = Tone Pattern 7 8 = Tone Pattern 8 9 = Music Ring 1 10 = Music Ring 2 11 = Music Ring 3	When two or more virtual extensions are set on a function key on the telephone, and the tone pattern by which the sound of each extension differs, the priority of ring sound is set up.	15-08 15-02-78

Default

- By default, Virtual Extension ring tones have the following order:

Priority Order	Ring Tone (Set in Program 15-08)
1	0 (Tone Pattern 1)
2	1 (Tone Pattern 2)

Priority Order	Ring Tone (Set in Program 15-08)
3	2 (Tone Pattern 3)
4	3 (Tone Pattern 4)

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-11 : Virtual Extension Delayed Ring Assignment

Level: SA

Description

Use **Program 15-11 : Virtual Extension Delayed Ring Assignment** to assign the delayed ringing options for an extension Virtual Extension or Virtual Extension Group Answer keys (defined in Program 15-09). You make an assignment for each Night Service Mode. There are 512 Virtual Extension Ports.

Assign extension numbers (Program 11-04) and names (Program 15-01) to virtual extension ports. Program Multiple Directory Number (virtual extension) keys in Program 15-07 (code ∗03).

Input Data

Extension Number	001 ~ 960

Key Number	01~48

Item No.	Day/Night Mode	Ringing	Default	Related Program
01	1~8	0 = Immediate Ring 1 = Delayed Ring	0	20-04-03 15-09-01

Conditions

- Program the Virtual Extension keys **NOT** to ring before removing the key from telephone programming.
- PRG 15-09-01 has to be assigned to Ring Immediately before assigning the CAR/VE key to Delay Ring.

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-12 : Conversation Recording Destination for Extensions

Level:
IN

Description

Use **Program 15-12 : Conversation Recording Destination for Extensions** to set the ACI Conversation Recording destination for each extension.

NOTE

If both Programs 14-09 and 15-12 define a destination, the destination in Program 15-12 is followed.

Input Data

Extension Number	001 ~ 960

Item Number	Item	Input Data	Default
01	**ACI Recording Destination Extension Number** Enter the ACI extension number to which the trunk calls should be recorded.	Maximum eight digits	No Setting
02	**ACI Automatic Recording for Incoming Calls** Determine if an extension incoming calls should be automatically recorded to the ACI.	0 = Off 1 = On	0

Conditions
None

Feature Cross Reference

➥ **Analog Communications Interface (ACI)**

Program 15 : Extension, Basic Setup

15-13 : Loop Key Data

Level: IN

Description

Use **Program 15-13 : Loop Key Data** to set the Loop Key Data for each terminal. Loop Keys can be Incoming, Outgoing, or both ways. Outgoing Loop Keys use the entry in Item 01. Incoming Loop Keys use the entry in Item 02. Both Way Loop Keys follow the entries in both Items 01 and 02.

Input Data

Extension Number	001 ~ 960

Key Number	01~48

Item Number	Item	Input Data	Default
01	Outgoing Option	0~8 or 0~100 (0 = Assigns the Loop Key for ARS, 1~100 = Assigns the Loop Key to the trunk group specified.)	Programmable Function Key Number 01~32: Outgoing Option - 0 (Assigns the Loop Key for ARS) Incoming Option - 0 (Assigns the Loop Key to all trunk groups)
02	Incoming Option	0~8 or 0~100 (0 = Assigns the Loop Key to all trunk groups, 1~100 = Assigns the Loop Key to the trunk group specified.)	

Conditions

None

Feature Cross Reference

➥ **Loop Key**

Program 15 : Extension, Basic Setup

15-14 : Programmable One-Touch Keys

Level: IN

Description

Use **Program 15-14 : Programmable One-Touch Keys** to define the One-Touch key data for each multiline terminal.

For each UNIVERGE SV9100 Wireless telephone to use the Transfer When Out of Range feature, enter the destination number (up to 24 digits) and name (up to 12 characters) into One-Touch bin 10. Make sure to add any required trunk access codes for outside numbers. If this bin information is changed either through 15-14-01 or through user programming, the destination for the transferred calls is also changed.

Input Data

Extension Number	001 ~ 960

Key Number	01~10

Item No.	Dial Data	Name	Default
01	1~0, ∗, #, Pause, Hookflash, @ (Code for Answer-Wait) Up to 24 digits	Up to 24 Digits	No Setting
02	Name	Up to 12 Digits	No Setting

Default

No entries for any extension.

Conditions

None

Feature Cross Reference

➥ **One-Touch Keys**

Program 15 : Extension, Basic Setup

15-16 : SIP Register ID Setup for Extension

Level: IN

Description

Use **Program 15-16 : SIP Register Setup for Extension** to define the SIP Register ID for Extensions.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default	Profile 1~6
01	**Register ID**	None, 0~31	None	

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-17 : CO Message Waiting Indication

Level: IN

Description

Use **Program 15-17 : CO Message Waiting Indication** to set the message waiting LED Flash assignment on each CO line.

Input Data

Extension Number including Virtual Extensions	001 ~ 960

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**LED Flash Assignment**	0 = LED Off 1 = LED On	0

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-18 : Virtual Extension Key Enhanced Options

Level: IN

Description

Use **Program 15-18 : Virtual Extension Key Enhanced Options** to define the operation when a Virtual Extension Key is pressed.

Input Data

Extension Number including Virtual Extensions	001 ~ 960

Item No.	Item	Input Data	Default	Related Program
01	**Virtual Extension Key Operation Mode** Define if calls to a Virtual Extension Key land on the Virtual or on the extension/ CAP/CO appearance. ➨ *This is assigned for the Virtual Extension Key, not the extension it resides on.*	0 = Release 1 = Land on the key	0	20-04-01
02	**Display mode when placing a call on Virtual Extension Key** Defines if calls to or from a Virtual Extension Key display the Virtual Extension Key name or the name of the extension it resides on.	0 = Secondary Extension Name 1 = Actual Station Name	0	
03	**Show CLI** When set to a **0**, the caller ID of a trunk call/station call pointed to a virtual extension **will not** be displayed if the virtual extension is not set to ring. When set to a **1**, the caller ID of a trunk call pointed to a virtual extension **WILL** be displayed if the virtual extension is not set to ring. Station calls to a virtual that is not assigned to ring will display the station name or number if PRG 15-18-04 is set to a 1.	0 = No CLI info 1 = Show CLI info	0	15-09-01
04	**Show Internal Caller Information** When set to a **0**, internal calls to the virtual extension **will not** show the name or number of the extension that is calling. When set to **1**, internal calls to the virtual extension **WILL** show the name or number of the extension that is calling if the virtual is assigned to ring or if PRG 15-18-03 is set to a 1.	0 = Do not show 1 = Show	0	15-09-01 15-18-03

Item No.	Item	Input Data	Defaul t	Related Program
05	**One Ring** When set to a **0**, the virtual extension follows the normal ring cycle. When set to a **1**, the virtual extension will only ring one time (the virtual extension must be first set to ring in PRG 15-08).	0 = Normal Ring Cycle 1 = One Ring	0	15-09-01

Conditions

If a trunk call rings a Virtual Extension, the Virtual Extension Key Operation Mode must be set to **1** (Land on the key), or the multiline terminal must have a CAP Key or CO Line Appearance.

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-19 : System Telephone Book Setup for Extension

Level: IN

Description

Use **Program 15-19 : System Telephone Book Setup for Extension** to set the operations of the Telephone Book for each extension.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default	Related Program
01	**Telephone Book 1**	0~200	Port 1 : 1 Port 2 : 2 : : Port 200 : 200	
02	**Telephone Book 2**	0~200	0	
06	**Locking of Telephone Book**	0 = On 1 = Off	0	
07	**Password**	0000~9999 (Fixed four digits)	0000	

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-20 : LCD Line Key Name Assignment

Level: IN

Description

Use **Program 15-20 : LCD Line Key Name Assignment** to assigns a name to each LCD Line Key of the SV9100 telephones and ADM option. Up to 13 characters can be assigned.

Input Data

Extension Number	001 ~ 960

Key Number	01~48

Name Assignment	Up to 13 characters

Default Settings

Line Key	Name
LK01	CO 001
:	:
LK06	:
LK07	:
LK08	CO 008
LK09	All Blank
:	:
LK48	All Blank

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-22 : Mobile Extension Setup

Level: IN

Description

Use **Program 15-22 : Mobile Extension Setup** to set the system information for the Mobile Extension feature.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default
01	**Mobile Extension Target Setup** Set which Speed Dial bin is used to call when the Mobile extension is called.	0~9999 (0 = No setting/1~9999 = target of mobile extension)	0
02	**Connect Confirmation** Select when a confirmation (dial ✱) is required to allow the call to cut over to the called mobile number.	0 = Always 1 = On Analog Line 2 = Never	0
03	**Trunk Access Code** Select if the Normal or Individual Trunk access is used when making the call to the mobile number.	0 = Use normal trunk access code (11-09-01) 1 = Use individual trunk access code (11-09-02)	0
04	**Call Back** Set up the Call Back for each Mobile extension number.	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-23 : Incoming Virtual Extension Large LED Setup

Level: IN

Description

Use **Program 15-23 : Incoming Virtual Extension Large LED Setup** to set the color of the large LED, when the Virtual Extension rings.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default
01	**DT400/DT500/DT800/DT900 Large LED Illumination Setup**	2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Light Blue 8 = White 9 = Rotation	5

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-24 : Registration of Standard SIP Terminal

Level: IN

Description

Use **Program 15-24 : Registration of Standard SIP Terminal** to register data in the standard SIP terminal where Register is not used.

Input Data

Extension Number	001 ~ 960

Input Data

Item No.	Item	Input Data	Default
01	**Using IP Address** IP Address of the standard SIP terminal that is used as the SIP extension. When Program 15-24-03 is set to 1, this Program cannot be changed from 0.0.0.0 (except using PCProgramming).	0.0.0.0~255.255.255.255	0.0.0.0
02	**Call Procedure Port** Call procedure port of the standard SIP terminal that is used as SIP extension.	0~65535	5060
03	**Registration Setting when REGISTER isn't used** Enables or disables the Registration method. An error will occur if Program 15-24-01 is 0.0.0.0 and this Program is set to 1 (except using PCProgramming).	0 = Disable 1 = Enable	0
04	**Transport Protocol** This program sets the transport protocol for selected SIP terminal without registration method.	0 = UDP 1 = TCP	0

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-25 : DESI-less Page Setup

Level: IN

Description

Use **Program 15-25 : DESI-less Page Setup** to define the page of each self-labeling extension.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default
01	**Incoming Call Notify Event** Enable or disables the screen number icon on display.	0 = Disable 1 = Enable	1
02	**Automatic Screen Change on Incoming Call** Automatically changes display to show Incoming Call number.	0 = Disable 1 = Enable	1
03	**Automatic Display Setting While Idle** This setting set which screen displays during the idle state.	0 = Disable 1~4 = Self-Labeling Page	0
04	**Automatic Display Setting While Speaking** This setting set which screen displays while speaking.	0 = Disable 1~4 = Self-Labeling Page	0

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-27 : Power Saving Setup

Level: IN

Description

Use **Program 15-27 : Power Saving Setup** to set the power saving mode for extensions.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default
01	**Power Saving Group Number**	0 = Power Save Off 1 ~32 = Power Save Group	0
02	**Power Save during Power Failure**	0 = Disable (Power supply) 1 = Enable (Power cut off)	0

Conditions

None

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-29 : Setting of Function Key for BTH Handset

Level: IN

Description

Use **Program 15-29 : Setting of Function Key for BTH Handset** to make the relationship of function keys between the BTH and the Desk Terminal.

Input Data

Function Key number of BTH	1 ~ 8

Item No.	Item	Input Data	Default
01	**Key of BTH**	1 ~48 (Key on Desk Terminal Key)	BTH Key 1 = Desk Terminal Key 01 ~ BTH Key 8 = Desk Terminal Key 08)

Conditions

- Multiple BTH Keys cannot be assigned with the same Desk Terminal key in PRG 15-29-01. Each BTH key must be assigned a unique Desk Terminal Key.
- The following function keys are supported:
  - *00 ICM Key
  - 23 Meet-me Answer to Internal Paging
  - 29 Repeat Redial
  - 41 Buzzer
  - 42 Boss - Secretary Call

Feature Cross Reference

None

Program 15 : Extension, Basic Setup

15-30 : IP Phone License Assignment Setup

Level: IN

Description

Use **Program 15-30 : IP License Assignment Setup** to assign a licenses allocation for each DT900 IP phone. If set as 0 (No), each license will not apply to the telephone.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default
53	**DT900 Giga License Assign** For the following telephones: ❍ ITK-6D ❍ ITK-12D ❍ ITK-8LCX	0 - No (No need to allocate) 1 - Yes (Need to allocate)	0
54	**DT900 Line Key 16 License Assign** For the following telephones: ❍ ITK-8LCX ❍ ITK-8TCGX	0 - No (No need to allocate) 1 - Yes (Need to allocate)	0
55	**DT900 Line Key 32 License Assign** For the following telephones: ❍ ITK-8LCX ❍ ITK-8TCGX	0 - No (No need to allocate) 1 - Yes (Need to allocate)	0

Feature Cross Reference

None

Program 16 : Department Group Setup

16-01 : Department Group Basic Data Setup

Level: IN

Description

Use **Program 16-01 : Department Group Basic Data Setup** to set the function mode for each department group. There are 64 available Delayed Ringing Department Groups.

Input Data

Department Group Number	1~64 001~128 (Version 10.00 or higher)

Item No.	Item	Input Data	Default	Related Program
01	**Department Name**	Maximum 12 characters	No setting	11-07
02	**Department Calling Cycle** Set the call routing for Department Calling. Routing can be either circular (cycles to all phones in group) or priority (cycles to highest priority extensions first).	0 = Normal Routing (Priority) 1 = Easy – UCD Routing (Circular)	0	16-02
03	**Department Routing when Busy (Auto Step Call)** Set how the system routes an Intercom call to a busy Department Group member. Intercom callers to the extension can either hear busy or route to the first available department number. This only occurs for calls to the extension directly, not the department number assigned in Program 11-07.	0 = Normal (Intercom caller to busy department member hears busy) 1 = Circular (Intercom callers to busy department member routes to idle member)	0	16-02
04	**Hunting Mode** Set the action taken when a call reaches the last extension in the Department Group (0 = hunting stopped, 1 = hunting repeats with circular routing through the Department Group).	0 = Last extension is called and hunting is stopped 1 = Circular	0	

Item No.	Item	Input Data	Default	Related Program
05	**Extension Group All Ring Mode Operation** Determine whether calls ringing a Department Group should ring all extensions in the group simultaneously automatically or manually when using the service code defined in Program 11-12-09. ➨ *When set to (1) Automatic, only ICM Calls and DID Calls will ring all the stations in the Department Group.*	0 = Manual 1 = Automatic	0	11-16-10
06	**STG Withdraw Mode**	0 = Disable (Camp On) 1 = Enable (Overflow Mode)	0	
07	**Call Recall Restriction for STG** Determine whether or not an unanswered call transferred to a Department Group should recall the extension from which it was transferred.	0 = Disable (Recall) 1 = Enable (No Recall)	0	
08	**Maximum Queuing Calls** Specifies a maximum number of calls in the queue.	0 ~ 32 0 = No Queuing	0	
09	**Department Hunting No Answer Time** Set the time a call rings a Department group extension before hunting occurs.	0~64800 seconds	15	
10	**Enhanced Hunt Type** Set the type of hunting for each Extension (Department) Group.	0 = No queuing 1 = Hunting When Busy 2 = Hunting When Not Answered 3 = Hunting When Busy or No Answer	0	

Conditions

None

Feature Cross Reference

➥ **Department Calling**

Program 16 : Department Group Setup

16-02 : Department Group Assignment for Extensions

Level: IN

Description

Use **Program 16-02 : Department Group Assignment for Extensions** to set the Department Groups. The system uses these groups (64 or 128 (Version 10.00 or higher) Department Groups) for Department Calling. Assign pilot numbers to Department Groups you set up in Program 11-07. This lets system users place calls to the departments. Use Program 16-01 to set the priority of each extension in each Department Group. When a call comes to the group, the extensions ring in order of their priority.

Input Data

Extension Number	1 ~ 960

Item No.	Group Number	Priority	Default	Description	Related Program
01	1~64 001~128 (Version 10.00 or higher)	1~9999	1 – xxx (See Note)	Set up the Department Group called by the pilot number and the extension priority when a group is called. Call Pickup Groups are set up in 23-02.	11-07 16-01

➨ *The initial value of a priority becomes the ports numerical order assigned in Program 11-02 and 11-04. (Extension ports are 1~ 896. Virtual extension ports are 1~512.)*

➨ *In case of Extension port number 897 ~ 960, Group number is 128 and Priority is:*
Port No. 897 = Priority 1
⋮
Port No. 960 = Priority 64

Conditions

None

Feature Cross Reference

➥ **Department Calling**

Program 16 : Department Group Setup

16-03 : Secondary Department Group

Level: IN

Description

Use **Program 16-03 : Secondary Department Group** to set a second Department Group for extensions. Up to 16 extensions can be assigned per Department Group. There are 64 or 128 (Version 10.00 or higher) available Department Groups.

Input Data

Department (Extension) Group Number	01~64 001~128 (Version 10.00 or higher)

Item No.	Secondary Extension Number	Extension Number	Priority Order	Description
01	1~16	Maximum 8 digits	0~9999	This program is set up when placing telephones in two or more groups.

Default

All extension groups : No setting

Conditions

None

Feature Cross Reference

➥ **Department Calling**

Program 16 : Department Group Setup

16-04 : Call Restriction Between Department Groups

Level: IN

Description

Use **Program 16-04 : Call Restriction Between Department Groups** to set internal calls between members of different Department (Station) groups that can be restricted per group. Each department group can restrict calls to up to eight department groups in Department Group - Departmental Call Restriction.

Input Data

Extension (Department) Group Number	1~64 1~128 (Version 10.00 or higher)

Restricted Group Index	1~8

Restrict Department Group Number	Description	Default
0~64 0~128 (Version 10.00 or higher)	Calls between members of different Department (Station) groups can be restricted per group.	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-01 : System Options

Level: IN

Description

Use **Program 20-01 : System Options** to set various system options.

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	**Operator Access Mode**	0 = Step Call 1 = Circular	0	Set up priority of a call when calling an operator telephone.	20-17
02	**Text Message Mode**	0 = Call mode 1 = No Answer/Busy mode	1	Select the mode when calling the telephone which set up the text message.	11-11-14 15-07-08
04	**Network BLF Indication**	0~64800 seconds	0	Used to determine how often the SV9100 updates the DSS key BLF indications. For NetLink, the entry should be 30 in all SV9100 systems.	
05	**DTMF Receive Active Time**	0~64800 seconds	10	For OPXs, analog telephones and certain analog trunks (like DISA), the system attaches a DTMF receiver to the port for this time. The system releases the receiver after the time expires.	25-07-01
06	**Alarm Duration**	0~64800 seconds	30	This time sets the duration of the alarm signal.	11-12-05
07	**Callback Ring Duration Time**	0~64800 seconds	15	Callback rings an extension for this time.	11-12-05 15-07-35
08	**Trunk Queuing Callback Time**	0~64800 seconds	15	Trunk Queuing callback rings an extension for this time.	11-12-05 15-07-35
09	**Callback/Trunk Queuing Cancel Time**	0~64800 seconds	64800	The system cancels an extension Callback or Trunk Queuing request after this time.	11-12-05 15-07-35
10	**Trunk Guard Timer**	0~64800 seconds	1	The time the system waits to seize the next outside line after the system releases an outside line.	
12	**Telephone/Web Pro Logout Time**	1~84600 seconds (84600 sec = 1 day)	900	The system automatically logs out of a Telephone/Web Pro session after inactivity lasting this time.	

Input Data (Continued)

Item No.	Item	Input Data	Default	Description	Related Program
14	**Special Character Input Mode**	0 = Latin 1 = Cyrillic 2 = Simplified Chinese 3 = Traditional Chinese	0	Each input is specified in the following national standard: 0 (Latin): ISO-8859-1 1 (Cyrillic): ISO-8859-S 2 (Simplified Chinese): GB2312 3 (Traditional Chinese): Big5	
16	**Mobile Extension Callback Duration Time**	1~64800(sec)	15	Set up the system callback duration time when ringing the target Mobile Extension.	15-22-04
19	**Emergency Call Setting of Remote Inspection feature when the Target is in Off Hook Status**	0 = Off 1 = On	0	Setting to On (1) allows an emergency call to be made when the inspection target is in off-hook status.	
20	**Progress Tone for Mobile Extension Setting**	0 = Disable 1 = Enable	1	Setting on where the Progress Tone (1) or Ringback (0) is played to the Internal Caller until the call to the Mobile Extension is setup.	80-01 (Type 54)
21	**Recording Operation on Hold**	0 = Continue 1 = Exit	0		
23	**History Expand**	0 = Disable 1 = Enable ✎ *Version 9.00 or lower CPU software only.*	1	This program is enable to expand the redial number history from 10 to 50 histories. When restarting the system, the number of call histories are erased except for newest 10 histories because the call history is not saved in SRAM.	

Conditions

None

Feature Cross Reference

➥ **Refer to the Input Data table at the beginning of this section.**

Program 20 : System Option Setup

20-02 : System Options for Multiline Telephones

Level: IN

Description

Use **Program 20-02 : System Options for Multiline Telephones** to set various system options for multiline telephones.

Input Data

Item No.	Item	Input Data	Default	Related Programming
01	**Trunk Group Key Operation Mode**	0 = Display 1 = No Display Mode: 0 = Display, 1 = No Display Incoming: 300 IPM Red blink Talking: Green Lighting (on Talking TEL) / LED Off Holding: 60 IPM Green blink (on holding TEL) / LED Off	1	
02	**Trunk Group Access Key Operating Mode** Set the operating mode of the extension trunk group keys. The keys are for incoming access, outgoing access, or both.	0 = Outgoing/Incoming 1 = Outgoing 2 = Incoming	0	
04	**Retrieve the Line After Transfer** Enable (1)/Disable (0) an extension ability to answer a call after it has been transferred, but before it is answered.	0 = Not Holding (No Keep) 1 = Holding (Keep)	1	20-09-07
05	**Headset Busy Mode** Set the conditions under which a headset extension is busy to incoming callers.	0 = No (Disable) 1 = Yes (Enable)	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Programming
06	**Preselection Time** When a multiline terminal user preselects a line key, the system remembers the preselection for this time.	0~64800 (sec)	5	
07	**Time and Date Display Mode** Set how the Time and Date appear on display telephones. There are eight display modes.	1~8 Type 1 = (12 hour) 10 MAR TUE 3:15PM Type 2 = (12 hour) 3:15PM MAR 10 TUE Type 3 = (12 hour) 3-10 TUE 3:15 PM Type 4 = (12 hour) 3:15PM TUE 10 MAR Type 5 = (24 hour) 10 MAR TUE 15:15 Type 6 = (24 hour) 15:15 MAR 10 TUE Type 7 = (24 hour) 3-10 TUE 15:15 Type 8 = (24 hour) 15:15 TUE 10 MAR	3	
08	**LCD Display Holding Time**	0~64800 (sec)	5	
09	**Disconnect Supervision** Enable/Disable disconnect supervision for the system trunks.	0 = Disable (Off) 1 = Enable (On)	1	
10	**Time Before Shifting to Power-Saving Mode**	0 = No shift 1 = 1 minute 2 = 2 minutes 3 = 4 minutes 4 = 8 minutes 5 = 16 minutes 6 = 32 minutes 7 = 64 minutes	0	15-02-18
11	**Handsfree Microphone Control** Control the setting for Multiline Terminal Handsfree microphone after being disconnected and reconnected. If set to 0, the microphone is always off when the terminal is reconnected. If set to 1, the microphone remains in the same state it was in when the terminal is reconnected.	0 = Off 1 = On	1	
12	**Forced Intercom Ring (ICM Call Type)** Enable/Disable Forced Intercom Ringing. If enabled, incoming Intercom calls normally ring. If disabled, Intercom calls voice-announce.	0 = Disable (Voice) 1 = Enable (Signal)	0	
13	**--- Not Used ---**			
14	**--- Not Used ---**			

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Programming
15	**Caller ID Display Mode**	0 = Name and Number (Both) 1 = Name 2 = Number	0	
18	**Dialing Record Display Time**	0~64800 seconds	30	
19	**Virtual Extension Mode** Set the mode of a virtual extension key that appears on a DSS console.	0 = No 1 = Yes	0	
23	**Phone Operation Mode** Selects the Loop Key operation like the UX5000 terminal, or the CAP Key operation like the SV9100 terminal.	0 = Original Operation Mode (CAP Key) 1 = UX5000 Special Operation Mode (Loop Key)	0	
26	**F-Route Outgoing Mode From Incoming Call History** Enable or Disable the ability to route Calls in the Call History via F-Route if the leading digit(s) are set to F-Route. If set to 0 (Off), all Calls are routed via Normal Trunk Routing. If Set to 1 (On), if the leading digit(s) are set to F-Route in PRG 11-01 or 11-20 the call will follow that F-Route Programming.	0 = Off 1 = On	0	11-01 11-20
27	**Monitor for Business Mode** Select whether or not Call Monitor provided works in normal business mode.	0 = Off 1 = On	0	
28	**Storage of Caller ID for VE Others Answer**	0 = Off 1 = On	0	15-07 15-09 15-11 15-18-03

Conditions

None

Feature Cross Reference

- None

Program 20 : System Option Setup

20-03 : System Options for Single Line Telephones

Level: IN

Description

Use **Program 20-03 : System Options for Single Line Telephones** to set up various options for single line telephones.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**SLT Call Waiting Answer Mode** For a busy single line (500/2500 type) telephone, set the mode used to answer a camped-on trunk call.	0 = Hookflash (Hooking) 1 = Hookflash + Service Code 794	0	11-12-47
02	**Ignore Received DP Dial on DTMF SLT Port** Define whether the system should receive dial pulse and DTMF signals (0) or ignore dial pulse and only accept DTMF signals (1).	0 = Do Not Ignore (No) 1 = Ignore (Yes)	0	15-03-01
03	**SLT DTMF Dial to Trunk Lines** ❍ **Type 0:** The system keeps the digits dialed by the single line telephone on a trunk in a buffer. After all the digits are received, the system sends all the digits to the trunk. If the time space between digits is longer than the time in Item 4, the system considers all digits received. ❍ **Type 1:** The system passes the received digits from the single line telephone to the trunk immediately. If the single line telephone has a Last Number Dial key without a pause, this key may not be able to use the Last Number Dial key with the Type 1 setting. When using a third-party external paging device, set this option to **1**. In addition, set Program 20-03-04 to **1**. These programs must be set for Wireless – DECT users to be able to break dial tone on an analog trunk that is used for paging.	0 = Receive all dialed data, before sending (All) 1 = Direct through out (Direct)	0	20-03-04

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
04	**Dial Sending Start Time for SLT or ARS** When ARS or an analog extension user accesses a trunk and dials an outside call, the system waits this time before outdialing the first digit. When using a third-party external paging device, set this option to **1**. In addition, set Program 20-03-03 to **1**.	0~64800 seconds	3	20-03-03
05	**SLT Operation Mode**	0 = Normal Mode 1 = Extended Mode 1 2 = Extended Mode 2	0	
06	**Headset Ringing Start Time (for SLT)** Define the headset ringing start time. After this time expires from the time when a single line telephone is off-hook, the system sets the single line telephone to headset ringing mode.	0~64800 seconds	5	20-13-38
07	**Trunk Call Dial Forced Sending Start Time (Forced Dial)**	0~64800 seconds	0	20-03-03 20-03-04

Conditions

None

Feature Cross Reference

➥ **Single Line Telephones, Analog 500/2500 Sets**

Program 20 : System Option Setup

20-04 : System Options for Virtual Extensions

Level: IN

Description

Use **Program 20-04 : System Options for Virtual Extensions** to set up various system options for Virtual Extensions. There are 512 available virtual extension ports.

Input Data

Item No.	Item	Input Data	Default
03	**CAR/SIE/Virtual Extension Delay Interval** CAR Keys/SIE Keys/Virtual Extensions set for Delayed Ringing (see Program 15-11) ring the extension after this time.	0~64800 seconds	10
04	**Virtual Extension Key Seize Mode** Change the BLF status of a SIE key. When set to **Enhanced**, the BLF does not show as being busy when the station is on a trunk call. When set to **Normal**, the BLF shows as being busy when on a trunk call.	0 = Normal 1 = Enhanced Option	1
05	**Ringtone Mode for Incoming Calls to Virtual Extensions** Related PRG15-08-01, PRG22-03-01	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

➥ **Call Arrival (CAR) Keys (CAR/Secondary Incoming Extensions/Virtual Extensions)**

Program 20 : System Option Setup

20-06 : Class of Service for Extensions

Level: IN

Description

Use **Program 20-06 : Class of Service for Extensions** to assign a Class of Service (COS) to an extension. There are 15 Classes of Service that can be assigned. To specify the options in each Class of Service, refer to Programs 20-07 through 20-13. You make eight entries for Program 20-06, one for each Night Service Mode.

Input Data

Extension Number	001 ~ 960

Item No.	Day/Night Mode	Class of Service for Extensions
01	1~8	1~15

Default

- Extension number 101 as Class 15.
- All other extension numbers are set as Class 1.

Conditions

None

Feature Cross Reference

➥ **Class of Service**

Program 20 : System Option Setup

20-07 : Class of Service Options (Administrator Level)

Level: IN

Description

Use **Program 20-07 : Class of Service Options (Administrator Level)** to define the administrator service availability for each extension Class of Service (COS).

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default		Related Program
			COS 1~14	COS 15	
01	**Manual Night Service Enabled** Turn off or on an extension for manual Night Service Switching.	0 = Off 1 = On	0	1	11-10-01
02	**Changing the Music on Hold Tone** Turn off or on an extension to change the Music on Hold tone.	0 = Off 1 = On	0	1	11-10-02
03	**Time Setting** Turn off or on an extension to set the Time via Service Code 728.	0 = Off 1 = On	1	1	11-10-03
04	**Storing Speed Dialing Entries** Turn off or on an extension to store System or Group Speed Dialing numbers.	0 = Off 1 = On	1	1	11-10-04
05	**Set/Cancel Automatic Trunk-to-Trunk Transfer** Turn off or on an extension user ability to use the Trunk-to-Trunk Forwarding service codes.	0 = Off 1 = On	0	0	11-10-06 11-10-07 11-10-08
06	**Charging Cost Display**	0 = Off 1 = On	0	1	
07	**--- Not Used ---**				
08	**--- Not Used ---**				
09	**--- Not Used ---**				

Item No.	Item	Input Data	Default		Related Program
			COS 1~14	COS 15	
10	**Programmable Function Key Programming (Appearance Level)** Turn off or on an extension user ability to program the Appearance function keys using Service Code 752.	0 = Off 1 = On	1	1	11-11-38 20-13-18
11	**Forced Trunk Disconnect (analog trunk only)** Turn off or on an extension user ability to use Forced Trunk Disconnect.	0 = Off 1 = On	0	1	11-10-26
12	**Trunk Port Disable**	0 = Off 1 = On	0	1	11-10-27
13	**VRS Record (VRS Msg Operation)** Turn off or on an extension user ability to record, erase and listen to VRS messages.	0 = Off 1 = On	0	1	11-10-19
14	**VRS General Message Play** Turn an extension off or on to dial 4 or Service Code 611 to listen to the General Message.	0 = Off 1 = On	0	1	11-10-21
15	**VRS General Message Record/Delete** Turn off or on an extension user ability to dial Service Code 612 and record, listen to, or erase the General Message.	0 = Off 1 = On	0	1	11-10-22
16	**--- Not Used ---**				
17	**--- Not Used ---**				
18	**SMDR Printout Accumulated Extension Data**	0 = Off 1 = On	0	1	11-10-23
19	**SMDR Printout Department Group (STG) Data**	0 = Off 1 = On	0	1	11-10-24
20	**SMDR Printout Accumulated Account Code Data**	0 = Off 1 = On	0	1	11-10-25
21	**Register and delete DECTPP**	0 = Off 1 = On	0	0	
22	**--- Not Used ---**				
23	**CO MSG Waiting Indication Callback Number Programming** Enable/Disable an extension ability to receive CO Message Waiting Indication.	0 = Off 1 = On	0	0	
24	**Set/Cancel Private Call Refuse** Enable/Disable an extension user ability to set or cancel Private Call Refuse.	0 = Off 1 = On	0	0	11-10-32

Item No.	Item	Input Data	Default		Related Program
			COS 1~14	COS 15	
25	**Set/Cancel Caller ID Refuse** Enable/Disable an extension user ability to set or cancel Caller ID Refuse.	0 = Off 1 = On	0	0	11-10-33 11-10-34
26	**Dial-In Mode Switch**	0 = Off 1 = On	0	0	11-10-35
27	**Do-Not-Call Administrator**	0 = Off 1 = On	0	0	25-01-07 15-07-89 20-01-19
28	**--- Not Used ---**				
29	**--- Not Used ---**				
30	**Date Setting**	0 = Off 1 = On	1	1	11-10-41
31	**--- Not Used ---**				
32	**--- Not Used ---**				
33	**--- Not Used ---**				
34	**Clear Alarm Report**	0 = Off 1 = On	0	1	
35	**Save Statistical Information for RTP**	0 = Off 1 = On	0	1	

Conditions

None

Feature Cross Reference

➥ **Class of Service**

Program 20 : System Option Setup

20-08 : Class of Service Options (Outgoing Call Service)

Level: IN

Description

Use **Program 20-08 : Class of Service Options (Outgoing Call Service)** to define the outgoing call feature availability for each extension Class of Service (COS).

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default COS 01-15	Related Program
01	**Intercom Calls** Turn off or on Intercom calling for the extension.	0 = Off 1 = On	1	
02	**Trunk Outgoing Calls** Turn off or on outgoing trunk calling for the extension.	0 = Off 1 = On	1	
03	**System Speed Dialing** Turn off or on an extension ability to make outbound calls using system speed dial numbers.	0 = Off 1 = On	1	
04	**Group Speed Dialing** Turn off or on an extension ability to make outbound calls using group speed dial numbers.	0 = Off 1 = On	1	
05	**Dial Number Preview (Preset Dial)** Turn off or on an extension ability to use Dial Number Preview.	0 = Off 1 = On	1	
06	**Toll Restriction Override** Turn off or on Toll Restricting Override (Service Code 663).	0 = Off 1 = On	0	11-11-36 21-01-07 21-07
07	**Repeat Redial** Turn off or on an extension ability to use Repeat Redial.	0 = Off 1 = On	1	

Item No.	Item	Input Data	Default COS 01-15	Related Program
08	**Toll Restriction Dial Block** Turn off or on an extension ability to use Dial Block.	0 = Off 1 = On	0	
09	**Hotline/Extension Ringdown** Turn off or on Ringdown Extension for extensions with this COS.	0 = Off 1 = On	0	
10	**Signal/Voice Call** Turn off or on an extension allowing it to force Handsfree Answerback or Forced Intercom Ringing for outgoing Intercom calls.	0 = Off 1 = On	1	
11	**Protect for the Call Mode Switching from Caller** (Internal Call)	0 = Off 1 = On	0	
12	**Department Group Step Calling** Turn off or on an extension ability to use Department Group Step Calling.	0 = Off 1 = On	1	
13	**ISDN CLIP** Determine if the ISDN calling line identity presentation and screening indicators are allowed.	0 = Off 1 = On	0	10-03-05 15-01-04
14	**Call Address Information**	0 = Off 1 = On	0	
15	**Block Outgoing Caller ID** Turn off or on the system ability to automatically block outgoing Caller ID information when a user places a call. If this option is on, the system automatically inserts the Caller ID block code (defined in Program 14-01-21) before the user-dialed digits.	0 = Off 1 = On	0	14-01-20 14-01-21
16	**Display E911 Dialed Extension Name and Number** Turn off or on an extension ability to display the name and number of the extension that dialed 911.	0 = Off 1 = On	0	
17	**ARS Override of Trunk Access Map** Turn off or on an extension user ability to override the trunk access map programming for outgoing calls.	0 = Off 1 = On	0	
18	**--- Not Used ---**			

Item No.	Item	Input Data	Default COS 01-15	Related Program
19	**Hotline for SPK** Set the ability of an extension to have Hotline activated or deactivated when going off hook via the speaker key.	0 = Off 1 = On	0	20-08-09
20	**Hot Key Pad** Set the ability of an extension user to make a call by dialing the number without first going off hook.	0 = Off 1 = On	0	
21	**Automatic Trunk Seizing by Pressing SPK Key** Turn off or on an extension user ability to automatically access Trunk Route when going off hook via the speaker key.	0 = Off 1 = On	0	
22	**Voice Over to Busy Virtual Extension** Turn off or on an extension user ability to make Voice Over to Busy Virtual Extension.	0 = Off 1 = On	0	
23	**Display Indication for Security Sensor Detection** Enable (1) or Disable (0) an extension's ability to display indication for security sensor detection.	0 = Off 1 = On	0	
24	**Display Indication for Emergency Call by Remote Inspection** Enable (1) or Disable (0) an extension's ability to display indication for emergency call by remote inspection.	0 = Off 1 = On	0	

Conditions

None

Feature Cross Reference

➥ **Class of Service**

Program 20 : System Option Setup

20-09 : Class of Service Options (Incoming Call Service)

Level: IN

Description

Use **Program 20-09 : Class of Service Options (Incoming Call Service)** to define the incoming call feature availability for each extension Class of Service (COS).

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default		Related Program
			COS 01~14	COS 15	
01	**Second Call for DID/DISA/DIL/E&M Override** Turn off or on the extension ability to receive a second call from a DID, DISA, DIL, or tie line caller. ➨ *With this option set to 1, the destination extension must be busy for a second DNIS caller to ring through. If the destination extension does not have a trunk or CAP key available for the second call and a previous call is ringing the extension but has not yet been answered, the second caller hears busy regardless of this program setting.*	0 = Off 1 = On	1	1	
02	**Caller ID Display** Turn off or on the Caller ID display at an extension.	0 = Off 1 = On	0	0	15-02-08
03	**Sub Address Identification** Define whether or not an extension displays the Caller Sub-Address.	0 = Off 1 = On	0	0	
04	**Notification for Incoming Call List Existence** Determine whether or not an extension display shows Check List when an incoming call is missed by a user.	0 = Off 1 = On	0	0	20-09-02
05	**Signal/Voice Call** Turn off or on an extension user ability to enable Handsfree Answerback or Forced Intercom Ringing for their incoming Intercom calls.	0 = Off 1 = On	1	1	11-11-15, 11-11-16

Item No.	Item	Input Data	Default		Related Program
			COS 01~14	COS 15	
06	**Incoming Time Display**	0 = Off 1 = On	0	0	
07	**Call Queuing** Turn off or on an extension user ability to have calls queued if a call rings the extension when it is busy.	0 = Off 1 = On	1	1	20-13-06
08	**Calling Party Information** Turn off or on an extension ability to display calling party information on CCIS calls.	0 = Off 1 = On	1	1	50-02-05
09	**Deny Collect Call Receiving**	0 = Off 1 = On	0	0	20-09-09
10	**--- Not Used ---**				
11	**--- Not Used ---**				
12	**--- Not Used ---**				
13	**DND Active While Ringing** When set to 0, and if set DND during an incoming call, the call for the terminal stops immediately. When set to 1, and if set DND during an incoming call, the call for the terminal continues ringing and is set for the next call.	0 = Immediate 1 = Next Call	0	0	

Conditions

None

Feature Cross Reference

➥ **Class of Service**

Program 20 : System Option Setup

20-10 : Class of Service Options (Answer Service)

Level: IN

Description

Use **Program 20-10 : Class of Service Options (Answer Service)** to define the answer feature availability for each extension Class of Service (COS).

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default	
			COS 01~14	COS 15
01	**Group Call Pickup (Within Group)** Turn Off or On Group Call Pickup for calls ringing an extension Pickup Group as well as ring group calls (Service Code *#).	0 = Off 1 = On	1	1
02	**Group Call Pickup (Another Group)** Turn off or on Group Call Pickup for calls ringing outside a group (Service Code 769).	0 = Off 1 = On	1	1
03	**Group Call Pickup for Specific Group** Turn off or on Group Call Pickup for a specific group (Service Code 768).	0 = Off 1 = On	1	1
04	**Telephone Call Pickup** Enable/disable the group call pickup.	0 = Off 1 = On	1	1
05	**Directed Call Pickup for Own Group** Turn off or on Directed Call Pickup for calls ringing an extension Pickup Group (Service Code 756).	0 = Off 1 = On	1	1
06	**Meet-Me Conference and Paging** Turn off or on an extension user ability to use Meet-Me Conference and Paging.	0 = Off 1 = On	1	1
07	**Automatic Off-Hook Answer** Turn off or on an extension user ability to use Universal Auto Answer (no service code required).	0 = Off 1 = On	0	0

Item No.	Item	Input Data	Default	
			COS 01~14	COS 15
08	**Virtual Extension Off-Hook Answer** Turn off or on an extension ability to answer an incoming call on a Call Arrival (CAR)/Secondary Incoming Extension (SIE)/Virtual Extension simply by lifting the handset.	0 = Off 1 = On	1	1
09	**Call Pickup Callback** Turn off or on an extension user ability to use Call Pickup to pick up Callback calls.	0 = Off 1 = On	1	1
10	**Answer Preset**	0 = Off 1 = On	0	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-11 : Class of Service Options (Hold/Transfer Service)

Level: IN

Description

Use **Program 20-11 : Class of Service Options (Hold/Transfer Service)** to define the Hold and Transfer feature availability for each extension Class of Service (COS).

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default
			COS 01~15
01	**Call Forward All** Turn off or on an extension user ability to initiate Call Forwarding All.	0 = Off 1 = On	1
02	**Call Forward When Busy** Turn off or on an extension user ability to use Call Forward when Busy.	0 = Off 1 = On	1
03	**Call Forwarding When Unanswered** Turn off or on an extension user ability to use Call Forward when Unanswered.	0 = Off 1 = On	1
04	**Call Forwarding (Both Ringing)** Turn off or on an extension user ability to activate Call Forwarding with Both Ringing.	0 = Off 1 = On	1
05	**Call Forwarding with Follow Me** Turn off or on an extension user ability to initiate Call Forwarding with Follow Me.	0 = Off 1 = On	1
06	**Unscreened Transfer (Ring Inward Transfer)** Turn off or on an extension user ability to use Unscreened Transfer.	0 = Off 1 = On	1
07	**Transfer Without Holding** Turn off or on an extension user ability to use Transfer Without Holding.	0 = Off 1 = On	0

Item No.	Item	Input Data	Default COS 01~15
08	**Transfer Information Display** Turn off or on an extension ability for incoming Transfer preanswer display.	0 = Off 1 = On	1
09	**Group Hold Initiate** Turn off or on an extension user ability to initiate a Group Hold.	0 = Off 1 = On	1
10	**Group Hold Answer** Turn off or on an extension user ability to pick up a call on Group Hold.	0 = Off 1 = On	1
11	**Automatic On-Hook Transfer** Turn off or on an extension user ability to use Automatic On Hook Transfer.	0 = Off 1 = On	0
12	**Call Forwarding Off Premise (External Call Forwarding)** Turn off or on an extension user ability to set up Call Forwarding Off-Premise for their telephone.	0 = Off 1 = On	0
13	**Operator Transfer After Hold Callback** Turn off or on an extension user ability to have a call which recalls from hold transfer to the operator.	0 = Off 1 = On	0
14	**Trunk-to-Trunk Transfer Restriction** Turn off or on the Trunk-to-Trunk Transfer Restriction. If enabled, Trunk-to-Trunk Transfer is not possible.	0 = Off 1 = On	0
15	**VRS Personal Greeting (Message Greeting)** Turn off or on an extension user ability to record, listen to, or erase the Personal Greeting Message.	0 = Off 1 = On	1
16	**Call Redirect** Turn off or on a multiline terminal user ability to transfer a call to a predefined destination (such as an operator, voice mail, or another extension) without answering the call.	0 = Off 1 = On	1
17	**Department Group Trunk-to-Trunk Transfer (Each Telephone Group Transfer)** Turn off or on an extension user ability to set Trunk-to-Trunk Forwarding for a Department Group.	0 = Off 1 = On	1
18	**No Recall** When set to a (0) OFF, unanswered transferred calls will recall to the station that performed the transfer once the transfer recall timer expires. When set to a (1) ON, unanswered transferred calls will NOT recall to the station that performed the transfer once the transfer recall timer expires. ➨ *Unanswered transferred calls to a Virtual Extension or Virtual Loopback port will always recall once the transfer recall timer expires.*	0 = Off 1 = On	0

Item No.	Item	Input Data	Default COS 01~15
19	**Hold/Extended Park** Determine if an extension Class of Service should allow either a normal or extended Park.	0 = Off 1 = On	0
20	**No Callback** Turn off or on an extension ability to receive callbacks.	0 = Off 1 = On	0
21	**Restriction for Tandem Trunking on Hang Up** Allow/Deny an extension user ability to set up a tandem/ conference call automatically when they hang up.	0 = Off 1 = On	0
22	**Restricted Unsupervised Conference** Allow/Deny an extension user ability to initiate an unsupervised conference.	0 = Off 1 = On	0
23	**CAR/VE Call Forward Set/Cancel** Turn 0ff or on an extension user ability to set or cancel call forwarding for a virtual extension.	0 = Off 1 = On	1
24	**Trunk Park Hold Mode** Set the hold type when a trunk call is put on hold by an extension.	0 = Non Exclusive Hold (Off) 1 = Exclusive Hold (On)	1
25	**Transfer Park Call** Turn off or on an extension user ability to transfer a parked call.	0 = Off 1 = On	1
26	**Station Park Hold Mode**	0 = Off 1 = On	0
27	**Call Park Automatically Search**	0 = Off 1 = On	1
28	**Both Ring Enhancement** 0 = Normal (default) rings on other extension when the other paired extension is busy (not idle). 1 = Enhanced does not ring other extension when the other paired extension is busy (not idle).	0 = Normal 1 = Enhanced	0
30	**Disable Call FWD Indication on LCD** When set to 1, Call FWD setting is not shown on the terminal LCD.	0 = Off 1 = On	1

Item No.	Item	Input Data	Default
			COS 01~15
31	**Class of Service Options (Hold/Transfer Service - Transfer to Remote Conference)** Use this option to enable or disable an extensions ability to transfer a call to a remote conference. ✎ *When Program 20-11-30 is disabled for the required class of service, the Call FWD "Off-Premise" information is not displayed on the screen of the MLT.*	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

➥ **Class of Service**

Program 20 : System Option Setup

20-12 : Class of Service Options (Charging Cost Service)

Level: IN

Description

Use **Program 20-12 : Class of Service Options (Charging Cost Service)** to define the Charging Cost service availability for each extension service class.

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default	
			COS 01~14	COS 15
02	**Advice of Charge** ISDN-AOC	0 = Off 1 = On	0	0
03	**Cost Display (TTU)**	0 = Off 1 = On	1	1

Conditions

None

Feature Cross Reference

➥ **Class of Service**

Program 20 : System Option Setup

20-13 : Class of Service Options (Supplementary Service)

Level: IN

Description

Use **Program 20-13 : Class of Service Options (Supplementary Service)** to define the supplementary feature availability for each extension Class of Service (COS).

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default		Related Programming
			COS 01~14	COS 15	
01	**Long Conversation Alarm** Turn off or on the Warning Tone for Long Conversation (not for single line telephones).	0 = Off 1 = On	0	0	
02	**Long Conversation Cutoff (Incoming)** Turn off or on an extension user ability to use Long Conversation Cutoff for incoming calls.	0 = Off 1 = On	0	0	
03	**Long Conversation Cutoff (Outgoing)** Turn off or on an extension user ability to use Long Conversation Cutoff for outgoing calls.	0 = Off 1 = On	0	0	
04	**Call Forward/DND Override (Bypass Call)** Turn off or on an extension user ability to use Call Forwarding/DND Override.	0 = Off 1 = On	1	1	
05	**Intercom Off-Hook Signaling** Turn off or on an extension ability to receive off-hook signals.	0 = Off 1 = On	1	1	
06	**Automatic Off-Hook Signaling (Automatic Override)** Allow a busy extension ability to manually (0) or automatically (1) receive off-hook signals.	0 = Off 1 = On	1	1	
07	**Message Waiting** Turn off or on an extension user ability to leave Message Waiting.	0 = Off 1 = On	1	1	

Item No.	Item	Input Data	Default		Related Programming
			COS 01~14	COS 15	
08	**Conference** Turn off or on an extension user ability to initiate a conference or Meet-Me Conference.	0 = Off 1 = On	1	1	
09	**Privacy Release** Turn off or on an extension user ability to initiate a Voice Call Conference.	0 = Off 1 = On	1	1	
10	**Barge-In Monitor** Enable the extension Barge-In Mode to be Speech or Monitor.	0 = Speech 1 = Monitor	0	0	20-13-45
11	**Room Monitor, Initiating Extension** Turn off or on an extension user ability to Room Monitor other extensions.	0 = Off 1 = On	0	0	
12	**Room Monitor, Extension Being Monitored** Turn off or on an extension ability to be monitored by other extensions.	0 = Off 1 = On	0	0	
13	**Continued Dialing (DTMF) Signal on ICM Call** Turn off or on an extension user ability to use Continued Dialing, which allows DTMF signal sending while talking on extension.	0 = Off 1 = On	1	1	
14	**Department Calling (PLT No Called Extension)** Turn off or on an extension user ability to call a Department Group Pilot.	0 = Off 1 = On	1	1	
15	**Barge-In, Initiate** Turn off or on an extension user ability to barge-in on other's calls.	0 = Off 1 = On	0	0	
16	**Barge-In, Receive** Turn off or on an extension user ability to have other extensions barge-in on calls.	0 = Off 1 = On	0	0	
17	**Barge-in Tone/Display (Intrusion Tone)** Turn off or on the Barge-In tone. If on, callers hear an alert tone and their display indicates the Barge-In when another extension barges into their conversation. If off, there is no alert tone or display indication.	0 = Off 1 = On	1	1	
18	**Programmable Function Key Programming (General Level)** Turn off or on an extension user ability to program General function keys using Service Code 751 (by default). (Refer to Program 20-07-10 for Service Code 752.)	0 = Off 1 = On	1	1	

Item No.	Item	Input Data	Default		Related Programming
			COS 01~14	COS 15	
19	**Selectable Display Messaging (Text Messaging)** Turn off or on an extension user ability to use Selectable Display Messaging.	0 = Off 1 = On	1	1	
20	**Account Code/Toll Restriction Operator Alert (Restricted Operation Transfer)** Turn off or on operator alert when an extension user improperly enters an Account Code or violates Toll Restriction.	0 = Off 1 = On	0	0	
21	**Extension Name** Turn off or on an extension user ability to program its name.	0 = Off 1 = On	1	1	
22	**Busy Status Display (Called Party Status)** Turn off or on the ability to display the detailed state of the called party.	0 = Off 1 = On	0	0	20-13-06
23	**Display the Reason for Transfer** Select whether or not an extension should display the reason a call is being transferred to their extension (Call Forward Busy, Call Forward No Answer, DND).	0 = Off 1 = On	0	0	
24	**Privacy Release by Pressing Line Key** Turn off or on a user ability to press a line key to barge into an outside call. The Barge-In feature must be enabled if this option is used.	0 = Off 1 = On	0	0	
25	**--- Not Used ---**				
26	**Group Listen** Turn off or on an extension user ability to use Group Listen.	0 = Off 1 = On	1	1	
27	**Busy on Seizing Virtual Extension** If set to **1**, you can call a busy extension which is talking on a virtual extension key. Program 20-13-06 (Call Waiting) must be set to 0 for this option to work.	0 = Off 1 = On	1	1	
28	**Allow Class of Service to be Changed** Turn off or on the ability of an extension Class of Service to be changed via Service Code 677.	0 = Off 1 = On	0	0	
29	**Paging Display** Turn off or on an extension user ability to display paging information.	0 = Off 1 = On	1	1	
30	**Background Music** Allow/Deny an extension user to turn Background Music on and off.	0 = Deny 1 = Allow	1	1	

Item No.	Item	Input Data	Default		Related Programming
			COS 01~14	COS 15	
31	**Connected Line Identification (COLP)**	0 = Off 1 = On	0	0	
32	**Deny Multiple Barge-Ins** Allow/Deny an extension user from having multiple users Barge into their conversation.	0 = Off 1 = On	0	0	
33	**Supervisor's Position Enhancement** This option must be set to 1 for the operator to use service codes in Program 11-13-10 ~ 11-13-13.	0 = Off 1 = On	0	0	11-13-10 11-13-11 11-13-12 11-13-13
34	**Block Manual Off-Hook Signaling** Turn off or on an extension user ability to block off-hook signals manually sent from a co-worker.	0 = Off 1 = On	0	0	
35	**Block Camp On** Turn off or on an extension user ability to block callers from dialing to Camp On.	0 = Off 1 = On	0	0	
36	**Call Duration Timer Display** Turn off or on an extension display of the Call Duration Time. The system waits until the interdigit time (Program 21-01-01) expires before beginning this timer.	0 = Off 1 = On	1	1	
37	**--- Not Used ---**				
38	**Headset Ringing for SLT** Turn off or on an extension user ability to use the Headset ringing.	0 = Off 1 = On	0	0	
39	**Queue Status Display** Turn off or on the Queue Status Display for an extension Class of Service. Any extension which has this option enabled also receives the queue alarm.	0 = Off 1 = On	0	0	
40	**Do Not Disturb** Turn off or on an extension user ability to set or cancel Do Not Disturb.	0 = Off 1 = On	1	1	11-11-08 15-07-03
41	**Voice Mail Message Indication on DSS** Turn off or on the Voice Mail Message Indication for an extension on a DSS console.	0 = Off 1 = On	0	0	
42	**Extension Data Swap Enabling** Turn off or on an extension user ability to use Extension Data Swap.	0 = Off 1 = On	1	1	11-15-12
43	**Disconnect Supervision** If the Multiline terminal is in a handsfree state, and a disconnect signal is detected when the other party goes off-hook, the Multiline terminal will automatically change to an idle state if this is set to On.	0 = Off 1 = On	1	1	

Item No.	Item	Input Data	Default		Related Programming
			COS 01~14	COS 15	
44	**Live Monitor Enabling** Turn off or on an extension user ability to use Live Monitor.	0 = Off 1 = On	1	1	
45	**MIC Key Mode while Call Monitoring** Set per class of service, when in Call Monitoring Mode determines if the monitored parties receive the barge in alert tone when Coaching Mode is enabled.	0 = Enable (Off) 1 = Disable (On)	1	1	20-13-10
46	**Remote Conference**	0 = Off (No, not used) 1 = On (Yes, allow to use)	1	1	
47	**Station Number Display** Determine if a station Number is displayed (1) or not displayed (0) in the LCD when the phone is idle.	0 = Off 1 = On	1	1	
48	**Station Name Display** Determine if a station Name is displayed (1) or not displayed (0) in the LCD when the phone is idle.	0 = Off 1 = On	1	1	
49	**BLF Indication on CO Incoming State** Determine if a BLF of the station lights when a Normal CO call is ringing the phone.	0 = Off 1 = On	0	0	
50	**AIC Agent display which call is from** Determine if the station logged in via AIC code shows which queue the call is coming from.	0 = Off 1 = On	1	1	
51	**Number and Name Appear in the Directory** Determine if an extension name and number are listed (1) or unlisted (0) in the directory.	0 = Off 1 = On	1	1	
52	**VoIP All DSP Busy Display** Set whether “All DSP Busy” alarm displays on LCD when the caller makes an IP call and there is no VoIP DSP resource.	0 = Disable 1 = Enable	1	1	
53	**Language Selection for Specific Extension**	0 = Disable 1 = Enable	0	0	11-11-68 15-02-01 47-02-16
54	**Call Waiting for Standard SIP Terminal** Set up Call Waiting (off-hook signaling) for standard SIP terminal. When set to enable, this PRG looks at PRG 20-13-05, 20-13-06, 20-09-01, and 20-09-07.	0 = Disable 1 = Enable	0	0	20-09-01 20-09-07 20-13-05 20-13-06

Conditions

None

Feature Cross Reference

Class of Service

Program 20 : System Option Setup

20-14 : Class of Service Options for DISA/E&M

Level: IN

Description

Use **Program 20-14 : Class of Service Options for DISA/E&M** to enable/disable DISA and tie line Class of Service options. You assign a DISA Class of Service to DISA users in Program 25-09. Assign tie line Classes of Service in 34-02. Up to 15 DISA/E&M Classes of Service can be defined.

IMPORTANT

Analog trunk-to-analog trunk and ISDN trunk-to-ISDN trunk calls are supported by this program. However, analog trunk-to-ISDN trunk and ISDN trunk-to-analog trunk calls are NOT supported by this program.

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default
			COS 1~15
01	**First Digit Absorbtion (Delete First Digit Dialed)** For tie lines, enable/disable the ability to absorb (ignore) the first incoming digit. Use this to make the tie trunk compatible with 3- and 4-digit tie line service. This option does not apply to DISA.	0 = Off 1 = On	0
02	**Trunk Group Routing/ARS Access** Enable/Disable a DISA or tie trunk caller ability to dial 9 for Trunk Group Routing or Automatic Route Selection (ARS).	0 = Off 1 = On	1
03	**Trunk Group Access** Enable/Disable a DISA or tie trunk caller ability to access trunk groups for outside calls (Service Code 704).	0 = Off 1 = On	1
04	**Outgoing System Speed Dial** Enable/Disable a DISA or tie trunk caller ability to use the System Speed Dialing.	0 = Off 1 = On	0
05	**Operator Calling** Enable/Disable a DISA or tie trunk caller ability to dial 0 for the telephone system operator.	0 = Off 1 = On	1

Item No.	Item	Input Data	Default
			COS 1~15
06	**Internal Paging** Enable/Disable a DISA or tie trunk caller ability to use the telephone system Internal Paging.	0 = Off 1 = On	1
07	**External Paging** Enable/Disable a DISA or tie trunk caller ability to use the telephone system External Paging.	0 = Off 1 = On	1
08	**Direct Trunk Access** Enable/Disable a DISA or tie trunk caller ability to use Direct Trunk Access (Service Code #9).	0 = Off 1 = On	0
09	**Forced Trunk Disconnect <Not for ISDN T-point>** Enable/Disable a tie trunk caller ability to use Forced Trunk Disconnect (Service Code ∗3). This option is not available to DISA callers.	0 = Off 1 = On	0
10	**Call Forward Setting by Remote via DISA** Enable/Disable a DISA caller ability to use the Call Forward service codes (Programs 11-11-01 ~ 11-11-05).	0 = Off 1 = On	0
11	**DISA/Tie Trunk Barge-In** Enable/Disable a DISA or tie trunk caller ability to use Barge-In.	0 = Off 1 = On	0
12	**Retrieve Park Hold** Enable/Disable a DISA or tie trunk caller ability to retrieve a Park Hold call.	0 = Off 1 = On	1

Conditions

None

Feature Cross Reference

- Class of Service
- Direct Inward System Access (DISA)
- Tie Lines

Program 20 : System Option Setup

20-15 : Ring Cycle Setup

Level: IN

Description

Use **Program 20-15 : Ring Cycle Setup** to define the ringing cycles for each ring type.

Input Data

Item No.	Incoming Signal Type	Ringing Cycle	Default
01	Normal Incoming Call on Trunk	1~13	2
02	PBX, CES Incoming Call		8
03	Incoming Internal Call		12
04	DID/DISA/VRS		8
05	DID/DDI/DIL		8
06	Dial-In in the E&M Tie Line		12
07	Door Box Ringing for SLT		8
08	Virtual Extension Ring		8
09	Callback		11
10	Alarm for SLT		5
11	VRS Waiting Message Incoming Call		6

Number	Ringing Cycle
1	On
2	On:2.0 / Off:4.0
3	On:1.0 / Off:2.0
4	On:0.5 / Off:0.5
5	On:0.25 / Off:0.25

Number	Ringing Cycle
6	On:0.5 / Off:0.5 / On:0.5 / Off:1.5
7	On:0.25 / Off:0.25 / On:0.25 / Off:5.25
8	On:0.375 / Off:0.25 / On:0.375 / Off:2.0
9	On:0.25 / Off:0.125 / On:0.25 / Off:0.125 / On:0.25 / Off:2.0
10	On:1.0 / Off:4.0
11	On:0.25 / Off:0.25 / On:0.25 / Off:4.25
12	On:1.0 / Off:3.0
13	On:0.25 / Off:0.25 / On:0.25 / Off:2.25

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-16 : Selectable Display Messages

Level: SA

Description

Use **Program 20-16 : Selectable Display Messages** to enter the Selectable Display Messages. There are 20 alphanumeric messages, with up to 24 characters. Use the following chart when programming messages.

Table 2-8 Keys for Entering Names

Use this keypad digit . . .	When you want to. . .
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Ç É Ê ì ó
2	Enter characters: A-C, a-c, 2.
3	Enter characters: D-F, d-f, 3.
4	Enter characters: G-I, g-i, 4.
5	Enter characters: J-L, j-l, 5.
6	Enter characters: M-O, m-o, 6.
7	Enter characters: P-S, p-s, 7.
8	Enter characters: T-V, t-v, 8.
9	Enter characters: W-Z, w-z, 9.
0	Enter characters: 0 ! " # $ % & ' ( ) ô ◘ ú ä ö ü α ε θ
*	Enter characters: * + , - . / : ; < = > ? π Σ σ Ω ∞ ¢ £
#	# = Accepts an entry (only required if two letters on the same key are needed – ex: TOM). Pressing # again = Space. (In system programming mode, use the right arrow soft key instead to accept and/or add a space.)
CONF	Clear the character entry one character at a time.
HOLD	Clear all the entries from the point of the flashing cursor and to the right.

When using DTP or DTU style telephones on the UNIVERGE SV9100 system, not all the same characters are available.

Input Data

Selectable Display Message Number	01~20

Item No.	Input Data
01	24 characters

Number	Message
1	IN MEETING UNTIL ##:##
2	MEETING ROOM – ########
3	COME BACK ##:##
4	PLEASE CALL ###########
5	BUSY CALL AFTER ##:##
6	OUT FOR LUNCH BACK ##:##
7	BUSINESS TRIP BACK ##/##
8	BUSINESS TRIP ##########
9	GONE FOR THE DAY
10	ON VACATION UNTIL ##/##
11	MESSAGE 11
12	MESSAGE 12
13	MESSAGE 13
14	MESSAGE 14
15	MESSAGE 15
16	MESSAGE 16
17	MESSAGE 17
18	MESSAGE 18
19	MESSAGE 19
20	MESSAGE 20

Conditions

Time value **##** : **##** must be followed by two spaces.

Feature Cross Reference

➥ **Selectable Display Messages**

Program 20 : System Option Setup

20-17 : Operator Extension

Level: IN

Description

Use Program **20-17 : Operator Extension** to designate an operator. When an extension user dials 0 or 9 (defined by Program 11-01 Type 5), calls go to the operator selected in this program.

If you do not assign an extension in Program 90-11-01, system alarms appear on the extension assigned in this option.

Input Data

Operator Number	1~8

Item No.	Item	Input Data	Default	Related Program
01	**Operator's Extension Number** Define the extension numbers to be used by operators.	Up to eight digits	101	11-01 20-01-01
02	**Operator Console** Assign the operator's Multiline Terminal to special operator console mode or normal multiline terminal mode.	0 = Normal Multiline Terminal 1 = Special Operator Console Mode	0	

Conditions

None

Feature Cross Reference

➥ **Intercom**

Program 20 : System Option Setup

20-18 : Service Tone Timers

Level: IN

Description

Use **Program 20-18 : Service Tone Timers** to set the values for the system service tone timers. Refer to the following chart for a description of each option, its range and default setting.

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	**Extension Dial Tone Time**	0~64800 seconds	30	After getting Intercom dial tone, a telephone user has this time to dial the first digit of the Intercom call.	
02	**Busy Tone Timer**	0~64800 seconds	15		
03	**Congestion Tone**	0~64800 seconds	10	A Busy Tone when system resources run short. (such as DTMF receiver resources).	
04	**Call Waiting Tone Timer**	0~64800 seconds	10	Sets the time between Call Waiting tones. This timer also sets the time between Off-Hook Signaling alerts.	
05	**Multiline Confirmation Tone**	0~64800 seconds	10		
06	**Interval of Call Waiting Tone**	3~64800 seconds	10		
07	**Intrusion Tone Repeat Time**	0~64800 seconds	0	After a call is interrupted (such as Barge-In, Voice Mail Conversation Recording, or Voice Over), the system repeats the Intrusion Tone after this time. Normally, you should enter 0 to disable this time.	
08	**Conference Tone Interval**	0~64800 seconds	0		
09	**Warning Beep Tone Signaling Interval**	0~64800 seconds	60		14-01-18

Conditions

None

Feature Cross Reference

➥ **Distinctive Ringing, Tones, and Flash Patterns**

Program 20 : System Option Setup

20-19 : System Options for Caller ID

Level: IN

Description

Use **Program 20-19 : System Options for Caller ID** to define the system options for the Caller ID feature.

Input Data

Item No.	Item	Input Data	Default
01	**Caller ID Displaying Format (if displaying digits are more than 12 digits)**	0 = First 10 digits (Upper) 1 = Last 10 digits (Lower)	0
02	**Caller ID Information Waiting Time**	0 ~ 30	5
03	**Caller ID Edit Mode**	0 = Off 1 = On	0
04	**Wait Facility IE Timer** This timer is used with ISDN trunks to determine the time the system waits for the Caller ID name from the Telco.	0~64800 seconds	10
05	**Caller ID Sender Queing Time (Sender Wait)**	0~64800 seconds	0
07	**Long Distance Code**	Up to two digits	1
08	**Area Code**	Up to six digits	No setting
09	**Calling Party Name for ISDN Trunk** When set, sends the Calling Party Name to the network.	Up to 12 characters	No setting
10	**Message Type Treated as CID for Analog Trunk** Specify message type number which treats as Caller ID from analog trunk.	0 = '2' only 1 = '2' and '3'	1

Conditions

- Edit Caller ID works when Program 20-19-07 and Program 20-19-08 are set.
- Calling Party Name for ISDN Trunk works when Program 14-01-24 and Program 15-01-01 are set.

Feature Cross Reference

Caller ID

Program 20 : System Option Setup

20-20 : Message Setup for Non-Caller ID Data

Level: IN

Description

Use **Program 20-20 : Message Setup for Non-Caller ID Data** to define the messages which are displayed when no Caller ID information is received.

Input Data

Item No.	Item	Input Data	Default
01	**Private Call**	24 Alphanumeric Characters	PRIVATE
02	**Call from Out of Service Area**	24 Alphanumeric Characters	OUT OF AREA
03	**Call Information with Error**	24 Alphanumeric Characters	NO CALLER INFO

Conditions
None

Feature Cross Reference

➥ **Caller ID**

Program 20 : System Option Setup

20-21 : System Options for Long Conversation

Level: IN

Description

Use **Program 20-21 : System Options for Long Conversation** to define the system options for the Long Conversation feature.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Long Conversation Alarm 1** The warning tone for long toll calls sounds after this time.	0~64800 (sec)	170	14-01-15
02	**Long Conversation Alarm 2** After the initial long toll call warning tone, additional warning tones sound after this time.	0~64800 (sec)	180	14-01-15
03	**Long Conversation Cutoff for Incoming Call** This determines the time the system waits before disconnecting an incoming call.	0~64800 (sec)	0	14-01-14
04	**Long Conversation Cutoff for Outgoing Call** This determines the time the system waits before disconnecting an outgoing call.	0~64800 (sec)	0	14-01-14
05	**Conversation Cutoff for Remote Monitor**	0~64800 (sec)	180	

Conditions

None

Feature Cross Reference

➥ **Long Conversation Cutoff**

Program 20 : System Option Setup

20-22 : System Options for Wireless – DECT Service

Level: IN

Description

Use **Program 20-22 : System Options for Wireless – DECT Service** to define the time the system waits before determining the Wireless – DECT phone is out of range. For incoming calls, the time begins when the call is received. If the time defined here expires before the Wireless – DECT phone starts to ring, the system determines the phone is out of range and provides the out-of-range services (indicates out-of range, transfers the call to voice mail or to another extension).

Input Data

Item No.	Item	Input Data	Default
05	**Out of Area Judging Time**	0~64800 (sec)	8
06	**Out of Area Talkie Number**	0~100	0

Conditions

None

Feature Cross Reference

➥ **Wireless – DECT**

Program 20 : System Option Setup

20-23 : System Options for CTI

Level: IN

Description

Use **Program 20-23 : System Options for CTI** to define the system options for the CTI feature.

Input Data

Item No.	Item	Input Data	Default
01	**Delayed ring timer for CTI**	0~64800 (sec)	50
02	**ALERT replay time (CTI)**	0~64800 (sec)	8
03	**Trunk Virtual Bridge – TSP Driver** Enable/Disable the system to send trunk or virtual extension information to the TSP driver.	0 = Disable (No) 1 = Enable (Yes)	0
04	**The Timer that waits for an off-hook for Single Line Telephone**	0~64800 (sec)	30
05	**UX5000 Migration Mode** Define if the CTI integration should operate in UX5000 mode (On:1) or SV9100 mode (Off:0).	0 = Off 1 = On	0
06	**3rd Party CTI IP Address** Displays the IP address of 3rd Party CTI Server currently connected. (Read Only)	0.0.0.0~ 255.255.255. 255	0.0.0.0
09	**CTI Mode** Define the CTI mode.	0 = Mode 1 1 = Mode 2 2 = Mode 3 3 = Mode 4 4 = Mode 5 5 = Mode 6 6 = Mode 7 7 = Mode 8	0: Mode 1

Conditions

None

Feature Cross Reference

➥ Computer Telephony Integration (CTI) Applications

Program 20 : System Option Setup

20-25 : ISDN Options

Level: IN

Description

Use **Program 20-25 : ISDN Options** to define the ISDN system options.

Input Data

Item No.	Item	Input Data	Default
01	**Send the Release Message After Subscriber Hangs Up**	0 = Off 1 = On	1
02	**Progress Indicate Information Element Detect**	0 = Off 1 = On	1
03	**Bearer Capability Select from SLT Outgoing**	0 = 3.1KHz Audio 1 = Speech	0
04	**Send DT until user dials first digit (Local Dial Tone)** With Overlap Sending Mode, if the network side stops dial tone when CLI is included in the SETUP message, the system sends dial tone until the user dials the first digit instead of the network.	0 = Off 1 = On	0
05	**T305 Timer Start After Sending Disconnect Message**	0 = Off 1 = On	1
06	**Call Proceeding Send Mode**	0 = Off 1 = On	1
07	**Local Busy Tone Mode Set When Disconnect Message Received**	0 = Local Busy Tone Off 1 = Busy Tone from NT (network side)	0
08	**Use of Lower Layer Compatibility (LLC)** This Program must be set to 0 for International Dialing when using Calling Number Presentation (CPN) from station.	0 = Disable (Off) 1 = Enable (On)	0
09	**High Layer Compatibility (HLC) Sending**	0 = Disable (Off) 1 = Enable (On)	0
10	**S-Point Terminal Seizes Analog Trunk**	0 = Disable (Off) 1 = Enable (On)	1
11	**Automatic Changing System Clock When Date/ Time Information Element Received**	0 = Disable (Off) 1 = Enable (On)	0

Input Data (Continued)

Item No.	Item	Input Data	Default
12	**Call Forward Options (Auto Connect Send)** Incoming Calls Forwarded Out Automatically Return Connect Message When Outgoing Call Receives Alerting Message.	0 = Normal – No Message (Off) 1 = Normal – No Message (On)	0
13	**Local Busy Tone (Release)** Busy tone send when T-point receiving a RELEASE message from Network.	0 = Off 1 = On	0
14	**No Response Release Send** Operation mode setting for when second T303 timer expires.	0 = Off 1 = On	0
15	**Call Reference Selection for PRI 2B-Channel Transfer** This PRG is used to turn on or off the ability for an incoming call to be transferred (Trunk-to-Trunk) to an outgoing call when 2 B-Channel Transfer is used.	0 = Off 1 = On	0
20	**Send Sending Complete Information**	0 = No Send 1 = Send	0

Conditions

None

Feature Cross Reference

➥ **ISDN Compatibility**

Program 20 : System Option Setup

20-26 : Multiplier Changing CO

Level: IN

Description

Use **Program 20-26 : Multiplier Changing CO** to define the Multiplier for charging cost to each extension service class.

Input Data

Service Class	1~15

Item No.	Item	Input Data	Default
01	**Value %**	100~500	100

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-28 : Trunk to Trunk Conversation

Level: IN

Description

Use **Program 20-28 : Trunk to Trunk Conversation** to define system options for Trunk to Trunk Conversation.

Input Data

Item No.	Item	Input Data	Default	Related Programming
01	**Conversation Continue Code** Input the code that can be dialed to continue the conversation after the Trunk-to-Trunk Release Warning Tone is heard.	0~9, #, ∗ (Set for one digit only)	No Setting	14-01-25 20-28-03 24-02-07 24-02-10 25-07-07 25-07-08
02	**Conversation Disconnect Code** Input the code that can be dialed to disconnect the conversation after the Trunk-to-Trunk Release Warning Tone is heard.	0~9, #, ∗ (Set for one digit only)	No Setting	14-01-25 24-02-07 24-02-10 25-07-07 25-07-08
03	**Conversation Continue Time** Input the time the conversation extends when the Conversation Continue Code is dialed.	0~64800 seconds	0	14-01-25 20-28-01 24-02-07 24-02-10 25-07-07 25-07-08

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-29 : Timer Class for Extension

Level: IN

Description

Use **Program 20-29 : Timer Class for Extension** to assign the timer class to each extension. There are 16 Classes that can be assigned. You make eight entries for this Program, one for each Night Service Mode. This entry includes virtual extension numbers.

The details of classes are assigned by Program 20-31.

Input Data

Extension Number	Up to eight digits

Item No.	Item	Input Data	Default
01	**Day/Night Mode 1~8, Class Number**	0~15 0 = Not assigned	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-30 : Timer Class for Trunks

Level: IN

Description

Use **Program 20-30 : Timer Class for Trunks** to assign the timer class to each trunk. There are 16 Classes that can be assigned. You make eight entries for this Program, one for each Night Service Mode. The details of classes are assigned by Program 20-31.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**Day/Night Mode 1~8, Class Number**	0~15 0 = Not assigned	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-31 : Timer Class Timer Assignment

Level: IN

Description

Use **Program 20-31 : Timer Class Timer Assignment** to assign values to the timers on a class of service basis.

Input Data

Timer Class Number	1~15

Item No.	Item	Input Data	Default	Related Programming
01	**Trunk Queuing Callback Duration Time** Trunk Queuing Callback rings an extension for this time	0~64800 seconds	15 seconds	20-01-08
02	**Callback / Trunk Queuing Cancel Time** The system cancels an extension Callback or Trunk Queuing request after this time.	0~64800 seconds	64800 seconds	20-01-09
03	**CAR/SIE/Virtual Extension Delay Interval** CAR Keys/SIE Keys/Virtual Extensions set for Delayed Ringing (refer to 15-11 : Virtual Extension Delayed Ring Assignment) ring the extension after this time.	0~64800 seconds	10 seconds	20-04-03
04	**Intercom Interdigits Time (Intercom I/D Timer)** When placing Intercom calls, extension users must dial each digit in this time.	0~64800 seconds	10 seconds	21-01-02
05	**Trunk Interdigits Time (Trunk I/D Timer)** The system waits for this time to expire before placing the call in a talk state (Call Timer starts after time expires, Voice Over and Barge-In are not allowed until after time expires).	0~64800 seconds	10 seconds	21-01-03
06	**Hotline Time Start Time (Hotline Start)** A Ringdown extension automatically calls the programmed destination after this time.	0~64800 seconds	5 seconds	21-01-09

Item No.	Item	Input Data	Default	Related Programming
07	**Ring No Answer Alarm Time** If a trunk rings a multiline telephone longer than this time, the system changes the ring cadence. This indicates to the user that the call has been ringing too long.	0~64800 seconds	60 seconds	22-01-03
08	**DIL/Incoming Ring Group No Answer Time** A DIL that rings its programmed destination longer than this time diverts to the DIL No Answer Ring Group (set in Program 22-08).	0~64800 seconds	0 seconds	22-01-04
09	**DID Ring-No-Answer Time** In systems with DID Ring-No-Answer Intercept, this time sets the Ring-No-Answer time. This time is how long a DID call rings the destination extension before rerouting to the intercept ring group.	0~64800 seconds	20 seconds	22-01-06
10	**Hold Recall Time (Non Exclusive Hold)** A call on Hold recalls the extension that placed it on Hold after this time. This time works with the Hold Recall Callback Time (Program 24-01-02).	0~64800 seconds	90 seconds	24-01-01
11	**Hold Recall CallBack Time (Non Exclusive Hold)** A trunk recalling from Hold or Park rings an extension for this time. This time works with Hold Recall Time or Park Hold Time. After this time, the system invokes the Hold Recall Time again. Cycling between time Program 24-01-01 and 24-01-02 and Program 24-01-06 and 24-01-07 continues until a user answers the call.	0~64800 seconds	30 seconds	24-01-02
12	**Exclusive Hold Recall Time** A call left on Exclusive Hold recalls the extension that placed it on Hold after this time.	0~64800 seconds	90 seconds	24-01-03
13	**Exclusive Hold Recall Callback Time** An Exclusive Hold Recall rings an extension for this time. If not picked up, the call goes back on System Hold.	0~64800 seconds	30 seconds	24-01-04
14	**Park Hold Time – Normal** A call left parked longer than this time recalls the extension that initially parked it.	0~64800 seconds	90 seconds	24-01-06
15	**Delayed Call Forwarding Time (Call Forward No Answer)** If activated at an extension, Delayed Call Forwarding occurs after this time. This also sets the time a Transferred call waits at an extension forwarded to Voice Mail before routing to the called extension mailbox.	0~64800 seconds	10 seconds	24-02-03

Item No.	Item	Input Data	Default	Related Programming
16	**Transfer Recall Time** An unanswered transferred call recalls after this time to the extension that initially transferred it.	0~64800 seconds	30 seconds	24-02-04
17	**VRS/DISA No Answer Time (Disconnect or IRG or VM)** A VRS/DISA caller can ring an extension for this time before the system sets the call as a Ring No Answer. After this time expires, the call follows the programmed Ring No Answer routing (set in Program 25-03 and 25-04).	0~64800 seconds	0 seconds	25-07-02
18	**Disconnect after Re-transfer to IRG**	0~64800 seconds	60 seconds	25-07-03
19	**Long Conversation Warning Tone Time (Trunk to Trunk)** Determine the time a DISA caller or any trunk-to-trunk (such as Tandem Trunking) conversation can last before the Long Conversation tone is heard.	0~64800 seconds	3600 seconds	25-07-07
20	**Long Conversation Disconnect (Trunk to Trunk)** This determines the time the system waits before disconnecting a DISA caller or any trunk-to-trunk (such as Tandem Trunking) conversation call after the Long Conversation tone is heard.	0~64800 seconds	10 seconds	25-07-08
21	**DISA Internal Paging Time** This is the maximum length of an Internal Page placed by a DISA caller. If the Page continues longer than this time, the system terminates the DISA call.	0~64800 seconds	30 seconds	25-07-09
22	**DISA External Paging Time** This is the maximum length of an External Page placed by a DISA caller. If the Page continues longer than this time, the system terminates the DISA call.	0~64800 seconds	30 seconds	25-07-10
23	**Page Announcement Duration** This timer sets the maximum length of Page announcements. (Affects External Paging only)	0~64800 seconds	1200 seconds	31-01-02
24	**Mobile Extension Answer Time**	0 = Immediate Answer 1~64800(sec)	3	22-01-12
25	**Mobile Extension Callback Duration Time**	1~64800(sec)	15	22-01-16

Conditions

- These timers are used when an extension or trunk is assigned to a class from 1 to 15 in 20-29-01 or 20-30-01. When the timer class is set to 0, the system-wide timer is used.
- All defaults are the same as the system-wide timers.

Feature Cross Reference

None

Program 20 : System Option Setup

20-34 : Remote Conference Group Setting

Level: IN

Description

Use **Program 20-34: Remote Conference Group Setting** to configure Remote Conference parameters.

Input Data

Item No.	Item	Input Data	Default
01	**Remote Conference - Name** Set name for remote conference.	Up to 12 characters.	Default for conferences 1~4 = Conf 1-Conf 4 Default for conferences 5~20 = blank
02	**Remote Conference - Password** Set password for remote conference.	Up to 4 numbers.	Default for conferences 1 = 1111 2 = 2222 3 = 3333 4 = 4444 Default for conferences 5 ~20 = blank
03	**Remote Conference - Maximum Participants** Set the maximum number of allowed participants for each conference.	0 ~ 32	Default for conferences 1~4 = 8 Default for conferences 5 ~20 = 0
04	**Remote Conference - Maximum Conference Duration** Set the time limit (in seconds) for each conference.	0 ~ 64800sec	7200
05	**Remote Conference - Ending Conference Alert Tone Time** Set the time for the conference end time alert tone to be played.	0 ~ 64800sec	300
06	**Remote Conference - Password Mode** Set whether users are prompted to enter a password to access the conference. Normal will prompt users to enter a password. If set to Skip no password is required to enter a conference. If set to Schedule, the InScheduler application will be able to access the area and directory in Item 02 above.	0 = Normal 1 = Skip 2 = Schedule	0

Input Data

Item No.	Item	Input Data	Default
07	**MCU Mode for Remote Conference** Set the MCU video mode for remote conference. Mode 1 = CIF (352x288) Mode 2 = VGA (640x480)	0 = Disable 1 = Mode 1 2 = Mode 2	0
08	**Conference Group Setup - Automatic Recording** Enable or disable automatic recording for a Remote Conference. If disabled, a line key must be used to start recording.	0 = Disable 1 = Enable	0
09	**Conference Group Setup - Destination Mail Box** Enter the mailbox number where recordings are to be stored. Note: This is the mailbox number **not** the extension number for a mailbox.	Enter mailbox number (1 ~ 896)	Not Set
10	**Conference End Day and Month**	0101 (Jan-1) ~ 1231 (Dec 31)	Blank
11	**Conference End Time**	0000 (00:00) ~ 2359 (23:59)	Blank

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-35 : Extension's Operator Setting

Level: IN

Description

Use **Program 20-35 : Extension's Operator Setting** to assign an extension to an operator group.

Input Data

Extension Number	Up to eight digits

Item No.	Item	Input Data	Default
01	**Extension's Operator Setting**	0~15	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-36 : Trunk's Operator Setting

Level: IN

Description

Use **Program 20-36 : Trunk's Operator Setting** to assign a trunk to an operator group.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default
01	**Trunk's Operator Setting** Allow the user to select Operator Group per trunk.	0~15 (0 = Not assigned)	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-37 : Operator Extension Group Setup

Level: IN

Description

Use **Program 20-37 : Operator Extension Group Setup** to define the operator(s) in the operator group.

Input Data

Operator Group	1~15

Operator Number	1~8

Item No.	Item	Input Data	Default
01	**Operator Extension Group Setup**	Up to eight digits	None

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-38 : Operator Group Setting

Level: IN

Description

Use **Program 20-38 : Operator Group Setting** to set up priority of a call when calling an operator telephone.

Input Data

Operator Group	1~15

Item No.	Item	Input Data	Default
01	**Operator Access Mode** Assign if the operator is called, starting with the first operator, every time (0) or a different operator is tried first (1).	0 = Step 1 = Circular	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-44 : Watch Mode Setup

Level: IN

Description

Use **Program 20-44 : Watch Mode Setup** to set system options for Watch Message.

Input Data

Operator Group	1~15

Item No.	Item	Input Data	Default
01	**Internal Paging Group for Watch Message** Define Internal Paging Group Number for Watch Mode.	0 = No Internal Paging 1 = 1 ~ 64 (Paging Group)	0
02	**External Paging Group for Watch Message** Define External Paging Group Number for Watch Mode.	0 = No Internal Paging 1 = 1 ~ 8 (Paging Group)	0
03	**VRS Message for Watch Mode** Define VRS number used for Watch Message.	0 = Warning Tone 1 ~ 100 (VRS Message Number)	0
04	**Interval Timer for Watch Message** Define Interval Time for sending Watch Message.	0 = No Message 1 ~ 60 (min)	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-45 : Remote Watch Setup

Level: IN

Description

Use **Program 20-45 : Remote Watch Setup** to configure Remote Monitor settings.

Input Data

Terminal	1~6

Item No.	Item	Input Data	Default
01	**Ring Terminal for Remote Monitor**	Extension Number (Up to 8 digits)	No Setting
02	**Ring Time Setting**	0000~2359	00:00
03	**Ring Timer**	0~60	0
04	**Auto Dial Number Area Setting**	0~9999	9999
05	**VRS Answer for Message**	0~100	0
06	**VRS Message for Auto Dial**	0~100	0
07	**Time of Repeat Auto Dial**	0~255	0
08	**Auto Dial Calling Time**	0, 10~3600	0
09	**Interval of Auto Dial**	0, 10~3600	0

Conditions
None

Feature Cross Reference

None

Program 20 : System Option Setup

20-46 : Security Sensor Setup

Level: IN

Description

Use **Program 20-46 : Security Sensor Setup** to set system Security Sensor options.

Input Data

Security Sensor Number	1~8

Item No.	Item	Input Data	Default
01	**Sensor Mode**	0 = Off 1 = On	0
02	**Internal Paging Group for Warning Message**	0 = No Internal Paging 1 ~ 64 Paging Group	0
03	**External Paging Group for Warning Message**	0 = No External Paging 1 ~ 8 (Paging Group)	0
04	**VRS Message for Warning**	0 = Warning Tone 1~100 (VRS Warning No.)	0
05	**Auto Dial Number Area Setting**	0~9999	9999
06	**VRS Message for Answer**	0 = Warning Tone 1~100 (VRS Warning No.)	0
07	**Auto Dial Wait Timer**	0 = Report Immediately 1~64800 (sec)	10
08	**Time of Repeat Auto Dial**	0 = No Repeat 1~255 (times)	3
09	**Auto Dial Call TIme**	0 = No Report 1~3600 (sec)	120
10	**Monitored Terminal**	Extension Number (Up to 8 digits)	No Setting
11	**Interval of Auto Dial**	0 ~ 3600	0
12	**General Contact Detector Circuit Setup**	0 = Not Used 1~8 (Detector Circuit Numbers)	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-47 : Time Pattern Setting for Watch Mode

Level: IN

Description

Use **Program 20-47 : Time Pattern Setting for Watch Mode** to assign the Watch Mode time pattern.

Input Data

Item No.	Item	Input Data	Default
01	**Watch Mode** Define the Watch Mode on/off against time pattern 1~8.	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-48 : Time Pattern Setting for Security Sensor

Level: IN

Description

Use **Program 20-48 : Time Pattern Setting for Security Sensor** to assign the Security Sensor time pattern.

Input Data

Item No.	Item	Input Data	Default
01	**Security Sensor** Define the Security Sensor on/off against time pattern 1~8.	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-53 : Night Mode Group Assignment for Power Save Group

Level: IN

Description

Use **Program 20-53 : Night Mode Group Assignment for Power Save Group** to assign the Night Mode Service Group Number into the Power Save Group.

Index Data

Power Save Group	1~32

Input Data

Item No.	Item	Input Data	Default
01	**Night Mode Service Group Number** Related PRG12-02-XX, PRG20-54.	1 ~ 32	1

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-54 : Power Supply Mode for each Power Save Group

Level: IN

Description

Use **Program 20-54 : Power Supply Mode for each Power Save Group** to assign the Power Saving Mode in each Power Saving group and Night mode.

Index Data

Power Save Group	1~32

Input Data

Item No.	Item	Input Data	Default
01	**Power Saving Mode**	0 = Power Cut 1 = Power Supply	1

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-55 : Delay Timer for Security Sensor

Level: IN

Description

Use **Program 20-55 : Delay Timer for Security Sensor** to set the interval for the Sensor Delay Timer.

Input Data

Item No.	Item	Input Data	Default
01	**Sensor Delay Timer** The sensor starts after waiting the interval of time set in this setting. A setting of 0 results in immediate start.	0 ~ 3600 (sec) (0 = Immediate start)	60

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-56 : Call Logging Setup

Level: IN

Description

Use **Program 20-56 : Call Logging Setup** to define the destination for the recorded voice when the external IP live recording device is connected through a VoIPDB.

Input Data

Item No.	Item	Input Data	Default
01	**--- Not Used ---**		
02	**RTP Destination IP Address** Assign the IP address for the recording device.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.25	0.0.0.0
03	**RTP Destination Port** Assign the destination port.	0~65535	52000

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-57 : UC User Information Settings

Level: IN

Description

Use **Program 20-57 : UC User Information Settings** to define the user information settings used in UC.

Index Data

User Information Table Number	**1~255**

Input Data

Item No.	Item	Input Data	Default
01	User ID	Up to 16 characters	No setting
02	Password	Up to 16 characters GCD-CP20: The password needs to be 8 or more characters in length, contain at least one upper case letter, one lower case letter and one number.	No setting
03	Last Name	Up to 16 characters	No setting
04	Last Name	Up to 16 characters	No setting
07	Last Name	Up to 16 characters	No setting
08	Last Name	Up to 16 characters	No setting
09	Last Name	Up to 16 characters	No setting
10	Last Name	Up to 16 characters	No setting
11	Last Name	Up to 16 characters	No setting
12	Last Name	Up to 16 characters	No setting
13	Last Name	Up to 16 characters	No setting
14	Last Name	Up to 16 characters	No setting
15	Last Name	Up to 16 characters	No setting
16	Last Name	Up to 16 characters	No setting
17	Last Name	Up to 16 characters	No setting

Input Data

Item No.	Item	Input Data	Default
18	Last Name	Up to 16 characters	No setting
19	Last Name	Up to 16 characters	No setting
20	Last Name	Up to 16 characters	No setting
21	Last Name	Up to 16 characters	No setting
22	Last Name	Up to 16 characters	No setting
23	Last Name	Up to 16 characters	No setting
24	Last Name	Up to 16 characters	No setting
41	Extension Number	Dial (Up to eight digits)	No setting
42	Language setting for InUC Web Client	0 Japanese 1 English 2 German 3 French 4 Italian 5 Spanish 6 Dutch 7 Portuguese 8 Norwegian 9 Danish 10 Swedish 11 Turkish 12 Romanian 13 Polish 14 Russian 15 Simplified Chinese 16 Traditional Chinese 17 Thai 18 Vietnamese 19 Bahasa Indonesia 20 Bahasa Malaysia 21 Latin American Spanish 22 Brazilian Portuguese 23 Language23 24 Language24 25 Language25 26 Language26 27 Language27 28 Language28 29 Language29 30 Language30 ✎ *Version 10.00 or higher required on numbers 20~22.*	1

Input Data

Item No.	Item	Input Data	Default
43	Extension Number of Browser Phone Extension number of the browser phone related to the UC account. While a UC client is on-line, the change is not applied.	Up to 8 digits	No setting

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-58 : UC Server Presence Settings

Level: IN

Description

Use **Program 20-58 : UC Server Presence Settings** to define the site's Presence states.

Input Data

Item No.	Item	Input Data	Default
01	UC Server Presence States: In the Office	0 = Disable 1 = Enable	1
02	UC Server Presence States: On Vacation	0 = Disable 1 = Enable	1
03	UC Server Presence States: Business Travel	0 = Disable 1 = Enable	1
04	UC Server Presence States: In a Meeting	0 = Disable 1 = Enable	1
05	UC Server Presence States: Out to Lunch	0 = Disable 1 = Enable	1
06	UC Server Presence States: Sick	0 = Disable 1 = Enable	1
07	UC Server Presence States: Gone for the Day	0 = Disable 1 = Enable	1
08	UC Server Presence States: Out of the Office	0 = Disable 1 = Enable	1
09	UC Server Presence States: Unavailable	0 = Disable 1 = Enable	1
10	UC Server Presence States: Unknown	0 = Disable 1 = Enable	1
11	UC Server Custom Presence Usage	0 = Disable 1 = Enable	0
12	UC Server Custom Presence 1 Definition	Any characters	User Defined 1
13	UC Server Custom Presence 1 Use	0 = Disable 1 = Enable	0

Input Data

Item No.	Item	Input Data	Default
14	UC Server Custom Presence 2 Definition	Any characters	User Defined 2
15	UC Server Custom Presence 2 Use	0 = Disable 1 = Enable	0
16	UC Server Custom Presence 3 Definition	Any characters	User Defined 3
17	UC Server Custom Presence 3 Use	0 = Disable 1 = Enable	0
18	UC Server Custom Presence 4 Definition	Any characters	User Defined 4
19	UC Server Custom Presence 4 Use	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-59 : UC Server User Settings

Level: IN

Description

Use **Program 20-59 : Server User Settings** to define UC users and their permissions within the UC Client.

Index Data

User Settings Table Number	1 ~ 896

Input Data

Item No.	Item	Input Data	Default
01	UC User ID	Any character	No setting
02	UC User Password	Any character	No setting
03	UC - DT Client	0 = Disable 1 = Enable	0
04	UC - DT Web Client	0 = Disable 1 = Enable	0
05	UC - Deskset Extension	0 ~ 9, *, #	No setting
06	UC - Softphone Extension	0 ~ 9, *, #	No setting
07	UC - IM- Allow	0 = Disable 1 = Enable	1
08	UC - Shared Data Allow	0 = Disable 1 = Enable	0
09	UC - Global Presence Change Allow	0 = Disable 1 = Enable	0
10	UC - Message Feature Allow	0 = Disable 1 = Enable	1
11	UC - Phone Monitor Allow	0 = Disable 1 = Enable	0
12	UC - Block to be Monitored	0 = Disable 1 = Enable	0

Input Data

Item No.	Item	Input Data	Default
13	UC - Server Connect	0 = Disable 1 = Enable	1
14	UC - License Level	0 = Softphone 1 = Deskset 2 = Softphone + Deskset	1
15	UC - Login Mode	0 = Softphone 1 = Deskset	1
16	UC - Attendant Mode	0 = Disable 1 = Enable	0
17	UC - Trial Mode	0 = Disable 1 = Enable	0
18	UC - Voicemail Interface	0 = Disable 1 = Enable	1
19	UC - Agent Mode	0 = Disable 1 = Enable	0
20	UC - Abandon Callback	0 = Disable 1 = Enable	0
21	UC - CRM Integration	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-60 : UC Server Telephony Settings

Level: IN

Description

Use **Program 20-60 : UC Server Telephony Settings** to define special telephony options for the UC Server.

Input Data

Item No.	Item	Input Data	Default
01	UC Server Consult Call for Immediate Transfer	0 = Disable 1 = Enable	0
02	UC Server Emergency Number	0 ~ 9, *, #	911

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-61 : UC Server Call Alerts Feature Settings

Level: IN

Description

Use **Program 20-61 : UC Server Call Alerts Feature Settings** to define the Abandon Call Alerts settings in the UC Server.

Input Data

Item No.	Item	Input Data	Default
01	UC Server Abandon Call Alerts	0 = Disable 1 = Enable	0
02	UC Server Minimum Wait Time	00:00 ~ 23:59	00:00
03	UC Server Clear Call Timer	00:00 ~ 23:59	00:00
04	UC Server Clear Call If Matching Caller ID Returns to Queue	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-62 : UC Exception Table

Level: IN

Description

Use **Program 20-62 : UC Exception Table** to set the Exception Table parameters.

Index Data

User Exception Table Number	1 ~ 99

Input Data

Item No.	Item	Input Data	Default
01	Dial Data	0 ~ 9, *, #	No Setting

Conditions
None

Feature Cross Reference

None

Program 20 : System Option Setup

20-63 : Multi-Device Group Setup

Level: IN

Description

Use **Program 20-63 : Multi-Device Group Setup** to define Pilot Extension Number and Member Extension Number for the Multi-Device Group. It also defines the Multi-Device Mode change for Multi-Device Group.

Index Data

Group Number	1 ~ 256

Input Data

Item No.	Item	Input Data	Default
01	Pilot Extension Number	Maximum 8 digits	No Setting
02	Member Extension Number 1	Maximum 8 digits	No Setting
03	Member Extension Number 2	Maximum 8 digits	No Setting
04	Member Extension Number 3	Maximum 8 digits	No Setting
05	Member Extension Number 4	Maximum 8 digits	No Setting
06	Member Extension Number 5	Maximum 8 digits	No Setting
07	Member Extension Number 6	Maximum 8 digits	No Setting
08	Member Extension Number 7	Maximum 8 digits	No Setting
09	Multi-Device Mode Change	0 = Off 1 = On	Off

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-64 : UC Web Application Setting

Level: SA

Description

Use **Program 20-64 : UC Web Application Setting** to set the UC Web application.

Input Data

Item No.	Item	Input Data	Default
01	**Web Conference Duration Timer**	0 ~ 64800	7200
02	**End Alert for Web Conference**	0 ~ 64800	300
03	**IM Port Number**	0 ~ 65535	0
04	**Allow Bland Password**	0 = Not Allow 1 = Allow	0 = Not Allow
05	**Enter Key Operation at Editing IM** When set to **0: Newline**, the Enter key will make a new line. Use Ctrl+Enter to send IM. When set to **1: Send IM**, use the Enter key to send an IM and Ctrl+Enter to make a newline.	0 = Newline 1 = Send IM	1
06	**Register Port of Browser Phone** Register port of browser phone, when set to0, the InUC web client cannot use the browser phone mode.	0-65535	0
07	**Internal Port of Browser Phone** Top of the internal port for the browser phone. When not 0, 512 port which continues from a set port is reserved. For example, when this port number is 50000, 50000 ~ 50511 ports are reserved. When it is 0, InUC web client cannot use the browser phone mode. ✎ *When an input check detects a duplicate port, an input error occurs.*	0-65024	0

Input Data

Item No.	Item	Input Data	Default
08	**Internal Forwarded Port of Browser Phone** Top of the internal forwarded port for the browser phone. When not 0, 460 port which continues from a set port is reserved. For example, when this port number is 10020, 10020 ~ 10479 ports are reserved. When it is 0, InUC web client cannot use the browser phone mode. ✎ *When an input check detects a duplicate port, an input error occurs.*	0-65076	0

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-65 : Multi-Device Group Setup (Terminal Information)

Level:
MF

Description

Use **Program 20-65 : Multi-Device Group Setup (Terminal Information)** to set the Multi-Device parameters.

Input Data

Item No.	Item	Input Data	Default
01	Pilot Extension Number	0 : MDG Attach 1 : MDG Detach	No Setting
02	Member Extension Number 1	0 : MDG Attach 1 : MDG Detach	No Setting
03	Member Extension Number 2	0 : MDG Attach 1 : MDG Detach	No Setting
04	Member Extension Number 3	0 : MDG Attach 1 : MDG Detach	No Setting
05	Member Extension Number 4	0 : MDG Attach 1 : MDG Detach	No Setting
06	Member Extension Number 5	0 : MDG Attach 1 : MDG Detach	No Setting
07	Member Extension Number 6	0 : MDG Attach 1 : MDG Detach	No Setting
08	Member Extension Number 7	0 : MDG Attach 1 : MDG Detach	No Setting

Conditions
None

Feature Cross Reference

None

Program 20 : System Option Setup

20-66 : STUN/TURN Server Setting

Level:
MF

Description

Use **Program 20-66 : STUN/TURN Server Setting** to set the STUN/TURN Server parameters.

Input Data

Item No.	Item	Input Data	Default
01	**Server Type** Define the Server type as Disable, STUN or TURN	0 = Disable 1 = STUN 2 = TURN	0
02	**IP Address / Server Name** Define the IP Address or Server Name	Max. 128 characters	No Setting
03	**Port Number** Define the port number of the Server	0 ~ 65535	3478
04	**Authentication Name** Set the authentication name if the server needs authentication, otherwise leave blank.	Max. 32 characters	No Setting
05	**Password** Set the Password if the server needs authentication, otherwise leave blank	Max. 32 characters	No Setting

Conditions
None

Feature Cross Reference

None

Program 20 : System Option Setup

20-67 : Security Appliance Setup

Level:
MF

Description

Use **Program 20-67 : Security Appliance Setup** to specify a destination of a Security Appliance.

Input Data

Item No.	Item	Input Data	Default
01	**IP Address**	0.0.0.0-126.255.255.254 128.0.0.1-191.255.255.254 192.0.0.1-223.255.255.254	0.0.0.0
02	**Port Number**	0 ~ 65535	0

Conditions
None

Feature Cross Reference

None

Program 20 : System Option Setup

20-68 : Night Mode Group Assignment for Multi-Device

Level:
IN

Description

Use **Program 20-68 : Night Mode Group Assignment for Multi-Device** to assign a Day/Night Mode Group for each Multi-Device Group.

Index Data

Group Number	1 ~ 256

Input Data

Item No.	Item	Input Data	Default
01	**Night Mode Group**	1~32	1

Conditions
None

Feature Cross Reference

➥ **Multi-Device Support**

Program 20 : System Option Setup

20-69 : Multi-Device Group Setup by Night Mode

Level:
IN

Description

Use **Program 20-69 : Multi-Device Group Setup by Night Mode** to assign a Day/Night Mode Group for each Multi-Device Group.

Index Data

Group Number	1 ~ 256

Input Data

Item No.	Item	Input Data	Default
01	**Day/Night Mode: 1~8**	State: 0 = Off 1 = On	1

Conditions
None

Feature Cross Reference

Multi-Device Support

Program 20 : System Option Setup

20-70 : Custom Presence Status Setting

Level: IN

Description

Use **Program 20-70 : Custom Presence Status Setting** to set up the Custom Presence Status for InUC web application.

Input Data

Item No.	Item	Input Data	Default
01	**Icon**	0 = arrow 1 = asterisk 2 = at 3 = bed 4 = coffee 5 = book 6 = building 7 = lock 8 = mobile 9 = subway	0
02	**Icon Color**	0 = Green 1 = Orange 2 = Red	0
03	**Status Name**	Up to 16 characters	Blank

Conditions

None

Feature Cross Reference

None

Program 20 : System Option Setup

20-71 : Web Conference for InScheduler

Level:
IN

Description

Use **Program 20-71 : Web Conference for InScheduler** to control web conference resources from InScheduler. This is changed by XMLPro.

Input Data

Item No.	Item	Input Data	Default
01	**Conference ID** ID of Web conference for InScheduler. When this content is set, SV9100 holds the conference room.	Up to 32 characters	No Setting
02	**Duration Time** Web conference duration (sec). When this timer expires, this room is closed. If set to 0, the duration has no limit.	0 - 64800 (sec)	0

Conditions
None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-01 : System Options for Outgoing Calls

Level: IN

Description

Use **Program 21-01 : System Options for Outgoing Calls** to set the system options for Outgoing Call Service.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Seizure Trunk Line Mode** Select the trunk based off the Trunk Route Priority (0) or based off the trunk that has not been used in the longest time (1).	0 = Priority Route 1 = Circular Route	0	14-05 14-06
02	**Intercom Interdigit Time** When placing Intercom calls, an extension user must dial each digit in this time.	0~64800 (sec)	10	
03	**Trunk Interdigit Time (External)** The system waits for this time to expire before placing the call in a talk state (Call Timer starts after time expires, Voice Over and Barge-In are not allowed until after time expires).	0~64800 (sec)	5	14-02-08
04	**Dial Tone Detection Time** If dial tone detection is enabled, the system waits this time for the Telco to return dial tone. When the time expires, the system assumes dial tone is not present. To disable this time (and have the system wait continuously), enter 0.	0~64800 (sec)	5	14-02-05

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
05	**Disconnect Time when Dial Tone not Detected** If 14-02-11 is enabled, the system skips over a trunk if dial tone is not detected. This option pertains to calls placed using Speed Dial, ARS, Last Number Redial or Save Number dialed. It does not pertain to line key or Direct Trunk Access calls.	0~64800 (sec)	3	
06	**Dial Pause at First Digit**	0~64800 (sec)	1	
07	**Toll Restriction Override Time** After dialing the Toll Restriction Override codes, the system removes Toll Restriction from the extension for this time.	0~64800 (sec)	10	20-08-06 21-07
08	**Preset Dial Display Hold Time**	0~64800 (sec)	10	
09	**Ringdown Extension Timer (Hotline Start)** A Ringdown extension automatically calls its programmed destination after this time.	0~64800 (sec)	5	20-08-09 21-11
10	**Dial Digits for Toll Restriction Path** If this option is programmed with an entry other than 0, a call does not have a talk path unless the user dials at least the number of digits entered in this option when placing an outgoing call. This means that an entry of 4 or higher in this program causes a problem when dialing 911(USA only). Since it is only a 3-digit number, the call does not have a talk path, preventing the emergency dispatcher from hearing the caller. This option should be kept at its default setting of 0 to prevent any problems with dialing 911 (USA only).	0~24	0	
11	**Inter-Digit Time for Toll Restriction Path Control**	0~60	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
12	**Dial E911 Routing Without Trunk Access** If enabled (1), an extension user can dial 911 (USA only) without first dialing a trunk access code or pressing a line key. If disabled (0), an extension user must dial a trunk access code (e.g., 9) or press a line key before dialing 911 (USA only).	0 = Trunk Access Code Required 1 = Trunk Access Code Not Required	1	
13	**Alarm Ring Timer (E911)** Set the duration of the E911 Alarm Ring Time. If set for 0, the E911 Alarm does not ring.	0, 1~64800 (sec) (0 = Off)	0	11-12-56 20-08-16
14	**Forced Account Code Inter-digit Timer** The system waits this time for a user to enter a Forced Account code.	0~64800 (sec)	3	
15	**Outgoing Disable on Incoming Line (Toll Restriction)** Enable/Disable the Outgoing Disable on Incoming Line feature.	0 = Disable (Off) 1 = Enable (On)	0	15-01-05 21-01-16 21-01-17
16	**Supervise Dial Detection Timer** With the Outgoing Disable on Incoming Line feature, if dial tone is not detected after the extension answers an incoming line, the system determines the call is unable to complete and releases the DTMF receiver.	0~64800 (sec)	20	15-01-05 21-01-16 21-01-17
17	**Restriction Digit in Outgoing Disable on Incoming Line** With the Outgoing Disable on Incoming Line feature, determine the number of digits to be dialed before the call should be disconnected.	Digits 1~9	4	15-01-05 21-01-15 21-01-16
18	**Reset Dial After Failure of Trunk Access** Enable/Disable the ability to continue to dial codes or extensions after receiving Trunk Busy. This must be set to 1 for the Forced Trunk Disconnect feature to work.	0 = Enable (On) 1 = Disable (Off)	1	
19	**Do-Not-Call Setup**	0 = No Service 1 = Extended Common Restriction	0	

Conditions

None

Feature Cross Reference

➥ **Central Office Calls, Placing**

Program 21 : Outgoing Call Setup

21-02 : Trunk Group Routing for Extensions

Level: IN

Description

Use Program **21-02 : Trunk Group Routing for Extensions** to assign Program 14-06 routes to extensions.

Input Data

Extension Number	001 ~ 960

Item No.	Day/Night Mode	Route Table Number	Default	Related Program
01	1~8	0~100 (0 = No Setting)	1	14-06 14-01-07

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-03 : Trunk Group Routing for Trunks

Level: IN

Description

Use **Program 21-03 : Trunk Group Routing for Trunks** to set the Trunk Route Table for Automatic External Call Forward. The Route Table is set in Program 14-06.

Input Data

Trunk Port Number	001~400

Item No.	Day/Night Mode	Route Table Number	Default	Related Program
01	1~8	0~100 (0 = No setting)	1	14-06 14-07-01

Conditions

None

Feature Cross Reference

➥ **Trunk Group Routing**

Program 21 : Outgoing Call Setup

21-04 : Toll Restriction Class for Extensions

Level: IN

Description

Use **Program 21-04 : Toll Restriction Class for Extensions** to assign a Toll Restriction class to an extension. The details of Toll Restriction are defined in Program 21-05 and 21-06.

NOTE — ***A telephone and a trunk have a Restriction Class. The higher class applies for outgoing calls.***

Input Data

Extension Number	001 ~ 960

Item No.	Day/Night Mode	Restriction Class	Default	Related Program
01	1~9 9 = (Power Failure Mode)	1~15	2	14-01-08 21-05

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-05 : Toll Restriction Class

Level: IN

Description

Use **Program 21-05 : Toll Restriction Class** to set the system Toll Restriction classes (1~15).

Input Data

Toll Restriction Class Number	1~15

Item No.	Item	Input Data	Default	Description	Related Program
01	**International Call Restriction Table**	0 = Unassigned (No) 1 = Assigned (Yes)	1, 6~15 = 0 2~5 = 1	Assign/Unassign the International Call Restrict Table for the Toll Restriction Class you are programming. Enter International Call Restrict Table data in Program 21-06-01.	21-06-01
02	**International Call Permit Code Table**	0 = Unassigned (No) 1 = Assigned (Yes)	1, 3~15 = 0 2 = 1	Assign/Unassign the International Call Permit Table for the Toll Restriction Class you are programming. Enter International Call Permit Table data in Program 21-06-02.	21-06-02
03	**--- Not Used ---**				
04	**Maximum Number of Digits Table Assignment**	1~4 = Table 0 = Disable (None)	1, 2, 6~15 = 0 3 = 1 4 = 2 5 = 3	Select the table (defined in 21-06-03) to be used to determine the maximum number of digits allowed for outgoing calls.	21-06-03
05	**Common Permit Code Table**	0 = Unassigned (No) 1 = Assigned (Yes)	1, 8~15 = 0 2~7 = 1	Choose whether the table set up by 21-06-04 is referred to or not.	21-06-04
06	**Common Restriction Table**	0 = Unassigned (No) 1 = Assigned (Yes)	1, 6~15 = 0 2~5 = 1	Choose whether the table set up by 21-06-05 is referred to or not.	21-06-05

Item No.	Item	Input Data	Default	Description	Related Program
07	**Permit Code Table**	1~4 = Table 0 = Disable (None)	1, 2, 6~15 = 0 3 = 1 4 = 2 5 = 3	Set the tables 1~4 when referring to the table set up by 21-06-06.	21-06-06
08	**Restriction Table**	1~4 = Table 0 = Disable (None)	1, 2, 6~15 = 0 3 = 1 4 = 2 5 = 3	Set the tables 1~4 when referring to the table set up by 21-06-07.	21-06-07
09	**Restriction for Common Speed Dials**	0 = Does Not Restrict 1 = Following Restriction Check	0	Enable/Disable Toll Restriction for Common Speed Dialing numbers. If enabled, System Speed Dialing numbers have the same restrictions as manually dialed numbers.	
10	**Restriction for Group Speed Dials**	0 = Does Not Restrict 1 = Following Restriction Check	0	Enable/Disable Toll Restriction for Group Speed Dialing numbers. If enabled, Group Speed Dialing numbers have the same restrictions as manually dialed numbers.	
11	**Intercom Call Restriction**	0 = Disable (No) 1 = Enable (Yes)	0	Determine if incoming intercom calls are restricted.	
12	**PBX Call Restriction**	0 = Disable (No) 1 = Enable (Yes)	1~6, 8~15 = 0 7 = 1	Set how the system Toll Restricts calls over PBX trunks. If you enable PBX Toll Restriction, the system begins Toll Restriction after the PBX access code. The user cannot dial a PBX extension. If you disable PBX Toll Restriction, the system only restricts calls that contain the PBX access code. The system does not restrict calls to PBX extensions. Refer to the PBX compatibility feature. Make sure Program 21-05-04 (Maximum Number of Digits Table Assignment) allows for PBX Toll Call Dialing (normally 12 digits).	
13	**Restriction of Tie Line Calls**	0 = Disable (No) 1 = Enable (Yes)	0	Enable/Disable the toll restriction of the dial set up by 34-08.	34-08

Default

	Toll Restriction Class														
Item	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
01: International Call Restrict Table	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0
02: International Call Permit Table	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
03: --- Not Used ---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04: Max. No. Digits Table Assign.	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0
05: Common Permit Table	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0
06: Common Restrict Table	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0
07: Permit Code Table	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0
08: Restrict Code Table	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09: Restriction for Common Abbr. Dials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10: Restriction for Group Abbr. Dials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11: Intercom Call Restriction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12: Restriction of PBX Calls	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
13: Restriction of Tie Line Calls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14: Restriction for Incomplete Dialed Trunk Transfer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15: Allow the Outgoing Trunk to Common Hold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-06 : Toll Restriction Table Data Setup

Level: IN

Description

Use **Program 21-06 : Toll Restriction Table Data Setup** to set the system Toll Restriction data. Dial 1~9, 0, ∗, # can be entered in each table.

Input Data

Item No.	Item	Table	Input Data	Default	Description
01	**International Call Restriction Table**	1~10	Dial (Up to four digits)	Tables 1~10 = No Setting	Program the Restrict Table for international calls. The system has 10 International Call Restrict Tables. Each entry can have up to four digits.
02	**International Call Permit Code Table**	1~20	Dial (Up to six digits)	Tables 1~20 = No Setting	Program the Permit Table for international calls. The system has 20 International Call Permit Tables. Each entry can have up to six digits.
03	**Maximum Number Digits Table Assignment**	1~4	4~30	Tables 1~ 4 = 30	Select the maximum number of digits allowed in outgoing calls for each table.
04	**Common Permit Code Table**	1~10	Dial (Up to four digits)	Table 1 = 911 Table 2 = 1800 Table 3 = 1888 Table 4 = 1822 Table 5 = 1833 Table 6 = 1844 Table 7 = 1855 Table 8 = 1866 Table 9 = 1877 Table 10 = No Setting	Program the Common Permit Code Table. This table contains up to 10 codes you commonly allow users to dial.
05	**Common Restriction Table**	1~10	Dial (Up to 12 digits)	Table 1 = 900 Table 2 = 1900 Table 3 = 976 Tables 4 ~ 10 = No Setting	Program the Common Restrict Code Table. This table contains up to 10 codes you commonly prevent users from dialing.

Input Data (Continued)

Item No.	Item	Table	Input Data	Default	Description
06	**Permit Code Table**	1~4 (table) 001~200 (Entry)	Dial (Up to 12 digits)	Table 1~4 = No Setting	Program the Permit Code Tables. If the system has Toll Restriction enabled, users can dial numbers only if permitted by these tables and the Common Permit Table (21-06-04). There are four Permit Code Tables, with up to 200 entries in each table. The system permits calls exactly as you enter the code.
07	**Deny Restriction Table**	1~4 (table) 1~60 (Entry)	Dial (Up to 12 digits)	Table 1~4 = No Setting	Program the Restrict Code Tables. If the system has Toll Restriction enabled, users cannot dial numbers listed in these tables. There are four Restrict Code Tables, with up to 200 entries in each table. The system restricts calls exactly as you enter the code.
08	**PBX Access Code**	1~4	Dial (Up to two digits)	Table 1~4 = No Setting	Enter the PBX Access Code. When the system is behind a PBX, this is the code users dial to access a PBX trunk. Toll Restriction begins after the PBX access code. For PBX trunks (Program 14-04) the system only Toll Restricts calls that contain the access code. Always program this option when the system is behind a PBX, even if you don't want to use Toll Restriction. PBX Access Codes can have up to two digits, using 0-9, #, ✱ and LINE KEY 1 (don't care). When using Account Codes, do not use an asterisk in a PBX access code. Otherwise, after the ✱, the trunk stops sending digits to the central office. Entries 1~4 correspond to the 4 PBX Access Codes. Each code can have up to two digits.
09	**Specific Dial Outgoing Code**	1~20	Dial (Up to eight digits)	No Setting	

Input Data (Continued)

Item No.	Item	Table	Input Data	Default	Description
10	**Outgoing Call Code Setup**	1~20	Dial (Up to four digits)	No Setting	

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-07 : Toll Restriction Override Password Setup

Level: SA

Description

Use **Program 21-07 : Toll Restriction Override Password Setup** to assign Toll Restriction Override codes to extension ports. Each code must have four digits, using any combination of 0~9, # and ∗. Each extension can have a separate code, or many extensions can share the same override code.

Input Data

Extension Number	001 ~ 960

Item No.	Password	Default	Related Program
01	Four Digits (Fixed)	No Setting	21-01-07 20-08-06

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-08 : Repeat Dial Setup

Level: IN

Description

Use **Program 21-08 : Repeat Dial Setup** to define the automatic Repeat Dial data.

Input Data

Item No.	Item	Input Data	Default
01	**Repeat Redial Count** Set how many times a Repeat Redial automatically repeats if the call does not go through.	0~255	3
02	**Repeat Redial Interval Time** Set the time between Repeat Redial attempts.	0~64800 (sec)	60
03	**Repeat Dial Calling Timer** After dialing the trunk call, Repeat Redial maintains the call after this time. After this time, the system terminates the call, waits the Repeat Redial Time (Timer 02) and tries again.	0~64800 (sec)	30
04	**Time for Send Busy Tone for ISDN Trunk** Set the time to send out Busy Tone with an ISDN line, when called party is busy.	0~64800 (sec)	0

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-09 : Dial Block Setup

Level: IN

Description

Use **Program 21-09 : Dial Block Setup** to define the Dial Blocking Toll Restriction Class and Dial Block Password to be used by the Supervisor extension.

Input Data

Item No.	Item	Input Data	Default
01	**Toll Restriction Class With Dial Block** Assign a Toll Restriction Class of Service when the Dial Block feature is used.	1~15	15
02	**Supervisor Password** Assign a 4-digit password to be used by the supervisor to enable or disable Dial Block for other extensions.	0~9, ✱, # (4-digit fixed)	No Setting

Conditions

- This function works by password and Class of Service control (the supervisor is not an assigned extension). If Dial Block is available for all Classes of Service, everyone may become a supervisor if they know the Dial Block password.

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-10 : Dial Block Restriction Class Per Extension

Level: IN

Description

Use **Program 21-10 : Dial Block Restriction Class Per Extension** to define the Toll Restriction Class to each extension when the extension is set for Dial Block Restriction. If this data is 0, Toll Restriction Class follows Program 21-09-01.

Input Data

Extension Number	001~960

Item No.	Toll Restriction Class	Default
01	0, 1~15 (0 = No Setting)	0

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-11 : Extension Ringdown (Hotline) Assignment

Level: IN

Description

Use **Program 21-11 : Extension Ringdown (Hotline) Assignment** to define the Hotline destination number for each extension number.

Input Data

Extension Number	001 ~ 960

Item No.	Hotline Destination Number	Default	Related Program
01	0, ∗, #, Pause, Hook Flash, @ (Code to wait for answer supervision) (maximum 24 digits)	No Setting	20-08-09 21-01-09

Conditions

- Use the @ code to make an outbound call automatically to a DISA Trunk or to VM Auto Attendant. This code can be used only on ISDN outbound calls. Internal calls and analog outbound calls are not supported.

Feature Cross Reference

➥ **Ringdown Extension, Internal/External**

Program 21 : Outgoing Call Setup

21-12 : ISDN Calling Party Number Setup for Trunks

Level: IN

Description

Use **Program 21-12 : ISDN Calling Party Number Setup for Trunks** to assign Calling Party Numbers for each trunk (maximum 16 digits per entry). When a call is made by an extension which does not have an Extension Calling Number assigned (Program 21-13), the system sends the calling number for the ISDN trunk defined in 21-12.

NOTE *If the Calling Party Number is assigned in both Programs 21-12 and 21-13, the system sends the data in Program 21-13.*

Input Data

Trunk Port Number	001~400

Item No.	Calling Party Number Data	Default
01	1~0, ∗, # (maximum 16 digits)	No Setting

Conditions

None

Feature Cross Reference

➥ **ISDN Compatibility**

Program 21 : Outgoing Call Setup

21-13 : ISDN Calling Party Number Setup for Extensions

Level: IN

Description

Use **Program 21-13 : ISDN Calling Party Number Setup for Extensions** to assign each extension a Calling Party Number (maximum 16 digits per entry). The calling number is the subscriber number of the dial-in number. When a call is made by an extension which does not have an Extension Calling Number assigned (Program 21-13), the system sends the calling number for the ISDN trunk defined in Program 21-12.

NOTE — *If a Calling Party Number is assigned in both Programs 21-12 and 21-13, the system sends the data in Program 21-13.*

Input Data

Extension Number	001 ~ 960

Item No.	Calling Party Number Data	Default
01	0~9, ∗, # (Max. 16 digits)	No setting

Conditions

None

Feature Cross Reference

➥ **ISDN Compatibility**

Program 21 : Outgoing Call Setup

21-14 : Walking Toll Restriction Password Setup

Level: SA

Description

Use **Program 21-14 : Walking Toll Restriction Password Setup** to assign the password and Toll Restriction Class for Walking Toll Restriction. Each code has six digits, using any combination of 0~9, **#** and ∗.

Input Data

ID Table Number	1~500

Item No.	Item	Input Data	Default
01	User ID	Dial (Six digits)	No Setting
02	Walking Toll Restriction Class Number	1~15	1

Conditions

None

Feature Cross Reference

➥ **Toll Restriction**

Program 21 : Outgoing Call Setup

21-15 : Individual Trunk Group Routing for Extensions

Level: IN

Description

Use **Program 21-15 : Individual Trunk Group Routing for Extensions** to designate the alternate trunk access route accessed when a user dials the Alternate Trunk Route Access Code. Refer to Program 11-09 : Trunk Access Code when setting up alternate trunk codes. Refer to 14-06 : Trunk Group Routing to set up the trunk routes. When entering data for this option, enter the route number or 0 to prevent routing.

Input Data

Extension Number	001 ~ 960

Item No.	Day/Night Mode	Route Table Number	Default
01	1~8	0~100 (0 = No Setting)	0

Conditions

None

Feature Cross Reference

➥ **Central Office Calls, Placing**

Program 21 : Outgoing Call Setup

21-16 : Trunk Group Routing for Networking

Level: IN

Description

Use **Program 21-16 : Trunk Group Routing for Networking** to assign Program 14-06 routes for a networked system. This is required to seize the trunk in a networked system (Extension in System A tries to make an external call using a trunk in System B).

The route number is specified for each system ID (01~50).

Input Data

System ID	01~50

Item No.	Day/Night Mode	Route Table Number	Default	Related Program
01	1~8	0~100 (0 = No Setting)	1	14-06-01

Conditions

None

Feature Cross Reference

- **Central Office Calls, Placing**
- **Networking, NetLink**
- **Networking**

Program 21 : Outgoing Call Setup

21-17 : IP Trunk (SIP) Calling Party Number Setup for Trunk

Level: IN

Description

Use **Program 21-17 : IP Trunk (SIP) Calling Party Number Setup for Trunk** set the SIP calling party number for individual trunks.

Input Data

Trunk Port Number	001~400

Item No.	Description	Input Data	Default
01	**IP Trunk (SIP) Calling Party Number Setup for Trunk**	Up to 16 digits (0~9, ✱, #)	None

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-18 : IP Trunk (H.323) Calling Party Number Setup for Extension

Level: IN

Description

Use **Program 21-18 : IP Trunk (H.323) Calling Party Number Setup for Extension** to assign the Calling Party Number for each extension. The assigned number is sent to the exchange when the caller places an outgoing call.

NOTE — *When the Calling Party Number is assigned by PRG 21-17, 21-18 and 21-19, the system uses the data in PRG 21-18 and PRG 21-19.*

Input Data

Extension Number	001 ~ 960

Item No.	Description	Input Data	Default
01	**IP Trunk (H.323) Calling Party Number Setup for Extension**	Up to 16 digits (0~9, ∗, #)	None

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-19 : IP Trunk (SIP) Calling Party Number Setup for Extension

Level: IN

Description

Use **Program 21-19 : IP Trunk (SIP) Calling Party Number Setup for Extension** to set the SIP calling party number for an individual extension.

Input Data

Extension Number	001 ~ 960

Item No.	Description	Input Data	Default	Related Program	Profile 1~6
01	**IP Trunk (SIP) Calling Party Number Setup for Extension**	Up to 16 Digits (0~9, ∗, #)	None	15-01-04 20-08-13	

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-21 : Toll Restriction for Trunks (Seized Trunk Basis Setting)

Level: IN

Description

Use **Program 21-21 : Toll Restriction for Trunks (Seized Trunk Basis Setting)** to define the toll restriction class to each trunk. The details of toll restriction are defined by PRG 21-05 and 21-06.

This program is compared to Station Restriction Class. The higher class is applied.

Input Data

Trunk Port Number	001~400

Item No.	Description	Input Data	Default	Related Program
01	**Restriction Class** Enter the Toll Restriction Class for the selected trunk.	1~15	1	14-01-08 21-05

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-22 : CO Message Waiting Indication – Call Back Settings

Level: IN

Description

Use **Program 21-22 : CO Message Waiting Indication – Call Back Settings** to define the settings of CO Message Waiting Indication.

Input Data

Trunk	001~400

Item No.	Description	Input Data	Default
01	**CO MWI Call Back Enabling** Enable/Disable CO MWI Call Back.	0 = No VMWI Service 1 = Enable VMWI Service	0
02	**CO MWI Call Back Number Area Setting** Define the Speed Dial Bin number for MWI Call Back.	0000~9999	9999

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-25 : Expansion Calling Party Setup for Extension

Level: IN

Description

Use **Program 21-25 : Expansion Calling Party Setup for Extension** to define CLI number to an extension. This program is used only when PRG14-01-38 is set to '2'.

Input Data

Extension	001~960

Item No.	Description	Input Data	Default
01	**Expansion Calling Party Setup for Extension** Related Programs: 15-01-04, 20-08-13, 14-01-38	0, 1~9, ∗, # (Max. 16 characters)	None

Conditions

None

Feature Cross Reference

None

Program 21 : Outgoing Call Setup

21-29 : Flexible Caller ID Notification List

Level: IN

Description

Use **Program 21-29 : Flexible Caller ID Notification List** to set calling party number display for the trunks using service code.

Input Data

List No.	01~50 01~100 (Version 10.00 or higher)

Item No.	Description	Input Data	Default
01	**Calling Party Number**	0~9, ∗, # (Max. 16 characters)	Blank
02	**Trunk Group**	1~100	1

Conditions

None

Feature Cross Reference

➥ **Caller ID**

Program 22 : Incoming Call Setup

22-01 : System Options for Incoming Calls

Level: IN

Description

Use **Program 22-01 : System Options for Incoming Calls** to define the system options for incoming calls.

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	**Incoming Call Priority**	0 = Intercom Call Priority 1 = Trunk Call Priority	1	Determine if Intercom calls or trunk calls have answer priority when both are ringing simultaneously.	15-02-22
02	**Incoming Call Ring No Answer Alarm**	0 = Disable (Off) 1 = Enable (On)	0	If enabled, an incoming call that rings longer than the Ring No Answer Alarm (22-01-03), changes to a unique ring cadence to indicate that the call has been ringing too long. If disabled, this does not occur.	22-01-03 22-01-04
03	**Ring No Answer Alarm Time**	0~64800 (sec)	60	If a trunk rings a multiline telephone longer than this time, the system changes the ring cadence. This indicates to the user that the call has been ringing too long.	22-01-02
04	**DIL No Answer Recall Time**	0~64800 (sec)	0	A DIL that rings its programmed destination longer than this time diverts to the DIL No Answer Ring Group (set in Program 22-08).	
05	**--- Not Used ---**				
06	**DID Ring-No-Answer Time**	0~64800 (sec)	20	In systems with DID Ring-No-Answer Intercept, this sets the Ring-No-Answer time. This is the time a DID call rings the destination extension before rerouting to the intercept ring group.	22-12
07	**DID Incoming Ring Group No Answer Time**	0~64800 (sec)	20		
08	**DID Pilot Call No Answer Time**	0~64800 (sec)	60		

Input Data (Continued)

Item No.	Item	Input Data	Default	Description	Related Program
09	**DID to Trunk to Trunk no answer timer**	0~64800 (sec)	20		
10	**VRS Waiting Message Operation**	0 = Enable Always 1 = Change by Manual Operation	0	Set up the operation mode for Auto Attendant and Queuing Message.	22-14 22-15 22-08 22-04 22-01-04 20-15-11 15-07
11	**VRS Waiting Message Interval Time**	0~64800 (sec)	20	Set up the sending duration time of the Auto – Attendant & Queuing. The message is repeatedly sent out during the specified time.	22-14-06 22-15-06 41-11-06
12	**Mobile Extension Answer Time**	0 = Immediate Answer [1~64800(sec)]	3	Set up the system answering time when receiving an incoming call from target Mobile Extension.	15-22-04
13	**2nd Caller Indication CLI**	0 = Not Displayed 1 = Display	1	When a multiline terminal is busy and another trunk call is received with Caller ID, this setting specifies whether the incoming caller's Caller ID is displayed.	

Conditions

None

Feature Cross Reference

➥ **Central Office Calls, Answering**

Program 22 : Incoming Call Setup

22-02 : Incoming Call Trunk Setup

Level: IN

Description

Use **Program 22-02 : Incoming Call Trunk Setup** to assign the incoming trunk type for each trunk. There is one item for each Night Service Mode.

Input Data

Trunk Port Number	001~400

Item No.	Day/ Night Mode	Incoming Type	Default	Description	Related Program
01	1~8	0 = Normal 1 = VRS (second dial tone if no VRS installed) 2 = DISA 3 = DID 4 = DIL 5 = E&M Tie line 6 = Delayed VRS 7 = ANI/DNIS 8 = DID(DDI) Mode Switching	0	Set the feature type for the trunk you are programming.	14-04

Conditions

- When connecting to T1 trunks, after changing Program 22-02-01 to match the Telco connected T1 service type, the T1 cable or the T1 blade must be unplugged and then reconnected for the T1 blade to sync.
- When the trunk type is set to 3 (DID), the DID Transfer to Destination in 22-11-04 for each DID feature is not supported. This feature is supported only for DID trunks when assigned as VRS.
- When the trunk type is set to 3 (DID), the DID Intercept Destination feature for each DID is not supported. This feature is supported only for DID trunks assigned as VRS.

Feature Cross Reference

➥ **Central Office Calls, Answering**

Program 22 : Incoming Call Setup

22-03 : Trunk Ring Tone Range

Level: IN

Description

Use **Program 22-03 : Trunk Ring Tone Range** to select the ring tone range for the trunk. The trunk uses a ring tone in the range selected when it rings an extension. Eight ring tones are available. Customize the Trunk Ring Tones in Program 82-01.

Input Data

Trunk Port Number	001~400

Item No.	Ring Tone Pattern	Default	Description	Related Program
01	0~3 = Tone Pattern 1~4 4~8 = Melody 1~5 9~12 = Tone Pattern 5~8	0	Select the ring tone range for the trunk. The trunk uses a ring tone in the range selected when it rings an extension. Eight ring tones are available.	15-02
02	0 = Follow PRG 22-03-01 1 = Music Ring1 2 = Music Ring 2 3 = Music Ring 3	0	This program is used only when PRG 15-02-78 is set to 'Enable'. When PRG 15-02-78 is set to 'Disable', use PRG 22-03-01 instead of this program.	15-02-78 22-03-01

Table 2-9 Program 22-03 – Incoming Signal Frequency Patterns

Incoming Signal Frequency Pattern	Type	Frequency 1	Frequency 2	Modulation
Pattern 1	High Middle Low	1100Hz 660Hz 520Hz	1400Hz 760Hz 660Hz	16Hz 16Hz 16Hz
Pattern 2	High Middle Low	1100Hz 660Hz 520Hz	1400Hz 760Hz 660Hz	8Hz 8Hz 8Hz
Pattern 3	High Middle Low	2000Hz 1400Hz 1100Hz	760Hz 660Hz 540Hz	16Hz 16Hz 16Hz

Table 2-9 Program 22-03 – Incoming Signal Frequency Patterns

Incoming Signal Frequency Pattern	Type	Frequency 1	Frequency 2	Modulation
Pattern 4	High Middle Low	2000Hz 1400Hz 1100Hz	760Hz 660Hz 540Hz	8Hz 8Hz 8Hz
Pattern 5	High Middle Low	1400Hz 760Hz 660Hz	540Hz 540Hz 540Hz	16Hz 16Hz 16Hz
Pattern 6	High Middle Low	1400Hz 760Hz 660Hz	540Hz 540Hz 540Hz	8Hz 8Hz 8Hz
Pattern 7	High Middle Low	2000Hz 2000Hz 1100Hz	1100Hz 540Hz 760Hz	16Hz 16Hz 16Hz
Pattern 8	High Middle Low	2000Hz 2000Hz 1100Hz	1100Hz 540Hz 760Hz	8Hz 8Hz 8Hz

Conditions

None

Feature Cross Reference

➥ **Selectable Ring Tones**

Program 22 : Incoming Call Setup

22-04 : Incoming Extension Ring Group Assignment

Level: SA

Description

Use **Program 22-04 : Incoming Extension Ring Group Assignment** to assign extensions to Ring Groups. Calls ring extensions according to Ring Group programming. Use Program 22-05 to assign trunks to Ring Groups and use Program 22-06 to set the ringing for the phones. An Incoming Ring Group (IRG) can have up to 48 extension numbers assigned.

NOTE *There are 100 available Ring Groups.*

Input Data

Incoming Ring Group Number	1~100

Input Data

Incoming Ring Group Extension	1~48 (default 1)

Item No.	Extension Number	Description	Related Program
01	Maximum 8 Digits	Assign extensions (up to 48) to Ring Groups. Calls ring extensions according to Ring Group programming.	22-02 22-05 22-06

Default

Extensions 101~108 (first eight ports) ring for incoming Ring Group 1 calls. No other extensions ring for incoming Ring Group 1 calls.

Conditions

None

Feature Cross Reference

Ring Groups

Program 22 : Incoming Call Setup

22-05 : Incoming Trunk Ring Group Assignment

Level: IN

Description

Use **Program 22-05 : Incoming Trunk Ring Group Assignment** to assign trunks to incoming Ring Groups.

NOTE *There are 100 available Ring Groups.*

Input Data

Trunk Port Number	001~400

Item No.	Day/Night Mode	Incoming Group Number	Default	Description	Related Program
01	1~8	0 = No Setting 001~100 (Incoming Group) 102 (In-Skin/ External Voice Mail or VM8000 InMail)	1	Assign Normal Ring Trunks (22-02) to Incoming Ring Groups (22-04).	22-04 22-06

Conditions

None

Feature Cross Reference

➥ **Ring Groups**

Program 22 : Incoming Call Setup

22-06 : Normal Incoming Ring Mode

Level: IN

Description

Use **Program 22-06 : Normal Incoming Ring Mode** to define whether or not an extension should ring for the Normal Incoming Ring Mode.

Input Data

Extension Number	001 ~ 960

Item No.	Day/Night Mode	Incoming Group Number	Default	Related Program
01	1~8	0 = No Ring 1 = Ring	1	22-04 22-05

Conditions

None

Feature Cross Reference

➥ **Central Office Calls, Answering**

Program 22 : Incoming Call Setup

22-07 : DIL Assignment

Level: IN

Description

Use **Program 22-07 : DIL Assignment** to assign the destination extension or Department Calling Group for each DIL Incoming trunk. A DIL rings an extension directly, without any other Access Map or Ring Group programming. If an extension has a line key, the DIL rings the line key. If the extension does not have a line key, the DIL rings CAP keys. Use Program 22-02 to designate a trunk as a DIL. You can make eight DIL assignments, one for each Night Service mode.

Input Data

Trunk Port Number	001~400

Item No.	Day/Night Mode	Number of Transferring Destination	Default
01	1~8	Extension Number (maximum eight digits) Pilot Number	No Setting

Conditions

Program 22-02 must be set to four for the trunk.

Feature Cross Reference

➥ **Direct Inward Line (DIL)**

Program 22 : Incoming Call Setup

22-08 : DIL/IRG No Answer Destination

Level: IN

Description

For DIL Delayed Ringing, use **Program 22-08 : DIL/IRG No Answer Destination** to assign the DIL No Answer Ring Group. An unanswered DIL rings this group after the DIL No Answer Time expires (Program 22-01-04). DIL Delayed Ringing can also reroute outside calls ringing a Ring Group.

Make eight assignments, one for each Night Service mode.

Input Data

Trunk Port Number	001~400

Item No.	Day/Night Mode	Incoming Group Number	Default
01	1~8	0 = No Setting 001~100(Incoming Ring Group) 102 (In-Skin/ External Voice Mail or VM8000 InMail)	1

Conditions

None

Feature Cross Reference

- Direct Inward Line (DIL)
- Ring Group

Program 22 : Incoming Call Setup

22-09 : DID Basic Data Setup

Level: IN

Description

Use **Program 22-09 : DID Basic Data Setup** to define the basic setting of Dial-In incoming calls for each trunk group.

Input Data

Trunk Group Number	001~100

Item No.	Item	Input Data	Default
01	**Expected Number of Digits** Enter the number of digits the table expects to receive from the telco. Use this program to make the system compatible with 3- and 4-digit DID service. If ISDN trunks, we analyze the last digits that are set here. If it is T-1 or analog DID, it analyzes the first digits that are assigned here.	1~8	4
02	**Received Vacant Number Operation** Enable/Disable Vacant Number Intercept.	0 = Disconnect (Cut) 1 = Transfer (Refer to Program 22-12 : DID Intercept Ring Group on page 2-398.)	0

03	**Sub-Addressing Mode**	0 = Extension # Specify (Intercom)
		1 = DID Conversion Table
			0

04	**DID Receiving Mode for ISDN**	0 = Enbloc Receiving 1 = Overlap Receiving	0
05	**Local Code Digits** (Only Overlap Receiving Mode)	0~15 (0 = No Local Code)	0
06	**Local Code** (Only Overlap Receiving Mode)	Dial (maximum 16 digits)	No Setting
07	**Pilot Code** (Only Overlap Receiving Mode)	Dial (1 digit: 0~9)	No Setting

Item No.	Item	Input Data	Default
08	**T302 Time-out Operation** (Only Overlap Receiving Mode)	0 = Disconnect (Cut) 1 = Transfer (Refer to Program 22-12 : DID Intercept Ring Group on page 2-398.)	0

Conditions
None

Feature Cross Reference

➥ **Direct Inward Dialing (DID)**

Program 22 : Incoming Call Setup

22-10 : DID Translation Table Setup

Level: IN

Description

Use **Program 22-10 : DID Translation Table Setup** to specify the size of the DID Translation Tables. There are 2000 Translation Table entries that you can allocate among 20 Translation Tables.

Input Data

Conversion Table Area Number	01~20

Item No.	Item	Input Data
01	1st Area Setup (Start Address)	0~4000 0 = No Setting
	1st Area Setup (End Address)	Default Table
	2nd Area Setup (Start Address)	Default Table
	2nd Area Setup (End Address)	Default Table

Default Table

Conversion Table Area	1st		2nd	
	Start Table	End Table	Start Table	End Table
1	1	100	0	0
2	101	200	0	0
3	201	300	0	0
4	301	400	0	0
:	:	:	:	:
20	0	0	0	0

Conditions

None

Feature Cross Reference

➥ **Direct Inward Dialing (DID)**

Program 22 : Incoming Call Setup

22-11 : DID Translation Number Conversion

Level: SA

Description

Use **Program 22-11 : DID Translation Table Number Conversion** to specify for each Translation Table entry (4000).

- ❑ The digits received by the system (eight maximum)
- ❑ The extension the system dials after translation (24 digits maximum)
- ❑ The name that should show on the dialed extension display when it rings (12 characters maximum)
- ❑ The Transfer Target – 2 and 3

NOTE — ***If the Transfer Targets are busy or receive no answer, those calls are transferred to the final transfer destination (Program 22-10).***

- ❑ Operation Mode

Use the following chart when entering and editing text for names. Press the key once for the first character, twice for the second character, etc. For example, to enter a C, press 2 three times.

Table 2-10 Keys for Entering Names

Key for Entering Names	
When entering names in the procedures below, refer to this chart. Names can have up to 12 digits.	
Use this keypad digit . . .	**When you want to. . .**
1	Enter characters: 1 @ [¥] ^ _ ` {|} → ← Á À Â Ã Ç É Ê ì ó
2	Enter characters: **A-C, a-c, 2**.
3	Enter characters: **D-F, d-f, 3**.
4	Enter characters: **G-I, g-i, 4**.
5	Enter characters: **J-L, j-l, 5**.
6	Enter characters: **M-O, m-o, 6**.
7	Enter characters: **P-S, p-s, 7**.

Table 2-10 Keys for Entering Names (Continued)

Key for Entering Names (Continued)	
When entering names in the procedures below, refer to this chart. Names can have up to 12 digits.	
Use this keypad digit . . .	**When you want to. . .**
8	Enter characters: **T-V, t-v, 8**.
9	Enter characters: **W-Z, w-z, 9**.
0	Enter characters: 0 ! “ # $ % & ’ ( ) ô ◘ ú ä ö ü α ε θ
∗	Enter characters: ∗ + , - . / : ; < = > ? π Σ σ Ω ∞ ◘ ◘
#	**#** = Accepts an entry (only required if two letters on the same key are needed - ex: TOM). Pressing **#** again = Space. (In system programming mode, use the right arrow soft key instead to accept and/or add a space.)
CONF	Clear the character entry one character at a time.
HOLD	Clear all the entries from the point of the flashing cursor and to the right.

Input Data

Conversion Table Number	1~4000

Item No.	Item	Input Data	Default
01	**Received Number** This is the received DID digits.	Maximum eight digits	No Setting
02	**Target Number** Enter the destination number to which the DID number is sent.	Maximum 24 digits	No Setting
03	**DID Name** Enter the name to be displayed on an inbound DID call. On a call that is transferred or forwarded this name will not appear until the call has been answered. Only a direct DID call will display this name in a ringing state.	Maximum 12 characters	No Setting

Item No.	Item	Input Data	Default
04	**Transfer Operation Mode**	0 = No Transfer 1 = Busy 2 = No Answer 3 = Busy/No Answer	0
05	**Transfer Destination Number 1**	0 = No Setting 1~100 = Incoming Group 102 = In-Skin/External Voice Mail or InMail 201~264 = Extension Group 201~328 = Extension Group: Version 10.00 or higher 400 = DID 401 = DISA 501~599 = DISA/VRS Message 1000~1999 = Speed Dial Number (000~999)	0
06	**Transfer Destination Number 2** 400 – Allow the outside party to dial a different extension number in the translation table (for example, ring no answer to a dialed number, the caller then hears a dial tone, allowing them to enter another Valid Extension Number). 401– Provide the caller with DISA dialing options (requires using the DISA password). ➡ *This applies to 22-11-05 and 22-11-06.*		0
07	**Call Waiting** PRG 20-09-07 overrides this setting.	0 = Disable (No) 1 = Enable (Yes)	0
08	**Maximum Number of DID Calls**	0 ~ 400 (0 = No Limit)	0
09	**Music on Hold Source**	0 = IC/MOH Port 1 = BGM Port 2 = ACI Port	0
10	**ACI Music Source Port**	When a sound source type is 2 in above : (0~96)	0
11	**Ring Group Transfer** Enable/Disable each conversation table ability to follow the Ring Group programming defined in Program 22-12-01 : DID Intercept Ring Group. If Program 22-11-05 : DID Translation Number Conversion, Transfer Destination Number 1 and Program 22-11-06 : DID Translation Number Conversion, Transfer Destination Number 2 are set, the priority of transferring is in this order: Program 22-11-05 then Program 22-11-06 then if Program 22-11-11 is enabled, Program 22-12-01.	0 = Disable (Caller hears Ringback) 1 = Enabled (Go to normal ring)	1
13	**Identify for Mobile Extension** Enable/Disable if when a Mobile Extension number calls in on this DID will it provide Internal Tone (1) or route the call as programmed (0).	0 = Off 1 = On	0

Item No.	Item	Input Data	Default
16	**Private Call Refuse**	0: Follow PRG14-01-27 [TelPro]PRG140127 1: No Refuse 2: PrivateCall [TelPro]PrivCall 3: PayPhone 4: OutOfArea 5: Priv&Pay 6: Priv&OOA 7: Pay&OOA 8: ALL	0

Conditions

When the trunk type is set to 3 (DID) in 22-02-01, the DID Transfer Destination for each DID feature is not supported. This feature is supported only for DID trunks when assigned as VRS.

Feature Cross Reference

➥ **Direct Inward Dialing (DID)**

Program 22 : Incoming Call Setup

22-12 : DID Intercept Ring Group

Level: IN

Description

For each DID Translation Table, use **Program 22-12 : DID Intercept Ring Group** to define the first destination group for DID calls.

Depending on the entry in Program 22-09-02 and 22-11-04, the incoming calls route to the first destination group by the following:

- ❑ Vacant number intercept (vacant number means that no phone is connected, no station blade is installed, or the extension number is not defined in Program 11-02)
- ❑ Busy intercept
- ❑ Ring-no-answer intercept

If the destination is 0, the calls are forwarded to the trunk ring group defined in Program 22-11 based on the table assigned to the DID trunk.

NOTE

If Programs 22-11-05 and 22-11-06 are set, the priority of transferring is in this order: Program 22-11-05 + Program 22-11-06 + Program 22-12.

For busy and no-answer calls, if the first and third destinations are programmed, but the second destination is not, the incoming call goes to the third destination after the first destination. If the first and second destinations are not defined, but the third destination is, the call goes directly to the third destination.

Input Data

Conversion Table Area Number	01~20

Item No.	Day/Night Mode	Incoming Group Number	Default
01	1~8	0 = No Setting 1~100 (Incoming Ring Group) 102 (In-Skin/External Voice Mail or InMail)	1

Conditions

None

Feature Cross Reference

➥ **Direct Inward Dialing (DID)**

Program 22 : Incoming Call Setup

22-13 : DID Trunk Group to Translation Table Assignment

Level: IN

Description

Use **Program 22-13 : DID Trunk Group to Translation Table Assignment** to assign the DID Trunk Groups to DID Translation Tables. DID trunks should be in their own group. If you have more than one type of DID trunk, put each type in a separate Trunk Group. For each Trunk Group, you make a Translation Table entry for each Night Service mode.

Input Data

Trunk Group Number	1~100

Item No.	Day/Night Mode	Conversion Table Area Number	Default
01	1~8	0~20 0 = No Setting	1

Conditions

None

Feature Cross Reference

➥ **Direct Inward Dialing (DID)**

Program 22 : Incoming Call Setup

22-14 : VRS Delayed Message for IRG

Level: IN

Description

Use **Program 22-14 : VRS Delayed Message for IRG** (Incoming Group Ring) to define for each incoming ring group the timers, VRS message number and type of tone for VRS Waiting Message.

Input Data

Incoming Ring Group Number	1~100

Item No.	Item	Input Data	Default	Related Program
01	**1st Delayed Message Start Time** Time before the VRS Delay Message is played for IRG.	0~64800 (sec)	0	
02	**1st Delayed Message Number** VRS message that is used for the 1st Delayed Message.	0~101 0 = No Message 101 = Fixed Message	0	
03	**1st Delayed Message Sending Count** This is the number of times the 1st Delay Message is played. If set to 0, the 1st Delay Message is not played.	0~255 (time)	0	22-01-11
04	**2nd Delayed Message Number** VRS message that is used for the 2nd Delayed Message.	0~101 0 = No Message 101 = Fixed Message	0	22-01-11
05	**2nd Delayed Message Sending Count** This is the number of times the 2nd Delay Message is played. If set to 0, the 2nd Delay Message is not played.	0~255 (time)	0	
06	**Tone Kind at Message Interval** What is heard between the Delay Messages.	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0	
07	**Disconnect Time After the End of VRS Delayed Message** Time, after all 2nd Delay Messages are played, before the caller is disconnected.	0 = No Disconnect 1~64800 Seconds	60	

NOTE

Delay timer for repeat of message and start of 2nd delay message is set in Program 22-01-11: VRS Message Interval Time.

Conditions

None

Feature Cross Reference

None

Program 22 : Incoming Call Setup

22-15 : VRS Delayed Message for Department Group

Level: IN

Description

Use **Program 22-15 : VRS Delayed Message for Department Group** to define for each Department (Extension) Group the timers, VRS message number and tone kind for VRS Delayed Message. There are 64 or 128: Version 10.00 or higher available Department Groups.

Input Data

Extension Group Number	01~64 01~128 (Version 10.00 or higher)

Item No.	Item	Input Data	Default
01	**1st Delayed Message Start Time** Time before the VRS Delay Message is played for Department Group.	0~64800 (sec)	0
02	**1st Delayed Message Number** VRS message that is used for the 1st Delayed Message.	0~101 0 = No Message 101 = Fixed Message	0
03	**1st Delayed Message Sending Count** This is the number of times the 1st Delay Message is played. If set to 0, the 1st Delay Message is not played.	0~255 (time)	0
04	**2nd Delayed Message Number** VRS message that is used for the 2nd Delayed Message.	0~101 0 = No Message 101 = Fixed Message	0
05	**2nd Delayed Message Sending Count** This is the number of times the 2nd Delay Message is played. If set to 0, the 2nd Delay Message is not played.	0~255 (time)	0
06	**Tone Kind at Message Interval** What is heard between the Delay Messages.	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0

07	**Disconnect Time After the End of VRS Delayed Message** Time, after all 2nd Delay Messages are played, before the caller is disconnected.	0 = No Disconnect 1~64800 (sec)	60

Conditions

None

Feature Cross Reference

➥ **Department Group**

Program 22 : Incoming Call Setup

22-16 : Private Call Refuse Target Area Setup

Level: IN

Description

Use **Program 22-16: Private Call Refuse Target Area Setup** to define Speed Dial group number for Private Call Refuse.

Input Data

Item No.	Item	Input Data	Default
01	**Speed Dial Group Number**	0~64	0

Conditions

None

Feature Cross Reference

➥ **Department Group**

Program 22 : Incoming Call Setup

22-17 : Dial-In Conversion Table Area Setup for Time Pattern

Level: IN

Description

Use **Program 22-17: Dial-In Conversion Table Area Setup for Time Pattern** to define Time Zone and Dial-In Conversion Table (Program 22-11) for Time Pattern.

Input Data

Conversion Table Number	01~500

Item No.	Item	Input Data	Default
01	**Received Dial**	Up to 8 digits	No Setting
02	**Start of Time**	0000~2359 (Time)	0000
03	**End of Time**	0000~2359 (Time)	0000
04	**Dial-In Conversion Table Number**	0~4000	0
05	**Day of the Week**	0 = Off 1 = Sunday 2 = Monday 3 = Tuesday 4 = Wednesday 5 = Thursday 6 = Friday 8 = Saturday 9 = Holiday	1
06	**Time Schedule Pattern**	0 ~ 10	0

Conditions

None

Feature Cross Reference

None

Program 22 : Incoming Call Setup

22-18 : Private Call Assignment Setup

Level: IN

Description

Use **Program 22-18: Private Call Assignment Setup** to define assignment and incoming ring pattern for Private Calls.

Input Data

Item No.	Item	Input Data	Default
01	**Transfer Mode**	0 = Not defined 1 = Internal dial 2 = Incoming Ring Group	0
02	**Destination Number**	1 = Internal Dial (up to 24 digits) 0~9, ∗, #, P, R, @ 2 = Incoming Ring Group (0~100)	No Setting
03	**Incoming Ring Pattern**	0~13 0 = Normal pattern 1~4 = Tone pattern 1~4 5~9 = Scale pattern 10~13 = Tone Pattern 5~8	0

Conditions

None

Feature Cross Reference

None

Program 22 : Incoming Call Setup

22-20 : Flexible Ringing by Caller ID Setup

Level: IN

Description

Use **Program 22-20: Flexible Ringing by Caller ID Setup** to set flexible ringing by Caller ID per timer pattern mode.

Input Data

Trunk Port Number	01~400

Day/Night Mode	01~08

Item No.	Item	Input Data	Default
01	**Flexible Ringing**	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

None

Program 23 : Answer Features Setup

23-02 : Call Pickup Groups

Level: IN

Description

Use **Program 23-02 : Call Pickup Groups** to assign ▼ extensions to Call Pickup Groups. This program also lets you assign an extension Call Pickup Group priority. If two extensions in a group are ringing at the same time, Group Call Pickup intercepts the highest priority extension first.

NOTE *There are 64 available Call Pickup Groups.*

Input Data

Extension Number	1~960

Item No.	Group Number	Priority	Default	Description	Related Program
01	1~64	1~9999	1 – xxx	Assign extensions to Call Pickup Groups other than the extension group set up by a Program 16-02.	11-12-26 11-12-27 11-12-28 15-07-24 15-07-25 15-07-26

Conditions

- In order to enter a 2-digit Call Pickup Group, at least one extension must be assigned to a 2-digit group.

Feature Cross Reference

➥ **Group Call Pickup**

Program 23 : Answer Features Setup

23-03 : Universal Answer/Auto Answer

Level: IN

Description

Use **Program 23-03 : Universal Answer/Auto Answer** to assign trunk routes (set in Program 14-06) to extensions for Universal Answer. If the call ringing the paging system is in an extension assigned route, the user can dial the Universal Answer code (#0) to pick up the call.

You can also use this program to let an extension user automatically answer trunk calls that ring other extensions (not their own). When the user lifts the handset, they automatically answer the ringing calls based on Trunk Group Routing programming (defined in Program 14-06). The extension user ringing calls, however, always have priority over calls ringing other co-worker extensions. Refer to the Line Preference feature in the UNIVERGE SV9100 Features and Specifications Manual for more information.

NOTE *Make one entry for each Night Service mode.*

Input Data

Extension Number	001 ~ 960

Item No.	Day/ Night Mode	Route Table Number	Default	Description	Related Program
01	1~8	0~100	0	Let an extension user automatically answer trunk calls that ring other extensions. When the user lifts the handset, they automatically answer the ringing calls based on Trunk Group Routing programming (defined in Program 14-06).	14-06

Conditions

None

Feature Cross Reference

- Line Preference
- Night Service

Program 23 : Answer Features Setup

23-04 : Ringing Line Preference for Virtual Extensions

Level: IN

Description

Use **Program 23-04 : Ringing Line Preference for Virtual Extensions** to set the off-hook automatic response priority for calls ringing virtual extension keys on a telephone.

NOTE *There are 512 available Virtual Extension Ports.*

Input Data

Extension Number	001 ~ 960

Item No.	Order	Extension Group Number	Default	Description	Related Program
01	1~4	00~64 00~128 (Version 10.00 or higher) (0 or 00=Don't Care)	00	When an extension has a virtual extension assigned to a Programmable Function Key, this program determines the priority for automatically answering the ringing calls when the handset is lifted. If 0 or 00 is selected, the user can lift the handset to answer a ringing call from any group.	16-02 20-10-08

Conditions

None

Feature Cross Reference

➥ **Call Arrival Keys (CAR)/Secondary Incoming Extensions (SIE)/ Virtual Extensions (VE)**

Program 24 : Hold/Transfer Setup

24-01 : System Options for Hold

Level: IN

Description

Use **Program 24-01 : System Options for Hold** to define the system options for the Hold feature.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Hold Recall Time** A call on Hold recalls the extension that placed it on Hold after this time. This time works with the Hold Recall Callback Time (Item 2).	0~64800 (sec)	90	
02	**Hold Recall Callback Time** A trunk recalling from Hold or Park rings an extension for this time. This time works with Hold Recall Time or Park Hold Time. After this time, the system invokes the Hold recall time again. Cycling between time 01 and 02 and 06 and 07 continues until a user answers the call.	0~64800 (sec)	30	
03	**Exclusive Hold Recall Time** A call left on Exclusive Hold recalls the extension that placed it on Hold after this time.	0~64800 (sec)	90	
04	**Exclusive Hold Recall Callback Time** An Exclusive Hold Recall rings an extension for this time. If not picked up, the call goes back on System Hold.	0~64800 (sec)	30	
05	**Forced Release of Held Call** Depending on the setting of Program 14-01-16, the system disconnects calls on Hold longer than this time.	0~64800 (sec)	1800	14-01-16
06	**Park Hold Time – Normal** A call left parked longer than this time recalls the extension that initially parked it.	0~64800 (sec)	90	20-11-19

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
07	**Park Hold Time – Extended (Recall)** A call left parked longer than this time recalls the extension that initially parked it.	0~64800 (sec)	300	20-11-19

Conditions

None

Feature Cross Reference

- **Hold**
- **Park**

Program 24 : Hold/Transfer Setup

24-02 : System Options for Transfer

Level: IN

Description

Use **Program 24-02 : System Options for Transfer** to define the system options for the Transfer feature.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Busy Transfer** Enable/Disable extensions to Transfer calls to busy extensions. If disabled, calls transferred to busy extensions recall immediately.	0 = Disable (No) 1 = Enable (Yes)	1	
02	**MOH or Ringback on Transferred Calls** Enable/Disable MOH on Transfer. If set to 0, a transferred caller hears MOH while their call rings the destination extension. If set to 1, a transferred caller hears ringback while their call rings the destination extension.	0 = Hold Tone 1 = Ring Back Tone	0	20-03-02
03	**Delayed Call Forwarding Time** If activated at an extension, Delayed Call Forwarding occurs after this time. This also sets the time a Transferred call waits at an extension forwarded to Voice Mail before routing to the called extension mailbox.	0~64800 (sec)	10	
04	**Transfer Recall Time** An unanswered transferred call recalls to the extension that initially transferred it after this time.	0~64800 (sec)	30	
05	**Message Wait Ring Interval Time** For single line telephones (SLTs) without message waiting lamps, this is the time between intermittent ringing. If this value is set to 0, the system rings once.	0~64800 (sec)	30	

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
07	**Trunk-to-Trunk Transfer Release Warning Tone** Time starts when a trunk begins talking with another trunk (for example: trunk-to-trunk transfer, outgoing from trunk, Tandem Trunking). When this time expires, a warning tone is heard. If Program 24-02-10 is set, the conversation disconnects after time expires. This time is set again when the external digit timer expires. One of the trunks used must be an analog trunk (or leased line).	0~64800 (sec)	1800	14-01-25 20-28-01 20-28-02 20-28-03 24-02-10
08	**Delayed Transfer Time for all Department Groups**	0~64800 (sec)	10	11-11-28 11-11-29 15-07-59
09	**Two B-Channel Transfer Retry Timer**	1~30 (sec)	10	10-03-16 (PRI)
10	**Disconnect Trunk-to-Trunk**	0~64800 (sec)	0	14-01-25 20-28-01 20-28-02 20-28-03 24-02-07
11	**No Answer Step Transfer**	0~64800 (sec)	10	14-01-26
12	**No Answer Trunk-to-Trunk Transfer**	0~64800 (sec)	0	14-01-26
13	**Hook Flash Sending Timer When the System Answers Automatically** Time before sending the hook flash for Call Forward Centrex.	0~64800 (sec)	2	
15	**SIP Out of Range Timer** When not receiving any response within this timer setting, system determines SIP terminal is out of range. When set to 0, timer is invalid. ✎ *Change the default value to 8 seconds when using the push notification service.*	0~30 (sec)	4	

Conditions

None

Feature Cross Reference

➥ **Transfer**

Program 24 : Hold/Transfer Setup

24-03 : Park Group

Level: IN

Description

Use **Program 24-03 : Park Group** to assign an extension to a Park Group. The system allows a total of 64 Park Groups. An extension user can pick up only a call parked in orbit by an extension user in their own group.

Input Data

Extension Number	001 ~ 960

Item No.	Park Group Number	Default	Description	Related Program
01	1~64	1	Assign an extension to a Park Group. The system allows a total of 64 Park Groups.	15-07-01

Conditions

None

Feature Cross Reference

➥ **Park**

Program 24 : Hold/Transfer Setup

24-04 : Automatic Trunk-to-Trunk Transfer Target Setup

Level: IN

Description

Use **Program 24-04 : Automatic Trunk-to-Trunk Transfer Target Setup** to assign the Speed Dialing number bin which should be used as the destination of the Automatic Trunk-to-Trunk Transfer.

Input Data

Trunk Port Number	001~400

Item No.	Day/ Night Mode	Speed Dial Area Number	Default	Description	Related Program
01	1~8	0~9999	9999	The destination telephone number of the Trunk-to-Trunk Transfer uses the number registered into the Speed Dial. Use this program to setup the Speed Dial Bin Number.	11-10-08 13-04 24-05

Conditions

None

Feature Cross Reference

➥ **Call Forwarding, Off-Premise**

Program 24 : Hold/Transfer Setup

24-05 : Department Group Transfer Target Setup

Level: IN

Description

Use **Program 24-05 : Department Group Transfer Target Setup** to assign the Speed Dialing bin which is used as the destination of the extension for the Extension Group.

NOTE *There are 64 or 128 (Version 10.00 or higher) available Department Groups.*

Input Data

Extension Group Number	01~64 01~128 (Version 10.00 or higher)

Item No.	Day/ Night Mode	Speed Dial Area Number	Default	Description	Related Program
01	1~8	0~9999	9999	Use the Speed Dialing area to program the destination number of the transferred telephone number when a Department Group call is transferred using the Trunk-to-Trunk Forwarding feature.	11-11-27 13-04 24-04

Conditions

None

Feature Cross Reference

➥ **Transfer**

Program 24 : Hold/Transfer Setup

24-09 : Call Forward Split Settings

Level: IN

Description

Use **Program 24-09 : Call Forward Split Settings** to assign Call Forwarding Type and the destination number for each extension/virtual extension. The destination can have up to 24 digits, using 0~9, ∗, #, and P (P is a pause used for analog trunks). Be sure to include the trunk access code (e.g., 9) in the number if the destination is off-premise.

NOTE *A pause for analog trunks can be assigned by pressing Line Key 1.*

Input Data

Extension Number	001 ~ 960

Item No.	Input Data	Default
01	Call Forwarding Type: 0 = Call Forwarding Off 1 = Call Forwarding with both ring 2 = Call Forwarding when no answer 3 = Call Forwarding all calls 4 = Call Forwarding busy or no answer 5 = Call Forwarding when busy	0
02	CO Call Forwarding Destination for Both Ring, All Call, No Answer: 0~9, #, ∗, R, and P (Up to 24 digits)	No Setting
03	Intercom Call Forwarding Destination for Both ring, All Call, No Answer: 0~9, #, ∗, R, and P (Up to 24 digits)	No Setting
04	CO Call Forwarding Busy Destination: 0~9, #, ∗, R, and P (Up to 24 digits)	No Setting
05	Intercom Call Forwarding Busy Destination: 0~9, #, ∗, R, and P (Up to 24 digits)	No Setting

Item No.	Input Data	Default
06	Call Forwarding Destination for CTX/PBX for All Call, No Answer: 0~9, #, ✱, R, and P (Up to 24 digits)	None
07	Call Forwarding Destination for CTX/PBX for Busy: 0~9, #, ✱, R, and P (Up to 24 digits)	None

Conditions

None

Feature Cross Reference

➥ **Call Forwarding, Off-Premise**

Program 25 : VRS/DISA Setup

25-01 : VRS/DISA Line Basic Data Setup

Level: IN

Description

Use **Program 25-01 : VRS/DISA Line Basic Data Setup** to define the basic setting of each VRS/DISA line.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default	Related Program
01	**VRS/DISA Dial-In Mode**	0 = Extension Number Service Code Specify (Intercom) 1 = Use Dial Conversion Table	0	22-11
02	**DISA User ID**	0 = Off 1 = On	1	25-08
03	**VRS/DISA Transfer Alarm**	0 = Normal (Off) 1 = Alarm (On)	0	
04	**VRS/DISA Transfer Tone**	0 = Ring Back Tone 1 = MOH	0	10-04-04 10-04-05

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-02 : DID/DISA VRS Message

Level: IN

Description

Use **Program 25-02 : DID/DISA VRS Message** to assign the VRS message number to be used as the Automated Attendant Message for each trunk which is assigned as a VRS/DISA.

Input Data

Trunk Port Number	001~400

Item No.	Day/ Night Mode	Message (Talkie) Source	Additional Data	Default
01	1~8	0 = No Message 1 = VRS 2 = ACI 3 = Extension Group	1 = 01~100 (VRS Message Number) 2 = 01~16 (ACI Group Number) 3 = 01~64 3 = 001~128: Version 10.00 or higher (Extension Group Number)	0

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-03 : VRS/DISA Transfer Ring Group With Incorrect Dialing

Level: IN

Description

Use **Program 25-03 : VRS/DISA Transfer Ring Group With Incorrect Dialing** to set what happens to a call when the DISA or Automated Attendant caller dials incorrectly or waits too long to dial. The call can either disconnect (0) or Transfer to an alternate destination (a ring group or voice mail). When setting the DISA and DID Operating Mode, make an entry for each Night Service mode.

Input Data

Trunk Port Number	001~400

Item No.	Day/Night Mode	Incoming Group Number	Default	Related Program
01	1~8	0 = Disconnect 1~100 = (Incoming Ring Group) 102 = (In-Skin/External Voice Mail or VM8000 InMail) 104 = (Speed Dial Bin)	0	22-04

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-04 : VRS/DISA Transfer Ring Group With No Answer/Busy

Level: IN

Description

Use **Program 25-04 : VRS/DISA Transfer Ring Group With No Answer/Busy** to set the operating mode of each DISA trunk. This sets what happens to the call when the DISA or Automated Attendant caller calls a busy or unanswered extension. The call can either disconnect (0) or Transfer to an alternate destination (a ring group or voice mail). When setting the DISA and DID Operating Mode, make an entry for each Night Service mode.

Input Data

Trunk Port Number	001~400

Item No.	Day/ Night Mode	Incoming Group Number	Default	Related Program
01	1~8	0 = Disconnect 1~100 = (Incoming Ring Group) 102 = (In-Skin/External Voice Mail or VM8000 InMail) 103 = (Centralized Voice Mail) 104 = (Speed Dial Bin)	0	22-04

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-05 : VRS/DISA Error Message Assignment

Level: IN

Description

Use **Program 25-05 : VRS/DISA Error Message Assignment** to assign the VRS message number to be used as the Automated Attendant error message. For each VRS/DISA trunk that the VRS answers, enter the VRS message (1~100) the outside caller hears if they dial incorrectly. If you enter 0 (i.e., no error message), the call reroutes according to Program 25-03 and 25-04.

NOTE *For each trunk, make a separate entry for each Night Service mode.*

Input Data

Trunk Port Number	001~400

Item No.	Day/Night Mode	Input Data	Default
01	1~8	0 = No Setting 1 ~ 100 = VRS Message Number	0

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-06 : VRS/DISA One-Digit Code Attendant Setup

Level: IN

Description

Use **Program 25-06 : VRS/DISA One-Digit Code Attendant Setup** to set up single digit dialing through the VRS. This gives VRS callers single key access to extensions, the company operator, Department Calling Groups and Voice Mail. For each VRS message set to answer outside calls (refer to Program 25-04 and 25-05), you specify:

- The digit the VRS caller dials (0~9, ∗, #). Keep in mind that if you assign destinations to digits, outside callers cannot dial system extensions.
- The destination reached (eight digits max.) when the caller dials the specified digit.

The destination can be an extension, a Department Calling pilot number or the Voice Mail master number. A one-digit code can be assigned for each Automated Attendant message.

Example:

Message Number=01, Destination=2, Next Message Number=0, Dial=399

In this example, when 2 is dialed by an outside caller, the system transfers the call to 399. This means that extension 200~299 cannot receive calls from VRS/DISA users during/after VRS Message 01.

Input Data

Attendant Message Number	01~100

Received Dial	1~9, 0, ∗, #

Item No.	Item	Input Data	Default
01	**Next Attendant Message Number**	0~100 0 = No Setting 101 = Voice Mail answers 104 = Refer to 25-04 : VRS/DISA Transfer Ring Group With No Answer/Busy 105 = Dial the other extension	0
02	**Destination Number**	Up to eight digits	No Setting

Conditions

- Outside caller may not be able to dial individual extensions or lines, if the same first digit is defined here.
- Only one key dialing is supported for extension dialing.

Feature Cross Reference

- **Direct Inward System Access (DISA)**
- **Voice Response System (VRS)**

Program 25 : VRS/DISA Setup

25-07 : System Timers for VRS/DISA

Level: IN

Description

Use **Program 25-07 : System Timers for VRS/DISA** to set the value for the system timers which affect DID and DISA. Refer to the following chart for a description of each option, its range and default setting.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**VRS/DISA Dial Tone Time** After answering a DISA trunk, the system waits this time for the caller to dial the first digit of the DISA password. If the caller fails to dial during this time, the system drops the call.	0~64800 (sec)	10	25-04
02	**VRS/DISA No Answer Time** A VRS/DISA caller can ring an extension for this time before the system sets the call as a Ring No Answer. After this time expires, the call follows the programmed Ring No Answer routing (set in Program 25-03 and 25-04).	0~64800 (sec)	0	25-04
03	**Disconnect after VRS/DISA retransfer to IRG** From DISA trunk, when the call may go to Incoming Ring Group of PRG25-03/25-04. This setting determines the time the call is ringing in the IRG.	0~64800 (sec)	60	
04	**Calling Time to Automatic Answering Telephone Set** Set the answering waiting time of the automatic answering extension when an incoming DID trunk call is received.	0~64800 (sec)	10	
05	**Duration Time for Guidance Message by Automatic Answering Telephone Set** Set the announcement time of the automatic answering extension after which an incoming DID trunk caller is disconnected.	0~64800 (sec)	10	
06	**Duration Time for Guidance Message by ACI** Set the announcement time by the ACI after which an incoming DID trunk caller is disconnected.	0~64800 (sec)	10	

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
07	**Long Conversation Warning Tone Time** Determine the time a DISA caller or any trunk-to-trunk (such as Tandem Trunking) conversation can talk before the Long Conversation tone is heard.	0~64800 (sec)	3600	14-01-25 20-28-01 20-28-02 20-28-03
08	**Long Conversation Disconnect Time** Determine the time the system waits before disconnecting a DISA caller or any trunk-to-trunk (such as Tandem Trunking) conversation call after the Long Conversation tone is heard.	0~64800 (sec)	10	14-01-25 20-28-01 20-28-02 20-28-03
09	**DISA Internal Paging Time** Enter the maximum length of an Internal Page placed by a DISA caller. If the Page continues longer than this time, the system terminates the DISA call.	0~64800 (sec)	30	
10	**DISA External Paging Time** Enter the maximum length of an External Page placed by a DISA caller. If the Page continues longer than this time, the system terminates the DISA call.	0~64800 (sec)	30	
11	**VRS/DISA Answer Delay Time** Set up the time the system waits after receiving an incoming VRS/DISA call before the system automatically answers the call.	0~64800 (sec)	0	
13	**VRS/DISA Busy Tone Interval** If a DISA caller dials a busy extension (and Program 25-04 = 0), the system plays busy tone for this time before disconnecting.	0~64800 (sec)	5	
14	**Delayed VRS Answer Time** Assign the delay time from switching from a normal incoming status to DID mode. If this time is set to 0, the call switches to DID mode immediately.	0~64800 (sec)	10	

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-08 : DISA User ID Setup

Level: SA

Description

Use **Program 25-08 : DISA User ID Setup** to set the 6-digit DISA password for each user. There are 15 users each with one 6-digit password.

Input Data

DISA User Number	1~15

Item No.	Password	Default	Related PRG
01	Dial (Fixed – six digits) 0~9, ∗, #	No Setting	49-10-11

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-09 : Class of Service for DISA Users

Level: IN

Description

Use **Program 25-09 : Class of Service for DISA Users** to set the DISA Class of Service for each user. When a DISA caller enters a password (defined in Program 25-08), the system identifies the user and associates the appropriate DISA Class of Service with the call. Assign the DISA Class of Service options in Program 20-14. When programming DISA Class of Service, make one entry for each Night Service mode.

Input Data

DISA User Number	1~15

Item No.	Day/Night Mode	Function Class	Default
01	1~8	1~15	1

Conditions

- DISA Class of Service cannot be 0.
- Program 20-06 cannot be used to assign Class of Service to DISA trunks.

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-10 : Trunk Group Routing for DISA

Level: IN

Description

Use **Program 25-10 : Trunk Group Routing for DISA** to assign the Trunk Group route chosen when a user places a DISA call to the system and dials 9. Set Trunk Group Routing in Program 14-06. Enable or disable the DISA caller ability to dial 9 in Program 20-14-02. Assign a route to each DISA Class of Service (1~15). The system assigns a DISA Class of Service to a call based on the password the DISA caller dials.

When programming, make a separate entry for each Night Service Mode.

Input Data

DISA User Number	1~15

Item No.	Day/Night Mode	Route Table Number	Default
01	1~8	0~100 0 = No Setting	1

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-11 : DISA Toll Restriction Class

Level: IN

Description

For systems that use Toll Restriction, use **Program 25-11 : DISA Toll Restriction Class** to assign a Toll Restriction Class (1~15) to each DISA user (1~15). The system uses the Toll Restriction Class you enter in Program 21-05 and 21-06. The Toll Restriction Class assigned to a DISA call is based on the DISA Class of Service and user, which is determined by the password the caller dials.

When programming, make a separate entry for each Night Service mode.

Input Data

DISA User Number	1~15

Item No.	Day/Night Mode	Toll Restriction Class	Default
01	1~8	1~15	2

Conditions

- Program 21-05 cannot be used to assign Toll Restriction to DISA trunks.

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

Program 25 : VRS/DISA Setup

25-12 : Alternate Trunk Group Routing for DISA

Level: IN

Description

Use **Program 25-12 : Alternate Trunk Group Routing for DISA** to define the trunk route selected when a DISA caller dials the Alternate Trunk Access Code. The route selected is based on the DISA caller Class of Service, which in turn is determined by the password the caller dials. When programming, make a separate entry for each Night Service Mode.

Use Program 11-09-02 to set the Alternate Trunk Access Code. Use Program 14-06 to set trunk routes.

Input Data

DISA User Number	1~15

Item No.	Day/Night Mode	Route Table Number	Default
01	1~8	0~100 0 = No Setting	1

Conditions

- You cannot use Program 21-15 to assign alternate trunk routing to DISA trunks.

Feature Cross Reference

- **Direct Inward System Access (DISA)**
- **Trunk Group Routing**

Program 25 : VRS/DISA Setup

25-13 : System Option for DISA

Level: IN

Description

Use **Program 25-13 : System Option for DISA** to enter the password DISA callers must dial before the system allows them to record, listen to and or erase the VRS messages. This program also is used to define additional DISA call options.

Input Data

Item No.	Item	Input Data	Default
01	**VRS Message Access Password** Enter the password DISA callers must dial before the system allows them to record, listen to and/or erase the VRS messages.	1~ 9, 0, ✱, # (Fixed six digits)	No Setting

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

➥ **Voice Response System (VRS)**

Program 25 : VRS/DISA Setup

25-15 : VRS/DISA Transfer Target Setup

Level: IN

Description

Use **Program 25-15 : VRS/DISA Transfer Target Setup** to assign a Speed Dial number when a dial tone times-out, or when the wrong number is received and the target extension does not answer or is busy.

Input Data

Trunk No.	001~400

Input Data

Item No.	Item	Input Data	Default
01	**VRS/DISA Transfer Target Area At Wrong Dial**	Speed Dial bin number 0~9999	9999
02	**VRS/DISA Transfer Target Area At No Answer or Busy**	Speed Dial bin number 0~9999	9999

Conditions

- Related to Program 25-03-01 and Program 25-04-01.

Feature Cross Reference

- **Direct Inward System Access (DISA)**
- **Voice Response System (VRS)**

Program 25 : VRS/DISA Setup

25-16 : VRS/DISA Talkie Base Setup

Level: IN

Description

Use **Program 25-16 : VRS/DISA Talkie Base Setup** to assign VRS/DISA timer values.

Input Data

Talkie Number	1~100

Item No.	Item	Input Data	Default
01	**VRSDISA Single Digit Timer** Assign a timer per single digit table, required to expire before the allocated single digit entry is applied. (Related: PRG25-06-02)	0 ~ 68400	0
02	**DTMF Detect** Select whether or not system detects DTMF during VRS message. '1 = On' setting detects DTMF signal during sending VRS message for VRS/DISA call. '0 = Off' setting does not detect DTMF signal during sending VRS message for VRS/DISA call. Related: PRG25-02-01 PRG25-06-01 PRG15-01-08 PRG15-01-09 PRG40-10-08 PRG40-10-09	0 = Off 1 = On	1

Conditions

None

Feature Cross Reference

➥ **Direct Inward System Access (DISA)**

➥ **Voice Response System (VRS)**

Program 25 : VRS/DISA Setup

25-17 : VRS/DISA Attendant Message Service Setup

Level: IN

Description

Use **Program 25-17 : VRS/DISA Attendant Message Service Setup** to set what happens to a call when the DISA or Automated Attendant caller dials incorrectly or waits too long to dial, and for No Answer/Busy. The call can either disconnect (0) or Transfer to an alternate destination (a ring group, voice mail or speed dial).

Input Data

Attendant Message Number	001~100

Item No.	Item	Input Data	Default	Related Programs
01	**Transfer Ring Group at Wrong Dialing**	0 = Disconnect 1~100 = Incoming Ring Group 102 = In-skin/ External Voice Mail or VM8000 InMail 104 = Speed Dial Bin	0	22-04 25-03
02	**Transfer Ring Group at No Answer/Busy**	0 = Disconnect 1~100 = Incoming Ring Group 102 = In-skin/ External Voice Mail or VM8000 InMail 104 = Speed Dial Bin	0	22-04 25-04
03	**Transfer Target Area at Wrong Dialing**	0 ~ 9999	9999	13-04
04	**Transfer Target area at No Answer/Busy**	0 ~ 9999	9999	13-04

Conditions

None

Feature Cross Reference

- Direct Inward System Access (DISA)
- Voice Response System (VRS)
- Direct Inward Dial (DID)

Program 25 : VRS/DISA Setup

25-18 : VRS/DISA Attendant Message Timer Setup

Level: IN

Description

Use **Program 25-18 : VRS/DISA Attendant Message Timer Setup** to set the value for the system timers which affect VRS and DISA. Refer to the following chart for a description of each option, its range and default setting.

Input Data

Attendant Message Number	001~100

Item No.	Item	Input Data	Default	Related Programs
01	**Dial Tone**	0 ~ 68400	10	22-04 25-03
02	**No Answer Time**	0 ~ 68400	0	22-04 25-04
03	**Disconnect after Re-Transfer to IRG**	0 ~ 68400	60	13-04 22-04

Conditions

None

Feature Cross Reference

- **Direct Inward System Access (DISA)**
- **Voice Response System (VRS)**
- **Direct Inward Dial (DID)**

Program 26 : ARS Service

26-01 : Automatic Route Selection Service

Level: IN

Description

Use **Program 26-01 : Automatic Route Selection Service** to define the system options for Automatic Route Selection (ARS).

Input Data

Item No.	Item	Input Data	Default	Related Programming
01	**ARS Service** Enable/Disable ARS.	0 = Disable (Off) 1 = Enable (On)	0	26-02 26-03 26-04
02	**Network Outgoing InterDigit ARS Time** With Networking, this time replaces 20-03-04 when determining if all network protocol digits have been received. If ARS is enabled at Site B, this time can be programmed for 5 (500ms) at Site A. If ARS is disabled and Site B is using F-Route for outbound dialing, this time should be programmed for 30 (three seconds) at Site A.	0~64800 (sec) (in 0.1 second increments)	30	20-03-04
03	**ARS Misdialed Number Handling** If a user dials a number not programmed in ARS, this option determines if the system should route over Trunk Group 1 or play error tone.	0 = Route to Trunk Group 1 1 = Play Warning Tone to Dialer	0	21-02
06	**Class of Service Match Access**	0 = Disable (Off) 1 = Enable (On)	0	26-02
07	**F-Route Access COS Reference**	0 = F-Route 1 = ARS	0	26-02 44-05
08	**DT900/DT800 Multi Log-on for ARS** 0 refers to PRG 26-04 1 refers to PRG 26-13	0 = Disable (Off) 1 = Enable (On)	0	26-04 26-13

Conditions

None

Feature Cross Reference

➥ Automatic Route Selection

Program 26 : ARS Service

26-02 : Dial Analysis Table for ARS/LCR

Level: IN

Description

Use **Program 26-02 : Dial Analysis Table for ARS/LCR** to set pre-transaction tables for selecting Automatic Route Selection (ARS).

- ❑ Service Type 1 (Route to Trunk Group Number) – The number routes to a trunk group.
- ❑ Service Type 2 (F-Route Selected) – The number is controlled by the F-Route table.

Input Data

Dial Analysis Table Number	1~2000

Item No.	Item	Input Data	Default	Related Programming
01	**Dial**	Dial Digits (16 digits maximum) 1~9, 0, ∗, #, or for wild character (Press line key 1)	No Setting	
02	**ARS Service Type**	0 = No Service (None) 1 = Route to Trunk Group 2 = Select F-Route Access	0	
03	**Additional Data / Service Number**	If Service Type 1 (in 26-02): Select Trunk Group Number [0~100, 101~150 (100+Networking ID), 0= No Route] If Service Type 2 (in 26-02): F-Route Time Schedule Not Used = 0~500 (F-Route Table Number). Refer to Program 44-05 : ARS/F-Route Table on page 2-573. F-Route Time Schedule Used = 0~500 (F-Route Selection Number). Refer to Program 44-04 : ARS/F-Route Selection for Time Schedule on page 2-572.	0	44-04 44-05
04	**ARS Class of Service**	0~50	0	
05	**Dial Treatment for ARS**	0~50	0	

Item No.	Item	Input Data	Default	Related Programming
06	**LCR Carrier Table Entry**	0 ~ 25	0	
07	**Network Specified Parameter Table**	0 ~ 16	0	26-12

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection**

Program 26 : ARS Service

26-03 : ARS Dial Treatments

Level: IN

Description

Use **Program 26-03 : ARS Dial Treatments** to assign the 15 Dial Treatments for automatic ARS dialing translation. Assign Dial Treatments to Service Numbers (Trunk Groups) in Program 26-02. The ARS Dial Treatment options are:

- **3** – Delete the NPA if dialed as part of the initial call.

  NOTE *Requires at least 11 digits in the ARS table (Program 26-02-01).*

- **2** – Delete the leading digit if dialed as part of the initial call. .

  NOTE *Requires at least eight digits in the ARS table (Program 26-02-01)*

- **1** – Add a leading 1 if not dialed as part of the initial call.

  NOTE *Requires at least eight digits in the ARS table (Program 26-02-01).*

- **INPA** – Insert the NPA specified by NPA.
- **An** – For Alternate Carrier Access (n = 1~4). The numeric digit instructs the system to insert a Transit Network Selection information element in the SETUP message and also identifies which code in Program 26-11 will be included in the information element. This function is valid only for outbound calls by ISDN trunks.
- **DNN** – Outdial the NN number of digits or execute the code that follows. For example, D041234 outdials 1234. Valid entries are 0~9, #, ∗, Wnn (wait nn seconds) and P (pause). Each digits code counts as a digit. So, for example, if a P was added for a pause, the entry would look like: **D05P1234**.
- **Wnn** – Wait nn seconds.
- **P** – Pause in analog trunk.
- **R** – Redial the initially dialed number, including any modifications.
- **E** – End of Dial Treatment. All Dial Treatments must end with the E code.
- **X** – When ARS is enabled, X must be entered in the Dial Treatment for the system to output the extension number of the call originator to the black box for the E911 feature.

Input Data

Dial Treatment Table Number	1~15

Item No.	Item	Input Data	Default
01	Treatment Code	24 characters maximum	No Setting

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection**

Program 26 : ARS Service

26-04 : ARS Class of Service

Level: IN

Description

Use **Program 26-04 : ARS Class of Service** to set the ARS Class of Service for an extension. Automatic Route Selection uses ARS Class of Service when determining how to route extension calls.

Input Data

Extension Number	001 ~ 960

Item No.	Day/Night Mode	Class	Default
01	1~8	0~50	0

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection**

Program 26 : ARS Service

26-05 : LCR Carrier Table

Level: IN

Description

Use **Program 26-05 : LCR Carrier Table** to set the Carrier Table for LCR.

Input Data

Carrier Table Number	1 ~ 25

Item No.	Name	Input Data	Default
01	Delete Digits	0 ~ 16	0
02	Access Code	Up to 16 digits (0 ~ 9, #, *, @, Pause	No Setting
03	Authorization Table Number	0 ~ 10	0
04	Cost Center Code	0 = Not Used 1 = Used	0

Conditions

None

Feature Cross Reference

➥ **None**

Program 26 : ARS Service

26-06 : LCR Authorization Code Table

Level: IN

Description

Use **Program 26-06 : LCR Authorization Code Table** to set the Authorization Code Table for LCR.

Input Data

Authorization Table Number	1 ~ 10

Item No.	Name	Input Data	Default
01	Input Dial	Up to 10 digits	No Setting

Conditions

None

Feature Cross Reference

➥ **None**

Program 26 : ARS Service

26-07 : LCR Cost Center Code Table

Level: IN

Description

Use **Program 26-07 : LCR Cost Center Code Table** to set the Cost Center Code for LCR.

Input Data

Extension Number	Up to eight digits

Item No.	Name	Input Data	Default
01	Input Dial	Up to eight digits	Extension Number

Conditions

None

Feature Cross Reference

➥ **None**

Program 26 : ARS Service

26-08 : LCR Manual Override Access Code Table

Level: IN

Description

Use **Program 26-08 : LCR Manual Override Access Code Table** to set the Manual Override Access Code for LCR.

Input Data

Manual Override Access Code Table Number	1 ~ 10

Item No.	Name	Input Data	Default
01	Manual Override Access Code	Up to four digits	No Setting
02	Carrier Table Number	0 ~ 25	0

Conditions

None

Feature Cross Reference

➥ **None**

Program 26 : ARS Service

26-09 : LCR Manual Override Exemption Table

Level: IN

Description

Use **Program 26-09 : LCR Manual Override Exemption Table** to set the Manual Override Exemption for LCR.

Input Data

Manual Override Exemption Table Number	1 ~ 25

Item No.	Name	Input Data	Default
01	Carrier Code Manual Override Exemption	Up to four digits	Table No / Default 1 / 999 2 / 112 3 / No Setting : / : 25 / No Setting

Conditions

None

Feature Cross Reference

➥ **None**

Program 26 : ARS Service

26-11 : Transit Network ID Table

Level: IN

Description

Use **Program 26-11 : Transit Network ID Table** to define Transit Network ID for Alternate carrier access, which is referred from Program 26-03.

Input Data

Transit Network ID Table	1~4

Item No.	Item	Input Data	Default
01	**Transit Network ID (Carrier ID)**	0000~9999 (Fixed four digits)	No setting

Conditions

None

Feature Cross Reference

None

Program 26 : ARS Service

26-12 : Network Specific Parameter Table for ARS

Level: IN

Description

Use **Program 26-12 : Network Specific Parameter Table for ARS** to define the Network Specific Parameter Table.

Input Data

Network Specific Parameter Table	1~16

Item No.	Item	Input Data	Default
01	**Type of Number Selection** This setting is used by Program 26-02-07 and Program 44-05-11 to determine ISDN element.	0 = System Default 1 = Unknown 2 = International No. 3 = National No. 4 = Network Specific No. 5 = Subscriber No. 6 = Abbreviated No.	0
02	**Numbering Plan Identification Selection** This setting is used by Program 26-02-07 and Program 44-05-11 to determine ISDN element.	0 = System Default 1 = Unknown 2 = ISDN Plan 3 = Data Plan 4 = Telex Plan 5 = National Standard Plan 6 = Private Plan	0

Conditions

None

Feature Cross Reference

None

Program 26 : ARS Service

26-13 : ARS Class of Service for NetLink (DT900/DT800)

Level: IN

Description

Use **Program 26-13 : ARS Class of Service for NetLink (DT900/DT800)** sets an extension's ARS Class of Service when used for NetLink. Automatic Route Selection uses ARS Class of Service when determining how to route an extension's calls.

Input Data

Extension Number	001 ~ 960

Input Data

NetLink System ID	1 ~ 50

Item No.	Day/Night Mode	Class	Default
01	1~8	0~50	0

Conditions

Only when NetLink is enabled.

Feature Cross Reference

None

Program 30 : DSS/DLS Console Setup

30-01 : DSS Console Operating Mode

Level: IN

Description

Use **Program 30-01 : DSS Console Operating Mode** to set the mode of the system DSS Consoles. The entry for this option applies to all the system DSS Consoles. The available options are:

- ❑ Regular (Business) Mode (0)
- ❑ Hotel Mode (1)
- ❑ Monitor Mode (2)
- ❑ Business/ Mode (3)

Input Data

DSS Console Number	01~32

Item No.	DSS Operation Mode	Default
01	0 = Business Mode 1 = Hotel Mode 2 = Monitor Mode 3 = Business/ Mode	0

Conditions

None

Feature Cross Reference

- ➥ **Direct Station Selection (DSS) Console**
- ➥ **Hotel/Motel**

Program 30 : DSS/DLS Console Setup

30-02 : DSS Console Extension Assignment

Level: IN

Description

Use **Program 30-02 : DSS Console Extension Assignment** to identify which extensions have DSS Consoles connected.

- Up to 32 different extensions with DSS Consoles can be set up. A single extension can have up to four 60-button DSS Consoles (32 is the maximum allowed per system).

When programming, each extension/DSS Console(s) combination is called a Console Number. There are 32 Console Numbers (1~32). Console Numbers can be assigned to extensions. When entering data, the assignment for Console Number 1 is normally made first.

Input Data

60-button DSS Console Number	01~32

Item No.	Item	Default
01	**Extension Number** Enter the extension number for the multiline terminal connected with the DSS console (up to eight digits).	No Setting

Conditions

None

Feature Cross Reference

➥ **Direct Station Selection (DSS) Console**

Program 30 : DSS/DLS Console Setup

30-03 : DSS Console Key Assignment

Level: SA

Description

Use **Program 30-03 : DSS Console Key Assignment** to customize the key assignments for 60-button DSS Consoles. A DSS Console key can have any function with up to four digits (e.g., extension number or Service Code).

To prevent lamp problems when reassigning DSS Console keys, clearing an extension programmed key before reassigning it is recommended [Enter key to be cleared + 00 or ∗00 (If using WebPro or PC Programming, delete the key assignments and upload the change to the system before proceeding.)] Without clearing an extension key first, the DSS Console may not show the correct lamp display, although the DSS function works correctly.

If you are programming the system from the extension to which the DSS Console is connected, either by phone or using the WebPro or PC Programming, you may need to unplug the DSS and plug it back in to reset the console lamping.

Input Data

Index 1

DSS Console Number	01~32

Item No.	Key Number	Function Number	Additional Data
01	001~114	0~99 (General Functional Level) 97 = Door Box Access key (additional data: 1~8 Door Box No.) ∗ 00 ~ ∗ 99 (Appearance Functional Level)	Refer to Function Number List on the following pages.

Function Number List
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
00	**Not Defined**		
01	DSS/One-Touch	Extension Number or any Numbers (up to 24 digits)	**Red On:** Extension Busy **Off:** Extension Idle **Rapid Blink (Red):** DND or Call Forward
02	Microphone Key (ON/OFF)		**Red On:** Mic On **Off:** Mic Off
03	DND Key		**Red On:** DND
04	BGM (ON/OFF)		**Red On:** BGM On **Off:** BGM Off
05	Headset		**Red On:** Under Headset Operation
06	Transfer Key		None
07	Conference Key		**Red On:** Under Conference Operation
08	Incoming Call Log		**Rapid Blink (Red):** New Call Log **Red On:** Call Log **Off:** No Call Log
09	Day/Night Mode Switch	Mode Number (1~8)	**Red On:** On mode
10	Call Forward – Immediate		**Slow Blink (Red):** Forwarding State **Rapid Blink (Red):** Forwarded State
11	Call Forward – Busy		**Slow Blink (Red):** Forwarding State **Rapid Blink (Red):** Forwarded State
12	Call Forward – No Answer		**Slow Blink (Red):** Forwarding State **Rapid Blink (Red):** Forwarded State
13	Call Forward – Busy/No Answer		**Slow Blink (Red):** Forwarding State **Rapid Blink (Red):** Forwarded State
14	Call Forward – Both Ring		**Slow Blink (Red):** Forwarding State **Rapid Blink (Red):** Forwarded State
15	Follow Me		**Slow Blink (Red):** Forwarding State **Rapid Blink (Red):** Forwarded State
18	Text Message Setup	Message Numbers (01~20)	**Red On:** Feature active by Function Key
19	External Group Paging	External Paging Number (1~8)	**Red On:** Active
20	External All Call Paging		**Red On:** Active
21	Internal Group Paging	Internal Paging Number (01~64)	**Red On:** Active

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
22	Internal All Call Paging		None
23	Meet-Me Answer to Internal Paging		None
24	Call Pickup		None
25	Call Pickup for Another Group		None
26	Call Pickup for Specified Group	Call Pickup Group Number	None
27	Speed Dial – System/Private	Speed Dial Number (Speed/Private)	None
28	Speed Dial – Group	Speed Dial Number (Group)	None
29	Repeat Redial		**Rapid Blink (Red):** Under a Repeat Dial
30	Saved Number Redial		None
31	Memo Dial		None
32	Meet – Me Conference		None
33	Override (Off-Hook Signaling)		None
34	Barge – In	No data or Extension No. (not Virtual Extension) or ∗. In case of ∗ refer to the Extension No. (not Virtual Extension) set in 24-09-03.	None
35	Camp On		**Red On:** Under Camp-On or Reservation
36	Department Step Call		None
37	DND/FWD Override Call		None
38	Message Waiting		None
39	Room Monitoring		**Rapid Blink (Red):** Under Monitored **Slow Blink (Red):** Under Monitoring With Room Monitor there are two parties in the monitor, one being monitored and one who is monitoring. The same key is used on both phones, but the COS says if the key is set to be either a monitored or monitoring party.
40	Handset Transmission Cutoff		**Red On:** Transmission cut-off

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
41	Secretary Buzzer	Extension Number	**Red On:** Transmission Side **Rapid Blink (Red):** Receiver Side
42	Boss – Secretary Call Pickup	Extension Number	**Red On:** Boss – Secretary Mode
43	Series Call		None
44	Common Hold		None
45	Exclusive Hold		None
46	Department Group Log Out		**Red On:** Logged Out
47	--- **Not Used** ---		
48	--- **Not Used** ---		
49	Call Redirect	Extension Number or Voice Mail Number	None
50	Account Code		None
51	General Purpose Relay	Relay No (0, 1~8)	**Red On:** Relay On
52	Automatic Answer with Delay Message Setup	Incoming Group Number	**Red On:** Under Setting
53	Automatic Answer with Delay Message Starting		**Red On:** Active
54	External Call Forward by Door Box		**Red On:** Active
55	Extension Name Edit		None
56	General Purpose LED Operation	001~100: (Red)	001~100: **Rapid Blink (Red)** 101~200: **Rapid Blink (Green)** 201~300: **Red On, Green Rapid Blink**
57	General Purpose LED Indication		001~100: **Rapid Blink (Red)** 101~200: **Rapid Blink (Green)** 201~300: **Red On, Green Rapid Blink**
58	Department Incoming Call – Immediate	Extension Group Number (01~64) or (001~128) Version 10.00 or higher	
59	Department Incoming Call – Delay	Extension Group Number (01~64) or (001~128) Version 10.00 or higher	
60	Department Incoming Call – DND	Extension Group Number (01~64) or (001~128) Version 10.00 or higher	
61	--- **Not Used** ---		

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
62	Flash (Recall) Key		None
63	Outgoing Call Without Caller ID (ISDN)		**Red On:** Active
64	--- **Not Used** ---		
65	--- **Not Used** ---		
66	--- **Not Used** ---		
67	--- **Not Used** ---		
68	--- **Not Used** ---		
70	--- **Not Used** ---		
71	--- **Not Used** ---		
72	Keypad Facility Key		
73	Keypad Hold Key		
74	Keypad Retrieve Key		
75	Keypad Conference Key		
76	Application Key (3rd Party CTI)	Any dial data (8 digits)	None
77	Voice Mail (In-Skin)	Extension Number or Pilot Number	**Red On:** Access to Voice Mail **Rapid Blink (Green):** New Message
78	Conversation Recording (In-Skin)	0 = Conversation recording 1 = Delete, Re-recording 2 = Delete	**Rapid Blink (Red):** Recording
79	Automated Attendant (In-Skin)	Extension Number or Pilot Number	**Red On:** Set Up for All Calls **Slow Blink (Red):** Set Up for Busy/No Answer Calls
80	Tandem Ringing	0 = Cancel 1 = Set Extension Number to Tandem Ring	**Red On:** Active
81	Automatic Transfer to Transfer Key	Trunk Line Number 001~400	
82	--- **Not Used** ---		
83	Conversation Recording Function (In-Skin)	0 = Pause 1 = Re-record 2 = Address 3 = Erase 4 = Urgent Page	

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
84	Line Drop (send long flash)		
85	--- **Not Used** ---		
86	Private Call Refuse		**Off:** patter1, pattern 5-8 **Red ON:** pattern 2 **Slow flash (Red)** – pattern 3 **Fast flash (Red)** – pattern 4
87	Caller ID Refuse		**Off:** Cancel **Slow flash (Red)** – Set
88	DID Mode Switch	PRG 22-17 Table No 1-500	
89	Do-Not-Call Setup		**Red On:** Do-Not-Call ON **Off:** Do-Not-Call OFF
90	Do-Not-Call Registration		
91	--- **Not Used** ---		
92	Wake Up Call Indication		**Green On:** Wake Up Call Indication Mode On **Off:** Wake Up Call Indication Mode Off
93	Room Status Indication		**Green On:** Active Room Status **Off:** Room Status Indication Mode Off
94	Call Attendant		
95	Page Switching		**Red On:** DSS Page 1 **Green On:** DSS Page 2
97	Door Box Access Key	Door Box number (1~8)	
98	Message Waiting Indication Key		
99	Alternate Answer Key		
#04	Change Restriction Class	One-time Toll Restriction	
#06	Power Save for Power Save Group		
#07	Fixed Operation Mode	Night Mode Service Group No. (01~32)	**Fast flash (Red)** – Setup
#10	Conference Record		**Red On:** On recording
#11	Major Alarm		**Red On:** A major alarm has occurred.
#12	Minor Alarm		**Red On:** A minor alarm has occurred.
#13	Calling Party Number Notification	Any number up to 24 digits	**Red On:** Set **Off:** Cancel

Function Number List
[2] Appearance Function Level (∗00 - ∗99) (Service Code 752)

Function Number	Function	Additional Data	LED Indication
∗00	ICM Key	Extension Number	
∗01	Trunk Key	Trunk Number (001~400)	
∗02	--- **Not Used** ---		
∗03	--- **Not Used** ---		
∗04	Park Key	Park Number (01~64)	
∗05	--- **Not Used** ---		
∗06	Trunk Access Via Networking	Network System Number (01~50)	
∗07	Station Park Hold None		
∗08	--- **Not Used** ---		
∗10	--- **Not Used** ---		
∗11	--- **Not Used** ---		
∗12	--- **Not Used** ---		
∗13	--- **Not Used** ---		
∗14	--- **Not Used** ---		
∗15	--- **Not Used** ---		
∗16	--- **Not Used** ---		
∗17	--- **Not Used** ---		
∗18	--- **Not Used** ---		
∗19	--- **Not Used** ---		

Default

- The DSS keys 01~60 of all DSS consoles = DSS/One-Touch key 101~160
- The DSS keys 61~114 of all DSS consoles = None

Conditions
None

Feature Cross Reference

➥ **Direct Station Selection (DSS) Console**

Program 30 : DSS/DLS Console Setup

30-04 : DSS Console Alternate Answer

Level: SA

Description

Use **Program 30-04 : DSS Console Alternate Answer** to assign the alternate DSS console station in case off-duty mode is set (by pressing the **ALT** key on the DSS console).

Index 1

DSS Console Number	01~32

Item No.	Item Name	Input Data	Default
01	**DSS Console Alternate Answer**	Alternate DSS No. 01~32	0 = No Setting

Conditions

Related extension is assigned in PRG30-02. Alternate answer key (**ALT** key) is assigned at PRG30-03.

Feature Cross Reference

None

Program 30 : DSS/DLS Console Setup

30-05 : DSS Console Lamp Table

Level: IN

Description

Use **Program 30-05 : DSS Console Lamp Table** to define the LED patterns for functions on the DSS consoles.

Input Data

Item No.	Item	Lamp Pattern Data	Default
02	**Busy Extension**	0~7	7 (On)
03	**DND Extension**	0~7	3 (RW)
04	**Agent Busy**	0~7	7 (On)
05	**Out of Schedule (DSS)**	0~7	0 (Off)
06	**Agent Log Out (DSS)**	0~7	5 (IL)
07	**Agent Log In (DSS)**	0~7	4 (IR)
08	**Agent Emergency (DSS)**	0~7	6 (IW)
09	**Hotel Status Code 1 (Hotel DSS)**	0~7	7 (On)
10	**Hotel Status Code 2 (Hotel DSS)**	0~7	1 (FL)
11	**Hotel Status Code 3 (Hotel DSS)**	0~7	2 (WK)
12	**Hotel Status Code 4 (Hotel DSS)**	0~7	3 (RW)
13	**Hotel Status Code 5 (Hotel DSS)**	0~7	5 (IL)
14	**Hotel Status Code 6 (Hotel DSS)**	0~7	3 (RW)
15	**Hotel Status Code 7 (Hotel DSS)**	0~7	6 (IW)
16	**Hotel Status Code 8 (Hotel DSS)**	0~7	4 (IR)
17	**Hotel Status Code 9 (Hotel DSS)**	0~7	3 (RW)
18	**Hotel Status Code 0 (Hotel DSS)**	0~7	0 (Off)
19	**Hotel Status Code ✱ (Hotel DSS)**	0~7	4 (IR)
20	**Hotel Status Code # (Hotel DSS)**	0~7	5 (IL)

Input Data (Continued)

Item No.	Item	Lamp Pattern Data	Default
21	**VM Message Indication**	0~7	3 (RW)

Table 2-11 ED Patterns for DSS Console

LED Pattern 0 : [OFF]

LED Pattern 1 : [FL: On(500ms)/Off(500ms)]

LED Pattern 2 : [WK: On(250ms)/Off(250ms)]

LED Pattern 3 : [RW: On(125ms)/Off(125ms)]

LED Pattern 4 : [IR: On(125ms)/Off(125ms)/On(125ms)/Off(625ms)]

LED Pattern 5 : [IL: On(875ms)/Off(125ms)]

LED Pattern 6 : [IW: On(625ms)/Off(125ms)/On(125ms)/Off(125ms)]

LED Pattern 7 : [ON]

Conditions

None

Feature Cross Reference

➥ **Direct Station Selection (DSS) Console**

Program 30 : DSS/DLS Console Setup

30-10 : DSS Console IP Terminal Setup

Level: SA

Description

Use **Program 30-10 : DSS Console IP Terminal Setup** to set the MAC address for a particular IP DSS Console. This must be done before the console can be associated to the attendant phone. The system supports up to 32 IP DSS Consoles.

Input Data

DSS Console Number	01~32

Item No.	Function Name	Input Data	Default
01	**MAC Address**	00-00-00-00-00-00~FF-FF-FF-FF-FF-FF	00-00-00-00-00-00

Conditions

This is a Read-Only command.

Feature Cross Reference

None

Program 31 : Paging Setup

31-01 : System Options for Internal/External Paging

Level: IN

Description

Use **Program 31-01 : System Options for Internal/External Paging** to define the system options for Internal/External Paging.

The system shows the name you program on the telephone display. Use the following chart when entering and editing text. When using the keypad digits, press the key once for the first character, twice for the second character, etc. For example, to enter C, press 2 three times. Press 2 six times to display the lower case letter.

Table 2-12 Keys for Entering Names

Key for Entering Names	
When entering names in the procedures below, refer to this chart. Names can have up to 12 digits.	
Use this keypad digit . . .	**When you want to. . .**
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Ç É Ê ì ó
2	Enter characters: **A-C, a-c, 2**.
3	Enter characters: **D-F, d-f, 3**.
4	Enter characters: **G-I, g-i, 4**.
5	Enter characters: **J-L, j-l, 5**.
6	Enter characters: **M-O, m-o, 6**.
7	Enter characters: **P-S, p-s, 7**.
8	Enter characters: **T-V, t-v, 8**.
9	Enter characters: **W-Z, w-z, 9**.
0	Enter characters: 0 ! “ # $ % & ’ ( ) ô ◘ ú ä ö ü α ε θ
✱	Enter characters: ✱ + , - . / : ; < = > ? π Σ σ Ω ∞ ¢ £

Table 2-12 Keys for Entering Names (Continued)

Key for Entering Names (Continued)	
When entering names in the procedures below, refer to this chart. Names can have up to 12 digits.	
Use this keypad digit . . .	**When you want to. . .**
#	**#** = Accepts an entry (only required if two letters on the same key are needed - ex: TOM). Pressing **#** again = Space. (In system programming mode, use the right arrow soft key instead to accept and/or add a space.)
Conf	Clear the character entry one character at a time.
Hold	Clear all the entries from the point of the flashing cursor and to the right.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**All Call Paging Zone Name** Assign a name to each All Call Internal Paging zone. The name shows on the display of the telephone making the announcement.	Up to 12 Characters	Group All	11-12-19 31-02-02
02	**Page Announcement Duration** Set the maximum time for Page announcements. (Affects External Paging only)	0~64800 (sec)	1200	
04	**Privacy Release Time** Once the user initiates a Meet-Me Conference or Voice Call Conference, the system waits this time for the Paged party to join the call.	0~64800 (sec)	90	

Conditions

None

Feature Cross Reference

- **Paging, External**
- **Paging, Internal**

Program 31 : Paging Setup

31-02 : Internal Paging Group Assignment

Level:
IN

Description

Use **Program 31-02 : Internal Paging Group Assignment** to assign extensions to Internal Paging Groups (i.e., Page Zones). The setting in this program also determines if the Internal Page Group can receive Internal All Call Paging. The system can have up to 64 paging groups. An extension can be in only one Internal Paging Group.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default
01	**Internal Paging Group Number** Assign extensions to Internal Paging Groups (i.e., Page Zones). The system allows up to 64 Internal Paging Groups. An extension can be in only one Internal Paging Group.	0~64 (0 = No Setting)	0 for IP Station 1 for TDM Station
02	**Internal All Call Paging Receiving** Allow/Prevent All Call Internal Paging for each extension. If allowed, extension can place and receive All Call Internal Paging announcements. If prevented, extensions can make only (not receive) All Call Internal Paging announcements. If combined, Paging zones should be restricted as well, change the internal page zone group in Program 31-07-01 to 0.	0 = Off 1 = On	0

Conditions
None

Feature Cross Reference

➥ **Paging, Internal**

Program 31 : Paging Setup

31-03 : Internal Paging Group Settings

Level: IN

Description

Use **Program 31-03 : Internal Paging Group Settings** to assign names to Internal Paging Groups (i.e., Page Zones) and to define the splash tone for Internal Paging.

The system shows the names you program on the telephone display. Use the following chart when entering and editing text. When using the keypad digits, press the key once for the first character, twice for the second character, etc. For example, to enter a C, press 2 three times. Press 2 six times to display the lower case letter.

Table 2-13 Keys for Entering Names

Key for Entering Names	
When entering names in the procedures below, refer to this chart. Names can have up to 12 digits.	
Use this keypad digit . . .	**When you want to. . .**
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Ç É Ê ì ó
2	Enter characters: **A-C, a-c, 2**.
3	Enter characters: **D-F, d-f, 3**.
4	Enter characters: **G-I, g-i, 4**.
5	Enter characters: **J-L, j-l, 5**.
6	Enter characters: **M-O, m-o, 6**.
7	Enter characters: **P-S, p-s, 7**.
8	Enter characters: **T-V, t-v, 8**.
9	Enter characters: **W-Z, w-z, 9**.
0	Enter characters: 0 ! “ # $ % & ’ ( ) ô ◘ ú ä ö ü α ε θ
*	Enter characters: * + , - . / : ; < = > ? π Σ σ Ω ∞ ¢ £

Table 2-13 Keys for Entering Names

Key for Entering Names (Continued)	
When entering names in the procedures below, refer to this chart. Names can have up to 12 digits.	
Use this keypad digit . . .	**When you want to. . .**
#	**#** = Accepts an entry (only required if two letters on the same key are needed - ex: TOM). Pressing **#** again = Space. (In system programming mode, use the right arrow soft key instead to accept and/or add a space.)
Conf	Clear the character entry one character at a time.
Hold	Clear all the entries from the point of the flashing cursor and to the right.

Input Data

Internal Paging Group Number	01~64

Item No.	Item	Input Data	Default
01	**Internal Paging Group Name** Assign name to Internal Paging Groups (i.e., Page Zones). The system shows the name you program on the telephone display.	Up to 12 Characters	Refer to default table.

Default

Item 01 : Internal Paging Group Name

Extension Paging Group	Name
01	Group 1
02	Group 2
:	:
64	Group 64

Conditions

None

Feature Cross Reference

➥ **Paging, Internal**

Program 31 : Paging Setup

31-04 : External Paging Zone Group

Level: IN

Description

Use **Program 31-04 : External Paging Zone Group** to assign each External Paging zone to an External Paging group. Users call the External Paging group when broadcasting announcements to the external zone. When programming, the zones on the PGD(2)-U10 ADP are numbers 1~8. On the UNIVERGE SV9100 system, the GCD-CP10 or GCD-CP20 zone is number 9.

To simplify programming and troubleshooting, always make the External Paging Zone Group the same number as the External Paging zone (i.e., 1 = 1, 2 = 2, etc.).

Input Data

External Speaker Number	1~9

Item No.	Paging Group Number	Default
01	0~8 (0 = No Setting)	Speaker 1 [PGD(2)-U10 ADP] = 1 (Group 1) Speaker 2 [PGD(2)-U10 ADP] = 2 (Group 2) Speaker 3 [PGD(2)-U10 ADP] = 3 (Group 3) Speaker 4 [PGD(2)-U10 ADP] = 4 (Group 4) Speaker 5 [PGD(2)-U10 ADP] = 5 (Group 5) Speaker 6 [PGD(2)-U10 ADP] = 6 (Group 6) Speaker 7 [PGD(2)-U10 ADP] = 7 (Group 7) Speaker 8 [PGD(2)-U10 ADP] = 8 (Group 8) Speaker 9 (GCD-CP10 or GCD-CP20) = 1 (Group 1)

Conditions

None

Feature Cross Reference

➥ **Paging, External**

Program 31 : Paging Setup

31-05 : Universal Night Answer/Ring Over Page

Level:
IN

Description

Use **Program 31-05 : Universal Night Answer/Ring Over Page** to assign Universal Night Answer ringing to each External Paging zone. For each trunk port, make a separate entry for each External Paging zone. When programming, the zones on the PGD(2)-U10 ADP are numbers 1~8. The GCD-CP10 or GCD-CP20 zone is number 9. For UNA ringing, make a separate entry for each Night Service mode.

Input Data

Trunk Port Number	1~400

External Speaker Number	1~9

Item No.	Day/Night Mode	Input Data	Default
01	1~8	0 = No Ringing (No) 1 = Ringing (Yes)	0

Conditions
None

Feature Cross Reference

- **Night Services**
- **Paging, External**

Program 31 : Paging Setup

31-06 : External Speaker Control

Level: IN

Description

Use **Program 31-06 : External Speaker Control** to define the settings for the external speaker using an amplifier.

Input Data

External Speaker Number	1~9

Item No.	Item	Input Data	Default
01	**Broadcast Splash Tone Before Paging (Paging Start Tone)** Enable/Disable splash tone before Paging over an external zone. If enabled, the system broadcasts a splash tone before the External Paging announcement.	0 = No Tone (None) 1 = Splash Tone 2 = Chime Tone	2
02	**Broadcast Splash Tone After Paging (Paging End Time)** Enable/Disable splash tone after Paging over an external zone. If enabled, the system broadcasts a splash tone at the end of an External Paging announcement.	0 = No Tone (None) 1 = Splash Tone 2 = Chime Tone	2
03	**Speech Path** Determine if the external speaker is used for talkback (As this option is not available with the GCD-CP10 or GCD-CP20 external page zone, speaker 9 should be left at **1**).	0 = Both Way (Duplex) 1 = One Way (PGD(2)-U10 ADP → SPK) (Simplex)	1
04	**CODEC Transmit Gain Setup**	1~57 (-15.5 ~ +12.5dB)	32
05	**CODEC Receive Gain Setup**	1~57 (-15.5 ~ +12.5dB)	32

Conditions

None

Feature Cross Reference

➥ **Paging, External**

Program 31 : Paging Setup

31-07 : Combined Paging Assignments

Level: IN

Description

Use **Program 31-07 : Combined Paging Assignments** to assign an External Paging Group (0~8) to an Internal Paging Zone (0~64) for Combined Paging. When an extension user makes a Combined Page, they simultaneously broadcast into both the External and Internal Zone.

Use Program 31-04-01 to assign an External Paging Zone (1~9) to an External Page Group (1~8).

Input Data

External Paging Group Number	0~8 (0 = All External Paging)

Item No.	Internal Paging Group Number	Default
01	0~64 (0 = All Internal Paging)	1

Conditions

None

Feature Cross Reference

➥ **Paging, External**

➥ **Paging, Internal**

Program 31 : Paging Setup

31-08 : BGM on External Paging

Level: IN

Description

Use **Program 31-08 : BGM on External Paging** to set the Background Music option for each External Paging zone. If enabled, the system plays Background Music over the zone when it is idle.

When programming, the zones on the PGD(2)-U10 ADP are numbers 1~8. The GCD-CP10 or GCD-CP20 zone is number 9.

Input Data

External Speaker Number	1~9

Item No.	Item	Item	Input Data	Default
01	**BGM**	Enable/Disable the External Paging zone you select from broadcasting Background Music when it is idle.	0 = Disable (No) 1 = Enable (Yes)	0

Conditions

None

Feature Cross Reference

- **Background Music**
- **Paging, External**

Program 32 : Door Box and Sensor Setup

32-01 : Door Box Timers Setup

Level: IN

Description

Use **Program 32-01 : Door Box Timers Setup** to assign the timers used for the Door Box.

NOTE — ***The Door Box feature is called Door Phone when programming via WebPro and using a multiline terminal.***

Input Data

Item No.	Item	Input Data	Default
01	**Door Box Answer Time** A multiline terminal user must answer Door Box chimes during this time.	0~64800 (sec)	30
02	**Door Lock Cancel Time** When a single line (2500 type) telephone user hook flashes or a multiline terminal user presses the Recall key while talking to a Door Box, the strike stays open for this time.	0~64800 (sec)	10
03	**Off-Premise Call Forward by Door Box Disconnect Timer** Define the conversation period for an Off-Premise Call Forward by Door Box call. When this timer expires, the caller hears busy tone for three seconds (fixed time), and the call is then disconnected.	0~64800 (sec)	60

Conditions

None

Feature Cross Reference

➥ **Door Box**

Program 32 : Door Box and Sensor Setup

32-02 : Door Box Ring Assignment

Level: SA

Description

Use **Program 32-02 : Door Box Ring Assignment** to assign the extension which rings when a caller presses the associated Door Box call button.

NOTE *The Door Box feature is called Door Phone when programming via WebPro and using a multiline terminal.*

Input Data

Door Box Number	1~8

Day/Night Mode	1~8

Item No.	Door Box Ring Group Number	Extension Number	Default
01	01~32	Maximum eight digits	No Setting

Conditions

None

Feature Cross Reference

➥ **Door Box**

Program 32 : Door Box and Sensor Setup

32-03 : Door Box Basic Setup

Level: IN

Description

Use **Program 32-03 : Door Box Basic Setup** to select the chime pattern and gain level for each Door Box. There are six distinctive chime patterns. The chime tones are defined in 80-01 : Service Tone Setup on page 2-695.

NOTE *The Door Box feature is called Door Phone when programming via WebPro and using a multiline terminal.*

Input Data

Door Box Number	1~8

Item No.	Item	Input Data	Default
01	**Chime Pattern**	0 = None 1 = Door Box Ring 1 2 = Door Box Ring 2 3 = Door Box Ring 3 4 = Door Box Ring 4 5 = Door Box Ring 5 6 = Door Box Ring 6	Door Box 1 = 1 Door Box 2 = 2 Door Box 3 = 3 Door Box 4 = 4 Door Box 5 = 5 Door Box 6 = 6 Door Box 7 = 1 Door Box 8 = 1
02	**CODEC Transmit Gain Setup** (PGD(2)-U10 ADP to Door Box)	1~57 (-15.5dB ~ +12.5dB)	32
03	**CODEC Receive Gain Setup** (Door Box to PGD(2)-U10 ADP)	1~57 (-15.5dB ~ +12.5dB)	32

Conditions

None

Feature Cross Reference

➥ **Door Box**

Program 32 : Door Box and Sensor Setup

32-04 : Door Box Name Setup

Level: IN

Description

Use **Program 32-04 : Door Box Name Setup** to define the name of each Door Box.

NOTE — *The Door Box feature is called Door Phone when programming via WebPro and using a multiline terminal.*

Input Data

Door Box Number	1~8

Item No.	Item	Input Data	Default
01	**Door Box Name**	Up to 12 characters	Door Box Name 1 = DOOR- 1 Door Box Name 2 = DOOR- 2 Door Box Name 3 = DOOR- 3 Door Box Name 4 = DOOR- 4 Door Box Name 5 = DOOR- 5 Door Box Name 6 = DOOR- 6 Door Box Name 7 = DOOR- 7 Door Box Name 8 = DOOR- 8

Conditions

None

Feature Cross Reference

➥ **Door Box**

Program 33 : CTA and ACI Setup

33-01 : ACI Port Type Setup

Level: IN

Description

Use **Program 33-01 : ACI Port Type Setup** to set the function of each software port on an Analog Communications Interface. Each ACI software port can have only one function (input, output or none).

Input Data

ACI Port Number	01~96

Item No.	ACI Type	Default
01	0 = None 1 = MOH/BGM (Input) 2 = External Audio Port (Input/Output)	2

Conditions

None

Feature Cross Reference

➥ **Analog Communications Interface (ACI)**

Program 33 : CTA and ACI Setup

33-02 : ACI Department Calling Group

Level: IN

Description

Use **Program 33-02 : ACI Department Calling Group** to assign ACI ports to Department Groups. An ACI port can be in only one group.

Also use this program to set the ACI port priority. When a call comes into the ACI Department Group, it connects to the ACI port in order of its priority. A higher priority port (e.g., 1) receives calls before a lower priority port (e.g., 6). There are 96 ACI ports and 16 ACI Department Groups available.

Input Data

ACI Port Number	01~96

Item No.	Group Number	Priority
01	01~16	1~96

Default

ACI Port	Group	Priority
01	1	1
02	1	2
:	:	:
96	1	96

Conditions

None

Feature Cross Reference

➥ **Analog Communications Interface (ACI)**

Program 34 : Tie Line Setup

34-01 : E&M Tie Line Basic Setup

Level: IN

Description

Use **Program 34-01 : E&M Tie Line Basic Setup** to define the basic settings for each E&M Tie line.

Input Data

Trunk Port Number	001~400

Item No.	Item	Input Data	Default	Description	Related Program
01	**DID/E&M Start Signaling**	0 = 2nd Dial Tone 1 = Wink 2 = Immediate 3 = Delay	1	Set the start signaling mode for DID and Tie trunks. DID and Tie trunks can use either immediate start or wink start signaling.	22-02
02	**Receive Dial Type for E&M Tie Line**	0 = DP 1 = DTMF 2 = MF	1		10-09
03	**E&M Dial-In Mode**	0 = Specify Extension Number (Intercom) 1 = Use Conversion Table (NTT)	0	Determine if the incoming Tie Line call should be directed as an intercom call or if it should follow the DID Translation Table in Program 22-11.	22-11
04	**E&M Line Dial Tone**	0 = Disable (No) 1 = Enable (Yes)	1	Enter 1 if the Tie Line should send dial tone to the calling system after the call is set up. Enter 0 if the Tie Line should not send dial tone.	
05	**System Toll Restriction**	0 = System 1 = Each extension	0	Determine if an incoming Tie Line call should be subject to Toll Restriction.	21-05

Conditions

None

Feature Cross Reference

Tie Lines

Program 34 : Tie Line Setup

34-02 : E&M Tie Line Class of Service

Level: IN

Description

Use **Program 34-02 : E&M Tie Line Class of Service** to assign a Class of Service to a Tie line (there are 15 Tie line Classes of Service). The Class of Service options are defined in Program 20-14. For each Tie line, make a separate entry for each Night Service mode.

Input Data

Trunk Port Number	1~400

Item No.	Day/Night Mode	Class	Default	Related Program
01	1~8	1~15	1	20-14

Conditions

Program 20-06 cannot be used to assign Class of Service to Tie lines.

Feature Cross Reference

➥ **Tie Lines**

Program 34 : Tie Line Setup

34-03 : Trunk Group Routing for E&M Tie Lines

Level: IN

Description

Use **Program 34-03 : Trunk Group Routing for E&M Tie Lines** to assign the trunk group route 1~8 or 1~100) chosen when a user seizes a Tie Line and dials 9. (Set Trunk Group Routing in Program 14-07.) If the system has Automatic Route Selection, dialing 9 accesses ARS. Make a separate entry for each Tie Line – for each Night Service Mode.

Input Data

Trunk Port Number	001~400

Item No.	Day/ Night Mode	Route Table Number	Default
01	1~8	0~100 0 = No Setting	1

Conditions

None

Feature Cross Reference

➥ **Tie Lines**

Program 34 : Tie Line Setup

34-04 : E&M Tie Line Toll Restriction Class

Level: IN

Description

Use **Program 34-04 : E&M Tie Line Toll Restriction Class** to enter a Toll Restriction Class for each Tie Line. There are 15 Toll Restriction Classes which are defined in Programs 21-05 and 21-06. For each Tie Line, you make a separate Toll Restriction Class entry for each Night Service mode.

Input Data

Trunk Port Number	001~400

Item No.	Day/Night Mode	Toll Restriction Class	Default	Related Program
01	1~8	1~15	2	21-05 14-01-08

Conditions

Program 20-06 cannot be used to assign Toll Restriction to Tie Lines.

Feature Cross Reference

➥ **Tie Lines**

Program 34 : Tie Line Setup

34-05 : Tie Line Outgoing Call Restriction

Level: IN

Description

Use **Program 34-05 : Tie Line Outgoing Call Restriction** to build a restriction matrix for outgoing trunk calls placed from an inbound trunk (e.g., dialed from a Tie Line). For each inbound trunk group, enable or disable access to each CO trunk group.

Input Data

Incoming Trunk Group Number	001~100

Outgoing Trunk Group Number	Input Data	Default
1~100	0 = Enable (Y-Tandem) 1 = Disable (N-Tandem)	0

Conditions

None

Feature Cross Reference

➥ **Tie Lines**

Program 34 : Tie Line Setup

34-06 : Add/Delete Digit for E&M Tie Line

Level: IN

Description

Use **Program 34-06 : Add/Delete Digit for E&M Tie Line** to set digits that the system should add or delete for Tie Lines.

- **Delete Digit**
  Some Tie Line networks pass the location number and extension number to the remote side. This program allows the system to ignore such numbers for a call.

  If individual extension users do not want to receive an incoming call, they could delete all digits including the extension number.

- **Add Digit**
  If a Tie Line network requires additional digits to reroute the call to a location, the digits for the location can be added to the received digits.

Input Data

Incoming Trunk Group Number	001~100

Item No.	Item	Input Data	Default
01	**Delete Digit**	0~255 (255 = delete all digits)	0
02	**Additional Dial Digits**	Up to four digits (0~9, ∗, #)	No Setting

Conditions

None

Feature Cross Reference

➥ **Tie Lines**

Program 34 : Tie Line Setup

34-07 : E&M Tie Line Timer

Level: IN

Description

Use **Program 34-07 : E&M Tie Line Timer** to define the system service tone timers.

Input Data

Item No.	Item	Input Data	Default
01	**First Digit Pause (E&M Immediate Start)**	0~64800	3
02	**First Digit Pause (E&M Wink Start)**	0~64800	0
03	**First Digit Pause (LD Trunk)**	0~64800	3
04	**LD Trunk Guard Time**	0~64800	0
05	**Trunk Answer Detect Timer for E&M**	0~64800	30

Conditions

If PRG 34-07-05 is left at default (30) the transferred call recalls to the station that performed the transfer when not answered.

Feature Cross Reference

➥ **Tie Lines**

Program 34 : Tie Line Setup

34-08 : Toll Restriction Data for E&M Tie Lines

Level: IN

Description

Use **Program 34-08 : Toll Restriction Data for E&M Tie Lines** to define the toll restriction data for E&M Tie Lines. This data should be defined if Tie Line Toll Restriction is enabled in Program 21-05-13.

Input Data

Class of Service	01~15

Item No.	Table No.	Dial Data	Default	Related Program
01	01~20	Up to 10 Digits (0~9, ∗, #)	No Setting	21-05-13

Conditions

None

Feature Cross Reference

➥ **Tie Lines**

Program 34 : Tie Line Setup

34-09 : ANI/DNIS Service Options

Level: IN

Description

Use **Program 34-09 : ANI/DNIS Service Options** to define the ANI//DNIS service option setup for E&M Class of Service.

Input Data

Class of Service	01~15

Item No.	Name	Input Data	Default	Related Program
01	**Receive Format** Specify the format of the ANI/DNIS data received from the Telco. Make sure your entry is compatible with the service the Telco provides. The character ∗ indicates a delimiter. ➨ *If PRG34-01-02 is selected to 2 (MF), this PRG works only as 4 =*ANI*DNIS*.*	0 = Address 1 = ∗ANI∗ 2 = ∗DNIS∗ 3 = ∗ANI∗Address∗ 4 = ∗ANI∗DNIS∗ 5 = ∗DNIS∗ANI∗ (∗ = Delimiter Code)	All Class 1 = 0	34-01-02 34-09-02
02	**Delimiter Dial Code** Define the character Telco uses as a delimiter (see entries 1~5 in Item 1 above). Valid entries are 0~9, **#**, and ∗.	1~9, 0, **#**, ∗	All Class = ∗	34-09-01
03	**Route Setup of Receive Dial** Specify the source of the data the system uses to route incoming ANI/DNIS calls. If option **2** is selected, refer to Program 34-09-04.	0 = Fixed Route (Item 08) (No Routing) 1 = Routes on Received DNIS or Address Data 2 = Routes on Received ANI Data	All Class = 0	22-09-01 22-11-01 34-09-04 34-09-08

Item No.	Name	Input Data	Default	Related Program
04	**Route Table Setup of Target Dial** Set how the system uses the route data (gathered in Item 3) to route incoming ANI/DNIS calls. If option 2 is selected, and the call is to be routed using the DID table (1), up to 8 digits can be matched. The number of expected digits set in Program 22-09-01 must match the ANI digits defined in Program 22-11-01. For example, if an ANI/DNIS number received was ✱2035551234✱3001✱ and Program 22-09-01=4, the entry in 22-11-01 must be 1234 with the defined target extension. If the call is to be routed using the SPD table (0), up to 24 digits can be matched. Define the range of the SPD table to be used in Program 34-09-06. The data is compared to the entries in Program 13-04-01 and then routed according to Program 13-04-03.	0 = SPD Table (Program 13-03) 1 = DID Table (Program 22-11)	All Class = 0	13-04-01 13-04-03 22-09-01 22-11 34-09-05 34-09-06
05	**ANI/DNIS Display as Target Dial Name** Set whether or not ANI data should appear on telephone displays as part of Caller ID display.	0 = Display Off 1 = Display On	Class 1 =1 Class 2-15 = 0	13-04 20-09-02 22-11-03 23-09-04
06	**Routing SPD Table Setup** Define which part of the SPD Table set up in Program 13-04 the system uses for ANI/DNIS Caller ID look-ups and ANI/DNIS routing. This is required if Items 04 and 05 above are 1 (Caller ID on). When you specify a starting and end address, the system uses the part of the table for look-ups. When you specify a starting address and length, the system uses that part of the table for routing. If the incoming ANI/DNIS number data matches the Number entry in the table, the system routes according to the associated Name data. That data can be an extension, Department Group pilot number, the voice mail master number or a trunk ring group.	Start = 0, 100~9990 End = 0, 99~9999	Class 1 Start = 1000 End = 1199 Class 2-15 Start = 0 End = 0	13-04
07	**Routing on ANI/DNIS Error** Determine how the system handles an ANI/DNIS call if a data error is detected in the incoming data string.	0 = Play Busy Tone to Caller 1 = Route Caller to Ring Group Specified in Program 25-03 (Transfer)	Class 1 =1 Class 2-15 = 0	25-03

Item No.	Name	Input Data	Default	Related Program
08	**Routing When Destination Busy or No Answer** Determine how the system handles an ANI/DNIS call if destination is busy or does not answer.	0 = Play Busy or Ringback Tone to Caller (Busy/ NoAns) 1 = Route Caller to Ring Group Specified in Program 25-04 (Transfer)	All Class = 0	25-04
09	**Calling Number Address Length** When Item 01 = 0 (ANI/DNIS receive format is the address). Specify the address length.	1~8 digits	All Class = 7	34-09-01

Conditions

None

Feature Cross Reference

- **T1 Trunking (with ANI/DNIS Compatibility)**
- **Tie Lines**

Program 34 : Tie Line Setup

34-10 : Digits Delete for T1 ANI Assignment

Level:
IN

Description

Use **Program 34-10 : Digits Delete for T1 ANI Assignment** to delete the Information Digits received from the Network on Feature Group D Trunks.

Input Data

Incoming Trunk Group No.	001~100

Item No.	Item	Input Data	Default	Description
01	**Delete Digits for T1 ANI** Define the number of digits to delete from the information element received from Telco.	0~9 digits	2	Assign the number of information digits to delete from the element received from the Network.

Example:

Example of ANI information KP009727517645STKP7100ST.

00	Information digits
9727517645	ANI information
7100	DNIS Digits

Conditions
None

Feature Cross Reference

➥ **T1 Trunking (with ANI/DNIS Ability)**

Program 35 : SMDR Account Code Setup

35-01 : SMDR Options

Level: IN

Description

Use **Program 35-01 : SMDR Options** to set the SMDR (Station Message Detail Recording) options. Refer to the following chart for a description of each option, its range and default setting.

Item No.	Item	Input Data	Default
01	**Output Port Type** Specify the type of connection used for SMDR.	0 = No setting 1 = Not used 2 = Not used 3 = LAN (CCPU) 4 = Not used	0
03	**Header Language** Specify the language in which the SMDR header should be printed.	0 = English 1 = German 2 = French 3 = Italian 4 = Spanish	0
04	**Omit Digits** The number of digits entered in this option do not print on the SMDR report. For example, if the entry is 10, the last 10 digits a user dials do not appear on the SMDR report.	0~24 (0 = Not applied)	0
05	**Minimum Digits** Outgoing calls must be at least this number of digits for inclusion in the SMDR report.	0~24 (0 = Not applied)	0
06	**Minimum Call Duration** The duration of the call must be at least this time to be included on the SMDR report.	0~65535 (sec) (0 = All)	0
07	**Minimum Ring Time (For Incoming Calls)** A call must ring for at least this time to be included on the SMDR report.	0~65535 (sec) (0 = All)	0

Item No.	Item	Input Data	Default
08	**Format Selection**	0 = NA Type (North America) 1 = G/J Type (Overseas/ Japan)	0

Conditions

None

Feature Cross Reference

➥ **Station Message Detail Recording**

Program 35 : SMDR Account Code Setup

35-02 : SMDR Output Options

Level: IN

Description

Use **Program 35-02 : SMDR Output Options** to set the SMDR (Station Message Detail Recording) output options. Refer to the following chart for a description of each option, its range and default setting.

Item No.	Item	Input Data	Default
01	**Toll Restricted Call** SMDR can include or exclude calls blocked by Toll Restriction.	0 = Not Displayed 1 = Displayed	1
02	**PBX Calls** When the system is behind a PBX, SMDR can include all calls (1), or just calls dialed using the PBX trunk access code (0).	0 = Not Displayed 1 = Displayed	1
03	**Trunk Number or Name** Select whether the system should display the trunk number or the name on SMDR reports. ➡ *If this option is set to **1**, Program 35-02-14 must be set to **0**.*	0 = Name 1 = Number	1
04	**Summary (Daily)** Set to 1 to have the SMDR report provide a daily summary (at midnight every night).	0 = Not Displayed 1 = Displayed	1
05	**Summary (Weekly)** Set to 1 to have the SMDR report provide a weekly summary (every Saturday at midnight).	0 = Not Displayed 1 = Displayed	1
06	**Summary (Monthly)** Set to 1 to have the SMDR report provide a monthly summary (at midnight on the last day of the month).	0 = Not Displayed 1 = Displayed	1
07	**Toll Charge Cost** Set to 1 to have the SMDR report include toll charges.	0 = Not Displayed 1 = Displayed	1
08	**Incoming Call** Enable this option (1) to have the SMDR report include incoming calls. If you disable this option (0), incoming calls do not print.	0 = Not Displayed 1 = Displayed	1

Item No.	Item	Input Data	Default
09	**Extension Number or Name** Set to 1 to have the SMDR report include extension numbers. Set to 0 to have the SMDR report include extension names.	0 = Name 1 = Number	1
10	**All Lines Busy (ALB) Output** Determine if the All Lines Busy (ALB) indication should be displayed.	0 = Not Displayed 1 = Displayed	0
11	**Walking Toll Restriction Table Number**	0 = Not Output 1 = Output	1
12	**DID Table Name Output** Determine if the DID table name should be displayed.	0 = Not Displayed 1 = Displayed	0
13	**CLI Output When DID to Trunk** Determine if the CLI output should be displayed for DID.	0 = Not Displayed 1 = Displayed	0
14	**Date** Determine whether or not the date should be displayed on SMDR reports. ➡ *This option must be set to 0 if the trunk name is set to be displayed in Program 35-02-03.*	0 = Not Displayed 1 = Displayed	0
15	**CLI/DID Number Switching** Determine if the CLI or DID Number Switching should be displayed.	0 = CLI (CLIP) 1 = DID Calling Number 2 = CID Name	0
16	**Trunk Name or Received Dialed Number** Determine how the SMDR should print incoming calls on ANI/DNIS or DID trunks. If set to 1, ANI/DNIS trunks can print DNIS digits. If set to 0 trunk names are printed instead. (With V5000 or higher, option “2” is available)	0 = Trunk Port Name 1 = Received Dialed Number 2 = Both	0
17	**Print Account Code or Caller Name of Incoming Call** Determine if SMDR should print Account Code or Caller Name of Incoming Call.	0 = ACC 1 = CNAME	0
18	**Print Mode for Caller Name of Incoming Call** Determine how SMDR should print Caller Name of Incoming Call.	0 = Normal 1 = Line Feed	0
21	**S-Point Terminal Number**	0 = MSN Number 1 = Extension Number	0
22	**Security Auto Dialing**	0 = No Output 1 = Output	0
23	**Watch Auto Dialing**	0 = No Output 1 = Output	0

Item No.	Item	Input Data	Default
24	**Mark Virtual Loop** Define whether calls routed via the ISDN Virtual Loopback are tagged.	0 = Don't mark 1 = Mark	0

Conditions

None

Feature Cross Reference

➥ **Station Message Detail Recording**

Program 35 : SMDR Account Code Setup

35-05 : Account Code Setup

Level: IN

Description

Use **Program 35-05 : Account Code Setup** to set various Account Code options for an extension Class of Service. Assign a Class of Service to extensions in Program 20-06.

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default
01	**Account Code Mode** Select the Account Code Mode (0~3).	0 = Account Codes Disabled (None) 1 = Account Codes optional 2 = Account Codes Required but not verified (No verify) 3 = Account Codes Required and Verified (Verify)	0
02	**Forced Account Code Toll Call Setup** Enable Account Codes for all calls or just toll calls (for mode 2 or 3 in Item 01 above).	0 = Account Codes for toll and local calls All) 1 = Account Codes just for toll calls (STD)	0
03	**Account Codes for Incoming Calls** Allow users to enter Account Codes for incoming calls. If disabled, any code entered dials out on the connected trunk.	0 = Account Codes for incoming calls disabled (No) 1 = Account Codes for incoming calls enabled (Yes)	0
04	**Account Code Displayed Mode** Account Code display mode on Terminal LCD during Account Code is opening.	0 = Account Codes displayed 1 = Account Code is not displayed	0

Conditions

None

Feature Cross Reference

➥ **Account Codes**

Program 35 : SMDR Account Code Setup

35-06 : Verified Account Code Table

Level: IN

Description

Use **Program 35-06 : Verified Account Code Table** to enter Account Codes into the Verified Account Code list. You can enter up to 2000 codes using the characters 0~9 or **#**. Use the LK1 to enter a wild card. For example, the entry @234 means the user can enter 0234-9234.

Input Data

Verified Account Code Bin Number	1~2000

Item No.	Verified Account Code	Default
01	1~9, 0, **#**, @ (@ = Wild card) (Up to 16 digits)	No Setting

Conditions

None

Feature Cross Reference

➥ **Account Codes - Forced/Verified/Unverified**

Issue 9.0

Program 40 : Voice Recording System

40-07 : Voice Prompt Language Assignment for VRS

Level: IN

Description

Use **Program 40-07 : Voice Prompt Language Assignment for VRS** to specify the language to be used for the VRS prompts.

Item No.	Item	Input Data	Default
01	**Voice Prompt Language Assignment for VRS**	01 = US English 02 = UK English 03 = Australian English 04 = French Canadian 05 = Dutch 06 = Mexican Spanish 07 = Latin American Spanish 08 = Italian 09 = German 10 = Madrid Spanish 11 = Norwegian 12 = Parisian French 13 = Brazilian Portuguese 14 = Japanese 15 = Mandarin Chinese 16 = Korean 17 = Iberian Portuguese 18 = Greek 19 = Danish 20 = Swedish 21 = Thai 22 = Mandarin Chinese (Taiwan) 23 = Flemish 24 = Turkish 25 = Reserved 26 = Russian 27 = Polish 28 = Hebrew	1

Conditions

None

Feature Cross Reference

➥ **Voice Mail Integration (Analog)**

Program 40 : Voice Recording System

40-10 : Voice Announcement Service Option

Level: IN

Description

In **Program 40-10 : Voice Announcement Service Option** define the system options for the Voice Announcement feature.

Item No.	Item	Input Data	Default
01	**VRS Fixed Message** Enable (1)/Disable (2) the system ability to play the fixed VRS messages (such as, “You have a message”).	0 = Not Used 1 = Use	1
02	**General Message Number** Assign the VRS message number to use for the General Message.	0~100 0 = No General Message Service	0
03	**VRS No Answer Destination** Assign the transferred Ring Group when the VRS is unanswered after Call Forwarding with Personal Greeting Message.	0~100 (Incoming Ring Group Number)	0 (No Setting)
04	**VRS No Answer Time** If an extension has Personal Greeting enabled and all VRS ports are busy, a DIL or DISA call to the extension waits this time for a VRS port to become free.	0~64800 (sec)	0
05	**Park and Page Repeat Timer (VRS Msg Resend)** If a Park and Page is not picked up during this time, the Paging announcement repeats.	0~64800 (sec)	0
06	**Set VRS Message for Private Call Refuse** **(VRS Msg Private Call)** This item assigns the VRS Message number to be used as Private Call Refuse. When Fixed message is set, VRS message guidance is: “Your call cannot go through.”	0~101 0 = No message 101 = Fixed message	0

Item No.	Item	Input Data	Default
07	**Set VRS Message for Caller ID Refuse (VRS Msg CID)** Assign the VRS Message number to be used as Caller ID Refuse. When Fixed message is set, VRS message guidance is: “Your call cannot go through.”	0~101 0 = No message 101 = Fixed message	0
08	**Call Attendant Busy Message**	0~100 0 = No message	0
09	**Call Attendant No Answer Message**	0~100 0 = No message	0
10	**Call Forward Remainder Announcement** Flag that controls the VRS playback announcement for ‘on the forwarded phone’.	0 = Do not play 1 = Play	1
11	**Call Forward Notification Announcement** Flag that controls the VRS playback announcement for ‘towards the incoming call’.	0 = Do not play 1 = Play	1

Conditions

None

Feature Cross Reference

➥ **Voice Response System (VRS)**

Program 40 : Voice Recording System

40-11 : Preamble Message Assignment

Level: IN

Description

In **Program 40-11 : Preamble Message Assignment** to assign the VRS message number to be used as the Preamble Message for each trunk. When the extension user answers the incoming call, the assigned VRS message is sent to the outside caller.

Input Data

Trunk Port Number	1~400

Item No.	Day/Night Mode	VRS Message Number	Default
01	1~8	0~100 0 = No Service	0

Conditions

None

Feature Cross Reference

➥ **Voice Response System (VRS)**

Program 41 : ACD Setup

41-01 : System Options for Contact Center

Level: IN

Description

In **Program 41-01 : System Options for Contact Center** to define the system options for the Contact Center feature.

Input Data

Item No.	Item	Input Data	Default
01	**System Supervisory Extension**	Up to eight digits (0~9, ∗, #)	No Setting
02	**Login ID Code Digit**	0~20 0 = No Login ID	0
03	**MIS Connection Ports**	0 = None 3 = LAN (GCD-CP10 or GCD-CP20)	0
04	**MIS Notification when Call receives Busy**	0 = Notifies 1 = No notification	0
05	**MIS Output Format** Select incoming DDI format which is used in MIS output (P events).	0 = Classic 1 = 8-digit DDI Field 2 = Extra DDI Event 3 = XML Format	0
06	**Login ID Restriction** Determine whether an ACD Agent Login Code must match Code set in PRG 41-21-01.	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-02 : Group and Agent Assignments

Level: SA

Description

In **Program 41-02 : Group and Agent Assignments**, for each extension number, assign an Group (1~64). A Group number iIssue 9.0s assigned to each Work Period number (1~8).

The assigned extension works as an agent extension in the following cases:

- The trunk belonging to an group receives an incoming call while an agent is logged in.
- An extension transfers a call to an group using the group pilot number.
- An incoming call is received with a DID/DISA number which is assigned as an pilot number.

Input Data

Extension Number	001 ~ 960

Item No.	Work Period Mode Number	Group No.	Default
01	1~8	0~64 0 = No setting	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-03 : Incoming Ring Group Assignment for Group

Level: SA

Description

In **Program 41-03 : Incoming Ring Group Assignment for Group**, for each incoming trunk group set up in Program 22-05, designate which Group (1~64) the trunks should ring for each of the eight Work Periods. Also use this program to assign an Incoming Trunk Ring Group as priority or normal. Use Program 41-06 to set up the Work Schedules and Work Periods for trunks. Use Program 41-07 to assign the Work Schedules to the days of the week.

Input Data

Incoming Ring Group Number	1~100

Work Period Mode Number	1~8

Item No.	Item	Input Data	Default
01	**Group Number**	0~64 0 = No setting	0
02	**Night Announcement Service**	0 = No 1 = Yes	0
03	**Priority Data** Determine whether or not an incoming call to a trunk ring group should follow a priority assignment.	0, 1~7 0 = No Priority 1 = Highest Priority 7 = Lowest Priority	0

Conditions

None

Feature Cross Reference

- Contact Center
- Ring Groups

Program 41 : ACD Setup

41-04 : Group Supervisor

Level: SA

Description

For each Group (1~64), use **Program 41-04 : Group Supervisor** to assign the group supervisor extension and operating mode. Operating modes are:

- 0 = Supervisor extension does not receive Group calls.
- 1 = Supervisor extension receives Group overflow calls only.
- 2 = Supervisor extension receives Group calls just like all other agents.

A Group can have only one supervisor. In addition, an extension can be a supervisor for only one Group.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Group Supervisor Extension**	Extension Number (Up to eight digits)	No Setting
02	**Operation Type**	0 = Do not receive incoming calls (No) 1 = Receive incoming calls for overflow (Busy) 2 = Receive incoming calls all the time (Yes)	0

Conditions

If you assign an extension as a Group Supervisor in this program, you cannot program the same extension as a System Supervisor in Program 41-01-01.

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-05 : Agent Work Schedules

Level: SA

Description

Use **Program 41-05: Agent Work Schedules** to set up the Work Schedules for Agents and Groups. For each Work Schedule (1~4), designate the start and stop times for each of the eight Work Periods. After you set up the schedules in this program, assign them to days of the week in Program 41-07. (This is the same program used by the Trunk Work Schedules.)

Extensions can log in only during their work period. Extensions receive the following calls when they are logged in.

- Call on a Trunk
  When the incoming ring group is assigned in the operating time (Program 41-03 and 41-06).
- Pilot Number Call
  Any time – if extensions are available.

Input Data

Work Schedule Time Pattern	1~4

Item No.	Work Period Mode Number	Start Time	End Time	Default
01	1~8	0000~2359	0000~2359	(Start) 0000 (End) 0000

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-06 : Trunk Work Schedules

Level: SA

Description

Use **Program 41-06 : Trunk Work Schedules** to set up the Work Schedules for trunks. For each Work Schedule (1~4), designate the start and stop times for each of the eight Work Periods. After you set up the schedules, assign them to days of the week in Program 41-07. (This is the same program used by the Agent Work Schedules.)

Input Data

Work Schedule Time Pattern Number	1~4

Item No.	Work Period Mode Number	Start Time	End Time	Default
01	1~8	0000~2359	0000~2359	(Start) 0000 (End) 0000

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-07 : Weekly Schedule Setup

Level: SA

Description

Use **Program 41-07 : Weekly Schedule Setup** to assign the four Work Schedules (1~4) to days of the week. The assignments you make in this program apply to both the Agent Work Schedules (Program 41-05) and the Trunk Work Schedules (Program 41-06).

Input Data

Item No.	Day Number	Time Pattern	Default
01	1 = Sunday	0~4 0 = No	0
	2 = Monday	0~4 0 = No	0
	3 = Tuesday	0~4 0 = No	0
	4 = Wednesday	0~4 0 = No	0
	5 = Thursday	0~4 0 = No	0
	6 = Friday	0~4 0 = No	0
	7 = Saturday	0~4 0 = No	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-08 : Overflow Options

Level: SA

Description

For each Group (1~64), use **Program 41-08 : Overflow Options** to assign the overflow mode (0~9), destination and announcement message types. Delay Announcement functions are not available for pilot number calls. Each Group can have unique overflow options. The table below outlines the entry options.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Overflow Operation Mode**	0 = No Overflow (None) 1 = Overflow with No Announcement 2 = No Overflow with First Announcement Only 3 = No Overflow with First & Second Announcements 4 = Overflow with First Announcement Only 5 = Overflow with First & Second Announcement 6 = --- Not Used --- 7 = --- Not Used --- 8 = No Overflow with Second Announcement Only 9 = Overflow with Second Announcement Only	0
02	**Overflow Destination**	0 = No Setting 1~64 = Group 65 = Overflow Table (Program 41-09) 66 = Voice Mail Integration 67 = System Speed (Program 41-08-05) 68 = Incoming Ring Group (Program 41-08-06)	0
03	**Delay Announcement Source Type**	0 = ACI 1 = VRS 2 = VM8000 InMail	0
04	**Overflow Transfer Time**	0~64800 (sec)	30
05	**System Speed Dial Bin**	0~9999 (Used when 41-08-02 is set to 67)	9999

Item No.	Item	Input Data	Default
06	**Incoming Ring Group when Overflow**	1~100 (Used when 41-08-02 is set to 68)	1

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-09 : Overflow Table Setting

Level: SA

Description

Use **Program 41-09 : Overflow Table Setting** to define the group to which a call is transferred when overflow occurs.

Input Data

Group No.	01~64

Item No.	Priority Order Number	Transfer Group Number With Overflow	Default
01	1~7	0~65 0 = No Setting 65 = In-Skin Voice Mail Integration	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-10 : ACI Delay Announcement

Level: SA

Description

Use Program **41-10 : ACI Delay Announcement** to define the ACI port number to be used for the delay announcement.

This program is activated when the delay announcement source and options are assigned as ACI in Program 41-08-03.

Input Data

Group No	01~64

Item No.	Item	Input Data	Default
01	**1st Delay Announcement ACI Port Number**	0~96 0 = No Setting	0
02	**2nd Delay Announcement ACI Port Number**	0~96 0 = No Setting	0
03	**1st Delay Announcement Connection Timer** Set the time before the 1st Delay Announcement is played.	0~64800 (sec)	4
04	**2nd Delay Announcement Connection Timer** Set the time the 1st Delay Announcement plays before the 2nd Delay Announcement starts to play.	0~64800 (sec)	60
05	**2nd Delay Announcement Sending Duration** Set the time the 2nd Delay Announcement plays. After this time expires, the call disconnects. To keep the call in queue, set this time to 0.	0~64800 (sec)	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-11 : VRS Delay Announcement

Level: SA

Description

Use **Program 41-11 : VRS Delay Announcement** to assign the VRS message number to use as the message source for the 1st and 2nd Delay Announcement Messages. Refer to Program 41-08 for more on setting up the overflow options.

This program is activated when the delay announcement source and options are assigned as VRS in Program 41-08-03.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Delay Message Start Timer** Input the time before the 1st Delay Message Starts.	0~64800 (sec)	0
02	**1st Delay Message Number** Input the VRS Message to be played as the 1st Delay Message.	0~101 0 = No Message 101 = Fixed Message	0
03	**1st Delay Message Sending Count** Input the number of times the 1st Delay Message is sent. If set to 0, the message is not played.	0~255	0
04	**2nd Delay Message Number** Input the VRS Message to be played as the 2nd Delay Message.	0~101 0 = No Message 101 = Fixed Message	0
05	**2nd Waiting Message Sending Count** Input the number of times the 2nd Delay Message is sent. If set to 0, the message is not played.	0~255	0
06	**Tone Kind at Message Interval** Input what is heard between the Delay messages.	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0
07	**Forced Disconnect Time after the 2nd Delay Message** Set the time, after the last 2nd Delay Message is played, before the call is disconnected.	0~64800 (sec) (0 = No Disconnect)	60

Item No.	Item	Input Data	Default
08	**Queue Depth Announcement** Input when the Queue Depth Announcement is played.	0 = Disable 1 = After 1st (1st) 2 = After 2nd (2nd) 3 = After 1st and 2nd (1st and 2nd)	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-12 : Night Announcement Setup

Level: SA

Description

Use **Program 41-12 : Night Announcement Setup** to define the night announce voice resource and sending time for each group. Night announcement availability depends on the setting in Program 41-03-02. The night announcement function is not available for pilot number calls.

Input Data

Group Number	01~64

Item No.	Item	Input Data	Default
01	**Night Announcement Source Type**	0 = ACI 1 = VRS	0
02	**Night Announcement ACI Port Number** Only used when PRG 41-12-01 is set to 0.	0~96 0 = No Setting	0
03	**Night Announce Sending Time** Only used when PRG 41-12-01 is set to 0.	0~64800 (sec)	30

Conditions

The Night Announcement function is not available for pilot number call.

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-13 : VRS Message Number for Night Announcement

Level: SA

Description

Use **Program 41-13 : VRS Message Number for Night Announcement** to define the VRS message number to use as the night announcement. This program is activated when the night announcement source is assigned as VRS in Program 41-12-01.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**VRS Message Number** Input the VRS Message to use for the Night Announcement.	0~100 0 = No Message	0
02	**Tone Kind at Message Interval** Input what is heard between the Night Announcements.	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-14 : Options Setup

Level: SA

Description

Use **Program 41-14 : Options Setup** to set various options for Groups. When you set an option for an Group, the setting is in force (if applicable) for all agents in the group. The chart below shows each of the options, the entries available, and the default entry.

Input Data

Group No	01~64

Item No.	Item	Input Data	Default
01	**Emergency Call Operation Mode** The supervisor must be logged in and have an Emergency Key programmed for this feature. By pressing the key once, the supervisor monitors the call – pressing twice barges in on the call.	0 = Call to system supervisory extension when group supervisory extension is busy. 1 = No calls to system supervisory extension when group supervisory extension is busy.	0
02	**Automatic Wrap Up Mode** Enable/Disable Automatic Wrap Up mode.	0 = After wrap up the mode key is pressed. (Manual) 1 = After call is finished automatically. (Auto)	0
03	**Priority for Overflow Calls** Determine whether the group should use its own priority assignment or follow the priority assigned in Program 41-03-03.	0 = Own group priority 1 = Priority order by Program 41-03-03	0
04	**Automatic Answer at Headset** Enable/Disable Automatic Answer for agents using headsets.	0 = Off 1 = On	0
06	**Call Queuing after 2nd Announcement** Determine whether the caller should hear the 2nd Delay Announcement and then be taken out of queue (1), or placed back into queue (0).	0 = Enable (Yes) 1 = Disable (No)	0

Item No.	Item	Input Data	Default
07	**Automatic Off Duty for SLT** Enable/Disable Automatic Off Duty (rest) mode for agents with SLT.	0 = No change to Off Duty mode 1 = Change to Off Duty mode automatically (Skip)	0
08	**Off Duty Mode** Enable/Disable the ability to receive internal calls when in Off Duty Mode.	0 = Cannot receive internal call 1 = Can receive internal call	0
09	**Automatic Wrap Up End Time** Input the time the agent is in Wrap mode when Wrap key is pressed, or automatically put into Wrap mode.	0~64800 (sec)	0
10	**No Answer Skip Time** Set the time a call to the Group rings an idle extension before routing to the next agent.	0~64800 (sec)	10
12	**Start Headset Ear Piece Ringing (for SLT)**	0~64800 (sec)	0
13	**1st Data – Queue 1-Digit Assignment** **2nd Data – Destination Number Type** **3rd Data – Destination Number**	1st Data – Up to one Digit (0, 1~9, #, ∗) 2nd Data – 0 = None 1 = Extension or Voice Mail 2 = Incoming Ring Group 3 = Speed Dial Areas 4 = Group 3rd Data – Up to eight digits (0, 1~9, #, ∗)	Blank 0 Blank
14	**DTMF Detection Assignment during Delay Announcement** Set whether the DTMF Detection for Dial Out occurs during or after the message is played.	0 = Does not detect during message 1 = Detect during message	1
15	**DTMF Detect Time after Delay Announcement Message** Set the time for DTMF Detection after the Delay Announcement Message.	0~64800 (sec)	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-15 : Queue Alarm Information

Level: SA

Description

Use **Program 41-15 : Queue Alarm Information** to assign the options for Audible Indication for Log Out/Off Duty mode for each group.

These program settings provide an alarm to the agents, but no Queue Status Display is indicated. ***Do not use these programs*** if the alarm options are defined in Program 41-20-01 through 41-20-05.

Feature	Available in Program 41-15	Available in Program 41-20
Queue Status Display	---	Yes
Queue Status Display Time	---	Yes
Alarm	Yes	Yes
Alarm Send Time	Program 41-15-02 determines the length/interval of the alarm.	Yes
Interval Time of Queue Status Display		Yes
Class of Service	---	Yes
Timing of Alarm and Display Queue Status	Alarm triggered after the number of calls in Program 41-15-01 is exceeded.	Alarm triggered after the number of calls in Program 41-20-01 is exceeded. Then follows Program 41-20-03 time for displaying status.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Number of Calls in Queue to Activate Alarm Information**	0~400 0 = No Alarm	0
02	**Interval Time of Alarm Information** Input the alarm sound time.	0~64800 (sec)	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-16 : Threshold Overflow

Level: SA

Description

Use **Program 41-16 : Threshold Overflow** to define the value of the threshold call overflow and the mode for each group.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Number of Calls in Queue** Define the maximum number of calls allowed in the queue before overflow occurs.	0~400 0 = No Limitation	0
02	**Operation Mode for Queue** Define how the system should handle calls when the number of calls in queue exceeds the threshold.	0 = The last waiting call is transferred 1 = The longest waiting call is transferred 2 = Send Busy Tone	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-17 : Login Mode Setup

Level: SA

Description

Use **Program 41-17 : Login Mode Setup** to define the login mode for each extension. If the AIC Login Mode is enabled, set the AIC Login and AIC Logout service codes for the AIC members in Program 11-13-08 and 11-13-09.

Input Data

Extension Number	001 ~ 960

Item No.	Login Mode	Default
01	0 = Normal Login Mode 1 = AIC Login Mode	0

Conditions

If set to **1**, note that a supervisor cannot log in/out an AIC member as they are not normal agents.

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-18 : Agent Identity Code Setup

Level: SA

Description

Use **Program 41-18 : Agent Identity Code Setup** to define the Agent Identity Code Table.

Input Data

AIC Table No.	001~960

Item No.	Item	Input Data	Default
01	**Agent Identity Code**	Up to four digits	No Setting
02	**Default Group Number**	0~64 0 = No Setting	0
03	**Group Number in Mode 1**	0~64 0 = No Setting	0
04	**Group Number in Mode 2**	0~64 0 = No Setting	0
05	**Group Number in Mode 3**	0~64 0 = No Setting	0
06	**Group Number in Mode 4**	0~64 0 = No Setting	0
07	**Group Number in Mode 5**	0~64 0 = No Setting	0
08	**Group Number in Mode 6**	0~64 0 = No Setting	0
09	**Group Number in Mode 7**	0~64 0 = No Setting	0
10	**Group Number in Mode 8**	0~64 0 = No Setting	0

Conditions

None

Feature Cross Reference

None

Program 41 : ACD Setup

41-19 : Voice Mail Delay Announcement

Level: SA

Description

Use **Program 41-19 : Voice Mail Delay Announcement** to assign VM8000 InMail Master Mailboxes (PRG 47-03) as Delay Announcement Mailboxes.

Input Data

Group Number	1 ~ 64

Item No.	Item	Input Data	Default
01	**Delay Message Start Timer** Determine the time the system waits before playing the Delay Message.	0 ~ 64800 (sec)	0
02	**Mailbox Number for 1st Announcement Message** Assign the Voice Mail Announcement Mailbox as the message source for the 1st Announcement Message.	Dial (up to eight digits)	No Setting
03	**1st Delay Message Sending Count** Determine the 1st Delay Message Sending Count. This entry must be set to **1** or higher for the message to play.	0 = No message is played. 1 ~ 255	0
04	**Mailbox Number for 2nd Announcement Message** Assign the Voice Mail Announcement Mailboxes as the message source for the 2nd Announcement Message.	Dial (up to eight digits)	No Setting
05	**2nd Delay Message Sending Count** Determine the 2nd Delay Message Sending Count. This entry must be set to **1** or higher for the message to play.	0 = No message is played. 1 ~ 255	0
06	**Wait Tone Type at Message Interval** Determine what the caller hears between the messages.	0 = Ring Back Tone 1 = Music On Hold Tone 2 = Background Music Source	0
07	**Forced Disconnect Time after 2nd Announcement** Assign the time the system should wait after the end of the Delay Message before disconnecting.	0 ~ 64800 (sec)	0

Item No.	Item	Input Data	Default
08	**Delay Message Interval Time** Set the time for the interval between the Delay Messages.	0 ~ 64800 (sec)	20

Conditions

None

Feature Cross Reference

None

Program 41 : ACD Setup

41-20 : Queue Display Settings

Level: SA

Description

Use **Program 41-20 : Queue Display Settings** to assign the options for the Queue Status Display feature. This program allows the Queue Status Display, and causes an alarm to sound, when the parameters in this program are met.

Program 41-15 can also provide a queue alarm to the agents. The options in Program 41-20 should not be used if 41-15 is set.

Feature	Available in Program 41-15	Available in Program 41-20
Queue Status Display	---	Yes
Queue Status Display Time	---	Yes
Alarm	Yes	Yes
Alarm Send Time	Program 41-15-02 determines the length/interval of the alarm.	Yes
Interval Time of Queue Status Display		Yes
Class of Service	---	Yes
Timing of Alarm and Display Queue Status	Alarm triggered after the number of calls in Program 41-15-01 is exceeded.	Alarm triggered after the number of calls in Program 41-20-01 is exceeded. Then follows Program 41-20-03 time for displaying status.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Number of Calls in Queue** Set the number of calls that can accumulate in the queue before the Queue Status Display (and optional queue alarm) occurs.	0 = No Display, 1~400	0
02	**Queue Status Display Time** Set the time the Queue Status display remains on the telephone display.	0~64800 (sec)	5 (sec)
03	**Queue Status Display Interval** Set the time that refreshes the Queue Status Alarm time in queue display and causes the optional queue alarm to occur on phones active on a call, logged out, or in wrap-up.	0~64800 (sec)	60 (sec)
04	**Call Waiting Alarm** Enable/Disable the queue alarm.	0 = Disable (Off) 1 = Enable (On)	0
05	**Call Waiting Alarm Hold Time** Set the time the Call Waiting Alarm should sound.	0~64800 (sec)	0
06	**ACD Queue Call Display Settings** Number of calls to switch the state of ACD Queue Alarm Display Key.	1 ~ 400 (0 = No Display)	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-21 : Login ID Setup

Level: SA

Description

Use **Program 41-21 : Login ID Setup** to assign the Login ID code to Skill Table used for Skill Based Routing.

Input Data

Login ID	01~960

Item No.	Item	Input Data	Default
01	**Login ID Code** Input the Login ID(s) to be used.	Up to 20 digits	No Setting
02	**Skill Table Number** Input the Skill Table number to be used for each Login ID.	0, 1~960	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-22 : Skill Based Routing Setup

Level: SA

Description

Use **Program 41-22 : Skill Based Routing Setup** to assign if the Group can use or not use Skill Based Routing.

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Skill Base Routing** This option determines if the Skill Based Routing is Used (1), or Not Used (0).	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-23 : Skill Table Setup

Level: SA

Description

Use **Program 41-23 : Skill Table Setup** to assign the skill level per table for each Group.

Input Data

Skill Table	1~960

Input Data

Group No.	01~64

Item No.	Item	Input Data	Default
01	**Skill Level** Input the Skill Level for each Queue for each Skill Table number.	1~7 (Level 1 is the highest level)	1

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 41 : ACD Setup

41-24 : Caller ID Marking Setup

Level: SA

Description

Use **Program 41-24 : Caller ID Marking Setup** to assign Enable/Disable the availability of setting that the Agent can mark the originator caller ID, system base.

Item No.	Item	Input Data	Default
01	**Caller ID Marking Setup** Enable/Disable the availability of setting that the Agent can mark the originator caller ID, system base.	0: Disable 1: Enable	0
02	**Agent Info for Caller ID** Set whether the Agent ID or extension number of the Agent is used to mark with the CID in the buffer.	0: Agent Extension Number 1: Agent ID	0
03	**Caller ID Buffer Clear Timer** Set time interval for clearing stored Caller ID record in buffer.	1~168 (hours)	24
04	**Caller ID Buffer Store Size** Set the Caller ID Buffer Size. When the number of CID records is over the limit, CID buffer threshold alarm (71) can be reported.	1000~10000	10000

Conditions

None

Feature Cross Reference

➥ **Contact Center**

Program 42 : Hotel Setup

42-01 : System Options for Hotel/Motel

Level: IN

Description

Use **Program 42-01 : System Options for Hotel/Motel** to assign the system options for Hotel/Motel Service.

Input Data

Item No.	Item	Input Data	Default
01	**Answering Message Mode for Wake Up Call (Hotel Mode)**	0 = MOH (Hold Time) 1 = VRS Message 2 = VRS Message + Time	0
02	**Wake Up Call Message Assignment** VRS Message for Wake Up Calls. You must make an entry for this program if you have selected 1 or 2 in Item 01 above.	0~100 0 = No Setting	0
03	**Wake Up Call No Answer**	0 = No Transfer 1 = Transfer to the Operator	0
04	**Setup Message Mode for Wake Up Call (Hotel Mode)** When set a Morning Call from guest room, SV9100 will be able to send to the guest telephone a couple of message.	0 = Confirmation Tone 1 = User Recorded VRS Message 2 = User Recorded Message + Time 3 = Fixed VRS Message + Time	0
05	**Wake Up Call Message Assignment**	0~100 0 = No Setting	0
06	**Flexible Room Status**	0 = Disable 1 = Enable	0
07	**Snooze Callback Timer** Assign the number of minutes before a Snooze Callback is performed.	0 = Not Activated 1 = (1~30) Minutes	10
08	**Snooze Callback Setting Dial** Assign the digit dialed by user to set Snooze Callback.	0~9, ∗, # (Up to one digit)	1

Refer to the tables below for valid status code changes when Program 42-01-06 is enabled or disabled.

Valid Room Status Changes when Program 42-01-06 is set to 1 (Enabled)												
Change Status	Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7	Code 8	Code 9	Code 0	Code ✱	Code #
Original Status												
Code 1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 5	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 9	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code ✱	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code #	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Valid Room Status Changes when Program 42-01-06 is set to 0 (Disabled)												
Change Status	Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7	Code 8	Code 9	Code 0	Code ✱	Code #
Original Status												
Code 1	N	Y	N	N	Y	Y	Y	Y	Y	N	Y	Y
Code 2	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 3	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
Code 4	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y
Code 5	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
Code 6	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
Code 7	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
Code 8	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Code 9	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
Code 0	Y	Y	N	N	Y	Y	Y	Y	Y	N	Y	Y
Code ✱	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Code #	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N

Conditions

None

Feature Cross Reference

➥ **Hotel/Motel**

Program 42 : Hotel Setup

42-02 : Hotel/Motel Telephone Setup

Level: IN

Description

Use **Program 42-02 : Hotel/Motel Telephone Setup** to define the basic operation of the Hotel/Motel extensions.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data	Default
01	**Hotel Mode** If you want an extension to operate in the Hotel/Motel mode, enter 1. If you want the telephone to operate in the business mode, enter 0.	0 = Normal 1 = Hotel	0
02	**Toll Restriction Class When Check In** Assign an extension Toll Restriction Class when it is checked in. The system has 15 Toll Restriction Classes (1~15). The entry you make in this option affects the telephone in all Night Service modes. (Refer to Programs 21-05 and 21-06 to set up the Toll Restriction dialing options.) When the extension is checked out, it uses the Toll Restriction Class set in Program 21-04.	1~15	1
03	**Room Status** This is a read only setting that shows the current room status setting. (Read Only)	Room Clean (Occupied) Maid Required Maid in Room Inspection Required Maintenance Request Out of Order Reserve 1 Reserve 2 Reserve 3 Room Clean (Vacant) Reserve 5 Reserve 6	N/A

Conditions

None

Feature Cross Reference

➥ **Hotel/Motel**

Program 42 : Hotel Setup

42-03 : Class of Service Options (Hotel/Motel)

Level: IN

Description

Use **Program 42-03 : Class of Service Options (Hotel/Motel)** to set the Hotel/Motel Class of Service (COS) options. Assign Class of Service to extensions in Program 42-02 : Hotel/Motel Telephone Setup. There are 15 Classes of Service. Refer to the following chart for a description of each COS option, its range and default setting. For additional Class of Service options, refer to Programs 20-06 ~ 20-14.

Input Data

Class of Service Number	01~15

Item No.	Item	Input Data	Default	
			Class 01	Class 02~15
01	**Check-In Operation**	0 = Off 1 = On	0	0
02	**Check-Out Operation**	0 = Off 1 = On	0	0
03	**Room Status Output**	0 = Off 1 = On	0	0
04	**DND Setting for Other Extension**	0 = Off 1 = On	0	0
05	**Wake up Call Setting for Other Extension**	0 = Off 1 = On	0	0
06	**Room Status Change for Other Extension**	0 = Off 1 = On	0	0
07	**Restriction Class Changing for Other Extension**	0 = Off 1 = On	0	0
08	**Room to Room Call Restriction**	0 = Off 1 = On	0	0
09	**DND Setting for Own Extension**	0 = Off 1 = On	0	0

Item No.	Item	Input Data	Default	
			Class 01	Class 02~15
10	**Wake Up Call Setting for Own Extension**	0 = Off 1 = On	0	0
11	**Change Room Status for Own Extension**	0 = Off 1 = On	0	0
12	**SLT Room Monitor** Enable (1)/Disable (0) a single line telephone ability to use Room Monitor.	0 = Off 1 = On	0	0
13	**PMS Restriction Level**	0 = Off 1 = On	0	0
14	**Show Guest Name on Other Hotel Phone**	0 = Off 1 = On	0	0
15	**Show this Guest Name on Staff Phone**	0 = Off 1 = On	1	1
16	**Show Guest Name on this Staff Phone**	0 = Off 1 = On	1	1

Conditions

None

Feature Cross Reference

- **Class of Service**
- **Hotel/Motel**

Program 42 : Hotel Setup

42-04 : Hotel Mode One-Digit Service Codes

Level: IN

Description

Use **Program 42-04 : Hotel Mode One-Digit Service Codes** to set up the Hotel Mode one-digit service codes which are assigned in 42-02-01. For each Department Calling Group (1~64 or 128: Version 10.00 or higher), you enter the destination for each single digit code (1~9, 0, ∗, #). The destination can be any code with up to four digits, such as an extension number or access code.

Input Data

Department (Extension) Group Number	01~64 01~128 (Version 10.00 or higher)

Item No.	Received Dial	Destination Number	Default
01	1~9,0,∗,#	Up to eight digits	No Setting

Conditions

The one-digit service codes you assign in this program wait until the interdigit time expires before executing.

Feature Cross Reference

➥ **Hotel/Motel**

Program 42 : Hotel Setup

42-05 : Hotel Room Status Printer

Level: IN

Description

Use **Program 42-05 : Hotel Room Status Printer** to set the CTA port to output the Hotel Data (Check-Out sheet, Room Status, etc.) and the output options for the Hotel/Motel feature.

Input Data

Item No.	Item	Input Data	Default
01	**Output Port Type**	0 = Not assigned 1 = Not used 2 = - - Reserved - - 3 = LAN	0
03	**Wake Up Call No Answer Data**	0 = Not Output 1 = Output	0
04	**Check-Out Sheet**	0 = Not Output 1 = Output	0
05	**PMS Protocol Type**	0 = Normal 1 = Fidelio	0

Conditions

- Room Status Reports output via a CTA or CTU adapter require a digital terminal and a compatible external device.
- Room Status Reports can be output via LAN port, or when using digital terminals, a CTA or CTU adapter and a compatible external device.

Feature Cross Reference

➥ **Hotel/Motel**

Program 42 : Hotel Setup

42-06 : PMS Service Setting

Level: IN

Description

Use **Program 42-06 : PMS Service Setting** to set the PMS integration settings when using PMS-U10 and PMS feature.

Input Data

Item No.	Item	Input Data	Default
01	**PMS Port Number** A system restart is required when changing this program for the change to take affect.	0~65535	5129
02	**3:00 AM Auto Room Scan** Set maid required status for all checked-in rooms at 3:00 AM.	0 = Off 1 = On	0
03	**CheckIn Message Type**	0 = Off 1 = On	0
04	**CheckOut Auto Status Change**	0 = Off 1 = On	0
05	**AREYUTHERE/LINETEST Send Timing**	1~128 (sec)	10
06	**AREYUTHERE/LINETEST Send Count**	0~20 (times)	3
07	**Check-out Auto Flexible Status Change** When PRG42-06-07 and PRG42-06-04 are both enabled, the status programmed in PRG42-06-08 is set upon checkout regardless of the previous room status.	0 = Disable 1 = Enable	0
08	**Status for Check-out Auto Flexible Status Change** When PRG42-06-07 is enabled the status programmed in 42-06-08 is set upon checkout.	1 = Room Clean (Occupied) 2 = Maid Required 3 = Maid in Room 4 = Inspection Required 5 = Maintenance Request 6 = Out of order 7 = Reserve 1 8 = Reserve 2 9 = Reserve 3 0 = Room Clean (Vacant)	4

Conditions

None

Feature Cross Reference

➥ **Hotel/Motel**

Program 42 : Hotel Setup

42-07 : PMS Restriction Level Conversion Table

Level: IN

Description

Use **Program 42-07 : PMS Restriction Level Conversion Table** to change the default Toll Restriction class on check in for a room (PRG 42-02-02).

Input Data

Restriction Level	0~3

Item No.	Item	Input Data	Default
01	**PMS Restriction Level Conversion Table**	1~15	Level 0 = 10 Level 1 = 11 Level 2 = 12 Level 3 = 13

Conditions

None

Feature Cross Reference

➥ **Hotel/Motel**

Program 42 : Hotel Setup

42-08 : Hotel Room Status Text Messages

Level: IN

Description

Use **Program 42-08 : Hotel Room Status Text Messages** to set the different room status using service code from room extension/operator.

Index 1

Room Status Number	1 ~ 9, 0, ✱, #

Index 2

Room Status 0 = Check In 1 = Check Out	

Input Data

Item No.	Item	Input Data	Default
01	**Fidelio Room Status Number**	1 = Dirty 2 = Cleaning 3 = Cleaned 4 = Inspected 5 = Out of Order 6 = Out of Service 7 = Reserve 1 8 = Reserve 2 9 = Reserve 3 0 = Reserve 4 * = Reserve 5 # = Reserve 6	Refer to attached Table 2-14 Room Status Default Values
02	**Text Data**	Maximum 32 Characters	Refer to attached Table 2-14 Room Status Default Values

Table 2-14 Room Status Default Values

Room Status No.	Room Status	Fidelio Code	Text Message																			
			1	2	3	4	5	6	7	8	9	#	#	#	#	#	#	#	#	#	#	#
1	Check-In	6																				
	Check-Out	5																				
2	Check-In	2																				
	Check-Out	1																				
3	Check-In	2																				
	Check-Out	1																				
4	Check-In	4																				
	Check-Out	3																				
5	Check-In	4																				
	Check-Out	3																				
6	Check-In	4																				
	Check-Out	3																				
7	Check-In	4																				
	Check-Out	3																				
8	Check-In	4																				
	Check-Out	3																				
9	Check-In	4																				
	Check-Out	3																				
0	Check-In	6																				
	Check-Out	5																				
*	Check-In	4																				
	Check-Out	3																				
#	Check-In	4																				
	Check-Out	3																				

Conditions

None

Feature Cross Reference

Hotel/Motel

Program 42 : Hotel Setup

42-09 : Flexible Setup for Room Status

Level: IN

Description

Use **Program 42-09 : Flexible Setup for Room Status** to enable dial room status codes. Note the code definitions only apply to the system itself. When sending room status messages to the PMS Application, the status codes are always sent as defined in the PMS Developer Guide.

For example, if in PRG 42-09-01 status code 1 is set to Inspection Required. The PMS Developer Guide defines “Inspection Required” as status message number 4. If in the SV9100 room status 1 is assigned to a room the PVA PMS interface will send status message number 4 to the PMS Application. If nothing is assigned in
PRG 42-09-01 the default room status codes are sent as defined in the PMS Developer Guide.

Input Data

Item No.	Item	Input Data	Default
01	**Flexible Setup for Room Status**	1 = Room Clean (Occupied) 2 = Maid Required 3 = Maid in Room 4 = Inspection Required 5 = Maintenance Request 6 = Out of order 7 = Reserve 1 8 = Reserve 2 9 = Reserve 3 0 = Room Clean (Vacant) * = Reserve 5 # = Reserve 6	Blank

Conditions
None

Feature Cross Reference

➥ **Hotel/Motel**

Program 44 : ARS/F-Route Setup

44-01 : System Options for ARS/F-Route

Level: IN

Description

Use **Program 44-01 : System Options for ARS/F-Route** to define the system options for the ARS/F-Route feature.

Input Data

Item No.	Item	Input Data	Default
01	**ARS/F-Route Time Schedule** If this option is set to **0**, the F-Route table selected is determined only by the digits dialed without any relation to the day or time of the call. If this option is set to **1**, the system first refers to Program 44-10. If there is a match, the pattern defined in that program is used. If not, the F-Route pattern in Program 44-09 and time setting in 44-08 are used.	0 = Not Used 1 = Used	0
02	**Dial Tone Simulation**	1 Digit (0~9) (∗, # cannot be used)	None
03	**Tone Type**	0 = Internal Dial Tone 1 = External Dial Tone	0

Conditions

None

Feature Cross Reference

- Automatic Route Selection (ARS)
- Uniform Numbering Network

Program 44 : ARS/F-Route Setup

44-02 : Dial Analysis Table for ARS/F-Route Access

Level: IN

Description

Use **Program 44-02 : Dial Analysis Table for ARS/F-Route Access** to set the Pre-Transaction Table for selecting ARS/F-Route.

Input Data

Dial Analysis Table Number	1~120

Item No.	Item	Input Data	Default
01	**Dial** Dial digits to be analyzed by the system.	Up to eight digits (Use line key 1 for a Don't Care digit, @)	No Setting
02	**Service Type** ❍ Service Type 1 (Extension Number) The number goes to an extension after deleting the front digit(s). *Additional Data* Assign the digit(s) to be deleted on top of the number for extension number usage. At least one digit must be deleted. ❍ Service Type 2 (ARS/F-Route) The number is controlled by ARS/F-Route table. *Additional Data:* If the ARS/F-Route Time Schedule is not used, assign the ARS/F-Route table number for Program 44-05. If the ARS/F-Route Time Schedule is used, assign the ARS/F-Route selection number for Program 44-04. ❍ Service Type 3 (Dial Extension Analyze Table) The total length of the number exceeds more than 8 digits. *Additional Data:* Assign the Dial Extension Analysis Table number to be used in Program 44-03.	0 = No setting (None) 1 = Extension Call (Own) 2 = ARS/F-Route Table (F-Route) 3 = Dial Extension Analyze Table (Option)	0

Item No.	Item	Input Data	Default
03	**Additional Data** For the Service Type selected in 44-02-02, enter the additional data required. ❍ 1: Delete Digit = 0~255 (255 = Delete All Digits) ❍ 2: [Program 44-01 : 0] ARS/F-Route Table Number = 0~500 (0 = No Setting) Refer to Program 44-05. [Program 44-01 : 1] ARS/F-Route Select Table Number = 0~500 (0 = No Setting) Refer to Program 44-04. ❍ 3: Dial Extension Analyze Table Number = 0~4 (0 = No Setting) Refer to Program 44-03.	1 = Delete Digit = 0~255 (255 : Delete All Digits) 2 = 0~500 (0 = No Setting) 3 = Dial Extension Analyze Table Number = 0~4 (0 = No Setting)	0
04	**Dial Tone Simulation** Enable to send dial tone to the calling party after the routing is determined. This may be required if the central office at the destination does not send dial tone.	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-03 : Dial Analysis Extension Table

Level: IN

Description

When Program 44-02-02 is set to type 3, use **Program 44-03 : Dial Analysis Extension Table** to set the dial extension analysis table. These tables are used when the analyzed digits must be more than eight digits. If the received digits do not match the digits set in tables 1~250, table number 252 is used to refer to the next Extension Table Area (1~4) to be searched. If the received digits are not identified in tables 1~250, the F-Route selection table number defined in table 251 is used.

Input Data

Extension Table Area Number	1~4

Dial Analysis Table Number	1~252

Dial Analysis Table Number : 1~250

Item No.	Item	Input Data	Default
01	**Dial**	Up to 24 digits Digits = 1~9, 0, ∗, #, @ (Press Line Key 1 for wild character @)	No Setting
02	**ARS/F-Route Select Table Number**	0~500 (ARS/F-Route Table Number) With Program 44-01 set to 0, Program 44-05 is checked. With Program 44-01 set to 1, Program 44-04 is checked.	0

Dial Analysis Table Number : 251

Item No.	Item	Input Data	Default
03	**ARS/F-Route Select Table Number**	0~500 (ARS/F-Route Table Number) With Program 44-01 set to 0, Program 44-05 is checked. With Program 44-01 set to 1, Program 44-04 is checked.	0

Dial Analysis Table Number : 252

Item No.	Item	Input Data	Default
04	**Next Table Area Number**	0~4	0

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-04 : ARS/F-Route Selection for Time Schedule

Level: IN

Description

Use **Program 44-04 : ARS/F-Route Selection for Time Schedule** to assign each ARS/F-Route Selection number to an ARS/F-Route table number for each ARS/F-Route time mode. There are eight time modes for ARS/F-Route Access.

Input Data

ARS/F-Route Selection Number	1~500

Item No.	ARS/F-Route Time Mode	ARS/F-Route Table Number	Default
01	1~8	0~500	0

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-05 : ARS/F-Route Table

Level: IN

Description

Use **Program 44-05 : ARS/F-Route Table** to set the ARS/F-Route table. There are four kinds of order. If the higher priority trunk groups are busy, the next order group is used. If a lower priority route is selected, the caller may be notified with a beep tone.

Input Data

ARS/F-Route Table Number	1~500

Priority Number	1~4

Item No.	Item	Input Data	Default
01	**Trunk Group Number** Select the trunk group number to use for the outgoing ARS call.	0~100, 101~150 (100+ Networking ID), 255 0 = No Setting 1~100 = Trunk Group from PRG 14-05 101~150 = Networking 255 = Extension Call	0
02	**Delete Digits** Enter the number of digits to be deleted from the dialed number.	0~255 (255 = Delete All)	0
03	**Additional Dial Number Table** Enter the table number (defined in Program 44-06) for additional digits to be dialed.	0~1000	0
04	**Beep Tone** Select whether or not a beep is heard if a lower priority trunk group is used to dial out.	0 = Off 1 = On	0
05	**Gain Table Number for Internal Calls** Select the gain table number to use for the internal call (defined in Program 44-07).	0~500 0 = No Setting	0
06	**Gain Table Number for Tandem Connections** Select the gain table number to use for the tandem call (defined in Program 44-07).	0~500 0 = No Setting	0

Item No.	Item	Input Data	Default
07	**ARS Class of Service** Select the ARS Class of Service to use for the table. An extension ARS COS is determined in Program 26-04-01.	0~50	0
08	**Dial Treatment** Select the Dial Treatment to use for the table. If a Dial Treatment is selected, Programs 44-05-02 and 44-05-03 are ignored and the Dial Treatment defined in Program 26-03-01 is used instead.	0~15	0
09	**Maximum Digit** Input the maximum number of digits to send when using the F-Route.	0~24	0
10	**CCIS over IP Destination Point Code** Input the Destination Point Code to send when using this F-Route.	0~16367	0
11	**Network Specified Parameter Table** Enter a table number from Program 26-12.	0~16	0

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-06 : Additional Dial Table

Level: IN

Description

Use **Program 44-06 : Additional Dial Table** to set the additional dial table to add prior to the dialed ARS/F-Route number. The Additional Dial Table used is determined in Program 44-05-03.

Input Data

Additional Dial Table Number	1~1000

Item No.	Additional Dial	Default
01	Up to 24 digits Enter: 1~9, 0, ∗, #, Pause (press LK 1 to enter a pause)	No Setting

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-07 : Gain Table for ARS/F-Route Access

Level: IN

Description

Use **Program 44-07 : Gain Table for ARS/F-Route Access** to set the gain/PAD table. If an extension dials ARS/F-Route number:

- The Extension Dial Gain Table, assigned in Program 44-05, is activated.
- The Extension Dial Gain Table follows Outgoing transmit and Outgoing receive settings.

If the incoming call is transferred to another line using ARS/F-Route:

- The Tandem Gain Table, assigned in Program 44-05, is activated.
- The Tandem Gain Table follows the Incoming transmit and Incoming receive settings for incoming line, and Outgoing transmit and Outgoing receive settings for the outgoing line.

NOTE — ***For ARS/F-Route calls, the CODEC gains defined in Program 14-01-02 and 14-01-03 are not activated.***

Input Data

Gain Table Number	1~500

Item No.	Item	Input Data	Default
01	**Incoming Transmit**	1~57 (-15.5 ~ +12.5dB)	32 (0dB)
02	**Incoming Receive**	1~57 (-15.5 ~ +12.5dB)	32 (0dB)
03	**Outgoing Transmit**	1~57 (-15.5 ~ +12.5dB)	32 (0dB)
04	**Outgoing Receive**	1~57 (-15.5 ~ +12.5dB)	32 (0dB)

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-08 : Time Schedule for ARS/F-Route

Level: IN

Description

Use **Program 44-08 : Time Schedule for ARS/F-Route** to define the daily pattern of the ARS/F-Route feature. ARS/F-Route has 10 time patterns. These patterns are used in Program 44-09 and 44-10. The daily pattern consists of 20 time settings.

Input Data

Schedule Pattern Number	01~10

Item No.	Time Number	Start Time	End Time	Mode
01	01~20	0000~2359	0000~2359	1~8

Default

All Schedule Patterns : 0:00 – 0:00, Mode 1

Example:

Pattern 1

0:00	8:00	18:00	22:00	0:00
Mode 3	Mode 1	Mode 2	Mode 3	

Time Number 01 : 00:00 – 08:00 Mode 3
Time Number 02 : 08:00 – 18:00 Mode 1
Time Number 03 : 18:00 – 22:00 Mode 2
Time Number 04 : 22:00 – 00:00 Mode 3

Pattern 2

0:00	0:00
Mode 2	

Time Number 01 : 0:00 – 0:00 Mode 2

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-09 : Weekly Schedule for ARS/F-Route

Level: IN

Description

Use **Program 44-09 : Weekly Schedule for ARS/F-Route** to define a weekly schedule for using ARS/F-Route. The pattern number is defined in Program 44-08-01.

Input Data

Item No.	Day Number	Schedule Pattern Number	Default
01	1 = Sunday	1~10	Pattern 1
	2 = Monday	1~10	Pattern 1
	3 = Tuesday	1~10	Pattern 1
	4 = Wednesday	1~10	Pattern 1
	5 = Thursday	1~10	Pattern 1
	6 = Friday	1~10	Pattern 1
	7 = Saturday	1~10	Pattern 1

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 44 : ARS/F-Route Setup

44-10 : Holiday Schedule for ARS/F-Route

Level: IN

Description

Use **Program 44-10 : Holiday Schedule for ARS/F-Route** to define a yearly schedule for ARS/F-Route. This schedule is used for setting special days such as national holidays. The pattern number is defined in Program 44-08-01.

Input Data

Item No.	Date	Schedule Pattern Number	Default
01	0101~1231	0~10 0 = No Setting	0

Conditions

None

Feature Cross Reference

➥ **Automatic Route Selection (ARS)**

Program 45 : Voice Mail Integration

45-01 : Voice Mail Integration Options

Level: IN

Description

Use **Program 45-01 : Voice Mail Integration Options** to customize certain voice mail integration options.

Input Data

Item No.	Item	Input Data	Default
01	**Voice Mail Department Group Number** Assign Extension (Department) Group number as the voice mail group.	01~64 001~128: Version 10.00 or higher 0 = No Voice Mail	128
02	**Voice Mail Master Name** Enter the Voice Mail Master Name.	Up to 12 Characters	VOICE MAIL
03	**Voice Mail Call Screening** Enable/Disable the ability to process the Call Screening commands (1+ extension number) sent from the Voice Mail. You should normally enable this option to allow for Voice Mail Call Screening. Disable this option if your system has been modified so that extensions begin with the digit 1 (e.g., 101, 102, etc.).	0 = Off 1 = On	0
04	**Park and Page** Enable/Disable the system ability to process the Voice Mail Park and Page (✱) commands. You should normally **enable** this option.	0 = Off 1 = On	1
05	**Message Wait** Enable/Disable the system ability to process the Voice Mail Message Wait (#) commands. You should normally **enable** this option. If enabled, be sure that the programmed Message Notification strings don't contain the code for trunk access.	0 = Off 1 = On	1
06	**Record Alert Tone Interval Time** Set the time between Voice Mail Conversation Record alerts.	0~64800 (sec)	30

Input Data (Continued)

Item No.	Item	Input Data	Default
07	**Centralized Voice Mail Pilot Number** Assign this number the same as the extension number or pilot number.	Dial (up to eight digits)	No Setting
08	**Centralized Voice Mail Department Group Number** Assign which Extension (Department) Group Number is used as the Centralized Voice Mail group.	0~64 001~128 (Version 10.00 or higher)	0
09	**Centralized Voice Mail Master Name** Assign the Centralized Voice Mail Master Name.	Up to 12 characters	"C.V.M."
10	**New NSL Protocol support**	0 = Off 1 = On	0
11	**Prefix for Call Screening**	Dial (One digit)	1
12	**Prefix for Park and Page**	Dial (One digit)	*
13	**Prefix for Message Wait**	Dial (One digit)	#
14	**CCIS Centralized Voice Mail Number** Assign the pilot number to Centralized Voice Mail over CCIS Link. This is assigned only in the remote switches.	Dial (up to eight digits)	No Setting
15	**Analog Voice Mail Protocol Selection** Assign whether fixed codes or the codes used in PRG 45-04 are used for analog voice mail protocol.	0: Fixed 1: Program	0
16	**Voice Mail Fax Digit Add Assignment** Assign up to four digits in front of the station number sent to the SLT port when a call is forwarded.	Up to four digits	None
17	**Reply Mailbox Number** Select whether or not to include the mailbox number in the analog voice mail protocol.	0: No 1: Yes	1
18	**Trunk Number Mapping** Assign the digits of trunk number mapping.	2~3	2
19	**Centralized Voice Mail Type** Assign which Centralized Voice Mail types to use, Retro (Aspire) or Enhanced (Cygnus).	0 = Retro 1 = Enhanced	1

Conditions

None

Feature Cross Reference

➥ **Voice Mail Integration (Analog)**

Program 45 : Voice Mail Integration

45-02 : NSL Option Setup

Level: IN

Description

Use **Program 45-02 : NSL Option Setup** to setup the NSL options for Voice Mail integration.

Input Data

Item No.	Item	Input Data	Default
01	**Send DTMF tone or 6KD message**	0 = Send DTMF tone to SLT-VM port 1 = Send 6KD message to Serial port	1
03	**Send 51A Message**	0 = Off 1 = On	1
05	**Send 4 PM Message**	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

None

Program 45 : Voice Mail Integration

45-04 : Voice Mail Digit Add Assignment

Level:
IN

Description

Use **Program 45-04 : Voice Mail Digit Add Assignment** to define the digits to add.

Input Data

Item No.	Item	Input Data	Default
01	**Remote Logon (Internal)**	Up to four digits	None
02	**Direct Logon**	Up to four digits	None
03	**Transfer Message**	Up to four digits	None
04	**Forward-All**	Up to four digits	None
05	**Forward-Busy**	Up to four digits	None
06	**Forward RNA**	Up to four digits	None
07	**Remote Logon**	Up to four digits	None
08	**Conversation Recording**	Up to four digits	None
09	**Clear Down String**	Up to four digits	None

Conditions

None

Feature Cross Reference

None

Program 45 : Voice Mail Integration

45-05 : Voice Mail Send Protocol Signal Without Additional Digits

Level:
IN

Description

Use **Program 45-05 : Voice Mail Send Protocol Signal Without Additional Digits** to send trunk number and/or station number information if integrating to Voice Mail when PRG 45-04-XX is left blank and 45-01-15 is set to Program.

Input Data

Item No.	Item	Input Data	Default
01	**Remote Log-On Internal**	0 = Off 1 = On	0
02	**Direct Log-On**	0 = Off 1 = On	0
03	**Transfer Message/QVM**	0 = Off 1 = On	0
04	**Forward-All**	0 = Off 1 = On	0
05	**Forward-Busy**	0 = Off 1 = On	0
06	**Forward RNA**	0 = Off 1 = On	0
07	**Remote Log-On**	0 = Off 1 = On	0
08	**Conversation Recording**	0 = Off 1 = On	0
09	**Clear Down String**	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-01 : SV9100 InMail System Options

Level: IN

Description

Use **Program 47-01 :** SV9100 InMail **System Options** to set up the SV9100 InMail system-wide options.

Input Data

Item No.	Item	Input Data	Default
02	**SV9100 InMail Master Name** (MasterName) The GCD-CP10 or GCD-CP20 must be reset for a change to this program to take effect. Modify the name for all UNIVERGE SV9100 VM8000 InMail ports. The system briefly displays this name when a display multiline terminal user calls a Voice Mail port (either by pressing **Message**, their voice mail key, or by dialing the master number). You should always end the name with the **##** characters. The system substitutes the port number for the last #. Using the default name **InMail ##**, for example, the telephone display shows **InMail #1** when calling port 1.	Up to 12 characters	InMail **##** (The system substitutes the port number for the **#** when calling the port).

Input Data (Continued)

Item No.	Item	Input Data	Default
03	**Subscriber Message Length** (Subs Msg Length) Set the maximum length of recorded messages for: ❍ Subscriber Mailbox users dialing **RS** to record and send a message. ❍ Extension users leaving a message in a Subscriber Mailbox. ❍ Outside Automated Attendant callers accessing a mailbox via a GOTO command and then dialing **RS** to record and send a message. ❍ Subscriber Mailbox Greetings. ❍ Announcement Messages. ❍ Call Routing Mailbox Instruction Menus. ➡ *The length of a Conversation Record is 10 times the Subscriber Message Length. Since the Conversation Record time cannot exceed 4095 seconds, any setting in Subscriber Message Length larger than 409 has no effect on the length of recorded conversations.*	1~4095 (sec)	120
04	**Non-Subscriber Message Length** (Mbox Msg Length) Set the maximum length of recorded messages for: ❍ Automated Attendant callers leaving a message or Quick Message in a Subscriber Mailbox. ❍ Outside callers transferred by an extension user to a Subscriber Mailbox.	1~4095 (sec)	120
05	**Message Backup/Go Ahead Time** (Msg Bkup/Adv Time) Set the backup/go ahead time. This time sets how far SV9100 InMail backs up when a user dials **B** while listening to a message. This interval also sets how far SV9100 InMail jumps ahead when a user dials **G** while listening to a message.	1~60 (sec)	5

Input Data (Continued)

Item No.	Item	Input Data	Default
07	**Digital Pager Callback Number** (Pager CBack) Set the *Digital Pager Callback Number* portion of the Message Notification callout number for a digital pager. This is the portion of the callout number that is appended to the pager service telephone number. Normally, this option should be **X∗M#**, where: ❍ **X** is the number of the extension that generated the notification. ❍ **∗** is a visual delimiter (to make the pager display easier to read). ❍ **M** is the number of new messages in the extension mailbox. ❍ **#** is the digit normally used by the pager service for positive disconnect.	**Digits** (12 maximum, using 0~9, **#** and **∗**) **M** (Number of messages – entered by pressing **LK1**) **X** (Extension number – entered by pressing **LK2**) SV9100 InMail automatically replaces the X command with the number of the extension that initially received the message.	X∗M#
08	**Delay in Dialing Digital Pager Callback Number** (Pager Dial Delay) Set the delay that occurs just before SV9100 InMail dials the Digital Pager Callback Number portion of the Message Notification callout number for a digital pager. Set this delay so the pager service has enough time to connect to the digital pager before sending the callback number. Your pager service may be able to help you determine the best value for this option. When placing a digital pager notification, the system: Seizes the trunk specified. Dials the user-entered notification number (in **Message** + **OP** + **N**). Waits the **47-01-08: Delay in Dialing Digital Pager Callback Number** interval. Dials the number entered in **47-01-07: Digital Pager Callback Number**. The system assumes that the notification number completes dialing approximately 4 seconds after trunk seizure. This means that, by default, the Digital Pager Callback Number is dialed into the pager service about 13 seconds after trunk seizure.	0~99 (sec)	30

Input Data (Continued)

Item No.	Item	Input Data	Default
09	**Wait Between Digital Pager Callout Attempts** (Notify Pager Intvl) Set the minimum time between unacknowledged or unanswered digital pager Message Notification callouts. (A subscriber acknowledges a digital pager notification by logging onto their mailbox.) After this time expires, SV9100 InMail tries the callout again (for up to the number of times set in **47-01-14: Number of Callout Attempts**). If the system dials the callout number and the pager service is busy, it retries the number in one minute.	1~255 (min)	15
10	**Wait Between Non-Pager Callout Attempts** (Notify N-Pgr Intvl) Set the minimum time between non-pager Message Notification callouts in which the destination answers, says Hello, dials 1 to acknowledge and then enters the wrong security code.	1~255 (min)	20
11	**Wait Between Busy Non-Pager Callout Attempts** (Notify Busy Intvl) Set the time SV9100 InMail waits after it dials a busy non-pager callout destination, before retrying the callout number.	1~255 (min)	15

Input Data (Continued)

Item No.	Item	Input Data	Default
12	**Wait Between RNA Non-Pager Callout Attempts** (Notify RNA Intvl) Set the time SV9100 InMail waits, after it dials an unanswered non-pager callout destination, before retrying the callout number. There are 3 types of unanswered non-pager callouts: ❍ If the callout rings the destination longer than the 47-01-13: Wait for Answer Non-Pager Callout Attempts option. ❍ If the destination answers, says Hello (or the system detects answer supervision) and then hangs up without dialing 1 to log onto their mailbox. This typically happens if someone unfamiliar with notification answers the callout, or if the callout is picked up by an answering machine. ❍ If the destination answers and then hangs up without saying Hello. This typically happens if someone unfamiliar with the notification answers the callout (like the above example), or if the call is picked up by an answering machine with insufficient outgoing message volume.	1~255 (min)	30
13	**Number of RNA Rings** (Notify RNA Rings) If a non-pager callout rings the destination longer than this number of rings, SV9100 InMail marks the call as unanswered (Ring No Answer) and hangs up.	1~99 (rings)	5
14	**Number of Cascading Attempts** (Notify Call Attmpt) With Cascade Pager Notification: Set how many times a mailbox's enabled pager notification destinations are tried. For example if 47-01-14 is set to 10 and a mailbox has 5 enabled pager destinations and each destination has 3 retires for BNA/RNA (47-20-06 and 47-20-07). The InMail will call each destination 3 times, and will retry all the enabled destinations 10 times. This means each enabled destination will be called a total of 30 times (10 x 3). With Normal Pager Notification: Set how many attempts SV9100 InMail retries an incomplete Message Notification callout. This total includes unacknowledged callouts, callouts to a busy destination, and callouts to an unanswered destination. This option applies to pager and non-pager callouts.	1~99 (attempts)	1

Input Data (Continued)

Item No.	Item	Input Data	Default
15	**Send Pager Callout Until Acknowledged** (Retry Until Ack) When this option is set to 1, SV9100 InMail continues to retry a digital pager Message Notification callout until the notification is acknowledged. If this option is disabled (0), SV9100 InMail retries a digital pager Message Notification the number of times specified in **47-01-14 Number of Callout Attempts**. This option does not apply to Message Notification callouts to telephone numbers. A digital pager notification is considered acknowledged when the recipient logs onto the mailbox.	0 = No (Disabled) 1 = Yes (Enabled)	0
16	**Name Format** Specify if names are displayed in First Last format or Last First.	0 = 1st Last 1 = Last 1st	0
18	**Play PAD Control**	1~57 (-15.5dB ~ +12.5dB)	32 (0dB)
19	**Record PAD Control (for Networking)**	1~57 (-15.5dB ~ +12.5dB)	32 (0dB)
20	**Delete DTMF Tone when recording message**	0 = Disable 1 = Enable	1
21	**Restrict Using InMail on Secondary System**	0 = No 1 = Yes	0

Conditions

When changing 47-01-02, a system reset is required for the new setting to take affect.

Feature Cross Reference

None

Program 47 : InMail

47-02 : SV9100 InMail Station Mailbox Options

Level: IN

Description

Use **47-02 :** SV9100 InMail **Station Mailbox Options** to set up a station/extension mailbox. Station mailboxes are automatically assigned as Subscriber Mailboxes. Normally, SV9100 InMail Station Mailbox numbers 1~26 should correspond to extensions 101~126.

Input Data

Station Mailbox Number	1~896

Item No.	Item	Input Data	Default
01	**Mailbox Type** Enable/Disable the mailbox. An extension mailbox is not accessible when it is disabled (even though its stored messages and configuration are retained in memory.) If disabled, a user pressing **Message** initiates a remote logon and is asked to enter their mailbox number. A voice prompt then announces: "*That mailbox does not exist.*" To make programming easier, consider associating a mailbox number with a station port. For example, mailbox 1 could correspond to port 1, which in turn corresponds to extension 101.	0 = None 1 = Personal 2 = Group	Mailbox 1 = 1 Mailbox 2 ~ 960 = 0
02	**Mailbox Number** Select the extension number associated with the mailbox you are programming. Normally, mailbox 1 should use Mailbox Number 101, mailbox 2 should use Mailbox Number 102, etc. To make programming easier, consider associating a mailbox number with a station port. For example, mailbox 1 could correspond to port 1, which in turn corresponds to extension 101.	Digits (8 maximum, using 0~9)	Mailbox 1 = 101 Mailboxes 2~64 = 102~164 Mailboxes 65~896 = No entry
03	**Number of Messages** Set the maximum number of messages that can be left in the Subscriber Mailbox. If a caller tries to leave a message after this limit is reached, they hear: "*That mailbox is full.*" SV9100 InMail then hangs up.	0~99 messages To conserve storage space, enter 0 for all unused mailboxes.	99 for mailbox 1 20 for all other mailboxes

Item No.	Item	Input Data	Default
04	**Message Playback Order** Set the Subscriber Mailbox message playback order. When a subscriber listens to their messages, SV9100 InMail can play the oldest messages first, or the newest messages first.	0 = FIFO (first-in/first-out, or oldest messages first). 1 = LIFO (last-in/first-out, or newest messages first)	0
05	**Auto Erase/Save of Messages** Determine what happens when a Subscriber Mailbox user completely listens to a new message and then exits the mailbox without either saving (**SA**) or erasing (**E**) the message. Depending on the setting of this option, SV9100 InMail either automatically saves or erases the message. If the mailbox user hangs up before listening to the *entire* new message, SV9100 InMail retains the message as a new message.	0 = Erase After the subscriber listens to the entire new message and hangs up, SV9100 InMail erases the message. 1 = Save After the subscriber listens to the entire new message and hangs up, SV9100 InMail saves the message.	1
06	**Message Retention** Determine how long a Subscriber Mailbox retains held and saved messages. If a message is left in a Subscriber Mailbox longer than this interval, SV9100 InMail deletes it.	1~99 Days 0 = Indefinite	0
07	**Recording Conversation Beep** (Rec Conv Beep) Enable/Disable the Conversation Record beep. If enabled, all parties on a call hear the voice prompt "*Recording",* followed by a single beep when the extension user initiates Conversation Record. If disabled, the voice prompt and beep do not occur. When you disable the Conversation Record beep, the following voice prompts do not occur while SV9100 InMail records the conversation: *Recording* *(followed by a beep)* *That mailbox is full* *(if the mailbox message storage capacity is reached)* *You have reached the recording limit* *(if the recorded message is too long)* The UNIVERGE SV9100 telephone system software provides an additional Conversation Record beep. This beep repeats according to the setting of **Program 45-01-06: Voice Mail Integration Options: Record Alert Tone Interval Time** (0~64800 seconds). To disable the UNIVERGE SV9100 telephone system Conversation Record beep, enter 0 for this option.	0 = No (Disable) 1 = Yes (Enable)	1

Item No.	Item	Input Data	Default
08	**Message Waiting Lamp** (Update MW Lamp) Enable/Disable Message Waiting lamps at the extension associated with the Subscriber mailbox. For Subscriber Mailboxes, enable this option. For Guest Mailboxes, disable this option.	0 = No (Disable) 1 = Yes (Enable)	1
09	**Auto Attendant Direct to Voice Mail** (Auto-ATT DND) Enable/Disable Auto Attendant Do Not Disturb. When a subscriber enables Auto Attendant Do Not Disturb, an Automated Attendant caller routes directly to the mailbox, hears the greeting, and is asked to leave a message. A subscriber also can enable Auto Attendant Do Not Disturb while recording their mailbox greeting.	0 = No (Disable) 1 = Yes (Enable)	0
10	**Forced Unscreened Transfer** (Forced UTRF) Enable/Disable Automated Attendant Forced Unscreened Transfer for the Subscriber Mailbox. If enabled, each Screened Transfer (TRF) to the extension is converted to an Unscreened Transfer (UTRF). If disabled, Screened Transfers from the Automated Attendant occur normally.	0 = No (Disable) 1 = Yes (Enable)	0
11	**Auto Time Stamp** Enable/Disable Auto Time Stamp for the Subscriber Mailbox. If enabled, after the subscriber listens to a message SV9100 InMail announces the time and date the message was left. Auto Time Stamp also announces the message sender (if known). A subscriber also can enable Auto Time Stamp from their mailbox.	0 = No (Disable) 1 = Yes (Enable)	0
12	**System Administrator** Designate the Subscriber Mailbox as a System Administrator. This allows the subscriber to use the **SA** options after logging onto their mailbox.	0 = No (Disable) 1 = Yes (Enable)	Mailbox 1 = 1 Other mailboxes=0
13	**Dialing Option** Provide additional dialing options for Next Call Routing Mailbox calls (see *Next Call Routing Mailbox* below). If enabled, a caller who accesses the Subscriber Mailbox to leave a message can dial any option in the Next Call Routing Mailbox Dial Action Table. If disabled, the caller can dial only 0 (to use the Next Call Routing Mailbox 0 action).	0 = No (Disable) 1 = Yes (Enable)	0

Item No.	Item	Input Data	Default
14	**Next Call Routing Mailbox** (Next CR Mbox) Assign a Next Call Routing Mailbox to the Subscriber Mailbox. This provides callers with additional dialing options while listening to a Subscriber Mailbox recorded or default greeting. The digits the caller can dial depends on the setting of the Next Call Routing Mailbox and Alternate Next Call Routing Mailbox options.	Call Routing Mailbox Number (0~32, 0 = not set) No entry (Entered by pressing CLEAR)	**1** (Call Routing Mailbox 01) By default, Call Routing Mailbox numbers are 01~32.
15	**Directory List Number**	0 = None 1~8 = List Number ✱ = All	0
16	**Voice Prompt Language**	Refer to Table 2-15 47-02-16 Default Table	1
17	**Enable Paging**	0 = No (Disable) 1 = Yes (Enable)	0
18	**Paging Option**	0 = RNA 1 = Immediately	0
19	**Telephone User Interface Type**	0 = Numeric 1 = Mnemonic	0
20	**Enable E-mail Notification**	0 = No 1 = Yes	0
21	**E-mail Address**	Up to 48 characters	No Setting
22	**Include Message as Attachment**	0 = No 1 = Yes	1
23	**All Message Notification Enabled** This setting controls whether voice and pager notification work for a mailbox. This setting does not affect email notification.	0 = No 1 = Yes	1
24	**All Find-Me Follow-Me Enabled**	0 = No 1 = Yes	0
25	**Security Code Option**	0 = Always 1 = Remote Logon only	0
26	**Station Mailbox Options - Auto Play**	0 = Disabled 1 = Enabled	0
27	**Email Message Save/Delete Option** Either save or delete the message in the Station Mailbox after email is sent.	0 = No change 1 = Save 2 = Delete	0

Item No.	Item	Input Data	Default
28	**Station Mailbox Message Notification Options - Queuing.** Use this option to enable or disable Message Notification Queuing. If enabled, Message Notification is stored in queue when there is no active notification destination.	0 = Disabled 1 = Enabled	0

Table 2-15 47-02-16 Default Table

Item	Name	Input Data
47-02-16	Voice Prompt Language	01 = US English
		02 = UK English
		03 = Australian English
		04 = French Canadian
		05 = Dutch
		06 = Mexican Spanish
		07 = Latin American Spanish
		08 = Italian
		09 = German
		10 = Madrid Spanish
		11 = Norwegian
		12 = Parisian French
		13 = Brazilian Portuguese
		14 = Japanese
		15 = Mandarin Chinese
		16 = Korean
		17 = Iberian Portuguese
		18 = Greek
		19 = Danish
		20 = Swedish
		21 = Thai
		22 = Mandarin Chinese (Taiwan)
		23 = Flemish
		24 = Turkish
		25 = Arabic
		26 = Russian

Table 2-15 47-02-16 Default Table (Continued)

Item	Name	Input Data
		27 = Polish
		28 = Hebrew

Conditions
None

Feature Cross Reference

None

Program 47 : InMail

47-03 : SV9100 InMail Group Mailbox Options

Level: IN

Description

Use **47-03 :** SV9100 InMail **Group Mailbox Options** to set up the 32 Group Mailboxes (01~32). A Group Mailbox is used for Department Group overflow and can be a Subscriber or Call Routing.

Input Data

Group Mailbox Number	1~32

Item No.	Item	Input Data	Default
02	**Mailbox Number** (Mailbox Number) The Group Mailbox Number is the same as the Department Group master (pilot) number. Select the Department Group master (pilot) number associated with the Group Mailbox you are programming.	Digits (eight maximum, using 0~9) No Setting (entered by pressing **Hold**)	No Setting
03	**Group Mailbox Type** (Mailbox Type) Set the Group Mailbox type.	0 = Undefined 1 = Subscriber 2 = Routing	1
	Routing Mailbox Number If 47-03-03: Group Mailbox Type is set to 2 (Routing), use this option to specify the Routing Mailbox InMail uses for the Group Mailbox.	1~32	1

Conditions
None

Feature Cross Reference

None

Program 47 : InMail

47-06 : Group Mailbox Subscriber Options

Level: IN

Description

Use **47-06 : Group Mailbox Subscriber Options** to set up a Master Mailbox assigned as a Subscriber Mailbox in 47-03-03: Master Mailbox Type.

Input Data

Group Mailbox Number	1~32

Input Data

Item No.	Item	Input Data	Default
01	**Number of Messages** Set the maximum number of messages that can be left in the Subscriber Mailbox. If a caller tries to leave a message after this limit is reached, they hear, "*That mailbox is full.*" VM8000 InMail then hangs up.	0~99 messages To conserve storage space, enter 0 for all unused mailboxes.	20
02	**Message Playback Order** Set the Subscriber Mailbox message playback order. When a subscriber listens to their messages, VM8000 InMail can play the oldest messages first, or the newest messages first.	0 = FIFO (first-in/ first-out, or oldest messages first). 1 = LIFO (last-in/ first-out, or newest messages first).	0
03	**Auto Erase/Save of Messages** Determine what happens when a Subscriber Mailbox user completely listens to a new message and then exits the mailbox without either saving (**SA**) or erasing (**E**) the message. Depending on the setting of this option, VM8000 InMail either automatically saves or erases the message. If the mailbox user hangs up before listening to the *entire* new message, VM8000 InMail retains the message as a new message.	0 = Erase After the subscriber listens to the entire new message and hangs up, SV9100 InMail erases the message. 1 = Save After the subscriber listens to the entire new message and hangs up, SV9100 InMail saves the message.	1

Input Data (Continued)

Item No.	Item	Input Data	Default
04	**Message Retention** Determine how long a Subscriber Mailbox retains held and saved messages. If a message is left in a Subscriber Mailbox longer than this interval, VM8000 InMail deletes it.	1~99 days 0 (Indefinite)	0
05	**Recording Conversation Beep** (Rec Conv Beep) Enable/Disable the Conversation Record beep. If enabled, all parties on a call hear the voice prompt "*Recording",* followed by a single beep when the extension user initiates Conversation Record. If disabled, the voice prompt and beep do not occur. When you disable the Conversation Record beep, the following voice prompts do not occur while SV9100 InMail records the conversation: *Recording* *(followed by a beep)* *That mailbox is full* *(if the mailbox message storage capacity is reached)* *You have reached the recording limit* *(if the recorded message is too long)* The UNIVERGE SV9100 telephone system software provides an additional Conversation Record beep. This beep repeats according to the setting of Program 45-01-06: Voice Mail Integration Options: Record Alert Tone Interval Time (0~64800 seconds). To disable the UNIVERGE SV9100 telephone system Conversation Record beep, enter 0 for this option.	0 = No (Disable) 1 = Yes (Enable)	1
06	**Message Waiting Lamp** (Update MW Lamp) Enable/Disable Message Waiting light at the extension associated with the Subscriber mailbox. For Subscriber Mailboxes, enable this option. For Guest Mailboxes, disable this option.	0 = No (Disable) 1 = Yes (Enable)	1
07	**Auto Attendant Direct to VoiceMail** Enable/Disable Auto Attendant Direct to VM. When a subscriber enables Auto Attendant Direct to VM, an Automated Attendant caller routes directly to the mailbox, hears the greeting, and is asked to leave a message. A subscriber also can enable Auto Attendant Direct to VM while recording their mailbox greeting.	0 = No (Disable) 1 = Yes (Enable)	0

Input Data (Continued)

Item No.	Item	Input Data	Default
08	**Forced Unscreened Transfer** (Forced UTRF) Enable/Disable Automated Attendant Forced Unscreened Transfer for the Subscriber Mailbox. If enabled, each Screened Transfer (TRF) to the extension is converted to an Unscreened Transfer (UTRF). If disabled, Screened Transfers from the Automated Attendant occur normally.	0 = No (Disable) 1 = Yes (Enable)	0
09	**Auto Time Stamp** Enable/Disable Auto Time Stamp for the Subscriber Mailbox. If enabled, after the subscriber listens to a message SV9100 InMail announces the time and date the message was left. Auto Time Stamp also announces the message sender (if known). A subscriber also can enable Auto Time Stamp from their mailbox.	0 = No (Disable) 1 = Yes (Enable)	0
10	**System Administrator** (System Admin) Designate the Subscriber Mailbox as a System Administrator. This allows the subscriber to use the options after logging onto their mailbox.	0 = No (Disable) 1 = Yes (Enable)	0
11	**Dialing Option** Provide additional dialing options for Next Call Routing Mailbox calls (see *Next Call Routing Mailbox* below). If enabled, a caller who accesses the Subscriber Mailbox to leave a message can dial any option in the Next Call Routing Mailbox Dial Action Table. If disabled, the caller can dial only 0 (to use the Next Call Routing Mailbox 0 action).	0 = No (Disable) 1 = Yes (Enable)	0
12	**Next Call Routing Mailbox** (Next CR Mbox) Assign a Next Call Routing Mailbox to the Subscriber Mailbox. This provides callers with additional dialing options while listening to a Subscriber Mailbox recorded or default greeting. The digits the caller can dial depends on the setting of the Next Call Routing Mailbox and Alternate Next Call Routing Mailbox options.	Call Routing Mailbox Number (0~32) No entry (entered by pressing **CLEAR**)	1 (Call Routing Mailbox 01) By default, Call Routing Mailbox numbers are 01=16.
13	**Directory List Number** Specify the Directory List number to which the Group Mailbox belongs.	0 = None 1~8 = List Number ✱ = All	0
14	**Voice Prompt Language**	Refer to Table 2-16 47-06-14 Default Table.	1
15	**Enable Paging**	0 = No 1 = Yes	0

Input Data (Continued)

Item No.	Item	Input Data	Default
16	**Paging Option**	0 = RNA 1 = Immediate	0
17	**Telephone User Interface**	0 = Numeric interface 1 = Mnemonic interface	0
18	**Enable E-mail Notification**	0 = No 1 = Yes	0
19	**E-mail Address**	Up to 48 characters.	No setting
20	**Include Message as Attachment**	0 = No 1 = Yes	1
21	**All Message Notification Enabled**	0 = No 1 = Yes	1
22	**All Find-Me Follow-Me Enabled**	0 = No 1 = Yes	0
23	**Security Code Option**	0 = Always 1 = Remote Logon only	0
24	**Group Subscriber Options - Auto Play**	0 = Disabled 1 = Enabled	0
25	**Email Message Save/Delete Option** Either save or delete the message in the Group Subscriber Mailbox after email is sent.	0 = No change 1 = Save 2 = Delete	0
26	**Group Mailbox Message Notification Options - Queuing** Use this option to enable or disable Message Notification Queuing. If enabled, Message Notification is stored in queue when there is no active notification destination.	0 = Disabled 1 = Enabled	0

Table 2-16 47-06-14 Default Table

Item	Name	Input Data
47-06-14	Voice Prompt Language	01 = US English
		02 = UK English
		03 = Australian English
		04 = French Canadian
		05 = Dutch
		06 = Mexican Spanish
		07 = Latin American Spanish
		08 = Italian
		09 = German
		10 = Madrid Spanish
		11 = Norwegian
		12 = Parisian French
		13 = Brazilian Portuguese
		14 = Japanese
		15 = Mandarin Chinese
		16 = Korean
		17 = Iberian Portuguese
		18 = Greek
		19 = Danish
		20 = Swedish
		21 = Thai
		22 = Mandarin Chinese (Taiwan)
		23 = Flemish
		24 = Turkish
		25 = Reserved
		26 = Russian
		27 = Polish
		28 = Hebrew

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-07 : SV9100 InMail Routing Mailbox Options

Level: IN

Description

Use **47-07 :** SV9100 InMail **Routing Mailbox Options** to set up the 32 Routing Mailboxes. Routing Mailboxes can be either Announcement or Call Routing Mailboxes.

Input Data

Routing Mailbox Number	1~32

Item No.	Item	Input Data	Default
02	**Routing Mailbox Type** (Mailbox Type) Set the Routing Mailbox type.	0 = None 1 = Call Routing 2 = Announcement 3 = Directory 4 = Distribution	Mailboxes 01~08 = 1 (Call Routing) Mailboxes 09~32 = 2 (Announcement)
03	**Prompt Language**	Refer to Table 2-17 47-07-03 Default Table	1
04	**Telephone User Interface**	0 = Numeric interface 1 = Mnemonic interface	0

Table 2-17 47-07-03 Default Table

Item	Name	Input Data
47-07-03	Voice Prompt Language	01 = US English
		02 = UK English
		03 = Australian English
		04 = French Canadian
		05 = Dutch
		06 = Mexican Spanish
		07 = Latin American Spanish
		08 = Italian
		09 = German
		10 = Madrid Spanish
		11 = Norwegian
		12 = Parisian French
		13 = Brazilian Portuguese
		14 = Japanese
		15 = Mandarin Chinese
		16 = Korean
		17 = Iberian Portuguese
		18 = Greek
		19 = Danish
		20 = Swedish
		21 = Thai
		22 = Mandarin Chinese (Taiwan)
		23 = Flemish
		24 = Turkish
		25 = Reserved
		26 = Russian
		27 = Polish
		28 = Hebrew

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-08 : Call Routing Mailbox Options

Level: IN

Description

Use **47-08 : Call Routing Mailbox Options** to set the options for mailboxes assigned as Call Routing Mailboxes in 47-07-02: Routing Mailbox Type.

Input Data

Routing Mailbox Number	1~32

Item No.	Item	Input Data	Default
01	**Dial Action Table** Assign the Dial Action Table to the Call Routing Mailbox. The Dial Action Table defines the dialing options for the call Routing Mailbox.	1~32 (Dial Action Table 1~32)	1 (Dial Action Table 1)
02	**Screened Transfer Timeout** (Scrn Trf Timeout) Set the time a Screened Transfer (TRF) from the Automated Attendant rings an unanswered extension before recalling. This option has a similar function as Customize: Mailbox Options: Call Routing: [Call Handling] Options: Delay Rings Before Redirect Transfer in SV9100 InMail.	0~255 (sec) Entering 0 causes immediate recall.	15
03	**Time Limit for Dialing Commands** (Dialing Timeout) Determine the time SV9100 InMail waits for an Automated Attendant caller to dial before routing the call to the Timeout destination. *Be sure your Dial Action Tables have a Timeout action programmed.* If the caller waits too long to dial: *When the associated Dial Action Table has a Timeout action programmed, the caller routes to that destination.* *When the associated Dial Action Table does not have a Timeout action programmed, the Instruction Menu repeats three times and then SV9100 InMail hangs up.*	0~99 (sec) Entering 0 causes the Automated Attendant to immediately route callers to the Timeout destination programmed in the active Dial Action Table.	5

Item No.	Item	Input Data	Default
04	**Fax Detection** Enable/Disable Fax Detection for the Call Routing Mailbox. In enabled, the SV9100 InMail Automated Attendant (when using this Call Routing Mailbox) detects incoming fax CNG tone. The fax call then routes to the company fax machine according to the setting of *47-01-06:Fax Extension*. If disabled, the Automated Attendant does not detect incoming fax calls.	0 = No (Disable) 1 = Yes (Enable)	0
05	**Fax Extension**	Up to eight digits	No entry

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-09 : Announcement Mailbox Options

Level: IN

Description

Use **47-09 : Announcement Mailbox Options** to set the options for mailboxes assigned as Announcement Mailboxes in 47-07-02 : Routing Mailbox Type.

Input Data

Routing Mailbox Number	1~32

Item No.	Item	Input Data	Default
01	**Next Call Routing Mailbox** (Next CR Mbox) If you set up an Announcement Mailbox to answer Automated Attendant calls, provide additional routing options to the Automated Attendant callers. This option interacts with *Repeat Count* and *Hang Up After* below. For more detail on this interaction, refer to Direct Announcement Mailbox Routing and Routed Announcement Mailbox Routing in the SV9100 InMail System Guide.	Call Routing Mailbox Number (1~32) 0 = Undefined	0
02	**Repeat Count** Enter the number of times you want the Announcement Mailbox message to repeat to callers. After an Announcement Mailbox caller initially listens to the message, it repeats the number of times specified in this option. This option interacts with *Next Call Routing Mailbox* and *Hang Up After* when providing routing options. For more detail on this interaction, refer to Direct Announcement Mailbox Routing and Routed Announcement Mailbox Routing in the SV9100 InMail System Guide.	0 (No Repeats) 1~10 (Announcement repeats 1~10 times)	0

Item No.	Item	Input Data	Default
03	**Hang Up After** (HangUp) Along with *Next Call Routing Mailbox* and *Repeat Count* above, provide additional routing options to Automated Attendant callers. For more detail on this interaction, refer to Direct Announcement Mailbox Routing and Routed Announcement Mailbox Routing in the SV9100 InMail System Guide.	0 = None 1 = Goodbye 2 = Silent	0

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-10 : SV9100 InMail Trunk Options

Level: IN

Description

Use **47-10 :** SV9100 InMail **Trunk Options** to assign SV9100 InMail options for each trunk.

Input Data

Trunk Port Number	1~400

Item No.	Item	Input Data	Default
01	**Answer Table Assignment** (Answer Table) Assign an SV9100 InMail Answer Table to each Direct Inward Line (DIL) the Automated Attendant should answer. The Automated Attendant follows the routing specified by the selected Answer Table.	Answer Table (1~16)	1
02	**Record PAD Control**	1~57 (-15.5dB ~ +12.5dB)	32 (0dB)
03	**Voice Prompt Language** This program is used to assign a language to calls that did not originally go through the voice mail auto attendant. For example, a call rings directly to extension 101 which is forwarded to voice mail. Extension 101 is set to use English but the customer wants calls on trunk 10 to hear French. You would assign trunk 10 as French in 47-10-03 and calls on that trunk that go to voice mail will hear French but calls on other trunks will hear English.	Refer to Table 2-18 47-10-03 Default Table	1
04	**Telephone User Interface Type**	0 = Numeric 1 = Mnemonic	0

Table 2-18 47-10-03 Default Table

Item	Name	Input Data
47-10-03	Voice Prompt Language	01 = US English
		02 = UK English
		03 = Australian English
		04 = French Canadian
		05 = Dutch
		06 = Mexican Spanish
		07 = Latin American Spanish
		08 = Italian
		09 = German
		10 = Madrid Spanish
		11 = Norwegian
		12 = Parisian French
		13 = Brazilian Portuguese
		14 = Japanese
		15 = Mandarin Chinese
		16 = Korean
		17 = Iberian Portuguese
		18 = Greek
		19 = Danish
		20 = Swedish
		21 = Thai
		22 = Mandarin Chinese (Taiwan)
		23 = Flemish
		24 = Turkish
		25 = Arabic
		26 = Russian
		27 = Polish
		28 = Hebrew

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-11 :VM8000 InMail Answer Table Options

Level: IN

Description

Use **47-11 :** VM8000 InMail **Answer Table Options** to set options for the Answer Tables. VM8000 InMail provides eight Answer Tables (1~16). To set up the schedules for each Answer Table, go to 47-12 : VM8000 InMail Answer Table Schedule.

Input Data

Answer Table Number	1~16

Item No.	Item	Input Data	Default
01	**Answer Schedule Override** (Schedule Override) Enable/Disable Answer Schedule Override for the selected Answer Table. If enabled (and you make an entry for *Override Mailbox* below), the active Answer Table routes calls to the Override Mailbox.	0 = No (Disable) 1 = Yes (Enable)	0

Item No.	Item	Input Data	Default
02	**Override Mailbox Category** (Override MB Ctg) Specify the category of the mailbox where Automated Attendant calls should route when you enable Answer Schedule Override. VM8000 InMail mailbox categories are Subscriber Mailbox, Master Mailbox, and Routing Mailbox. VM8000 InMail handles the routing according to the type of mailbox (Subscriber, Call Routing, or Announcement) within the specified category: ❍ *If the Override Mailbox is a Subscriber Mailbox, the outside caller hears the mailbox greeting (if recorded) and can leave a message.* ❍ *If the Override Mailbox is an Announcement Mailbox, the outside caller shears the recorded announcement. Depending on how the Announcement Mailbox is programmed, VM8000 InMail then hangs up, reroutes the call, or provides additional dialing options.* ❍ *If the Override Mailbox is a Call Routing Mailbox, the outside caller hears the instruction menu and can dial any option allowed by the associated Dial Action Table.* ➨ *If any of the Input Data values are entered, the terminal displays the* ***Override Mailbox Number*** *selection (below).*	0 (Undefined) 1 (Subscriber Mailbox – STA) 2 (Group Mailbox) 3 (Routing Mailbox)	0
	Override Mailbox Number (Override MB Num) Specify the mailbox where Automated Attendant calls should route when you enable Answer Schedule Override. The mailbox number you select in this option should match the mailbox category specified in **47-11-02: Override Mailbox Category** above.	Digits (three maximum, using 0~9)	No Entry

Item No.	Item	Input Data	Default
03	**Default Mailbox Category** (Default MB Ctg) Specify the category of mailbox used as the Default Mailbox. VM8000 InMail mailbox categories are Subscriber Mailbox, Master Mailbox, and Routing Mailbox. VM8000 InMail uses the Default Mailbox when an Answer Schedule is not in effect. VM8000 InMail handles the routing according to the type of mailbox (Subscriber, Call Routing, or Announcement) within the specified category: ❍ *If the Default Mailbox is a Subscriber Mailbox, the outside caller hears the mailbox greeting (if recorded) and can leave a message.* ❍ *If the Default Mailbox is an Announcement Mailbox, the outside caller hears the recorded announcement. Depending on how the Announcement Mailbox is programmed, VM8000 InMail then hangs up, reroutes the call, or provides additional dialing options.* ❍ *If the Default Mailbox is a Call Routing Mailbox, the outside caller hears the instruction menu and can dial any option allowed by the associated Dial Action Table.* ➨ *If any of the Input Data values are entered, the terminal displays the* ***Override Mailbox Number*** *selection (below).*	0 = Undefined) 1 = Subscriber Mailbox (STA) 2 = Group Mailbox 3 = Routing Mailbox	Answer Table 1 = 3 Answer Table 2~16 = 0
	Default Mailbox Number (Default MB Num) Set the Answer Table Default Mailbox number. VM8000 InMail uses the Default Mailbox when an Answer Schedule is not in effect. By default, this occurs at all times *other than* Monday through Friday from 8:30 AM to 5:00 PM.	Digits (Three maximum, using 0~9)	Answer Table 1 = 1 Answer Table 2~16 = No Entry
04	**Next Answer Table** When 10 Answer Schedules in an Answer Table are not sufficient, link two Answer Tables together. VM8000 InMail treats the two linked tables as a single 20 entry Answer Table.	Answer Table (1~16) 0 = Undefined	0

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-12 :VM8000 InMail Answer Schedules

Level: IN

Description

Use **47-12 :** VM8000 InMail **Answer Schedules** to set up the VM8000 InMail Automated Attendant Answer Schedules. There are 12 Answer Tables, with up to 10 Answer Schedules in each Answer Table.

Input Data

Answer Table Number	1~16

Schedule Entry Number	1~10

Item No.	Item	Input Data	Default
01	**Schedule Type** (Entryxx Schedule Type) Assign a Schedule Type to the selected Answer Schedule. The Schedule Type determines how the Answer Schedule answers calls. The schedule can be one of the following types: ❍ **1. Day of the Week** A Type 1 Answer Schedule runs on a specific day of the week. For this type of schedule, you select: ✔ The day of the week the schedule should run: ✔ The schedule start time. ✔ The schedule end time. ✔ The Call Routing or Announcement Mailbox used to answer calls. ❍ **2. Range of Days** A Type 2 Answer Schedule runs for a range of days. For this type of schedule, you select: ✔ The day of the week the schedule should start. ✔ The day of the week the schedule should stop. ✔ The time on the start day the schedule should start. ✔ The time on the stop day the schedule should stop. ✔ The Call Routing or Announcement Mailbox used to answer the calls. *(continued on next page)*	0 = Undefined 1 = Day of the Week 2 = Range of Days 3 = Date	Answer Table=1/Schedule Entry=1: 2 Answer Table=1/Schedule Entry=2~10: 0 Answer Table=2~16/Schedule Table=1~10: 0

Item No.	Item	Input Data	Default
01	*(continued from previous page)* ❍ **3. Date** A type 3 Answer Schedule runs only on a specific day of the year. For this type of schedule, you select: ✔ The specific date the schedule should run. ✔ On the selected date, the time the schedule should start. ✔ On the selected date, the time the schedule should stop. ✔ The Call Routing or Announcement Mailbox used to answer the calls.	0 = Undefined 1 = Day of the Week 2 = Range of Days 3 = Date	
02	**Answering Mailbox Category** (Entryxx MB Ctg) Specify the category of mailbox to which Automated Attendant calls should route when the schedule is in effect. VM8000 InMail mailbox categories are Subscriber Mailbox, Master Mailbox, or Routing Mailbox. VM8000 InMail handles the routing according to the exact type of Subscriber, Master, or Routing Mailbox specified. If the Answering Mailbox is a Subscriber Mailbox, the outside caller hears the mailbox greeting (if recorded) and can leave a message. If the Answering Mailbox is an Announcement Mailbox, the outside caller hears the recorded announcement. Depending on how the Announcement Mailbox is programmed, VM8000 InMail then hangs up, reroutes the call, or provides additional dialing options. If the Answering Mailbox is a Call Routing Mailbox, the outside caller hears the instruction menu and can dial any option allowed by the associated Dial Action Table.	0 = Undefined 1 = Subscriber Mailbox - STA 2 = Group Mailbox 3 = Routing Mailbox	Answer Table=1/Schedule Entry=1: 3 Answer Table=1/Schedule Entry=2~10: 0 Answer Table=2~16/Schedule Table=1~10: 0
	Answering Mailbox Number (Entryxx MB Num) Set the number of the Answering Mailbox the Automated Attendant uses when the selected schedule is in effect. This mailbox is defined in 47-12-02: Answering Mailbox Category.	Digits (three maximum, using 0~9)	Answer Table=1/Schedule Entry=1: 1 Answer Table=1/Schedule Entry=2~10: None Answer Table=2~16/Schedule Table=1~10: None
03	**Day of the Week** (Entryxx Day) For Day of the Week (Type 1) Answer Schedules, select the day of the week the Answer Schedule should be active.	1 = Sunday 2 = Monday 3 = Tuesday 4 = Wednesday 5 = Thursday 6 = Friday 7 = Saturday	Answer Table=1/Schedule Entry=1: 1 Answer Table=1/Schedule Entry=2~10: 1 Answer Table=2~16/Schedule Table=1~10: 1

Item No.	Item	Input Data	Default
04	**Start Day** (Entryxx Start Day) For Range of Days (Type 2) Answer Schedules, select the day of the week the Answer Schedule should start.	1 = Sunday 2 = Monday 3 = Tuesday 4 = Wednesday 5 = Thursday 6 = Friday 7 = Saturday	Answer Table=1/Schedule Entry=1: 2 Answer Table=1/Schedule Entry=2~10: 1 Answer Table=2~16/Schedule Table=1~10: 1
05	**End Day** (Entryxx End Day) For Range of Days (Type 2) Answer Schedules, select the day of the week the Answer Schedule should end.	1 = Sunday 2 = Monday 3 = Tuesday 4 = Wednesday 5 = Thursday 6 = Friday 7 = Saturday	Answer Table=1/Schedule Entry=1: 6 Answer Table=1/Schedule Entry=2~10: 1 Answer Table=2~16/Schedule Table=1~10: 1
06	**Date** (Entryxx Date) For Date (Type 3) Answer Schedules, select the date the Answer Schedule should be active.	MMDD For example: 0101 = January 1 1231 = December 31 0000 = No date set	Answer Table=1/Schedule Entry=1: 0000 Answer Table=1/Schedule Entry=2~10: 0000 Answer Table=2~16/Schedule Table=1~10: 0000
07	**Schedule Start Time** (Entryxx Start Time) Specify the time the Answer Schedule should start. It applies to Day of the Week (Type 1), Range of Days (Type 2), and Date (Type 3) schedules. (To make a schedule run continuously, make the same entry for 47-12-07: Schedule Start Time and 47-12-08: Schedule End Time.)	HHMM (24-hour clock) For example: 0130 = 1:30AM 1700 = 5:00PM	Answer Table=1/Schedule Entry=1: 0830 (8:30 AM) Answer Table=1/Schedule Entry=2~10: 0000 Answer Table=2~16/Schedule Table=1~10: 0000
08	**Schedule End Time** (Entryxx End Time) Specify the time the Answer Schedule should end. It applies to Day of the Week (Type 1), Range of Days (Type 2), and Date (Type 3) schedules. (To make a schedule run continuously, make the same entry for 47-12-07: Schedule Start Time and 47-12-08: Schedule End Time.)	HHMM (24-hour clock) For example: 0130 = 1:30AM 1700 = 5:00PM 0000 = Undefined	Answer Table=1/Schedule Entry=1: 1700 (17:00) Answer Table=1/Schedule Entry=2~10: 0000 Answer Table=2~16/Schedule Table=1~10: 0000

Example

Type 1 (Day of the Week) Answer Schedule Options

Type 1 (Day of Week) Example

In this example, Answer Table 1 routes calls as follows:

- Schedule 1 uses Routing Mailbox 2 and runs Sunday from 8:30AM to 5:00PM.
- Schedule 2 uses Subscriber Mailbox 3 and runs Wednesday from 10:30AM to 5:00PM.
- Schedule 3 uses Routing Mailbox 4 and runs Tuesday from 9:00AM to 10:00AM.
- At all other times, routing is handled by the Default Mailbox specified in 47-11-03: Default Mailbox Category and 47-11-03: Default Mailbox Number.

When setting up Answer Tables with multiple types, build the Answer Schedules in the following order:

- Range of Days
- Day of Week
- Date

Type 1 (Day of Week) Example		
Answer Table 1		
	Answer Schedule 1 Answer Schedule 1 is a Day of Week schedule that runs Sunday from 8:30AM to 5:00PM.	
		47-12-01: Entry01 Schedule Type = 1
		47-12-02: Entry01 MB Ctg = 3 **47-12-02: Entry01 MB Num** = 2
		47-12-03: Entry01 Day = 1
		47-12-04: Entry01 Start Day = 1 (Entry does not matter)
		47-12-05: Entry01 End Day = 1 (Entry does not matter)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry does not matter)
		47-12-07: Entry01 Start Time = 0830 (8:30AM)
		47-12-08: Entry01 End Time = 1700 (5:00PM)
	Answer Schedule 2 Answer Schedule 2 is a Day of Week schedule that runs Wednesday from10:30AM to 5:00PM.	
		47-12-01: Entry01 Schedule Type = 1
		47-12-02: Entry01 MB Ctg = 1 **47-12-02: Entry01 MB Num** = 3
		47-12-03: Entry01 Day = 4
		47-12-04: Entry01 Start Day = 1 (Entry does not matter)
		47-12-05: Entry01 End Day = 1 (Entry does not matter)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry does not matter)
		47-12-07: Entry01 Start Time = 1030 (10:30AM)
		47-12-08: Entry01 End Time = 1700 (5:00PM)
	Answer Schedule 3 Answer Schedule 3 is a Day of Week schedule that runs Tuesday from9:00AM to 10:00AM.	
		47-12-01: Entry01 Schedule Type = 1
		47-12-02: Entry01 MB Ctg = 3 **47-12-02: Entry01 MB num** = 4
		47-12-03: Entry01 Day = 3
		47-12-04: Entry01 Start Day = 1 (Entry does not matter)
		47-12-05: Entry01 End Day = 1 (Entry does not matter)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry does not matter)
		47-12-07: Entry01 Start Time = 0900 (9:00AM)
		47-12-08: Entry01 End Time = 1000 (10:00PM)

Type 2 (Range of Days) Answer Schedule Options

Type 2 (Range of Days) Example

- In this example, Answer Table 1 routes calls as follows:
- Schedule 1 uses Routing Mailbox 1 and runs Sunday through Wednesday from 8:30AM to 5:00PM.
- Schedule 2 uses Routing Mailbox 2 and runs Thursday and Friday from 11:00AM to 1:00PM.
- At all other times, routing is handled by the Default Mailbox specified in 47-11-03: Default Mailbox Category and 47-11-03: Default Mailbox Number.

When setting up Answer Tables with multiple types, build the Answer Schedules in the following order:

- Range of Days
- Day of Week
- Date

Type 2 (Range of Days) Example		
Answer Table 1		
	Answer Schedule 1 Answer Schedule 1 is a Range of Days schedule that starts schedule that runs Sunday through Wednesday from 8:30AM to 5:00PM.	
		47-12-01: Entry01 Schedule Type = 2
		47-12-02: Entry01 MB Ctg = 3 **47-12-02: Entry01 MB Num** = 1
		47-12-03: Entry01 Day = 1 (Entry does not matter)
		47-12-04: Entry01 Start Day = 1 (Sunday)
		47-12-05: Entry01 End Day = 4 (Wednesday)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry does not matter)
		47-12-07: Entry01 Start Time = 0830 (8:30AM)
		47-12-08: Entry01 End Time = 1700 (5:00PM)
	Answer Schedule 2 Answer Schedule 2 is a Range of Days schedule that runs Thursday and Friday from 11:00AM to 1:00PM.	
		47-12-01: Entry01 Schedule Type = 2
		47-12-02: Entry01 MB Ctg = 3 **47-12-02: Entry01 MB Num** = 2
		47-12-03: Entry01 Day = 1 (Entry does not matter)
		47-12-04: Entry01 Start Day = 4 (Wednesday)
		47-12-05: Entry01 End Day = 5 (Thursday)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry does not matter)
		47-12-07: Entry01 Start Time = 1100 (11:00AM)
		47-12-08: Entry01 End Time = 1300 (1:00PM)

Type 3 (Date) Answer Schedule Options

Type 3 (Date) Example

In this example, Answer Table 1 routes calls as follows:

- Schedule 1 uses Routing Mailbox 1 and runs every day from 8:30AM to 5:00PM.
- Schedule 2 uses Routing Mailbox 9 and runs only on Christmas day from 8:30AM to 5:00PM.
- At all other times, routing is handled by the Default Mailbox specified in 47-11-03: Default Mailbox Category and 47-11-03: Default Mailbox Number.

When setting up Answer Tables with multiple types, build the Answer Schedules in the following order:

- Range of Days
- Day of Week
- Date

Type 3 (Date) Example		
Answer Table 1		
	Answer Schedule 1 Answer Schedule 1 is a Range of Days schedule that starts schedule that runs every day from 8:30AM to 5:00PM.	
		47-12-01: Entry01 Schedule Type = 2
		47-12-02: Entry01 MB Ctg = 3 **47-12-02: Entry01 MB Num** = 1
		47-12-03: Entry01 Day = 1 (Entry does not matter)
		47-12-04: Entry01 Start Day = 1 (Sunday)
		47-12-05: Entry01 End Day = 1 (Sunday)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry does not matter)
		47-12-07: Entry01 Start Time = 0830 (8:30AM)
		47-12-08: Entry01 End Time = 1700 (5:00PM)
	Answer Schedule 2 Answer Schedule 2 is a Date schedule that runs only on Christmas day from 8:30AM to 5:00PM.	
		47-12-01: Entry01 Schedule Type = 3
		47-12-02: Entry01 MB Ctg = 3 **47-12-02: Entry01 MB Num** = 9
		47-12-03: Entry01 Day = 1 (Entry does not matter)
		47-12-04: Entry01 Start Day = 1 (Entry does not matter)
		47-12-05: Entry01 End Day = 1 (Entry does not matter)
		47-12-06: Entry01 Date (MMDD) = 1225 (December 25, Christmas day)
		47-12-07: Entry01 Start Time = 0830 (8:30AM)
		47-12-08: Entry01 End Time = 1700 (5:00PM)

Conditions

None

Feature Cross Reference

None

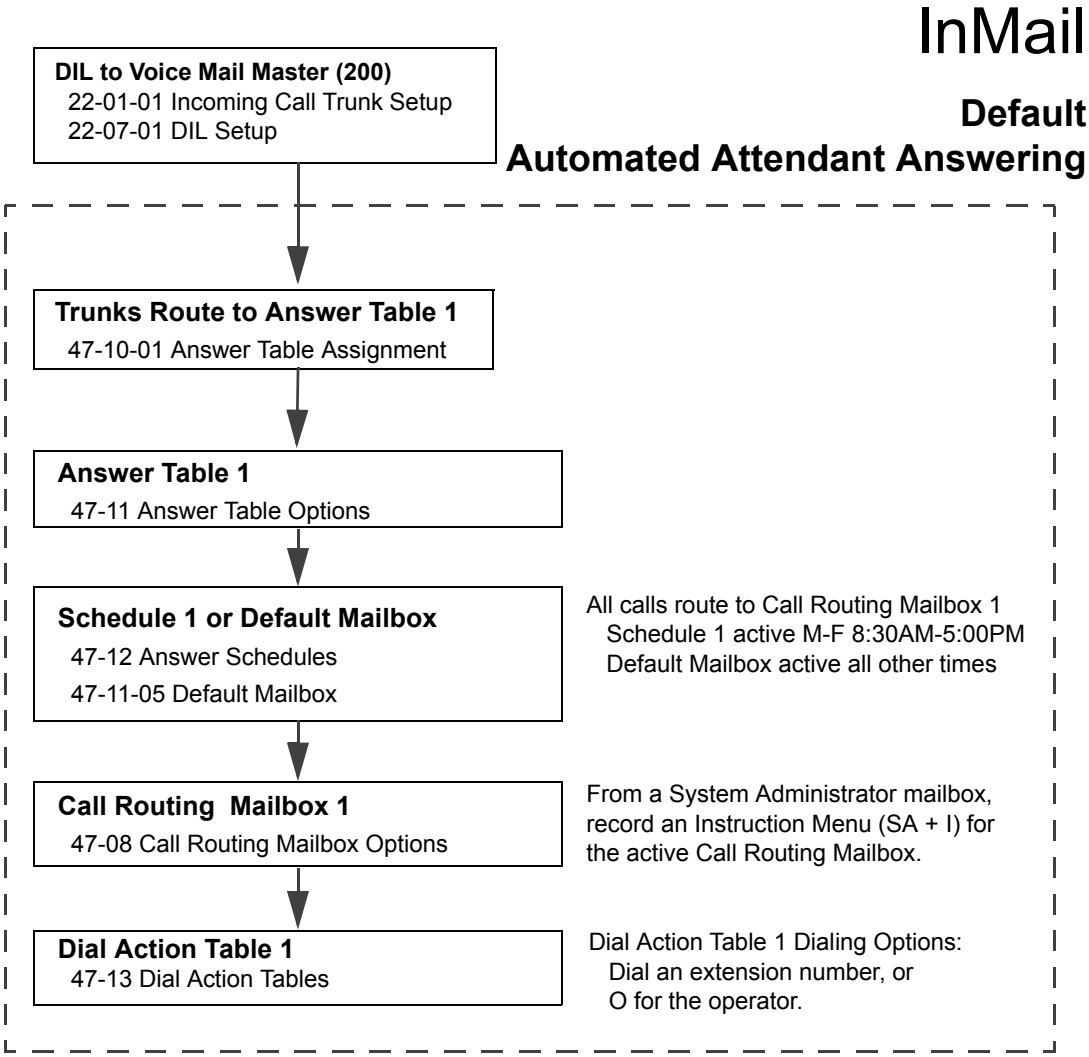
Program 47 : InMail

47-13 :VM8000 InMail Dial Action Tables

Level: IN

Description

Use **47-13 :** VM8000 InMail **Dial Action Tables** to set up the VM8000 InMail Dial Action Tables. The Dial Action Table defines the options than an Automated Attendant caller can dial. A Dial Action Table is associated with a Call Routing Mailbox, which is in turn associated with an Answer Table. When an Answer Table is active, its associated Call Routing Mailbox selects the Dial Action Table which provides dialing options to callers. The illustration below shows how this works in a default SV9100 InMail system. There are 32 Dial Action Tables.



Dial Action Table Actions

❑ **TRF Action - Screened Transfer (1) (TRF)**

Use this action to allow an Automated Attendant caller to place a Screened Transfer to an extension. After an Automated Attendant caller dials an extension, VM8000 InMail calls (screens) the destination to see if the transfer can go through.

If the destination is available, the Automated Attendant rings it. If the destination answers, the call goes through.

If the destination does not answer during a preset interval, is busy, or is in Do Not Disturb, the Automated Attendant does not extend the call. It then provides the caller with additional options.

Number Option

Normally, the corresponding Number option should be XXX. Note that the key you choose for this action is the first digit of the called extension number.

> For example, to allow callers to place Screened Transfers to extensions 301~399, for key 3 enter TRF for the *Action* and XXX for the corresponding *Number*.

To have Screened Transfer call a specific extension, the corresponding Number option should be that extension number. The caller then dials that single digit to reach the extension.

> For example, to have callers dial 8 to reach extension 303, for key 8 enter TRF for the *Action* and 303 for the corresponding *Number*.

❑ **UTRF Action – Unscreened Transfer (2) (UTRF)**

Use this action to allow an Automated Attendant caller to place an Unscreened Transfer to an extension. This is similar to telephone system unscreened transfers in which the transferring party immediately extends the call. After an Automated Attendant caller dials an extension, VM8000 InMail transfers the call to the destination and hangs up. Any recalls or additional routing are handled by the telephone system – just as with any other unscreened transfer.

Number Option

Normally, the corresponding Number option should be XXX. Note that the key you choose for this action is the first digit of the called extension number.

> For example, to allow callers to place Unscreened Transfers to extensions 301~399, for key 3 enter UTRF for the *Action* and XXX for the corresponding *Number*.

To have Unscreened Transfer call a specific extension, the corresponding Number option should be that extension number. The caller then dials that single digit to reach the extension.

For example, to have callers dial 8 to reach extension 303, for key 8 enter UTRF for the *Action* and 303 for the corresponding *Number*.

❑ **REC1 Action – Quick Message With Greeting (3) (REC1)**

Use this action to allow an Automated Attendant caller to leave a Quick Message at an extension. With this action, the caller hears the extension greeting prior to leaving the message.

Number Options

To have the caller leave a quick Message at a specific extension, the corresponding Number option should be the extension number.

To have the caller leave a Quick Message at any caller-dialed extension, the corresponding Number option should be IXXX.

To have the caller leave a Quick Message at a caller-dialed extension in a specific range, the corresponding Number option should be XXX.

For example, to allow callers to leave a Quick Message extensions 301~399, for key 3 enter REC1 for the *Action* and XXX for the corresponding *Number*.

❑ **REC2 Action – Quick Message Without Greeting (4) (REC2)**

Use this action to allow an Automated Attendant caller to leave a Quick Message at an extension. With this action, the caller *does not* hear the extension greeting prior to leaving the message. Instead, the caller hears the voice prompt *Recording* followed by a beep.

Number Option

To have the caller leave a quick Message at a specific extension, the corresponding Number option should be the extension number.

To have the caller leave a Quick Message at any caller-dialed extension, the corresponding Number option should be IXXX.

To have the caller leave a Quick Message at a caller-dialed extension in a specific range, the corresponding Number option should be XXX.

For example, to allow callers to leave a Quick Message extensions 301~399, for key 3 enter REC2 for the *Action* and XXX for the corresponding *Number*.

❑ **LOGON Action – Log Onto Voice Mail (5) (LOGON)**

Use this key action to allow an Automated Attendant caller to log onto Voice Mail. Depending on programming (see *Number Option* below), the caller is logged directly into a Subscriber Mailbox or is prompted to enter a Subscriber Mailbox of their own choosing. ***You cannot use the LOGON option with Call Routing and Announcement Mailboxes.***

Number Option

To log directly into a specific Subscriber Mailbox, enter the **mailbox number** in the corresponding Number option.

For example, to have key 4 log directly into Subscriber Mailbox 305, for key 4 enter LOGON for the *Action* and 305 for the corresponding *Number*.

To have VM8000 InMail request Automated Attendant callers to select a Subscriber Mailbox to log into, enter **N** in the corresponding Number option. The key you choose must represent the first digit in the Subscriber Mailbox numbers.

For example, to have the Automated Attendant request callers enter the number of the Subscriber Mailbox where they want to log into, for key 3 enter LOGON for the *Action* and N for the corresponding *Number.* When callers dial 3, they hear, *Please enter your mailbox number.*

To have VM8000 InMail require Automated Attendant callers to enter a Subscriber Mailbox to log into (without playing an announcement), enter **XXX** in the corresponding Number option. The key you choose must represent the first digit in the Subscriber Mailbox numbers.

For example, to allow callers to log onto mailboxes 301~399, for key 3 enter LOGON for the *Action* and XXX for the corresponding *Number*.

To log into **any** valid Subscriber Mailbox, enter **IXXX** in the corresponding Number option.

For example, to allow callers to dial 1 plus any Subscriber Mailbox number to log on, for key 1 enter LOGON for the *Action* and IXXX for the corresponding *Number*.

❑ **Hang Up Action (6) (HNGUP)**

When an Automated Attendant caller presses a key assigned to this action, VM8000 InMail says *Goodbye* and immediately hangs up.

Number Option

No entry is required in the corresponding Number Option.

❑ **GOTO Action – Go to Mailbox (7) (GOTO)**

Use this option to provide Automated Attendant callers with the ability to route to Call Routing and Announcement Mailboxes. For example, a caller can dial a digit for Sales, and then go to the Call Routing or Announcement Mailbox that provides the dialing options and instructions for Sales.

Number Option

To have Automated Attendant callers dial a single digit to go to a Call Routing or Announcement Mailbox, enter the **mailbox number** in the corresponding Number option.

For example, to have key 1 go to Call Routing Mailbox 01, for key 1 enter GOTO for the *Action* and 01 for the corresponding *Number*.

To have VM8000 InMail require Automated Attendant callers to enter a Call Routing or Announcement Mailbox to go to, enter **XXX** in the corresponding Number option. The key you choose must represent the first digit in the mailbox number.

For example, to allow callers to go to mailboxes 000~015, for key 0 enter GOTO for the *Action* and XXX for the corresponding *Number.*

To log into **any** valid Call Routing or Subscriber Mailbox, enter **IXXX** in the corresponding Number option.

For example, to allow callers to dial 1 plus any Call Routing or Announcement Mailbox number to go to, for key 1 enter GOTO for the *Action* and IXXX for the corresponding *Number*.

- **UND Action – Undefined Routing (0) (UND)**

  Use this key action if you want a key to have no routing (no operation). When an Automated Attendant caller presses an undefined key, they hear, *That is an invalid entry.* The caller can then dial another option.

Dial Action Table Dialed Transfer

With Version 6.00 or higher, Each Dial Action Table digit can have two simultaneous assignments: a Dialed Transfer Assignment and an Alternate Assignment.

- Dialed Transfer Assignment

  The Dialed Transfer Assignment is a Screened or Unscreened Transfer to an extension or Department Group corresponding to the dialed digit. If digits are dialed in succession then Dialed Transfer Assignment is followed.

- Alternate Transfer Assignment

  The Alternate Assignment overlays the Dialed Transfer Assignment. If the caller dials a single digit, after 1.5 second they route to the Alternate Assignment.

- TRF Dialed Transfer- Screened Transfer (1) (TRF)

  Use this action to allow an Automated Attendant caller to place a Screened Transfer to an Extension or Department Group.

  Number Option

  The key you choose for this action is the first digit of the called extension number or Department Group.

  For example, to allow callers to place Screened Transfers to extensions 301~399, for key 3 enter TRF for the Dialed Transfer.

- UTRF Dialed Transfer- Unscreened Transfer (2) (UTRF)

  Use this action to allow an Automated Attendant caller to place an Unscreened Transfer to an extension or Department Group.

  Number Option

  The key you choose for this action is the first digit of the called extension number.

  For example, to allow callers to place Unscreened Transfers to extensions 301~399, for key 3 enter UTRF for the Dialed Transfer.

❑ UTRF Dialed Transfer- None (0)

Use this option to disable the Dialed Transfer.

Input Data

Dial Action Table Number	01~32

Key No.	Dial Action Table Action	Additional Data	Dialed Transfer
1 2 3 4 5 6 7 8 9 0 ✱ # TIMEOUT	❍ TRF Action - Screened Transfer (1) (TRF) ❍ UTRF Action - Unscreened Transfer (2) (UTRF) ❍ REC1 Action - Quick Message With Greeting (3) (REC1) ❍ REC2 Action - Quick Message Without Greeting (4) (REC2) ❍ LOGON Action - Log Onto Voice Mail (5) (LOGON) ❍ Hang Up Action (6) (HNGUP) ❍ GOTO Action - Go to Mailbox (7) (GOTO) ❍ UND Action - Undefined Routing (0) (UND)	❍ **Digits** Entry : **0-9, #**, and ✱ (8 digits max.) Use Dial Action Table digits to route an Automated Attendant call to a specific location (such as an extension). For example, to set up a TRF Action to route to extension 305, for 3 enter TRF for the *Action* and 305 for the corresponding *Number*. ❍ **Caller Dialed Digits** Entry : **X** *(Entered by pressing LK2)* Use the X option to route an Automated Attendant call based on digits the caller dials. Each X entry represents one caller-dialed digit. For example, to set up a TRF Action to route to any caller dialed extension in the 301‘399 range, for 3 enter TRF for the *Action* and XXX for the corresponding *Number*. ❍ **Ignore Digits** Entry : **I** *(Entered by pressing LK3)* Use the I option to represent any digit dialed by the Automated Attendant caller that SV9100 InMail ignores for routing. An example of this is REC action assigned to the * key in Dial Action Table 1 by default. The *Action* is REC2 and the *Number* is IXXX. This means that a caller can dial * + any mailbox number to leave a Quick Message in that mailbox. SV9100 InMail ignores the first digit dialed by the caller (*), and routes according to the next 3 digits dialed. ❍ **No Routing** Entry : **N** *(Entered by pressing LK1)* Use the N option when you want no Automated Attendant routing to automatically occur. This can be used with the LOGON action when you want to prompt the caller to enter a mailbox number. To do this for the # key (for example), for the # key enter LOGON for the *Action* and N for the corresponding *Number*. When the caller dials #, they hear, *Please enter the mailbox number. Or, to exit, press the pound key.”* ❍ **Pause** Entry : **P** *(Entered by pressing LK4)* Use the P option when you want the Automated Attendant to pause while dialing.	0=None 1=Trf (Transfer) 2=UTRF (Unscreened Transfer)

Conditions

None

Defaults

Dial Action Table Default Settings			
Key	**Name**	**Dial Action Table 1**	**Dial Action Tables 2~32**
1	Action	2	0
	Data	XXX	0
	Dialed Transfer	0	0
2	Action	0	0
	Data	0	0
	Dialed Transfer	0	0
3	Action	2	0
	Data	XXXX	0
	Dialed Transfer	0	0
4	Action	0	0
	Data	0	0
	Dialed Transfer	0	0
5	Action	0	0
	Data	0	0
	Dialed Transfer	0	0
6	Action	0	0
	Data	0	0
	Dialed Transfer	0	0
7	Action	0	0
	Data	0	0
	Dialed Transfer	0	0
8	Action	0	0
	Data	0	0
	Dialed Transfer	0	0

9	Action	6	0
	Data	0	0
	Dialed Transfer	0	0
0	Action	2	0
	Data	101	0
	Dialed Transfer	0	0
∗	Action	3	0
	Data	1XXX	0
	Dialed Transfer	0	0
#	Action	5	0
	Data	1XXX	0
	Dialed Transfer	0	0
TIME OUT	Action	2	0
	Data	101	0
	Dialed Transfer	0	0

➨ *TIMEOUT provides the routing for rotary dial callers.*

Feature Cross Reference

None

Program 47 : InMail

47-15 : Routing Directory Mailbox Options

Level: IN

Description

Use **47-15 : Routing Directory Mailbox Options** to define the Routing Directory Mailbox Options. This data is referred if Program 47-07-02 (Routing Master Mailbox Type) was set to Type 4 (Directory). For VM8000 InMail remote CCIS extensions are not supported in a centralized directory.

Input Data

Master Mailbox Number	1~32

Item No.	Item	Input Data	Default
01	**Minimum Number of Letters Required**	1~3	1
02	**Directory List Number to Use**	1~8	1
03	**Name Match**	0 = First 1 = Last	0
04	**Transfer Option**	0 = TRF 1 = UTRF	0
05	**Screened Transfer Timeout**	0~255	15
06	**Time Limit for Dialing Commands**	0~99	5
07	**Fax Detection**	0 = Disable 1 = Enable	0
08	**Next Call Routing Mailbox**	0~32	0
09	**Fax Extension**	Up to eight digits	No entry

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-17 : Routing Distribution Mailbox Options

Level: IN

Description

Use **47-17 : Routing Distribution Mailbox Options** to assign data when Program 47-07-02 is set to 4 (Distribution). When creating a Distribution list, there can be no blank destinations within the list. The system considers a blank entry as the end of the list so entries after the blank will not be used.

Input Data

Routing Mailbox Number	1~32

Entry Number	00~19

Item No.	Item	Input Data	Default
01	**Distribution Mailbox Category** Use Undefined (0) to skip Mailbox Number setting. Use Station Mailbox (1) for setting Mailbox Number to 1~896 (PRG 47-02). Use Group Number (2) for setting Group Mailbox (1~32) (PRG 47-03).	0 = Undefined 1 = Station Mailbox 2 = Group Mailbox	0
	Distribution Mailbox Number ➨ *When creating a Distribution list there can be no blank destinations within the list. The system considers a blank entry as the end of the list so entries after the blank will not be used.*	Up to three digits (1~896)	No Setting

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-18 :VM8000 InMail SMTP Setup

Level: IN

Description

Use **47-18:** VM8000 InMail **SMTP Setup** to set the SMTP e-mail notification.

Input Data

Item No.	Item	Input Data	Default
01	**SMTP Enabled**	0 = No 1 = Yes	0
02	**Server Name**	Up to 48 characters	No Setting
03	**SMTP Port**	0~65535	25
04	**Encryption**	0 = No 1 = Yes	0
05	**Authentication**	0 = No 1 = Yes 2 = POP3	0
06	**User Name**	Up to 48 characters	No Setting
07	**Password**	Up to 48 characters	No Setting
08	**E-mail Address**	Up to 48 characters	No Setting
09	**Reply to Address**	Up to 48 characters	No Setting

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-19 :VM8000 InMail POP3 Setup

Level: IN

Description

Use **47-19 :** VM8000 InMail **POP3 Setup** to set the InMail e-mail notification.

Input Data

Item No.	Item	Input Data	Default
01	**Server Name**	Up to 48 characters	No Setting
02	**POP3 Port**	0~65535	110
03	**Encryption**	0 = No 1 = Yes	0
04	**User Name**	Up to 48 characters	No Setting
05	**Password**	Up to 48 characters	No Setting

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-20 : Station Mailbox Message Notification

Level: IN

Description

Use **47-20 : Station Mailbox Message Notification** to set the InMail Station Mailbox Message Notification parameters.

Input Data

Station Mailbox Number	1~896

Index Number	1~5

Item No.	Item	Input Data	Default
01	**Notification**	0 = Off 1 = On	0
02	**Notification Begin Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
03	**Notification End Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
04	**Notification Type**	0 = Undefined 1 = Voice 2 = Pager	1 (Voice)
05	**Notification Number**	Up to 16 digits	No Setting
06	**Notification Busy Attempts**	1~99 (attempts)	5
07	**Notification RNA Attempts**	1~99 (attempts)	5
08	**Notification Security**	0 = Off 1 = On	1
09	**Notification Day of Week Sunday**	0 = Disabled 1 = Enabled	1
10	**Notification Day of Week Monday**	0 = Disabled 1 = Enabled	1

Item No.	Item	Input Data	Default
11	**Notification Day of Week Tuesday**	0 = Disabled 1 = Enabled	1
12	**Notification Day of Week Wednesday**	0 = Disabled 1 = Enabled	1
13	**Notification Day of Week Thursday**	0 = Disabled 1 = Enabled	1
14	**Notification Day of Week Friday**	0 = Disabled 1 = Enabled	1
15	**Notification Day of Week Saturday**	0 = Disabled 1 = Enabled	1

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-21 : Station Mailbox Find-Me Follow-Me Options

Level: IN

Description

Use **47-21 : Station Mailbox Find-Me Follow-Me Options** to set the InMail Station Mailbox Message Find-Me Follow-Me parameters.

Input Data

Station Mailbox Number	1~896

Index Number	1~3

Item No.	Item	Input Data	Default
01	**Find-Me Follow-Me**	0 = Off 1 = On	0
02	**Find-Me Follow-Me Begin Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
03	**Find-Me Follow-Me End Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
04	**Find-Me Follow-Me Number**	Up to 16 digits	No Setting
05	**Find-Me Follow-Me Day of Week Sunday**	0 = Disabled 1 = Enabled	1
06	**Find-Me Follow-Me Day of Week Monday**	0 = Disabled 1 = Enabled	1
07	**Find-Me Follow-Me Day of Week Tuesday**	0 = Disabled 1 = Enabled	1
08	**Find-Me Follow-Me Day of Week Wednesday**	0 = Disabled 1 = Enabled	1
09	**Find-Me Follow-Me Day of Week Thursday**	0 = Disabled 1 = Enabled	1

Item No.	Item	Input Data	Default
10	**Find-Me Follow-Me Day of Week Friday**	0 = Disabled 1 = Enabled	1
11	**Find-Me Follow-Me Day of Week Saturday**	0 = Disabled 1 = Enabled	1

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-22 : Group Mailbox Notification Options

Level: IN

Description

Use **47-22 : Group Mailbox Notification Options** to set the InMail Group Mailbox Message Notification parameters.

Input Data

Group Mailbox Number	1~32

Index Number	1~5

Item No.	Item	Input Data	Default
01	**Notification**	0 = Off 1 = On	0
02	**Notification Begin Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
03	**Notification End Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
04	**Notification Type**	0 = Undefined 1 = Voice 2 = Pager	1 (Voice)
05	**Notification Number**	Up to 16 digits	No Setting
06	**Notification Busy Attempts**	1~99 (attempts)	5
07	**Notification RNA Attempts**	1~99 (attempts)	5
08	**Notification Security**	0 = Off 1 = On	1
09	**Notification Day of Week Sunday**	0 = Disabled 1 = Enabled	1
10	**Notification Day of Week Monday**	0 = Disabled 1 = Enabled	1

Item No.	Item	Input Data	Default
11	**Notification Day of Week Tuesday**	0 = Disabled 1 = Enabled	1
12	**Notification Day of Week Wednesday**	0 = Disabled 1 = Enabled	1
13	**Notification Day of Week Thursday**	0 = Disabled 1 = Enabled	1
14	**Notification Day of Week Friday**	0 = Disabled 1 = Enabled	1
15	**Notification Day of Week Saturday**	0 = Disabled 1 = Enabled	1

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-23 : Group Mailbox Find-Me Follow-Me Options

Level: IN

Description

Use **47-23 : Group Mailbox Find-Me Follow-Me Options** to set the InMail Group Mailbox Message Find-Me Follow-Me parameters.

Input Data

Group Mailbox Number	1~32

Index Number	1~3

Item No.	Item	Input Data	Default
01	**Find-Me Follow-Me**	0 = Off 1 = On	0
02	**Find-Me Follow-Me Begin Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
03	**Find-Me Follow-Me End Hour**	00~23 (00 = 12:00 AM, 23 = 11:00 PM)	00
04	**Find-Me Follow-Me Number**	Up to 16 digits	No Setting
05	**Find-Me Follow-Me Day of Week Sunday**	0 = Disabled 1 = Enabled	1
06	**Find-Me Follow-Me Day of Week Monday**	0 = Disabled 1 = Enabled	1
07	**Find-Me Follow-Me Day of Week Tuesday**	0 = Disabled 1 = Enabled	1
08	**Find-Me Follow-Me Day of Week Wednesday**	0 = Disabled 1 = Enabled	1
09	**Find-Me Follow-Me Day of Week Thursday**	0 = Disabled 1 = Enabled	1

Item No.	Item	Input Data	Default
10	**Find-Me Follow-Me Day of Week Friday**	0 = Disabled 1 = Enabled	1
11	**Find-Me Follow-Me Day of Week Saturday**	0 = Disabled 1 = Enabled	1

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-01 : CCIS System Setting

Level: IN

Description

Use **Program 50-01 : CCIS System Setting** to set the availability of CCIS in the UNIVERGE SV9100. No other CCIS settings function if this program is disabled.

Input Data

Item No.	Item	Input Data	Default
01	**CCIS Availability**	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-02 : Connecting System Settings

Level: IN

Description

Use Program **50-02 : Connecting System Settings** to define the settings for each CCIS Route ID.

Input Data

CCIS Route ID	Route ID 1~8: CCIS via DTI Route ID 9: CCIS via IAD/GCD-PVAA (IP-CCIS)

Item No.	Item	Description	Input Data	Default
01	**Port Number of Common Signaling Channel (T1)**	Specify the Trunk port to send D-channel information. This program is available for using DTI package.	0~400	0
02	**Common Signaling Channel Data Speed Assignment (T1)**	Assign the baud rate of Common Signaling Channel on DTI package.	0 = 64Kbps 1 = 56Kbps 2 = 48Kbps(1) 3 = 48Kbps(2)	1
03	**Originating Point Code**	Assign the Point Code of own side.	0~16367	0
04	**Destination Point Code (T1)**	Assign the Point Code of destination side on the DTI link.	0~16367	0
05	**Calling Name Indication (T1)**	Calling name indication is not sent to destination party if switch is set to 0.	0 = Disable 1 = Enable	1
06	**CCH Package channel Number**	CCT Package Assignment	0 ~ 4	0

Conditions

- If 56K K-CCIS is used, 24 Multi-Frame (ESF) must be assigned in Program 10-03-02.
- DPC must be what the OPC is on the opposite side of the link.

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-03 : CCIS Destination System Settings

Level: IN

Description

Use **Program 50-03 : CCIS Destination System Settings** to assign information of remote systems in a CCIS Network.

Input Data

CCIS System ID	1~255

Item No.	Item	Description	Input Data	Default
01	**Destination Point Code**	Define the Point Code at the Destination Party.	0~16367	0
02	**CCIS Route ID (T1 only)**	Select the CCIS Route ID defined in Program 14-13 when the user tries to access the system in a CCIS network.	0~8 (CCIS Route IDs 5~8 are for future use and should not be used.)	0
03	**IP Address (IP only)**	Assign the IP Address to a CCIS System ID.	xxx.xxx.xxx.xxx (xxx = 0~255)	0.0.0.0
04	**Point Code Availability**	Define if the system associated with Destination Code can be Reached (1) or Not Reached (0). If set to 0, when using the IP-CCIS, that system cannot be called until it is set to 1.	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-04 : CCIS Office Code Assignment

Level: IN

Description

Use **Program 50-04 : CCIS Office Code Assignment** to define the Office Code when the CCIS Network is constructed with an Open Numbering Plan.

Input Data

Item No.	Item	Input Data	Default
01	**CCIS Office Code**	xxxx (up to four digits) 0~9	No Setting

Conditions

This program is used only in an Open Numbering Plan network. This should include the Trunk Access Code and Office Code number.

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-05 : CCIS Maximum Call Forwarding Hop Counter

Level: IN

Description

Use **Program 50-05 : CCIS Maximum Call Forwarding Hop Counter** to define the maximum hop counter of call forwarding.

Item	Input Data	Default
Maximum Hop Counter	1~7	5

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-06 : CCIS Feature Availability

Level:
IN

Description

Use **Program 50-06 : CCIS Feature Availability** to define the availability of CCIS features.

Item No.	Item	Input Data	Default	Description
01	**Link Reconnect**	0 = Not available 1 = Available	1	If this data is set to 0, Link Reconnect does not work.
02	**Centralized Day/Night Switching (for message receiver side)**	0 = Disable 1 = Enable	1	If this data is turned to 0, Day/ Night mode is not changed even if system receives Switching message from center.
03	**Adding Dial Digits in Front of CPN**	Valid characters: 0~9, # ∗	No Setting	

Conditions
None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-07 : CCIS Centralized Billing Center Office

Level: IN

Description

Use **Program 50-07 : CCIS Centralized Billing Center Office** to define the Point Code and CCIS Route ID for the Billing Center Office.

Input Data

Item No.	Item	Input Data	Default	Description
01	**Destination Point Code**	0~16367	0	Define the Point Code of Billing Center Office.
02	**CCIS Route ID**	0~8	0	Define the CCIS Route ID to send Billing Center Office.
03	**Billing Message Format**	0 = Normal Format 1 = Expand Format	0	

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-08 : CCIS Centralized BLF Sending Group Assignment

Level: IN

Description

Use **Program 50-08 : CCIS Centralized BLF Sending Group Assignment** to define the destination of BLF for the sending system. Eight sending systems can be registered in this program.

Input Data

BLF Sending Group	1~8

Item No.	Item	Input Data	Default	Description
01	**Destination Point Code**	0~16367	0	Define the Point Code of Billing Center Office.
02	**CCIS Route ID**	0~8	0	Define the CCIS Route ID to send Billing Center Office.

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-09 : CCIS Centralized BLF Sending Extension Number Assignment

Level: IN

Description

Use **Program 50-09 : CCIS Centralized BLF Sending Extension Number Assignment** to define the extension number for sending BLF messages. One extension number can have a sending switch for each sending group, which is defined in Program 50-08.

Input Data

Entry	1~120

Item No.	Item	Input Data	Default	Description
01	**Extension Number**	xxxxxxxx (up to eight digits)	No Setting	Extension number. BLF message is indicated when the status of the specified extension number is changed.
02	**Send to Sending Group 1**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 1 assigned in PRG 50-08-XX.
03	**Send to Sending Group 2**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 2 assigned in PRG 50-08-XX.
04	**Send to Sending Group 3**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 3 assigned in PRG 50-08-XX.
05	**Send to Sending Group 4**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 4 assigned in PRG 50-08-XX.
06	**Send to Sending Group 5**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 5 assigned in PRG 50-08-XX.
07	**Send to Sending Group 6**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 6 assigned in PRG 50-08-XX.
08	**Send to Sending Group 7**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 7 assigned in PRG 50-08-XX.
09	**Send to Sending Group 8**	0 = Disable 1 = Enable	0	Enable/Disable the ability to send the BLF to Send Group 8 assigned in PRG 50-08-XX.

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-10 : CCIS Centralized BLF Interval Time Assignment

Level: IN

Description

Use **Program 50-10 : CCIS Centralized BLF Interval Time Assignment** to define the time to send BLF messages.

Input Data

Item No.	Item	Input Data	Default
01	**Type of Interval Time** Define the time to send BLF messages.	0 = 4 seconds 1 = 8 seconds 2 = 12 seconds 3 = 16 seconds	0

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-11 : CCIS Centralized Day/Night Switching Sending Group Assignment

Level: IN

Description

Use **Program 50-11 : CCIS Centralized Day/Night Switching Sending Group Assignment** to define Point Code and CCIS Route ID for sending Day/Night Switching message.

Input Data

Day/Night Mode Sending Group	1~16

Item No.	Item	Input Data	Default	Description
01	**Destination Point Code**	0~16367	0	Define the Point Code for Day/Night Switching.
02	**CCIS Route ID**	0~8	0	Define the CCIS Route ID to send Day/Night Switching messages. (T1 only)

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-12 : CCIS Centralized Day/Night Mode to System Mode Assignment

Level: IN

Description

Use **Program 50-12 : CCIS Centralized Day/Night Mode to System Mode Assignment** to define corresponding night mode to switch to when Day/Night mode switching message arrives.

Item No.	Item	Input Data	Default
01	**Day Mode**	1~8	1
02	**Night Mode**	1~8	2

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-13 : CCIS Centralized Response Timeout Assignment

Level:
IN

Description

Use **Program 50-13 : CCIS Centralized Response Timeout Assignment** to define the response timeout value.

Item No.	Item	Input Data	Default
01	**IAI Response Timer**	0~99	30

Conditions
None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-14 : CCIS Intercom Digits for Caller ID Call Return

Level:
IN

Description

Use **Program 50-14 : CCIS Intercom Digits for Caller ID Call Return** to eliminate the 9 on Caller ID redial except for 7- and 8-digit extensions.

Item No.	Item	Input Data	Default
01	**CCIS Intercom Digits for Caller ID Call Return**	0~24 (0 = Ignore setting)	0

Conditions

None

Feature Cross Reference

None

Program 50 : Common Channel Interoffice Signaling Service

50-15 : CCIS over IP Basic Information Setting

Level: IN

Description

Use **Program 50-15 : CCIS over IP Basic Information Setting** to set the basic parameters for CCIS over IP.

Input Data

Item No.	Item	Input Data	Default
02	**TCP Server Port Number**	0~65535	57000
03	**TCP Client Base Port Number**	0~65535	59000
04	**Connection Method for Terminal** Choose the connection method for the DT900/DT800	0 = Peer to Peer disable 1 = Peer to Peer enable	1

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-01 : NetLink System Property Setting

Level: IN

Description

Use **Program 51-01 : NetLink System Property Setting** to define the parameters of the NetLink feature.

IMPORTANT

- *Each system must be set with its own information.*
- *When the NetLink System ID is changed (Item 01), the system must be reset.*

Input Data

Item No.	Item	Input Data	Default
01	**NetLink System ID** This is the ID of each NetLink system. Setting should insure that no overlap occurs between nodes.	0~50 (0 = No operation)	0
02	**Primary Candidate Order** When the Primary system is turned off or disconnected from network, this value is used to select a new Primary system. Smaller number is higher priority. If this value is the same number, the System ID (PRG51-01-01) is referred, and the system which has the smaller number is selected as Primary system.	1~50	30
03	**Secondary System Flag** 0: NetLink is dynamically established based on Node List in PRG51-03-01. Primary System is selected in the order which the system wakes up. 1: The system connects with Top Priority Primary System. If Top Priority Primary System was not found, the system searches Primary System like this setting is 0.	0 = Disable 1 = Enable	0

Input Data (Continued)

Item No.	Item	Input Data	Default
04	**Signal Transmit Method** 0 = Immediate This is the default setting which does not use Nagle Algorithm. When this is enabled data packets are immediately sent across the network with no buffering delay. 1 = Buffering Nagle Algorithm enabled. This means that small data packets will not be transmitted immediately across the network. The smaller data packets will be buffered and then sent across as larger data packets therefore decreasing the number of packets sent across the network. When the number of packets sent across the network decreases, the amount of bandwidth also decreases.	0 = Immediate 1 = Buffering	1

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-02 : NetLink System Basic Setup

Level: IN

Description

Use **Program 51-02 : NetLink System Basic Setup** to set system data for each NetLink system.

Input Data

System ID	1~50

Item No.	Item	Input Data	Default
01	**System Name** Enter the name given to each system.	Up to 20 characters.	blank
02	**Primary System Clock Hour Offset** Determine the time offset from the Primary system. (0 = -12, 1 = -11, 2 = -10.... 12 = 0, 13 = +1, 14 = +2, 24 = +12) This setting affects time display on MLT (see 51-13-02).	0~24	12
04	**Authenticate System MAC Address** To use this function, set PRG 51-13-03 to 1 (enable), NetLink systems reject the connection from unauthenticated system access.	00-00-00-00-00-00~ FF-FF-FF-FF-FF-FF	00-00-00-00-00-00

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-03 : NetLink Internet Protocol Address List Setting

Level: IN

Description

Use **Program 51-03 : NetLink Internet Protocol Address List Setting** to set the IP address of the NetLink system.

Input Data

List ID	1~50

Item No.	Item	Input Data	Default
01	**Internet Protocol Address List** The system seeks the Primary system based on this list. When there is no Primary system yet, or Fail-Over occurs, Node List is referred to establish new link. This setting is necessary when PRG 51-01-03 is 0, or PRG 51-05-02 is other than 0. Once the system connects to the Primary System, this setting is updated by the Primary system when PRG 51-13-01 is On. So, enter IP address of the systems that may become Primary at least.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0

Conditions

- When there is no Primary System yet, or Fail Over occurs, Node List is referred to establish new link.
- This setting is necessary when PRG 51-01-03 is 0, or PRG 51-05-02 is other than 0. Once the system connects to the Primary System, this setting is updated by the Primary system when PRG 51-13-01 is on. So, enter IP address of the systems that may become Primary at least.

Feature Cross Reference

None

Program 51 : NetLink Service

51-04 : IP Address Setting of Top Priority Primary System of NetLink

Level: IN

Description

Use **Program 51-04 : IP Address Setting of Top Priority Primary System of NetLink** to set the IP address of the new Primary System.

Input Data

List ID	1~50

Item No.	Item	Input Data	Default
01	**Internet Protocol Address of Top Priority Primary** Enter the IP address of the Top Priority Primary System. To use this feature, set PRG 51-06-01 to 1.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-05 : NetLink Timer Settings

Level: IN

Description

Use **Program 51-05 : NetLink Timer Settings** to set the various timers in the NetLink system.

Input Data

Item No.	Item	Input Data	Default
01	**Keep Alive Sending Interval** Set the Keep Alive sending interval time from the Secondary system to confirm communication with the Primary system.	1~3600 (sec)	5
02	**Keep Alive Response Waiting Time** Set the time the Secondary system waits for a response from the Primary system before cutting off communication.	0, 5~3600 (sec) (0 = infinity)	20
03	**Primary Search Packet Sending Interval** While searching the Primary system, the system sends a packet at this interval.	1~3600 (sec)	5
04	**Primary Search Time Maximum Value** Total Primary system seek time.	5~10800 (sec)	20
05	**Top Priority Primary Detection Packet Sending Interval** When current Primary system is not Top Priority Primary System, the system sends packet to check if Top Priority System exists.	1~3600 (sec)	10
06	**Primary Compulsion Specification Trial Maximum Time** When the forced change Primary command is executed, the system searches the new Primary system for this time.	1~10800 (sec)	30
07	**Socket Refresh Time** If the IP connection becomes unstable, the keep-alive function does not work. If there is no data traffic for this time, the socket is refreshed.	20~3600 (sec)	40

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-06 : NetLink Primary Automatic Integration Setting

Level:
IN

Description

Use **Program 51-06 : NetLink Primary Automatic Integration Setting** to set the automatic integration of the Primary system.

Item No.	Item	Input Data	Default
01	**Primary Integration Right or Wrong** When LAN cable was divided, multiple Primary systems may appear. If the LAN connection is recovered, multiple Net-Links exist in the network. When this option is enabling, NetLink is composed around Top priority Primary System.	0 = Off 1 = On	0
02	**Package Reset Timing Option** When Primary System Automatic Integration is done, all packages of secondary systems reset. Select the timing of package reset.	0 = Reset when all packages are idle. 1 = Anytime	0

Conditions
None

Feature Cross Reference

None

Program 51 : NetLink Service

51-07 : NetLink Primary Compulsion Specification Setting

Level: IN

Description

Use **Program 51-07 : NetLink Primary Compulsion Specification Setting** to set compulsion specification of the Primary system.

Item No.	Item	Input Data	Default
01	**Forced Change Primary System Enabling** Set whether or not the Forced Change Primary is available.	0 = Disable 1 = Enable	0
02	**Package Reset Timing Option** When Forced Change Primary System is done, all packages reset. Select the package reset timing. 0 = Reset when all packages are idle, otherwise reject Primary System Integration. 1 = Anytime	0 = On 1 = Off	0

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-08 : Primary NetLink Setting

Level: IN

Description

Use **Program 51-08 : Primary NetLink Setting** to set the IP address and system ID of the compulsory specification of the Primary system.

IMPORTANT

This program is available only via telephone programming and not through PC Programming.

Item No.	Item	Input Data	Default
01	**IP Address of New Primary System** Enter target IP address for New Primary system. When the Forced Change Primary system is done, this setting is erased.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
02	**System ID of New Primary System** When set to 0, top priority Primary system is assumed to be the new Primary system.	0~50	No setting

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-09 : NetLink Communication Port Settings

Level: IN

Description

Use **Program 51-09 : NetLink Communication Port Settings** to set the various communication ports used on the system.

Input Data

Item No.	Item	Input Data	Default
01	**Primary Waiting Port** Set the communication port that the Primary system uses to communicate with the Secondary system.	0~65535	58000
02	**Communication Waiting Port** Select port used to communicate between nodes. It is always opened by all nodes.	0~65535	58001
03	**Secondary Communication Port** Secondary system communicates with Primary system at this port number. If 0 is specified, temporary port is dynamically selected.	0~65535	0
04	**Primary Search Port** When Fail-Over occurs, each system communicates with other system at this port number. If 0 is set, temporary port is dynamically selected. If 0 is not specified, the number and continuous maximum 50 number is used. (Ex. 5000 is specified 5001, 5002…5049 are used).	0~65535	0
05	**Primary Detection Port** Enter port number to seek the Top Priority Primary system. If 0 is specified, temporary port is dynamically selected.	0~65535	0
06	**Database Replication Communication Listening Port** Use this port to replicate database.	0~65535	58002
07	**Database Replication Primary Detection Port Use** Use this port to replicate database. If 0 is specified, temporary port is dynamically selected.	0~65535	0

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-10 : Virtual Slot Setting

Level: IN

Description

Use **Program 51-10: Virtual Slot Setting** to view the number of Virtual slots that are remaining in a NetLink network. There can be up to 240 virtual slots available in NetLink.

Input Data

Item No.	Item	Input Data	Default
01	**Number of Available Virtual Slots** 240 slots can be controlled in NetLink. This command can check how many slots are available.		

Conditions

- This Program is Read Only.

Feature Cross Reference

None

Program 51 : NetLink Service

51-11 : NetLink System Information

Level: IN

Description

Use **Program 51-11: NetLink System Information** to reference information about other systems in the NetLink network.

Input Data

System ID	1~50

Item No.	Item	Input Data	Default
01	**System Name**	For reference only.	blank
02	**Connected State**	For reference only.	0
03	**IP Address**	For reference only.	000.000.000.000
04	**MAC Address**	For reference only.	00:00:00:00:00:00
05	**Primary Priority Level**	For reference only.	0
06	**Main Software Version**	For reference only.	XX.XX

Conditions

This program is **read only.**

Feature Cross Reference

None

Program 51 : NetLink Service

51-12 : Primary System Information

Level: IN

Description

Use **Program 51-12: Primary System Information** to reference information about the Primary System in the NetLink network.

Input Data

Item No.	Item	Input Data	Default
01	**System ID**	For reference only.	0
02	**System Name**	For reference only.	blank
03	**IP Address**	For reference only.	000.000.000.000
04	**MAC Address**	For reference only.	00:00:00:00:00:00
05	**Primary Priority Level**	For reference only.	0
06	**Main Software Version**	For reference only.	XX.XX

Conditions

- This Program is Read Only.

Feature Cross Reference

None

Program 51 : NetLink Service

51-13 : NetLink Options

Level: IN

Description

Use **Program 51-13: NetLink Options** to enable automatic IP address List Operation updates, time zone information, and MAC address authorization.

Input Data

Item No.	Item	Input Data	Default
01	**Automatic IP Address List Operation Update** When set to 1, the list in PRG51-03-01 is automatically updated.	0 = Disable (Off) 1 = Enable (On)	1
02	**Time Zone Option** When set to 0, the following features are affected: Clock Display, Incoming/Outgoing History List. When set to 1, the following features are affected: VRS Time Announce, Date and Time Setting Service Code, Alarm Clock setting, and Hotel mode wake-up call.	0 = Disable (Off) 1 = Enable (On)	0
03	**MAC Address Authorization Enable** Refers to PRG 51-02-04 for setting MAC address.	0 = Disable (Off) 1 = Enable (On)	0
05	**DTMF, Dial Tone Receiver Mode Setting** The reference of “DTMF, Dial Tone Detection Setup” of NetLink systems is switched by this value. 0: Refer to Program 10-09-01 1: Refer to Program 51-20-01 ✎ *Version 10.00 or higher required*	0 = Sharing 1 = Individual	0

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-14 : NetLink System Control

Level: IN

Description

Use **Program 51-14: NetLink System Control** to clear the ID number's system configuration and to delete the system's slot information.

IMPORTANT

This program is available only via telephone programming and not through PC Programming.

Input Data

System ID	1~50

Item No.	Item	Input Data
01	**Delete System Information** Delete system information and the slot information. The system must be disconnected.	Dial 1 and press TRF key, the ID system's data will clear.

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-15 : Demonstration Setting

Level: IN

Description

Use **Program 51-15: Demonstration Setting** to automatically set the minimum setting values in NetLink. A system reset occurs after this command is executed.

IMPORTANT

This program is available only via telephone programming and not through PC Programming.

Input Data

Menu Number	1 = Primary automatic setting 2 = Secondary 1 - automatic operation setting 3 = Secondary 2 - automatic operation setting 4 = Secondary 3 - automatic operation setting

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-16 : NetLink System Data Replication Mode Setting

Level: IN

Description

Use **Program 51-16: NetLink System Data Replication Mode Setting** to set the system data replication between the Primary and Secondary systems.

Input Data

Item No.	Item	Input Data	Default
01	**System Data Replication Mode** Set the synchronous mode of the system data. When set to 1, the systems are synchronized at the time set in Item 02 below. When set to 2, the systems are synchronized at regular time intervals set in Item 03 below.	0 = Disable 1 = Setting Time Mode 2 = Interval Mode	1
02	**System Data Replication Time Setting** Set the time of day that both systems synchronize database (when Item 01 is set to 1.)	0000~2359	0200
03	**System Data Replication Interval Setting** Set the time interval that both systems synchronize database (when Item 01 is set to 2).	15~1440 (minutes)	30 (min)
04	**Replication Time Stamp** Show next replication time. (Read-Only)	Month: 0~12	–
		Day: 0~31	–
		Hour: 00~23	–
		Minute: 00~59	–
05	**System Data Replication Wait Time** Set the wait time until replication starts when NetLink is created.	1~86400 (seconds)	180 sec
06	**System Data Replication Interval** Set the time to start replication to the next node after replication to one node is completed.	0~86400 (seconds)	1 sec

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-17 : NetLink DT900/DT800 Server Individual Information Setup

Level: IN

Description

Use **Program 51-17: NetLink DT900/DT800 Server Individual Information Setup** to set the NetLink port information.

Input Data

System ID	1~50

Item No.	Item	Input Data	Default
01	**Register Port** Use to set the SIP Register Port of each system.	0 ~ 65535	5080
02	**Subscribe Session Port** Use to set the SIP Subscribe Session Port number of each system when NetLink is used.	0 ~ 65535	5081

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-18 : NetLink Configuration Options

Level: IN

Description

Use **Program 51-18: NetLink Configuration Options** to set the NetLink Fail-Over limits.

Input Data

Item No.	Item	Input Data	Default
01	**NetLink Fail-Over Limit** When tear-down of network was repeated more than the specified times, NetLink is operated standalone.	0, 2~10 (0 = Infinity)	0

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-19 : NetLink IP Trunk (SIP) Calling Party Number Setup for Extension

Level: IN

Description

Use **Program 51-19: NetLink IP Trunk (SIP) Calling Party Number Setup for Extension** to set CPN transmission for each secondary system.

Input Data

Extensions	001 ~ 960

Input Data

Item No.	Item	Input Data	Default
01	**NetLink CPN Transmission** This program assigns transmission of Calling Party Number (CPN) from PRG 21-19 for each secondary system. The transmission applies for every extension.	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

None

Program 51 : NetLink Service

51-20 : NetLink DTMF, Dial Tone Detection Individual Setup

Level: IN

Description

Use **Program 51-20: NetLink DTMF, Dial Tone Detection Individual Setup** to allocate the CPU/DSP and EXIFU/DSP resource for DTMF receiving or Tone detection purpose for each NetLink node system.

Input Data

Index 1	System ID	1~50

Index 2	DSP Circuit Resource on GCD-CP10	1~144
	DSP Circuit Resource on GCD-CP20	1~153

Input Data

Item No.	Item	Input Data	Default
01	**DTMF, Dial Tone Detection** This program is supported with the NetLink system. It is necessary to set (1: Individual) in PRG 51-13-05 of the NetLink Primary System. If not set, this program is ignored and PRG 10-09-01 is used. ✎ *Version 10.00 or higher required.*	0 = Common use for both analog extensions and trunks. 1 = Use for analog extensions (DTMF receivers). 2 = Use for analog trunks (DTMF receivers/Dial Tone detection/MFC signal detection/Multi frequency signal detection/Caller ID detection).	[All System ID] Resource 01~08 = 1 Resource 09~32 = 2 Resource 33~144 = 0 (for GCD-CP10) 33~153 = 0 (for GCD-CP20)

Conditions

- With the GCD-CP10, circuits 1~80 can be used initially. If GPZ-BS10 is installed, circuits 81~144 can be used.
- With the GCD-CP20, circuits 1~105 can be used initially. If GPZ-BS20 is installed, circuits 106~153 can be used.

- These circuits are allocated for:
  Extension: DTMF receiver for single line telephone.
  Trunk: DTMF receiver for analog trunks. Dial tone, busy tone, MFC signal, Multi Frequency signal and Caller ID detection for analog trunks.

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-01 : Service Tone Setup

Level: IN

Description

Use **Program 80-01 : Service Tone Setup** to define up to 64 Service Tones. Each service tone is defined by the combination of 32 Basic Tones.

Input Data

Service Tone Number	01~64

Item No.	Item	Input Data
01	**Repeat Count**	0~255 (0 = until On-Hook)

Unit Number	1~8

Item No.	Item	Input Data
02	**Basic Tone Number**	1~33 (0 = No Tone) (33 = Default Time Slot)
03	**Duration Count**	1~255 (100~25500ms) 0~255 (0,50~12750ms: 50ms each) (from GCD-CP20)
04	**Gain Level (dB)**	1~57 (-15.5 ~ +12.5)

Table 2-19 Basic Tones

Basic Tone No.	Frequency (Hz)	Level (dB)	Basic Tone No.	Frequency (Hz)	Level (dB)
01	400	- 13	17	520 / 650	-13 / -19
02	520	-13	18	650 / 780	-13 / -19
03	580	-13	19	780 / 1040	-13 / -19
04	660	-13	20	1040	-13
05	700	-13	21	450	-13
06	800	-13	22	950	-13
07	880	-13	23	1080	-13
08	1050	-13	24	400/450	-13/-13
09	350 / 440	-16 / -16	25	-- Reserve --	-
10	440 / 480	-16 / -16	26	-- Reserve --	-
11	480 / 620	-21 / -21	27	-- Reserve --	-
12	440	-16	28	-- Reserve --	-
13	-- Reserve --	-	29	-- Reserve --	-
14	520 / 650	-19 / -13	30	-- Reserve --	-
15	650 / 780	-19 / -13	31	-- Reserve --	-
16	780 / 1040	-19 / -13	32	-- Reserve --	-

Default (Version 9.00 or Lower)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
1	**No Tone**	0	Basic 1	0	10	32 (0dB)
2	**Internal Dial Tone**	0	Basic 1	9	10	32 (0dB)
3	**Stutter Dial Tone**	0	Basic 6	0 9 0 9 0 9	2 1 1 1 1 77	32 (0dB)
4	**Internal Recall Dial Tone**	2	Basic 2	9 0	1 1	32 (0dB) 32 (0dB)
5	**Trunk Dial Tone**	0	Basic 1	9	10	32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
6	**Internal Busy Tone**	0	Basic 2	0 11	5 5	20 (-6dB) 20 (-6dB)
7	**DND Busy Tone**	0	Basic 2	0 1	2 2	32 (0dB) 32 (0dB)
8	**B-Busy Tone**	0	Basic 2	0 11	5 5	20 (-6dB) 20 (-6dB)
9	**Internal Reorder Tone**	0	Basic 2	11 0	3 2	20 (-6dB) 20 (-6dB)
10	**Internal Interrupt Tone**	0	Basic 2	0 1	1 1	32 (0dB) 32 (0dB)
11	**Internal Confirmation Tone**	3	Basic 2	0 6	5 1	32 (0dB) 32 (0dB)
12	**Internal Hold Tone**	0	Basic 0	0	0	32 (0dB)
13	**External Hold Tone**	0	Basic 0	0	0	32 (0dB)
14	**Intercom Ringback Tone**	0	Basic 2	9 0	10 20	32 (0dB) 32 (0dB)
15	**Override Tone**	1	Basic 1	12	5	32 (0dB)
16	**Lock-out Tone**	0	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
17	**Clock Alarm Tone**	0	Basic 4	6 0 6 0	1 1 1 7	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
18	**BGM**	0	Basic 0	0	0	32 (0dB)
19	**Door Box Chime 1**	3	Basic 6	4 4 2 2 2 0	2 2 3 4 6 5	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
20	**Door Box Chime 2**	3	Basic 6	7 7 5 5 5 0	2 2 3 4 6 5	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
21	**Door Box Chime 3**	3	Basic 6	8 8 6 6 6 0	2 2 3 4 6 5	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
22	**Door Box Chime 4**	3	Basic 6	4 4 2 2 2 0	1 1 2 2 3 2	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
23	**Door Box Chime 5**	3	Basic 6	7 7 5 5 5 0	1 1 2 2 3 2	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
24	**Door Box Chime 6**	3	Basic 6	8 8 6 6 6 0	1 1 2 2 3 2	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
25	**Service Set Tone**	3	Basic 2	0 9	1 1	32 (0dB) 32 (0dB)
26	**Service Clear Tone**	3	Basic 2	0 9	1 1	32 (0dB) 32 (0dB)
27	**Talkback Tone**	2	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
28	**Speaker Monitor Tone** The originator hears this tone when placing a handsfree speaker ICM call.	1	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
29	**Door Relay Tone**	1	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
30	**Door Box Call Tone**	1	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
31	**Paging Tone**	2	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
32	**Splash Tone 1**	1	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
33	**Splash Tone 2**	2	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
34	**Splash Tone 3**	3	Basic 2	0 6	1 1	32 (0dB) 32 (0dB)
35	**1-Second Signal Tone**	1	Basic 1	6	10	32 (0dB)
36	**External Audible Ring Tone**	0	Basic 2	7 0	2 2	32 (0dB) 32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
37	**External Reorder Tone**	0	Basic 2	7 0	5 5	32 (0dB) 32 (0dB)
38	**External Busy Tone**	0	Basic 2	7 0	7 7	32 (0dB) 32 (0dB)
39	**Special Audible Ring Busy Tone**	0	Basic 6	0 11 0 11 10 0	5 5 5 5 10 20	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
40	**Internal Call Waiting Tone**	1	Basic 1	12	2	32 (0dB)
41	**Intrusion Tone**	1	Basic 1	12	5	32 (0dB)
42	**Conference Tone**	0	Basic 0	0	0	32 (0dB)
43	**Intrusion Tone 2**	0	Basic 1	2	8	32 (0dB)
44	**External Dial Tone**	0	Basic 1	9	1	26 (-3dB)
45	**External Ring Back Tone**	0	Basic 2	10 0	10 30	32 (0dB) 32 (0dB)
46	**External Busy Tone**	0	Basic 2	11 0	5 5	32 (0dB) 32 (0dB)
47	**Number Unobtainable Tone**	0	Basic 1	11	0	32 (0dB)
48	**Voice Mail Message Indication Tone**	0	Basic 2	9 0	1 1	32 (0dB) 32 (0dB)
49	**--- Not Used ---**					
50	**External Special Audible Ring Tone**	0	3	10 12 0	10 2 30	32 (0dB) 32 (0dB) 32 (0dB)
51	**External Intercept Tone**	0	2	12 4	3 2	32 (0dB) 32 (0dB)
52	**External Call Waiting Tone**	1	1	12	3	32 (0dB)
53	**External Executive Override Tone**	1	1	12	10	32 (0dB)
54	**--- Not Used ---**					
55	**Generate tone for TAPI2.1**	0	Basic 1	3	0	32 (0dB)
56	**Warning Beep Tone Signaling**	1	Basic 1	2	8	32 (0dB)
57	**Headset Ear Piece Ringing Tone**	0	Basic 5	0 2 0 2 0	2 1 1 1 20	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
58	**Opening Chime Tone**	1	Basic 8	2 2 14 14 15 15 16 16	2 2 2 2 2 2 6 4	32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB)
59	**Ending Chime Tone**	1	Basic 8	20 20 19 19 18 18 17 17	2 2 2 2 2 2 6 4	32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB)
60	**Splash Tone 1 (Mute)**	1	Basic 2	0 6	1 1	8 (-12dB) 8 (-12dB)
61	**Splash Tone 2 (Mute)**	2	Basic 2	0 6	1 1	8 (-12dB) 8 (-12dB)
62	**Splash Tone 3 (Mute)**	3	Basic 2	0 6	1 1	8 (-12dB) 8 (-12dB)
63	**EXT SPK Ring-back Tone**	0	Basic 2	10 0	10 30	32 (0dB) 32 (0dB)
64	**Special Hold Tone**	0	4	11 0 11 0	2 3 2 12	35 (+1.5dB) 32 (0dB) 35 (+1.5dB) 32 (0dB)

Default (Version 10.00 or Higher)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
1	**No Tone**	0	Basic 1	0	20	32 (0dB)
2	**Internal Dial Tone**	0	Basic 1	9	20	32 (0dB)
3	**Stutter Dial Tone**	0	Basic 6	0 9 0 9 0 9	4 2 2 2 2 154	32 (0dB)
4	**Internal Recall Dial Tone**	2	Basic 2	9 0	2 2	32 (0dB) 32 (0dB)
5	**Trunk Dial Tone**	0	Basic 1	9	20	32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
6	**Internal Busy Tone**	0	Basic 2	0 11	10 10	20 (-6dB) 20 (-6dB)
7	**DND Busy Tone**	0	Basic 2	0 1	4 4	32 (0dB) 32 (0dB)
8	**B-Busy Tone**	0	Basic 2	0 11	10 10	20 (-6dB) 20 (-6dB)
9	**Internal Reorder Tone**	0	Basic 2	11 0	6 4	20 (-6dB) 20 (-6dB)
10	**Internal Interrupt Tone**	0	Basic 2	11 0	6 4	20 (0dB) 20 (0dB)
11	**Internal Confirmation Tone**	3	Basic 2	0 9	2 2	32 (0dB) 32 (0dB)
12	**Internal Hold Tone**	0	Basic 0	0	0	32 (0dB)
13	**External Hold Tone**	0	Basic 0	0	0	32 (0dB)
14	**Intercom Ringback Tone**	0	Basic 2	10 0	20 60	20 (0dB) 20 (0dB)
15	**Override Tone**	1	Basic 1	12	10	32 (0dB)
16	**Lock-out Tone**	0	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
17	**Clock Alarm Tone**	0	Basic 4	6 0 6 0	2 2 2 14	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
18	**BGM**	0	Basic 0	0	0	32 (0dB)
19	**Door Box Chime 1**	3	Basic 6	4 4 2 2 2 0	4 4 6 8 12 10	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
20	**Door Box Chime 2**	3	Basic 6	7 7 5 5 5 0	4 4 6 8 12 10	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
21	**Door Box Chime 3**	3	Basic 6	8 8 6 6 6 0	4 4 6 8 12 10	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
22	**Door Box Chime 4**	3	Basic 6	4 4 2 2 2 0	2 2 4 4 6 4	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
23	**Door Box Chime 5**	3	Basic 6	7 7 5 5 5 0	2 2 4 4 6 4	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
24	**Door Box Chime 6**	3	Basic 6	8 8 6 6 6 0	2 2 4 4 6 4	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
25	**Service Set Tone**	3	Basic 2	0 9	2 2	32 (0dB) 32 (0dB)
26	**Service Clear Tone**	3	Basic 2	0 9	2 2	32 (0dB) 32 (0dB)
27	**Talkback Tone**	2	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
28	**Speaker Monitor Tone** The originator hears this tone when placing a handsfree speaker ICM call.	1	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
29	**Door Relay Tone**	1	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
30	**Door Box Call Tone**	1	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
31	**Paging Tone**	2	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
32	**Splash Tone 1**	1	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
33	**Splash Tone 2**	2	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
34	**Splash Tone 3**	3	Basic 2	0 6	2 2	32 (0dB) 32 (0dB)
35	**1-Second Signal Tone**	1	Basic 1	6	20	32 (0dB)
36	**External Audible Ring Tone**	0	Basic 2	10 0	20 60	32 (0dB) 32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
37	**External Reorder Tone**	0	Basic 2	0 11	4 6	32 (0dB) 32 (0dB)
38	**External Busy Tone**	0	Basic 2	0 11	10 10	32 (0dB) 32 (0dB)
39	**Special Audible Ring Busy Tone**	0	Basic 6	0 11 0 11 10 0	10 10 10 10 20 40	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
40	**Internal Call Waiting Tone**	1	Basic 1	12	4	32 (0dB)
41	**Intrusion Tone**	1	Basic 1	12	10	32 (0dB)
42	**Conference Tone**	0	Basic 0	0	0	32 (0dB)
43	**Intrusion Tone 2**	0	Basic 0	0	0	32 (0dB)
44	**External Dial Tone**	0	Basic 1	9	2	26 (-3dB)
45	**External Ring Back Tone**	0	Basic 2	10 0	20 60	32 (0dB) 32 (0dB)
46	**External Busy Tone**	0	Basic 2	0 11	10 10	32 (0dB) 32 (0dB)
47	**Number Unobtainable Tone**	0	Basic 1	11	0	32 (0dB)
48	**Voice Mail Message Indication Tone**	0	Basic 2	9 0	2 2	32 (0dB) 32 (0dB)
49	**--- Not Used ---**					
50	**External Special Audible Ring Tone**	0	3	10 12 0	20 4 60	32 (0dB) 32 (0dB) 32 (0dB)
51	**External Intercept Tone**	0	2	12 4	6 4	32 (0dB) 32 (0dB)
52	**External Call Waiting Tone**	1	1	12	6	32 (0dB)
53	**External Executive Override Tone**	1	1	12	20	32 (0dB)
54	**--- Not Used ---**					
55	**Generate tone for TAPI2.1**	0	Basic 1	3	0	32 (0dB)
56	**Warning Beep Tone Signaling**	1	Basic 1	2	16	32 (0dB)
57	**Headset Ear Piece Ringing Tone**	0	Basic 5	0 2 0 2 0	4 2 2 2 40	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
58	**Opening Chime Tone**	1	Basic 8	2 2 14 14 15 15 16 16	4 4 4 4 4 4 12 8	32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB)
59	**Ending Chime Tone**	1	Basic 8	20 20 19 19 18 18 17 17	4 4 4 4 4 4 12 8	32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB) 32 (0dB) 26 (-3dB)
60	**Splash Tone 1 (Mute)**	1	Basic 2	0 6	2 2	8 (-12dB) 8 (-12dB)
61	**Splash Tone 2 (Mute)**	2	Basic 2	0 6	2 2	8 (-12dB) 8 (-12dB)
62	**Splash Tone 3 (Mute)**	3	Basic 2	0 6	2 2	8 (-12dB) 8 (-12dB)
63	**EXT SPK Ring-back Tone**	0	Basic 2	10 0	20 60	32 (0dB) 32 (0dB)
64	**Special Hold Tone**	0	4	11	4	35 (+1.5dB)
				0	6	32 (0dB)
				11	4	35 (+1.5dB)
				0	24	32 (0dB)

Conditions

The system must be reset for any change to these items to take affect.

Feature Cross Reference

➥ **Selectable Ring Tones**

Program 80 : Basic Hardware Setup for System

80-02 : DTMF Tone Setup

Level: MF

Description

Use **Program 80-02 : DTMF Tone Setup** to define the duration (On time) and pause (Off time) for DTMF dialing. This option affects all trunk line calls system wide. Make separate entries for duration and pause. It is also possible to adjust the level of both high and low frequency tone.

Input Data

Item No.	Item	Input Data	Default
01	**Duration**	1~255	5 (100ms)
02	**Pause**	1~255	5 (100ms)
03	**Tone Level (Low) (dB)**	1~97 -45 : +3	65 (-13dB)
04	**Tone Level (High) (dB)**	1~97 -45 : +3	69 (-11dB)

Conditions

None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-03 : DTMF Tone Receiver Setup

Level: MF

Description

Use **Program 80-03 : DTMF Tone Receiver Setup** to define the various levels and timers for the DTMF Tone Receiver.

DTMF Tone Receiver Type:

- 1 = DTMF Receiver for Extension
- 2 = DTMF Receiver for Analog Trunk
- 3 = DTMF Receiver for Digital Trunk
- 4, 5 = Reserved

Input Data

DTMF Tone Receiver Type No.	1 = DTMF Receiver for Extension 2 = DTMF Receiver for Analog Trunk 3 = DTMF Receiver for Digital Trunk 4 = --- Reserved --- 5 = --- Reserved ---

Item No	Item	Input Data
01	**Detect Level**	0 = 0dBm ~ -25dBm 1 = -5dBm ~ -30dBm 2 = -10dBm ~ -35dBm 3 = -15dBm ~ -40dBm 4 = -20dBm ~ -45dBm 5 = -25dBm ~ -50dBm 6 = -30dBm ~ -55dBm From GCD-CP20 0 = 0dBm ~ -40dBm 1 = -5dBm ~ -45dBm 2 = -10dBm ~ -50dBm 3 = -15dBm ~ -55dBm
02	**Start Delay Time**	0~255 (0.25ms ~ 64ms)

Item No	Item	Input Data
03	**Min. Detect Level**	0~15 Detect Level 0 : -10dBm(0) to -25dBm(15) Detect Level 1 : -15dBm(0) to -30dBm(15) Detect Level 2 : -20dBm(0) to -35dBm(15) Detect Level 3 : -25dBm(0) to -40dBm(15) Detect Level 4 : -30dBm(0) to -45dBm(15) Detect Level 5 : -35dBm(0) to -50dBm(15) Detect Level 6 : -40dBm(0) to -55dBm(15) Detect Level 7 : -45dBm(0) to -60dBm(15) Detect Level 8 : -50dBm(0) to -65dBm(15) Detect Level 9 : -55dBm(0) to -70dBm(15) Detect Level 10 : -60dBm(0) to -75dBm(15) Detect Level 11 : -65dBm(0) to -80dBm(15) Detect Level 12 : -70dBm(0) to -85dBm(15) Detect Level 13 : -75dBm(0) to -90dBm(15) Detect Level 14 : -80dBm(0) to -95dBm(15) Detect Level 15 : -85dBm(0) to -100dBm(15) From GCD-CP20 0~30 Detect Level 0 : -10dBm(0) to -40dBm(30) Detect Level 1 : -15dBm(0) to -45dBm(30) Detect Level 2 : -20dBm(0) to -50dBm(30) Detect Level 3 : -25dBm(0) to -55dBm(30)
04	**Max. Detect Level**	0~15 Detect Level 0 : 0dBm(0) to -15dBm(15) Detect Level 1 : -5dBm(0) to -20dBm(15) Detect Level 2 : -10dBm(0) to -25dBm(15) Detect Level 3 : -15dBm(0) to -30dBm(15) Detect Level 4 : -20dBm(0) to -35dBm(15) Detect Level 5 : -25dBm(0) to -40dBm(15) Detect Level 6 : -30dBm(0) to -45dBm(15) Detect Level 7 : -35dBm(0) to -50dBm(15) Detect Level 8 : -40dBm(0) to -55dBm(15) Detect Level 9 : -45dBm(0) to -60dBm(15) Detect Level 10 : -50dBm(0) to -65dBm(15) Detect Level 11 : -55dBm(0) to -70dBm(15) Detect Level 12 : -60dBm(0) to -75dBm(15) Detect Level 13 : -65dBm(0) to -80dBm(15) Detect Level 14 : -70dBm(0) to -85dBm(15) Detect Level 15 : -75dBm(0) to -90dBm(15) From GCD-CP20 Detect Level 0 : 0dBm(0) to -30dBm(30) Detect Level 1 : -5dBm(0) to -35dBm(30) Detect Level 2 : -10dBm(0) to -40dBm(30) Detect Level 3 : -15dBm(0) to -45dBm(30)
05	**Forward Twist Level**	0~9 (1dB ~ 10dB)

Item No	Item	Input Data
06	**Backward Twist Level**	0~9 (1dB ~ 10dB)
07	**ON Detect Time**	1~255 (15+ 15ms ~ 3825ms)
08	**OFF Detect Time**	1-255 (15+ 15ms ~ 3825ms)
10	**Sensitivity Level**	0-1

Default

Item No	Item	Type 1	Type 2	Type 3	Type 4	Type 5
01	**Detect Level**	0 (0dbm... -40dBm)	0 (0dbm... -40dBm)	0 (0dbm... -40dBm)	0 (0dbm... -40dBm)	0 (0dbm... -40dBm)
02	**Start delay time**	0	0	0	0	1
03	**Min. detect level**	10 (-20dBm)	15 (-25dBm)	15 (-25dBm)	10 (-20dBm)	10 (-20dBm)
04	**Max. detect level**	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)
05	**Forward twist level**	5 (6dBm)	5 (6dBm)	5 (6dBm)	5 (6dBm)	5 (6dBm)
06	**Backward twist level**	0 (1dBm)	0 (1dBm)	0 (1dBm)	0 (1dBm)	0 (1dBm)
07	**ON detect time**	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)
		3 (60ms) (Version 3.00 or higher)	3 (60ms) (Version 3.00 or higher)	3 (60ms) (Version 3.00 or higher)	3 (60ms) (Version 3.00 or higher)	3 (60ms) (Version 3.00 or higher)
08	**OFF detect time**	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)	1 (30ms) (Version 1.00)
		2 (45ms) (Version 3.00 or higher)	2 (45ms) (Version 3.00 or higher)	2 (45ms) (Version 3.00 or higher)	2 (45ms) (Version 3.00 or higher)	2 (45ms) (Version 3.00 or higher)
10	**Sensitivity Level**	0	0	0	0	0

Conditions

None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-04 : Call Progress Tone Detector Setup

Level: MF

Description

Use **Program 80-04 : Call Progress Tone Detector Setup** to define the various levels and timers for the Call Progress Tone Detector.

Tone Detector Type:

- 1 = Dial Tone for Trunk
- 2 = Busy Tone for Trunk
- 3 = Ring Back Tone for Trunk
- 4 = Special Busy Tone for Trunk
- 5 = Special Ring Back Tone for Trunk

Input Data

Tone Detector Type Number	1 = Dial Tone for Trunk 2 = Busy Tone for Trunk 3 = Ring Back Tone for Trunk 4 = Special Busy Tone for Trunk 5 = Special Ring Back Tone for Trunk

Item No	Item	Input Data
01	**Detection Level**	0 = 0dBm ~ -25dBm 1 = -5dBm ~ -30dBm 2 = -10dBm ~ -35dBm 3 = -15dBm ~ -40dBm 4 = -20dBm ~ -45dBm 5 = -25dBm ~ -50dBm 6 = -30dBm ~ -55dBm From GCD-CP20 0 = 0dBm ~ -40dBm 1 = -5dBm ~ -45dBm 2 = -10dBm ~ -50dBm 3 = -15dBm ~ -55dBm

Item No	Item	Input Data
02	**Min. Detection Level**	0~15 0 = -10dBm(0) to -25dBm(15) 1 = -15dBm(0) to -30dBm(15) 2 = -20dBm(0) to -35dBm(15) 3 = -25dBm(0) to -40dBm(15) 4 = -30dBm(0) to -45dBm(15) 5 = -35dBm(0) to -50dBm(15) 6 = -40dBm(0) to -55dBm(15) From GCD-CP20 0~30 0 = -10dBm(0) to -40dBm(30) 1 = -15dBm(0) to -45dBm(30) 2 = -20dBm(0) to -50dBm(30) 3 = -25dBm(0) to -55dBm(30)
03	**S/N Ratio**	0~4 (0dB ~ -20dB)
04	**No Tone Time**	0~255 (30+30~7680ms) (0 = not detect) 1~255 = 60~7680ms. The formula is 30+30N. When set to N=1, it means 30+30*1=60 When set to N=255, it means 30+30*255=7680
05	**Pulse Count**	1~255
06	**ON Minimum Time**	1~255 (30+30~7680ms)
07	**ON Maximum Time**	0~255 (30+30~7680ms)
08	**OFF Minimum Time**	1~255 (30+30~7680ms)
09	**OFF Maximum Time**	0~255 (30+30~7680ms)
12	**Frequency No. 1**	1~8 (Frequency Table No. set by 80-07)
13	**Frequency No. 2**	0~8 (Frequency Table No. set by 80-07)

Default

Item	Name	Type 1 (DT)	Type 2 (BT)	Type 3 (RBT)	Type 4	Type 5
1	Detect Level	0 (-25dBm)	0 (-25dBm)	0 (-25dBm)	0 (-25dBm)	0
2	Min. detect level	15 (-25dBm)	15 (-25dBm)	15 (-25dBm)	15 (-25dBm)	0 (Version 1.00) 1 (Version 3.00 or higher)
3	S/N ratio	4 (-20dB)	4 (-20dB)	4 (-20dB)	1	0

Item	Name	Type 1 (DT)	Type 2 (BT)	Type 3 (RBT)	Type 4	Type 5
4	No tone time	132 (3990ms)	132 (3990ms)	132 (3990ms)	132 (3990ms)	0
5	Pulse Count	1	1	1	2	2
6	ON min. time	9 (300ms) (Version 1.00)	12 (390ms)	23 (720ms)	3 (120ms)	2 (Version 1.00)
		45 (1380 ms) (Version 3.00 or higher)				5 (180ms) (Version 3.00 or higher)
7	ON max. time	0	20 (630ms)	74 (2256ms)	13 (420ms)	5 (Version 1.00)
						15 (480ms) (Version 3.00 or higher)
8	OFF min. time	1 (60ms)	12 (390ms)	59 (1800ms)	3 (120ms)	2
9	OFF max. time	1 (60ms)	20 (630ms)	232 (6990ms)	13 (420ms)	5
10	Not Used	1	1	1	0	0
11	Not Used	0	0	0	0	0
12	Frequency No. 1	1	3	2	3	1
13	Frequency No. 2	2	4	3	4	2
14	Twist level	0	0	0	0	0

Conditions

None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-05 : Date Format for SMDR and System

Level: MF

Description

Use **Program 80-05 : Date Format for SMDR and System** to define the date format when printing out the SMDR, alarm report, and system information report.

Item No.	Item	Input Data	Default
01	**Date Format**	0 = American Format (Month / Day / Year) 1 = Japanese Format (Year / Month / Day) 2 = European Format (Day / Month / Year)	0

Conditions

None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-07 : Call Progress Tone Detector Frequency Setup

Level: MF

Description

Use **Program 80-07 : Call Progress Tone Detector Frequency Setup** to set the frequency of the detection tone set with Program 80-04-12 and Program 80-04-13.

Input Data

Frequency Table No.	Input Data	Default
1	0, 10~255 (100~2550 Hz) (0 = Not used)	35 (350 Hz)
2		44 (440 Hz)
3		48 (480 Hz)
4		62 (620 Hz)
5		110 (1100 Hz)
6		0
7		0
8		0

Conditions

None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-09 : Short Ring Setup

Level: IN

Description

Use **Program 80-09 : Short Ring Setup** to define the short ring tone for SV9100 multiline terminals.

Input Data

Short Ring Tone	1 = Confirmation 2 = Error 3 = Long conversation warning tone

Item No.	Item	Description	Default
01	**Frequency 1**	Refer to Table 2-20 Frequency 1/2 Table	8 for Confirmation Tone 8 for Error Tone 4 for Long Conversation Warning Tone
02	**Frequency 2**	Refer to Table 2-20 Frequency 1/2 Table	8 for Confirmation Tone 8 for Error Tone 4 for Long Conversation Warning Tone
03	**Ring Cycle**	Refer to Table 2-21 Ring Cycle Table	1 for Confirmation Tone 14 for Error Tone 14 for Long Conversation Warning Tone

NOTE

When a single tone is sent, Frequency 1/2 is set to the same value.

Table 2-20 Frequency 1/2 Table

Data	Frequency (Hz)	Data	Frequency (Hz)
01	392	09	880
02	440	10	988

Table 2-20 Frequency 1/2 Table (Continued)

Data	Frequency (Hz)	Data	Frequency (Hz)
03	494	11	1046
04	523	12	1175
05	587	13	1318
06	659	14	1397
07	698	15	1568
08	784		

Table 2-21 Ring Cycle Table

Data	Ring Cycle (ms)
01	125(On)/Off
02	125(On)/125(Off)/125(On)/Off
03	125(On)/125(Off)/125(On)/125(Off)/125(On)/Off
04	125(On)/125(Off)/125(On)/125(Off)/125(On)/125(Off)/125(On)/Off
05	250(On)/Off
06	250(On)/250(Off)/250(On)/Off
07	250(On)/250(Off)/250(On)/250(Off)/250(On)/Off
08	250(On)/250(Off)/250(On)/250(Off)/250(On)/250(Off)/250(On)/Off
09	325(On)/Off
10	325(On)/325(Off)/325(On)/Off
11	325(On)/325(Off)/325(On)/325(Off)/325(On)/Off
12	500(On)/Off
13	500(On)/500(Off)/500(On)/Off
14	1000(On)/Off

Short Ring No.	Short Tone Name	Frequency 1	Frequency 2	Ring Cycle
1	Confirmation Tone	8	8	1
2	Error Tone	8	8	14
3	Alarm Tone for long conversation call	4	4	14
4	Not defined	0	0	0

Short Ring No.	Short Tone Name	Frequency 1	Frequency 2	Ring Cycle
:	:	:	:	:
32	Not defined	0	0	0

Conditions
None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-10 : MF Tone Receiver Setup

Level: MF

Description

Use **Program 80-10 : MF Tone Receiver Setup** to set various data for the MF signal detection.

Input Data

MF Tone Receiver Type Number	1 = MF Receiver for Extension 2 = MF Receiver for Trunk 3 = Reserved 4 = Reserved 5 = Reserved

Item No.	Item	Input Data
01	**Detect Level**	0 = 0dBm ~ -25dBm 1 = -5dBm ~ -30dBm 2 = -10dBm ~ -35dBm 3 = -15dBm ~ -40dBm 4 = -20dBm ~ -45dBm 5 = -25dBm ~ -50dBm 6 = -30dBm ~ -55dBm From GCD-CP20 0 = 0dBm ~ -40dBm 1 = -5dBm ~ -45dBm 2 = -10dBm ~ -50dBm 3 = -15dBm ~ -55dBm
02	**Start delay time**	0~255 (0.25step, 0ms~64ms)

Item No.	Item	Input Data
03	**Min. detect level**	0~15 DTMF Tone 1 : -15dBm(0) to -30dBm(15) DTMF Tone 2 : -20dBm(0) to -35dBm(15) DTMF Tone 3 : -25dBm(0) to -40dBm(15) DTMF Tone 4 : -30dBm(0) to -45dBm(15) DTMF Tone 5 : -35dBm(0) to -50dBm(15) From GCD-CP20 0~30 DTMF Tone 0 : -10dBm(0) to -40dBm(30) DTMF Tone 1 : -15dBm(0) to -45dBm(30) DTMF Tone 2 : -20dBm(0) to -50dBm(30) DTMF Tone 3 : -25dBm(0) to -55dBm(30)
04	**Max. detect level**	0~15 DTMF Tone 1 : -5dBm(0) to -20dBm(15) DTMF Tone 2 : -10dBm(0) to -25dBm(15) DTMF Tone 3 : -15dBm(0) to -30dBm(15) DTMF Tone 4 : -20dBm(0) to -35dBm(15) DTMF Tone 5 : -25dBm(0) to -40dBm(15) DTMF Tone 6 : -30dBm(0) to -45dBm(15) From GCD-CP20 0~30 DTMF Tone 0 : -0dBm(0) to -30dBm(30) DTMF Tone 1 : -5dBm(0) to -35dBm(30) DTMF Tone 2 : -10dBm(0) to -40dBm(30) DTMF Tone 3 : -15dBm(0) to -45dBm(30)
05	**Twist level**	0~9 (1dB~10dB)
06	**S/N ratio**	0~4 (-5step, 0dB~ -20dB)
07	**ON detect time**	1~255 (15step, 30ms~3840ms)
08	**OFF detect time**	1~255 (15step, 30ms~3840ms)

Table 2-22 Default Table

Item	Name	Type 1	Type 2	Type 3	Type 4	Type 5
01	**Detect Level**	0	0	0	0	0
02	**Start delay time**	0	0	0	0	0
03	**Min. detect level**	10 (-20dBm)	10 (-20dBm)	10 (-20dBm)	10 (-20dBm)	10 (-20dBm)
04	**Max. detect level**	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)
05	**twist level**	5 (6dBm)	5 (6dBm)	5 (6dBm)	5 (6dBm)	5 (6dBm)
06	**S/N ratio**	2 (-10dBm)	2 (-10dBm)	2 (-10dBm)	2 (-10dBm)	2 (-10dBm)

Table 2-22 Default Table

Item	Name	Type 1	Type 2	Type 3	Type 4	Type 5
07	**ON detect time**	1 (30ms)	1 (30ms)	1 (30ms)	1 (30ms)	1 (30ms)
08	**OFF detect time**	1 (30ms)	1 (30ms)	1 (30ms)	1 (30ms)	1 (30ms)

Conditions

None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-13 : DTMF Tone Receiver Setup - 2

Level: MF

Description

Use **Program 80-13 : DTMF Tone Receiver Setup - 2** to set further data for the DTMF signal detection.

Item No.	Item	Input Data	Default
01	**Received Dialed**	0 ~ 15[-7dB (1) - 0dB (8) - +7dB (15)]	0dB (8)

Conditions
None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-14 : DTMF Tone Receiver Setup - 3

Level:
MF

Description

Use **Program 80-14 : DTMF Tone Receiver Setup -3** to set further data for the DTMF signal detection.

Item No.	Item	Input Data	Default
01	**Received Dialed**	0 ~ 13 [-6dB (1) - 0dB (7) - +6dB (13)]	0dB (7)
02	**Detect Type**	0 = Type 1 (Normal) 1 = Type 2 (Improvement of DTMF mis-detection)	0

Conditions
None

Feature Cross Reference

None

Program 80 : Basic Hardware Setup for System

80-15 : Caller ID Receiver Setup

Level: MF

Description

Use **Program 80-15 : Caller ID Receiver Setup** – defines the parameter to receive FSK Caller ID information.

Item No.	Item	Input Data	Default
01	**Minimum Value for Mark(1) bit**	0-32767	80
02	**Minimum Value for Space(0) bit**	0-32767	80
03	**Bit Sampling Method Type**	0: Default 1: Special	Default
04	**LSB Sampling Timing**	0-32767	10
05	**MIN Seizure Count**	1-32767	10
06	**Guard Count for Mark Continuous Signal**	0-32767	1

Conditions

None

Feature Cross Reference

➥ **Caller ID**

Program 81 : Basic Hardware Setup for Trunk

81-01 : COT Initial Data Setup

Level: MF

Description

Use **Program 81-01 : COT Initial Data Setup** to define the various basic data parameters for the COT (CO blade) Unit.

Input Data

Item No.	Item	Input Data	Default
01	**PCM Encoding Method Specification**	0 = μ-law 1 = A-law	0
02	**Loop Current Detection Time**	1~255 (8~2040ms)	75 (600ms)
03	**Clear Signal (Open Loop) Detection Time** This is the loop start trunk disconnect recognition timer.	1~255 (8~2040ms)	38 (304ms)
04	**Ringing Signal Detection Minimum Time**	1~255 (8~2040ms)	13 (104ms)
05	**Single Ringing Detection Minimum Time**	0~255 (0,8~2040ms)	82 (656ms)
06	**Double Ringing Detection Minimum Off Time**	0~255 (0,8~2040ms)	13 (104ms)
07	**Double Ringing Detection Maximum Off Time**	0~255 (0,8~2040ms)	50 (400ms)
08	**Ringing Signal not Detection Minimum**	1~255 (8~2040ms)	88 (704ms)
09	**Time Ringing Signal Stop Detection Time**	1~255 (64~16320ms)	94 (6016ms)
10	**Continuous Ringing Minimum Time**	0~255 (0,8~2040ms)	38 (304ms)
11	**Continuous Ringing Maximum Time**	0-255 (0,8~2040ms)	88 (704ms)
12	**Caller ID Detection Time**	0~255 (0~16320ms)	0 (0ms)

Input Data (Continued)

Item No.	Item	Input Data	Default
13	**Grounding Time**	1~255 (16~4080ms)	9 (144ms)
14	**Hook Flash 1 Time**	1~255 (16~4080ms)	50 (800ms)
15	**Hook Flash 2 Time**	1~255 (16~4080ms)	156 (2496ms)
16	**Pause Time**	1~255 (64~16320ms)	16 (1024ms)
17	**PFT Idle Detection Time**	1~255 (64~16320ms)	47 (3008ms)
18	**Grounding Start Time**	1~255 (8~2040ms)	6 (48ms)
19	**Grounding Start Give Up Time**	1~255 (64~16320ms)	47 (3008ms)
20	**Loop Reverse Detect Minimum Time**	1~255 (8~2040ms)	13 (104ms)
21	**Loop Reverse Detect Maximum Time**	1~255 (8~2040ms)	107 (856ms)
22	**Loop Disconnect Detect Minimum Time** When using dial pulse trunks this timer is used to set the minimum value for the system to detect the disconnect pulse.	1~255 (8~2040ms)	50 (400ms)
23	**Loop Disconnect Detect Maximum Time** When using dial pulse trunks this timer is used to set the maximum value for the system to detect the disconnect pulse.	1~255 (8~2040ms)	80 (640ms)
24	**On Hook Normal Detect Time**	1~255 (8~2040ms)	2 (16ms)
25	**On Hook Reverse Detect Time**	1~255 (8~2040ms)	2 (16ms)
26	**On Hook Disconnect Detect Time**	1~255 (16~4080ms)	188 (3008ms)
27	**Dial Pulse Break Time (10pps)**	1~255 (8~2040ms)	8 (64ms)
28	**Dial Pulse Make Time (10pps)**	1~255 (8~2040ms)	5 (40ms)
29	**DP Inter-digit Time (10pps)**	1~255 (32~8160ms)	25 (800ms)

Input Data (Continued)

Item No.	Item	Input Data	Default
30	**Dial Pulse Break Time (20pps)**	1~255 (8~2040ms)	4 (32ms)
31	**Dial Pulse Make Time (20pps)**	1~255 (8~2040ms)	2 (16ms)
32	**DP Inter-digit Time (20pps)**	1~255 (32~8160ms)	16 (512ms)
33	**Charging Pulse Minimum Duration**	1~255	9
34	**Charging Pulse Minimum Period Time**	1~255	29
35	**Charging Pulse Minimum Interval**	1~255	6
36	**Long Ringing Detection Minimum Time**	1~255 (16~4080ms)	150 (2080ms)

Conditions

None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-02 : DIOPU Initial Data Setup

Level: MF

Description

Use **Program 81-02 : DIOPU Initial Data Setup** to define the various basic timers for the DID Unit.

Input Data

Item	Name	Input Data	Default
01	**PCM Method Type**	0 = μ-law 1= A-law	0
02	**Answer Signal Time**	1~255 (10~2550ms)	6 (60ms)
03	**Clear Signal (Open Loop) Detection Time**	1~255 (100~25500ms)	7 (700ms)
04	**Ringing Signal Detection Minimum Time**	1~255 (10~2550ms)	10 (100ms)
05	**Hook Flash Time**	1~255 (8~2040ms)	25 (200ms)
06	**Pause Time**	1~255 (32~8160ms)	94 (3008ms)
07	**WINK/DELAY Duration Time**	1~255 (10~2550ms)	20 (200ms)
08	**Incoming-WINK/DELAY Send Time**	1~255 (100~25500ms)	3 (300ms)
09	**Seizure-WINK/DELAY Receive Max. Time**	1~255 (100~25500ms)	48 (4800ms)
10	**Receive WINK/DELAY Duration Min. Time**	1~255 (10~2550ms)	13 (130ms)
11	**Receive WINK/DELAY Duration Max. Time**	1~255 (10~2550ms)	31 (310ms)
12	**Receive DP Make Minimum Time**	1~255 (2~510ms)	5 (10ms)
13	**Receive DP Make Maximum Time**	1~255 (2~510ms)	50 (100ms)

Input Data (Continued)

Item	Name	Input Data	Default
14	**Receive DP Break Minimum Time**	1~255 (2~510ms)	5 (10ms)
15	**Receive DP Break Maximum Time**	1~255 (2~510ms)	50 (100ms)
16	**Receive DP Inter-Digit Time**	1~255 (32~8160ms)	6 (192ms)
17	**Loop Off Guard Time**	0~25 (0,100~25500ms)	20 (2000ms)
18	**DP Break Time (10pps)**	1~255 (4~1020ms)	16 (64ms)
19	**DP Make Time (10pps)**	1~255 (4~1020ms)	8 (32ms)
20	**DP Inter-Digit Time (10pps)**	1~255 (16~4080ms)	38 (608ms)
21	**DP Break Time (20pps)**	1~255 (4~1020ms)	8 (32ms)
22	**DP Make Time (20pps)**	1~255 (4~1020ms)	4 (16ms)
23	**DP Inter-Digit Time (20pps)**	1~255 (16~4080ms)	29 (464ms)

Conditions

None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-03 : TLI Initial Data Setup

Level: IN

Description

Use **Program 81-03 : TLI Initial Data Setup** to define the various basic timers for the E&M Tie Line Unit.

Input Data

Item	Name	Input Data	Default
01	**PCM Method Type**	0 = μ-law 1= A-law	0
02	**Answer Signal Time**	1~255 (10~2550ms)	6 (60ms)
03	**Clear Signal (Open Loop) Detection Time**	1~255 (100~25500ms)	7 (700ms)
04	**Ringing Signal Detection Minimum Time**	1~255 (10~2550ms)	10 (100ms)
05	**Ringing Signal Stop Detection Time**	1~255 (100~25500ms)	7 (700ms)
06	**Hook Flash Time**	1~255 (10~2040ms)	20 (200ms)
07	**Pause Time**	1~255 (60~15300ms)	50 (3000ms)
08	**WINK/DELAY Duration Time**	1~255 (10~2550ms)	20 (200ms)
09	**Incoming-WINK/DELAY Send Time**	1~255 (100~25500ms)	3 (300ms)
10	**Seizure-WINK/DELAY Receive Max. Time**	1~255 (100~25500ms)	48 (4800ms)
11	**Receive WINK/DELAY Duration Min. Time**	1~255 (10~2550ms)	13 (130ms)
12	**Receive WINK/DELAY Duration Max. Time**	1~255 (10~2550ms)	31 (310ms)
13	**Receive DP Make Minimum Time**	1~255 (2~510ms)	5 (10ms)

Input Data

Item	Name	Input Data	Default
14	**Receive DP Make Maximum Time**	1~255 (2~510ms)	50 (100ms)
15	**Receive DP Break Minimum Time**	1~255 (2~510ms)	5 (10ms)
16	**Receive DP Break Maximum Time**	1~255 (2~510ms)	50 (100ms)
17	**Pause Time after WINK/DELAY Receive**	1~255 (8~2040ms)	13 (104ms)
18	**Loop Off Guard Time**	0~255 (0,100~25500ms)	20 (2000ms)
19	**DP Break Time (10pps)**	1~255 (2~512ms)	32 (64ms)
20	**DP Make Time (10pps)**	1~255 (2~512ms)	16 (32ms)
21	**DP Inter-digit Time (10pps)**	1~255 (32~8160ms)	19 (608ms)
22	**DP Break Time (20pps)**	1~255 (2~510ms)	16 (32ms)
23	**DP Make Time (20pps)**	1~255 (2~510ms)	8 (16ms)
24	**DP Inter-digit Time (20pps)**	1~255 (32~8160ms)	16 (512ms)

Conditions

None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-04 : ISDN BRI Layer 1 (T-Point) Initial Data Setup

Level: MF

Description

Use **Program 81-04 : ISDN BRI Layer 1 (T-Point) Initial Data Setup** to define the various basic data for layer 1 of ISDN BRI.

Input Data

Item No.	Item	Input Data	Default
01	**Wait time for Physical Activation (Timer 3)**	1~255 (200~5100ms)	100 (20sec)
02	**Detection time for Physical Deactivation**	1~255 (200~5100ms)	5 (1sec)

Conditions

None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-05 : ISDN BRI & PRI Layer 2 (T-Point) Initial Data Setup

Level: MF

Description

Use **Program 81-05 : ISDN BRI & PRI Layer 2 (T-Point) Initial Data Setup** to define the various basic data for layer 2 of ISDN BRI and PRI.

Input Data

Item No.	Item	Description	Input Data	Default
01	**Timer T200**	Specify the timer value in 1/100ths of a second at the end of which transmission of a frame may be initiated.	1~255 (100~25500ms)	10 (1sec)
02	**Timer T201**	Specify the minimum time in 1/100ths of a second between retransmissions of the TEI Identity check messages.	1~255 (100~25500ms)	10 (1sec)
03	**Timer T202**	Specify the minimum time in 1/100ths of a second between retransmissions of the TEI Identity check messages.	1~255 (100~25500ms)	20 (2sec)
04	**Timer T203**	Specify the maximum time in 1/100ths of a second allowed without exchanging frames.	1~255 (100~25500ms)	250 (25sec)
05	**N200**	Specify the retransmission count.	1~255	3
06	**N201**	Specify the frame lengths in ocelots.	1~65535 (Byte)	260
07	**N202**	Specify the maximum number of transmissions from a TEI identity request message when the user requests a TEI.	1~255	3

Conditions

None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-06 : ISDN BRI & PRI Layer 3 (T-Point) Timer Setup

Level: IN

Description

Use **Program 81-06 : ISDN BRI & PRI Layer 3 (T-Point) Timer Setup** to define the various basic timers for layer 3 of ISDN BRI/PRI (defined in Program 10-03-04).

Input Data

Layer 3 Timer Type Number	1~5

Item No.	Item	Description	Input Data	Default
01	**T301**	Specify the timer value started when the ALERT message is received.	0,180~254 (sec)	180
02	**T302**	Specify the timer value started when the SETUP ACK is sent. Timer is also restarted when INFO is received.	1~254 (sec)	15
03	**T303**	Specify the timer value started when SETUP is sent.	1~254 (sec)	4
04	**T304**	Specify the timer value started when the SETUP ACK is received. Timer is also restarted when INFO is received.	0~254 (sec).	30
05	**T305**	Specify the timer value started when DISC without progress No. 8 is sent.	1~254 (sec)	30
06	**T306**	Specify the timer value started when DISC with progress indicator No. 8 is sent. This timer is valid for Network side use only.	0~254 (sec)	30
07	**T307**	Specify the timer value started when SUSPEND ACK is sent. This timer is valid for Network side use only.	1~254 (sec)	180
08	**T308**	Specifies the timer value started when REL is sent.	1~254 (sec)	4
09	**T309**	Specify the timer value started at data link disconnection.	1-254 (sec)	90
10	**T310**	Specify the timer value started when CALL PROC is sent.	0~180 (sec)	180

Item No.	Item	Description	Input Data	Default
11	**T312**	Specify the timer value started when SETUP is sent or re-sent on broadcast data link. This timer is valid only for Network side use only.	1~254 (sec)	6
12	**T313**	Specify the timer value started when connection request is sent. Valid range 1 ~ 4 seconds in 1 second increments. Value of 0 indicates timer not used.	1~254 (sec)	4
13	**T314**	Specify the timer value started when message segment is received.	1~254 (sec)	4
14	**T316**	Specify the timer value started when RESTART is sent.	(T317+1)~254 (sec)	120
15	**T317**	Specify the timer value started when RESTART is received.	1~(T316-1)	60
16	**T318**	Specify the timer value started when RES is sent. This timer is valid for user side use only.	1~254 (sec)	4
17	**T319**	Specify the timer value started when SUSPEND is sent. This timer is valid for user side use only.	1~254 (sec)	4
18	**T320**	Specify the timer value when B-channel access: connection is received, or D-channel access: DL-ESTABLISH confirmation or indication is received.	1~254 (sec)	30
19	**T321**	Specify the timer value started when STATUS ENQ is received.	1~254 (sec)	30
20	**T322**	Specify the timer value upon D-channel failure.	1~254 (sec)	4

Conditions

None

Feature Cross Reference

➥ **ISDN Compatibility**

Program 81 : Basic Hardware Setup for Trunk

81-07 : CODEC Filter Setup for Analog Trunk Port

Level: IN

Description

Use **Program 81-07 : CODEC Filter Setup for Analog Trunk Port** to define the CODEC (QSLAC) Filter for each analog trunk port.

Input Data

Trunk Number	1~400

CODEC Filter Type	Default
0 = No filter 1 = Type 1: 600Ω Line loss 0dB (~500m from CO Ex) 2 = Type 2: 600Ω Line loss 4dB (1~2km from CO Ex) 3 = Type 3: 600Ω Line loss 8dB (~3km from CO Ex) 4 = Type 4: Enable PRG81-17 setting	2

Conditions

None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-08 : T1 Trunk Timer Setup

Level: IN

Description

Use **Program 81-08 : T1 Trunk Timer Setup** to define the basic timer setting of each T1 Trunk type.

Input Data

Item	Name	Input Data	Default
01	**Answer Signal Detection Time (Loop)**	1~250 (4ms ~ 1000ms)	15 60ms
02	**Answer Signal Detection Time (Ground)**	1~250 (4ms ~ 1000ms)	15 60ms
03	**Answer Signal Detection Time (DID)**	1~250 (4ms ~ 1000ms)	15 60ms
04	**Answer Signal Detection Time (E&M)**	1~250 (4ms ~ 1000ms)	15 60ms
05	**Answer Signal Detection Time (OPX)**	1~250 (4ms ~ 1000ms)	15 60ms
06	**Clear Signal Detection Time (Loop)**	1~255 (100ms ~ 25500ms)	6 600ms
07	**Clear Signal Detection Time (Ground)**	1~255 (100ms ~ 25500ms)	6 600ms
08	**Clear Signal Detection Time (DID)**	1~255 (100ms ~ 25500ms)	6 600ms
09	**Clear Signal Detection Time (E&M)**	1~255 (100ms ~ 25500ms)	6 600ms
10	**Clear Signal Detection Time (OPX)**	1~255 (100ms ~ 25500ms)	6 600ms
11	**Ringing Signal Detection Time (Loop)**	1~250 (8ms ~ 2000ms)	10 80ms
12	**Ringing Signal Detection Time (Ground)**	1~250 (8ms ~ 2000ms)	10 80ms
13	**Ringing Signal Detection Time (DID)**	1~250 (8ms ~ 2000ms)	10 80ms

Input Data (Continued)

Item	Name	Input Data	Default
14	**Ringing Signal Detection Time (E&M)**	1~250 (8ms ~ 2000ms)	10 80ms
15	**Ringing Signal Detection Time (OPX)**	1~250 (8ms ~ 2000ms)	10 80ms
16	**Ringing Signal Stop Detection Time (Loop)**	1~255 (100ms ~ 25500ms)	50 5000ms
17	**Ringing Signal Stop Detection Time (Ground)**	1~255 (100ms ~ 25500ms)	50 5000ms
18	**Ringing Signal Stop Detection Time (DID)**	1~255 (100ms ~ 25500ms)	50 5000ms
19	**Ringing Signal Stop Detection Time (E&M)**	1~255 (100ms ~ 25500ms)	50 5000ms
20	**Ringing Signal Stop Detection Time (OPX)**	1~255 (100ms ~ 25500ms)	50 5000ms
21	**Loop Current Detection Time (Loop)**	1~250 (4ms ~ 1000ms)	40 160ms
22	**Loop Current Detection Time (Ground)**	1~250 (4ms ~ 1000ms)	40 160ms
23	**Loop Current Detection Time (DID)**	1~250 (4ms ~ 1000ms)	40 160ms
24	**Loop Current Detection Time (E&M)**	1~250 (4ms ~ 1000ms)	40 160ms
25	**Loop Current Detection Time (OPX)**	1~250 (4ms ~ 1000ms)	40 160ms
26	**DP Break Send Time (ALL)**	1~250 (4ms ~ 1000ms)	15 60ms
27	**DP Make Send Time (ALL)**	1~250 (4ms ~ 1000ms)	10 40ms
28	**DP Inter-Digit Send Time (ALL)**	1~255 (100ms ~ 25500ms)	7 700ms
29	**HookFlash Send Time (Loop)**	1~255 (100ms ~ 25500ms)	5 500ms
30	**HookFlash Send Time (Ground)**	1~255 (100ms ~ 25500ms)	5 500ms
31	**HookFlash Send Time (DID)**	1~255 (100ms ~ 25500ms)	5 500ms
32	**HookFlash Send Time (E&M)**	1~255 (100ms ~ 25500ms)	5 500ms

Input Data (Continued)

Item	Name	Input Data	Default
33	**HookFlash Send Time (OPX)**	1~255 (100ms ~ 25500ms)	5 500ms
34	**Pause Send Time (ALL)**	1~255 (1sec ~ 255sec)	3 3sec
35	**Wink Send Duration Time (DID)**	1~250 (8ms ~ 2000ms)	25 200ms
36	**Delay Send Duration Time (DID)**	1~250 (8ms ~ 2000ms)	25 200ms
37	**Incoming-Wink Send Time (DID)**	1~255 (100ms ~ 25500ms)	3 300ms
38	**Wink Send Duration Time (E&M)**	1~250 (8ms ~ 2000ms)	25 200ms
39	**Delay Send Duration Time (E&M)**	1~250 (8ms ~ 2000ms)	25 200ms
40	**Incoming-Wink Send Time (E&M)**	1~255 (100ms ~ 25500ms)	3 300ms
41	**Seizure-WINK/DELAY Receive Max. Time (DID)**	1~255 (100ms ~ 25500ms)	48 4800ms
42	**Receive Wink Duration Min. Time (DID)**	1~250 (8ms ~ 2000ms)	12 96ms
43	**Receive Wink Duration Max. Time (DID)**	1~250 (8ms ~ 2000ms)	45 360ms
44	**Seizure-WINK/DELAY Receive Max. Time (E&M)**	1~255 (100ms ~ 25500ms)	48 4800ms
45	**Receive Wink Duration Min. Time (E&M)**	1~250 (8ms ~ 2000ms)	12 96ms
46	**Receive Wink Duration Max. Time (E&M)**	1~250 (8ms ~ 2000ms)	45 360ms
47	**Receive DP Make Min. Time (ALL)**	1~250 (4ms ~ 1000ms)	3 12ms
48	**Receive DP Make Max. Time (ALL)**	1~250 (4ms ~ 1000ms)	19 76ms
49	**Receive DP Break Min. Time (ALL)**	1~250 (4ms ~ 1000ms)	3 12ms
50	**Receive DP Break Max. Time ALL)**	1~250 (4ms ~ 1000ms)	25 100ms
51	**Receive DP Inter-Digit Min. Time (ALL)**	1~250 (4ms ~ 1000ms)	125 500ms

Input Data (Continued)

Item	Name	Input Data	Default
52	**Receive HookFlash Duration Min. Time (E&M)**	1~255 (100ms ~ 25500ms)	3 300ms
53	**Receive HookFlash Duration Max. Time (E&M)**	1~255 (100ms ~ 25500ms)	6 600ms
54	**Receive HookFlash Duration Min. Time (OPX)**	1~255 (100ms ~ 25500ms)	3 300ms
55	**Receive HookFlash Duration Max. Time (OPX)**	1~255 (100ms ~ 25500ms)	6 600ms
56	**Loop Off Guard Time (Loop)**	1~255 (100ms ~ 25500ms)	20 2000ms
57	**Loop Off Guard Time (Ground)**	1~255 (100ms ~ 25500ms)	20 2000ms
58	**Loop Off Guard Time (DID)**	1~255 (100ms ~ 25500ms)	20 2000ms
59	**Loop Off Guard Time (E&M)**	1~255 (100ms ~ 25500ms)	20 2000ms
60	**Loop Off Guard Time (OPX)**	1~255 (100ms ~ 25500ms)	20 2000ms
61	**Double Ringing Send Time 1 (OPX)**	1~255 (100ms ~ 25500ms)	5 500ms
62	**Double Between Ringing Send Time 1 (OPX)**	1~255 (100ms ~ 25500ms)	5 500ms
63	**Double Ringing Send Time 2 (OPX)**	1~255 (100ms ~ 25500ms)	25 2500ms
64	**Double Between Ringing Send Time 2 (OPX)**	1~255 (100ms ~ 25500ms)	30 3000ms
65	**Single Ringing Send Time (OPX)**	1~255 (100ms ~ 25500ms)	10 1000ms
66	**Receive DP Make Max. Time (ALL)**	1~255 (100ms ~ 25500ms)	9 900ms
67	**Receive DP Break Min. Time (ALL)**	1~255 (100ms ~ 25500ms)	9 900ms
68	**Receive DP Break Max. Time ALL)**	1~255 (100ms ~ 25500ms)	9 900ms
69	**Single Between Ringing Send Time (OPX)**	1~255 (100ms ~ 25500ms)	9 900ms
70	**Guard Time 1 (Loop)**	1~255 (100ms ~ 25500ms)	9 900ms

Input Data (Continued)

Item	Name	Input Data	Default
71	**Guard Time 1 (Ground)**	1~255 (100ms ~ 25500ms)	9 900ms
72	**Guard Time 1 (DID)**	1~250 (4ms ~ 1000ms)	3 12ms
73	**Guard Time 1 (E&M)**	1~255 (100ms ~ 25500ms)	20 2000ms
74	**Guard Time 1 (OPX)**	1~255 (100ms ~ 25500ms)	40 4000ms
75	**Guard Time 2 (ALL)**	1~250 (4ms ~ 1000ms)	6 24ms
76	**Dial Sending Complete Time (ALL)**	1~255 (100ms ~ 25500ms)	6 600ms
77	**ON-HOOK bit Send Time (ALL)**	1~255 (100ms ~ 25500ms)	6 600ms
78	**Open Loop Time (Loop)**	1~255 (100ms ~ 25500ms)	6 600ms
79	**Open Loop Time (Ground)**	1~255 (100ms ~ 25500ms)	6 600ms
80	**Open Loop Time (DID)**	1~250 (4ms ~ 1000ms)	13 52ms
81	**Open Loop Time (E&M)**	1~250 (4ms ~ 1000ms)	13 52ms
82	**Open Loop Time (OPX)**	1~250 (4ms ~ 1000ms)	13 52ms

Conditions

None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-09 : COT CODEC (QSLAC) Filter Setting

Level: IN

Description

Use **Program 81-09 : COT CODEC (QSLAC) Filter Setting** to define the filter setting data (when Program 81-07 is set to 4).

Input Data

Item	Name	Input Data	Default
01	B1 Filter Setup(1)	0~255	42
02	B1 Filter Setup(2)	0~255	90
03	B1 Filter Setup(3)	0~255	162
04	B1 Filter Setup(4)	0~255	42
05	B1 Filter Setup(5)	0~255	18
06	B1 Filter Setup(6)	0~255	178
07	B1 Filter Setup(7)	0~255	220
08	B1 Filter Setup(8)	0~255	55
09	B1 Filter Setup(9)	0~255	163
10	B1 Filter Setup(10)	0~255	42
11	B1 Filter Setup(11)	0~255	51
12	B1 Filter Setup(12)	0~255	36
13	B1 Filter Setup(13)	0~255	210
14	B1 Filter Setup(14)	0~255	64
15	B2 Filter Setup(1)	0~255	52
16	B2 Filter Setup(2)	0~255	176
17	AISN and Analog Gains	0~255	0
18	Z Filter Coefficients(1)	0~255	34
19	Z Filter Coefficients(2)	0~255	172
20	Z Filter Coefficients(3)	0~255	178

Input Data (Continued)

Item	Name	Input Data	Default
21	Z Filter Coefficients(4)	0~255	164
22	Z Filter Coefficients(5)	0~255	202
23	Z Filter Coefficients(6)	0~255	181
24	Z Filter Coefficients(7)	0~255	170
25	Z Filter Coefficients(8)	0~255	78
26	Z Filter Coefficients(9)	0~255	51
27	Z Filter Coefficients(10)	0~255	78
28	Z Filter Coefficients(11)	0~255	171
29	Z Filter Coefficients(12)	0~255	162
30	Z Filter Coefficients(13)	0~255	182
31	Z Filter Coefficients(14)	0~255	159
32	Z Filter Coefficients(15)	0~255	1
33	R Filter Coefficients(1)	0~255	179
34	R Filter Coefficients(2)	0~255	208
35	R Filter Coefficients(3)	0~255	227
36	R Filter Coefficients(4)	0~255	32
37	R Filter Coefficients(5)	0~255	171
38	R Filter Coefficients(6)	0~255	169
39	R Filter Coefficients(7)	0~255	60
40	R Filter Coefficients(8)	0~255	37
41	R Filter Coefficients(9)	0~255	179
42	R Filter Coefficients(10)	0~255	162
43	R Filter Coefficients(11)	0~255	179
44	R Filter Coefficients(12)	0~255	43
45	R Filter Coefficients(13)	0~255	167
46	R Filter Coefficients(14)	0~255	180
47	X Filter Coefficients(1)	0~255	202
48	X Filter Coefficients(2)	0~255	48
49	X Filter Coefficients(3)	0~255	170
50	X Filter Coefficients(4)	0~255	171

Input Data (Continued)

Item	Name	Input Data	Default
51	X Filter Coefficients(5)	0~255	42
52	X Filter Coefficients(6)	0~255	45
53	X Filter Coefficients(7)	0~255	170
54	X Filter Coefficients(8)	0~255	164
55	X Filter Coefficients(9)	0~255	74
56	X Filter Coefficients(10)	0~255	159
57	X Filter Coefficients(11)	0~255	61
58	X Filter Coefficients(12)	0~255	79
59	GR Filter Coefficients(1)	0~255	171
60	GR Filter Coefficients(2)	0~255	65
61	GX Filter Coefficients(1)	0~255	194
62	GX Filter Coefficients(2)	0~255	224

Conditions

This is used if Program 81-07 is set to 4 (Specified data).

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-14 : DIOPU (LD Trunk) CODEC (QSLAC) Filter Data Setup

Level: IN

Description

Use **Program 81-14 : DIOPU (LD Trunk) CODEC (QSLAC) Filter Data Setup** to define the CODEC filter data.

Input Data

Item No.	Item	Input Data	Default
01	B1 Filter Setup (1)	0~255	178
02	B1 Filter Setup (2)	0~255	90
03	B1 Filter Setup (3)	0~255	162
04	B1 Filter Setup (4)	0~255	186
05	B1 Filter Setup (5)	0~255	27
06	B1 Filter Setup (6)	0~255	50
07	B1 Filter Setup (7)	0~255	42
08	B1 Filter Setup (8)	0~255	45
09	B1 Filter Setup (9)	0~255	51
10	B1 Filter Setup (10)	0~255	173
11	B1 Filter Setup (11)	0~255	52
12	B1 Filter Setup (12)	0~255	179
13	B1 Filter Setup (13)	0~255	77
14	B1 Filter Setup (14)	0~255	48
15	B2 Filter Setup (1)	0~255	186
16	B2 Filter Setup (2)	0~255	160
17	AISN and Analog Gains	0~255	64
18	Z Filter Coefficients(1)	0~255	58
19	Z Filter Coefficients(2)	0~255	174
20	Z Filter Coefficients(3)	0~255	58

Input Data (Continued)

21	Z Filter Coefficients(4)	0~255	135
22	Z Filter Coefficients(5)	0~255	162
23	Z Filter Coefficients(6)	0~255	55
24	Z Filter Coefficients(7)	0~255	90
25	Z Filter Coefficients(8)	0~255	151
26	Z Filter Coefficients(9)	0~255	170
27	Z Filter Coefficients(10)	0~255	207
28	Z Filter Coefficients(11)	0~255	115
29	Z Filter Coefficients(12)	0~255	207
30	Z Filter Coefficients(13)	0~255	151
31	Z Filter Coefficients(14)	0~255	159
32	Z Filter Coefficients(15)	0~255	1
33	R Filter Coefficients(1)	0~255	29
34	R Filter Coefficients(2)	0~255	1
35	R Filter Coefficients(3)	0~255	171
36	R Filter Coefficients(4)	0~255	32
37	R Filter Coefficients(5)	0~255	187
38	R Filter Coefficients(6)	0~255	42
39	R Filter Coefficients(7)	0~255	162
40	R Filter Coefficients(8)	0~255	183
41	R Filter Coefficients(9)	0~255	50
42	R Filter Coefficients(10)	0~255	162
43	R Filter Coefficients(11)	0~255	35
44	R Filter Coefficients(12)	0~255	59
45	R Filter Coefficients(13)	0~255	66
46	R Filter Coefficients(14)	0~255	164
47	X Filter Coefficients(1)	0~255	1
48	X Filter Coefficients(2)	0~255	17
49	X Filter Coefficients(3)	0~255	1
50	X Filter Coefficients(4)	0~255	144
51	X Filter Coefficients(5)	0~255	1

Input Data (Continued)

52	X Filter Coefficients(6)	0~255	144
53	X Filter Coefficients(7)	0~255	1
54	X Filter Coefficients(8)	0~255	144
55	X Filter Coefficients(9)	0~255	1
56	X Filter Coefficients(10)	0~255	144
57	X Filter Coefficients(11)	0~255	1
58	X Filter Coefficients(12)	0~255	144
59	GR Filter Coefficients(1)	0~255	1
60	GR Filter Coefficients(2)	0~255	17
61	GX Filter Coefficients(1)	0~255	1
62	GX Filter Coefficients(2)	0~255	144

Conditions

- This Program is valid when Program 81-07 is set to filter type 4.
- This Program is not valid when Program 81-17 is set to option type 5~15.

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-15 : TLIU(2W) CODEC (QSLAC) Filter Data Setup

Level: IN

Description

Use **Program 81-15 : TLIU(2W) CODEC (QSLAC) Filter Data Setup** to define the TLIU (2W) CODEC (QSLAC) Filter Data.

Input Data

Item No.	Item	Input Data	Default
01	B1 Filter Setup (1)	0~255	195
02	B1 Filter Setup (2)	0~255	87
03	B1 Filter Setup (3)	0~255	162
04	B1 Filter Setup (4)	0~255	51
05	B1 Filter Setup (5)	0~255	34
06	B1 Filter Setup (6)	0~255	162
07	B1 Filter Setup (7)	0~255	171
08	B1 Filter Setup (8)	0~255	50
09	B1 Filter Setup (9)	0~255	179
10	B1 Filter Setup (10)	0~255	90
11	B1 Filter Setup (11)	0~255	50
12	B1 Filter Setup (12)	0~255	163
13	B1 Filter Setup (13)	0~255	42
14	B1 Filter Setup (14)	0~255	48
15	B2 Filter Setup (1)	0~255	36
16	B2 Filter Setup (2)	0~255	176
17	AISN and Analog Gains	0~255	64
18	Z Filter Coefficients(1)	0~255	165
19	Z Filter Coefficients(2)	0~255	173
20	Z Filter Coefficients(3)	0~255	43

Input Data (Continued)

21	Z Filter Coefficients(4)	0~255	213
22	Z Filter Coefficients(5)	0~255	170
23	Z Filter Coefficients(6)	0~255	54
24	Z Filter Coefficients(7)	0~255	34
25	Z Filter Coefficients(8)	0~255	190
26	Z Filter Coefficients(9)	0~255	166
27	Z Filter Coefficients(10)	0~255	47
28	Z Filter Coefficients(11)	0~255	50
29	Z Filter Coefficients(12)	0~255	181
30	Z Filter Coefficients(13)	0~255	163
31	Z Filter Coefficients(14)	0~255	159
32	Z Filter Coefficients(15)	0~255	1
33	R Filter Coefficients(1)	0~255	50
34	R Filter Coefficients(2)	0~255	208
35	R Filter Coefficients(3)	0~255	159
36	R Filter Coefficients(4)	0~255	32
37	R Filter Coefficients(5)	0~255	178
38	R Filter Coefficients(6)	0~255	169
39	R Filter Coefficients(7)	0~255	43
40	R Filter Coefficients(8)	0~255	164
41	R Filter Coefficients(9)	0~255	171
42	R Filter Coefficients(10)	0~255	35
43	R Filter Coefficients(11)	0~255	76
44	R Filter Coefficients(12)	0~255	59
45	R Filter Coefficients(13)	0~255	42
46	R Filter Coefficients(14)	0~255	180
47	X Filter Coefficients(1)	0~255	1
48	X Filter Coefficients(2)	0~255	17
49	X Filter Coefficients(3)	0~255	1
50	X Filter Coefficients(4)	0~255	144
51	X Filter Coefficients(5)	0~255	1

Input Data (Continued)

52	X Filter Coefficients(6)	0~255	144
53	X Filter Coefficients(7)	0~255	1
54	X Filter Coefficients(8)	0~255	144
55	X Filter Coefficients(9)	0~255	1
56	X Filter Coefficients(10)	0~255	144
57	X Filter Coefficients(11)	0~255	1
58	X Filter Coefficients(12)	0~255	144
59	GR Filter Coefficients(1)	0~255	1
60	GR Filter Coefficients(2)	0~255	17
61	GX Filter Coefficients(1)	0~255	1
62	GX Filter Coefficients(2)	0~255	144

Conditions

- This Program is valid when Program 81-07 is set to filter type 4.
- This Program is not valid when Program 81-17 is set to option type 5~15.

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-16 : TLIU(4W) CODEC (QSLAC) Filter Data Setup

Level: IN

Description

Use **Program 81-16 : TLIU(4W) CODEC (QSLAC) Filter Data Setup** to define the TLIU (2W) CODEC (QSLAC) Filter Data.

Input Data

Item No.	Item	Input Data	Default
01	B1 Filter Setup (1)	0~255	9
02	B1 Filter Setup (2)	0~255	0
03	B1 Filter Setup (3)	0~255	144
04	B1 Filter Setup (4)	0~255	9
05	B1 Filter Setup (5)	0~255	0
06	B1 Filter Setup (6)	0~255	144
07	B1 Filter Setup (7)	0~255	9
08	B1 Filter Setup (8)	0~255	0
09	B1 Filter Setup (9)	0~255	144
10	B1 Filter Setup (10)	0~255	9
11	B1 Filter Setup (11)	0~255	0
12	B1 Filter Setup (12)	0~255	144
13	B1 Filter Setup (13)	0~255	9
14	B1 Filter Setup (14)	0~255	0
15	B2 Filter Setup (1)	0~255	1
16	B2 Filter Setup (2)	0~255	144
17	AISN and Analog Gains	0~255	0
18	Z Filter Coefficients(1)	0~255	1
19	Z Filter Coefficients(2)	0~255	144
20	Z Filter Coefficients(3)	0~255	1

Input Data (Continued)

21	Z Filter Coefficients(4)	0~255	144
22	Z Filter Coefficients(5)	0~255	1
23	Z Filter Coefficients(6)	0~255	144
24	Z Filter Coefficients(7)	0~255	1
25	Z Filter Coefficients(8)	0~255	144
26	Z Filter Coefficients(9)	0~255	1
27	Z Filter Coefficients(10)	0~255	144
28	Z Filter Coefficients(11)	0~255	1
29	Z Filter Coefficients(12)	0~255	144
30	Z Filter Coefficients(13)	0~255	1
31	Z Filter Coefficients(14)	0~255	1
32	Z Filter Coefficients(15)	0~255	144
33	R Filter Coefficients(1)	0~255	46
34	R Filter Coefficients(2)	0~255	1
35	R Filter Coefficients(3)	0~255	1
36	R Filter Coefficients(4)	0~255	17
37	R Filter Coefficients(5)	0~255	1
38	R Filter Coefficients(6)	0~255	144
39	R Filter Coefficients(7)	0~255	1
40	R Filter Coefficients(8)	0~255	144
41	R Filter Coefficients(9)	0~255	1
42	R Filter Coefficients(10)	0~255	144
43	R Filter Coefficients(11)	0~255	1
44	R Filter Coefficients(12)	0~255	144
45	R Filter Coefficients(13)	0~255	1
46	R Filter Coefficients(14)	0~255	144
47	X Filter Coefficients(1)	0~255	1
48	X Filter Coefficients(2)	0~255	17
49	X Filter Coefficients(3)	0~255	1
50	X Filter Coefficients(4)	0~255	144
51	X Filter Coefficients(5)	0~255	1

Input Data (Continued)

52	X Filter Coefficients(6)	0~255	144
53	X Filter Coefficients(7)	0~255	1
54	X Filter Coefficients(8)	0~255	144
55	X Filter Coefficients(9)	0~255	1
56	X Filter Coefficients(10)	0~255	144
57	X Filter Coefficients(11)	0~255	1
58	X Filter Coefficients(12)	0~255	144
59	GR Filter Coefficients(1)	0~255	1
60	GR Filter Coefficients(2)	0~255	17
61	GX Filter Coefficients(1)	0~255	1
62	GX Filter Coefficients(2)	0~255	144

Conditions

- This Program is valid when Program 81-07 is set to filter type 4.
- This Program is not valid when Program 81-17 is set to option type 5~15.

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-17 : CODEC Filter Option Data Type Setup

Level: IN

Description

Use **Program 81-17 : CODEC Filter Option Data Type Setup** to define the CODEC filter option data type.

Input Data

Line Type	1:COIU/082U(COIDB)/002U(COIDB) 2:DIOPU(LD Trunk) 3:TLIU(2W) 4:TLIU(4W)

Input Data

Item No.	Item	Input Data	Default
01	**Option Type**	0 = None 1 = Type 5: 600Ω Line loss 2dB 2 = Type 6: China standard (200Ω+(100nF//680Ω)) 3 = Type7: China seimence tel (160Ω+(150nF//1100Ω)) 4 = Type 8: Brazil 900Ω 5 = Type 9: 600Ω Line loss 10dB 6 = Type 10: TIA-464-C 7 = Type 11: China PBX TA 8 = Type 12: 600Ω 0dBr 9 = Type 13: Reserved 10 = Type 14: Reserved 11 = Type 15: for test 12=Type 16: Complex 2dB Loss 13=Type 17: Complex 4dB Loss 14=Type 18: Complex 6dB Loss 15=Type 19: Complex 8dB Loss 16=Type 20; Reserved 17=Type 21: Reserved 18=Type 22: Reserved 19=Type 23: Reserved 20=Type 24: Reserved 21=Type 25: Reserved 22=Type 26: Reserved 23=Type 27:Reserved	0

Conditions

- There is a limitation between the type of package and input data:
  Package Types:
  - GCD-4COTB (NA)
  - GPZ-4COTF (NA)
- Do not select Types 12 ~ 23, they are reserved. If selected, the voice quality can be degraded.

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-01 : Incoming Ring Tone

Level: MF

Description

Use **Program 82-01 : Incoming Ring Tone** to set the incoming ring tones, which are the tones a user hears when a call rings an extension. These tones are grouped into four ring tone *Ranges* (1~4), also called patterns, that consist of a combination of frequencies. (You assign a specific *Range* to trunks in Program 22-03 and to extensions in Program 15-02.) Within each *Range* there are three frequency *Types:* High, Middle and Low. (Service Code 720 allows users to choose the *Type* for their incoming calls.) Each *Type* in turn consists of two frequencies and the modulation played simultaneously to make up the tone. These frequencies are DETERMINED by their Frequency Number selected in Items 1 and 2 (see below). In this program, you assign the two *Frequency Numbers* and *Modulation* for each *Type*, for each of the four *Ranges*. The chart below shows the default *Frequency Numbers* for each *Type* in each *Range*.

Input Data

Incoming Ringing Tone Number	1 = Pattern 1 (Trunk Incoming) 2 = Pattern 2 (Trunk Incoming) 3 = Pattern 3 (Trunk Incoming) 4 = Pattern 4 (Trunk Incoming) 5 = Intercom Incoming Pattern 6 = Alarm Sensor Tone Pattern 7 = Pattern 5 (Trunk Incoming) 8 = Pattern 6 (Trunk Incoming) 9 = Pattern 7 (Trunk Incoming) 10 = Pattern 8 (Trunk Incoming)

Ringing Tone Type Number	1 = High 2 = Mid 3 = Low

Item No.	Item	Input Data
01	**Frequency 1**	1 = 520Hz 2 = 540Hz 3 = 660Hz 4 = 760Hz 5 = 1100Hz 6 = 1400Hz 7 = 2000Hz
02	**Frequency 2**	
03	**Modulation**	0 = No Modulation 1 = 8Hz Modulation 2 = 16Hz Modulation 3 = Envelope

Default

Incoming Ringing Tone Number	Tone Type	Frequency 1 (Hz)	Frequency 2 (Hz)	Modulation
Pattern 1 (Trunk Incoming)	High Mid Low	1100 660 520	1400 760 660	16Hz Modulation 16Hz Modulation 16Hz Modulation
Pattern 2 (Trunk Incoming)	High Mid Low	1100 660 520	1400 760 660	8Hz Modulation 8Hz Modulation 8Hz Modulation
Pattern 3 (Trunk Incoming)	High Mid Low	2000 1400 1100	760 660 540	16Hz Modulation 16Hz Modulation 16Hz Modulation
Pattern 4 (Trunk Incoming)	High Mid Low	2000 1400 1100	760 660 540	8Hz Modulation 8Hz Modulation 8Hz Modulation
Pattern 5 Intercom Incoming Pattern	High Mid Low	1100 660 520	1400 760 660	8Hz Modulation 8Hz Modulation 8Hz Modulation
Pattern 6 Alarm Sensor Pattern	High Mid Low	760 760 760	760 760 760	No Modulation No Modulation No Modulation
Pattern 7 (Trunk Incoming)	High Mid Low	1400 760 660	540 540 540	16Hz Modulation 16Hz Modulation 16Hz Modulation
Pattern 8 (Trunk Incoming)	High Mid Low	1400 760 660	540 540 540	8Hz Modulation 8Hz Modulation 8Hz Modulation
Pattern 9 (Trunk Incoming)	High Mid Low	2000 2000 1100	1100 540 760	16Hz Modulation 16Hz Modulation 16Hz Modulation
Pattern 10 (Trunk Incoming)	High Mid Low	2000 2000 1100	1100 540 760	8Hz Modulation 8Hz Modulation 8Hz Modulation

Conditions

None

Feature Cross Reference

- Distinctive Ringing Tones and Flash Patterns
- Selectable Ring Tones

Program 82 : Basic Hardware Setup for Extension

82-03 : DSS Console LED Pattern Setup

Level: MF

Description

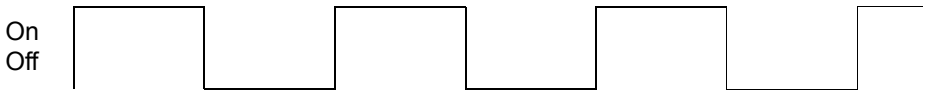
Use **Program 82-03 : DSS Console LED Pattern Setup** to define the LED patterns for special functions on a DSS console.

Input Data

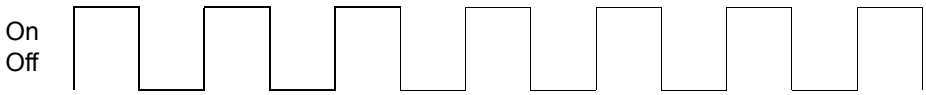
Item No.	Item	Input Data	Default
01	**Log In**	0~7	1
02	**Log Out**	0~7	4
03	**Emergency Call**	0~7	3

LED Pattern 0 : [OFF]

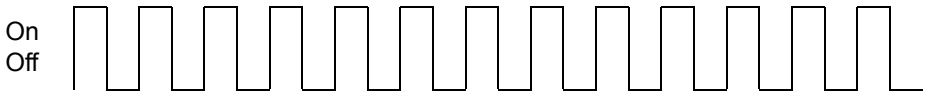
LED Pattern 1 : [FL: On(500ms)/Off(500ms)]



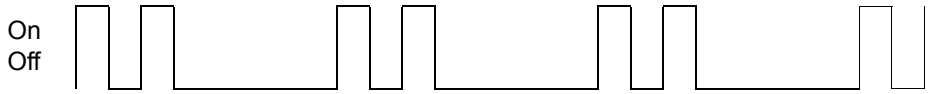
LED Pattern 2 : [WK: On(250ms)/Off(250ms)]



LED Pattern 3 : [RW: On(125ms)/Off(125ms)]

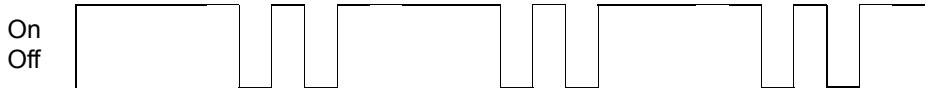


LED Pattern 4 : [IR: On(125ms)/Off(125ms)/On(125ms)/Off(625ms)]



LED Pattern 5 : [IL: On(875ms)/Off(125ms)]

LED Pattern 6 : [IW: On(625ms)/Off(125ms)/On(125ms)/Off(125ms)]



LED Pattern 7 : [ON]

Conditions

None

Feature Cross Reference

➥ **Direct Station Selection (DSS)**

Program 82 : Basic Hardware Setup for Extension

82-04 : LCA Initial Data Setup

Level: MF

Description

Use **Program 82-04 : LCA Initial Data Setup** to set the basic data of the LCA.

Input Data

Item No.	Item	Input Data	Default
01	**Companding Method Type**	0 = μ-law 1 = A-law	0
02	**Ringing Frequency**	0 = 25Hz 1 = 20Hz 2 = 16Hz	1 (20Hz)
03	**Minimum Break Time**	1~255 (5ms~1275ms)	2 (10ms)
04	**Maximum Break Time**	1~255 (5ms~1275ms)	20 (100ms)
05	**Minimum Make Time**	1~255 (5ms~1275ms)	2 (10ms)
06	**Maximum Make Time**	1~255 (5ms~1275ms)	20 (100ms)
07	**Minimum Hook Flash Time**	1~255 (5ms~1275ms)	21 (105ms)
08	**Maximum Hook Flash Time**	1~255 (5ms~1275ms)	200 (1000ms)
09	**Minimum Ground Flash Time**	1~255 (5ms~1275ms)	21 (105ms)
10	**Minimum Off-Hook Time**	1~255 (5ms~1275ms)	21 (105ms)
11	**No Detection Time after Off-Hook**	1~255 (5ms~1275ms)	60 (300ms)
12	**No Detection Time after Pulse Dial Detection**	1~255 (5ms~1275ms)	70 (350ms)
13	**Loop Disconnect Time, Reversal Time**	1~255 (10ms~2550ms)	60 (600ms)
14	**Ring, Message Wait Period Time**	1~255 (5ms~1275ms)	150 (750ms)

Conditions

None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-05 : ISDN BRI/PRI (S-Point) Layer 2 Initial Setup

Level:
MF

Description

Use **Program 82-05 : ISDN BRI/PRI (S-Point) Layer 2 Initial Setup** to set the various basic data for layer 2 of ISDN BRI/PRI (S-Point).

Input Data

Item No.	Item	Input Data	Default
01	T200	1 ~ 255	10
02	T201	1 ~ 255	10
03	T202	1 ~ 255	20
04	T203	1 ~ 255	30
05	N200	1 ~ 255	3
06	N201	1 ~ 65535	260
07	N202	1 ~ 255	3

Conditions

None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-06 : ISDN BRI/PRI (S-Point) Layer 3 Timer Setup

Level: MF

Description

Use **Program 82-06 : ISDN BRI/PRI (S-Point) Layer 3 Timer Setup** to set the various basic timers for layer 3 of ISDN BRI/PRI (S-Point).

Input Data

Item No.	Item	Input Data	Default
01	T301	0, 180 ~ 254	180
02	T302	1 ~ 254	10
03	T303	1 ~ 254	4
04	T304	0 ~ 255	20
05	T305	1 ~ 254	30
06	T306	0 ~ 254	30
07	T307	1 ~ 254	180
08	T308	1 ~ 254	4
09	T309	1 ~ 254	90
10	T310	0 ~ 180	30
11	T312	1 ~ 254	6
12	T313	1 ~ 254	4
13	T314	1 ~ 254	4
14	T316	2 ~ 254	120
15	T317	1 ~ 254	60
16	T318	1 ~ 254	4
17	T319	1 ~ 254	4
18	T320	1 ~ 254	30
19	T321	1 ~ 254	30
20	T322	1 ~ 254	4

Conditions

None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-07 : CODEC Filter Setup for Analog Station Port

Level: IN

Description

Use **Program 82-07 : CODEC Filter Setup for Analog Station Port** to set the filter value of the CODEC (QSLAC) filter of each analog port.

Input Data

Station Port Number	1~ 960

CODEC Filter Type	Default
0 = No filter 1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4	3

Conditions

None

Feature Cross Reference

➥ **Direct Station Selection (DSS)**

Program 82 : Basic Hardware Setup for Extension

82-08 : Sidetone Volume Setup

Level: MF

Description

Use **Program 82-08 : Sidetone Volume Setup** for adjusting the telephone sidetone volume.

There are two levels, based on whether the connected trunk is a digital trunk or analog trunk.

Input Data

Item No.	Description	Input	Digital Sidetone Level	Analog Sidetone Level
01	**Sidetone Volume**	0	-54 (dB)	-54 (dB)
		1	-48 (dB)	-54 (dB)
		2	-42 (dB)	-54 (dB)
		3	-36 (dB)	-48 (dB)
		4	-30 (dB)	-42 (dB)
		5	-24 (dB)	-36 (dB)
		6 (default)	-18 (dB)	-30 (dB)
		7	-12 (dB)	-24 (dB)
		8	-12 (dB)	-18 (dB)
		9	-12 (dB)	-12 (dB)

Conditions
None

Feature Cross Reference

- Central Office Calls, Answering
- Central Office Calls, Placing

Program 82 : Basic Hardware Setup for Extension

82-09 : LCA CODEC Filter Data Setup

Level: IN

Description

Use **Program 82-09 : LCA CODEC Filter Data Setup** to define the filter setting data (when Program 82-07 is set to 4).

Input Data

Item	Name	Input Data	Default
01	B1 Filter Setup(1)	0~255	58
02	B1 Filter Setup(2)	0~255	242
03	B1 Filter Setup(3)	0~255	191
04	B1 Filter Setup(4)	0~255	44
05	B1 Filter Setup(5)	0~255	90
06	B1 Filter Setup(6)	0~255	165
07	B1 Filter Setup(7)	0~255	168
08	B1 Filter Setup(8)	0~255	123
09	B1 Filter Setup(9)	0~255	159
10	B1 Filter Setup(10)	0~255	185
11	B1 Filter Setup(11)	0~255	246
12	B1 Filter Setup(12)	0~255	159
13	B1 Filter Setup(13)	0~255	201
14	B1 Filter Setup(14)	0~255	240
15	B2 Filter Setup(1)	0~255	221
16	B2 Filter Setup(2)	0~255	1
17	AISN and Analog Gains	0~255	21
18	Z Filter Coefficients(1)	0~255	163
19	Z Filter Coefficients(2)	0~255	201
20	Z Filter Coefficients(3)	0~255	36

Input Data (Continued)

Item	Name	Input Data	Default
21	Z Filter Coefficients(4)	0~255	163
22	Z Filter Coefficients(5)	0~255	59
23	Z Filter Coefficients(6)	0~255	194
24	Z Filter Coefficients(7)	0~255	196
25	Z Filter Coefficients(8)	0~255	195
26	Z Filter Coefficients(9)	0~255	170
27	Z Filter Coefficients(10)	0~255	43
28	Z Filter Coefficients(11)	0~255	38
29	Z Filter Coefficients(12)	0~255	193
30	Z Filter Coefficients(13)	0~255	163
31	Z Filter Coefficients(14)	0~255	188
32	Z Filter Coefficients(15)	0~255	1
33	R Filter Coefficients(1)	0~255	46
34	R Filter Coefficients(2)	0~255	1
35	R Filter Coefficients(3)	0~255	1
36	R Filter Coefficients(4)	0~255	17
37	R Filter Coefficients(5)	0~255	1
38	R Filter Coefficients(6)	0~255	144
39	R Filter Coefficients(7)	0~255	1
40	R Filter Coefficients(8)	0~255	144
41	R Filter Coefficients(9)	0~255	1
42	R Filter Coefficients(10)	0~255	144
43	R Filter Coefficients(11)	0~255	1
44	R Filter Coefficients(12)	0~255	144
45	R Filter Coefficients(13)	0~255	1
46	R Filter Coefficients(14)	0~255	144
47	X Filter Coefficients(1)	0~255	37
48	X Filter Coefficients(2)	0~255	64
49	X Filter Coefficients(3)	0~255	83
50	X Filter Coefficients(4)	0~255	171

Input Data (Continued)

Item	Name	Input Data	Default
51	X Filter Coefficients(5)	0~255	42
52	X Filter Coefficients(6)	0~255	135
53	X Filter Coefficients(7)	0~255	35
54	X Filter Coefficients(8)	0~255	52
55	X Filter Coefficients(9)	0~255	71
56	X Filter Coefficients(10)	0~255	172
57	X Filter Coefficients(11)	0~255	43
58	X Filter Coefficients(12)	0~255	197
59	GR Filter Coefficients(1)	0~255	66
60	GR Filter Coefficients(2)	0~255	97
61	GX Filter Coefficients(1)	0~255	162
62	GX Filter Coefficients(2)	0~255	176

Conditions

This is used if Program 82-07 is set to 4 (Specified data).

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-14 : Handset/Headset Gain for Multiline Telephone

Level: IN

Description

Use **Program 82-14 : Handset/Headset Gain for Multiline Telephone** to set the sending and receiving gain of the Multiline telephone handset.

Input Data

Extension	1~960

Input Data

Item No.	Item	Description	Input	Default
01	**Handset Transmit Gain Level**	The handset gain level is set for sending (transmit).	1~32 (-3.5dB, .., +58.5dB) 2dB basis 0 = Fixed Value (+12.5db)	0
02	**Headset Receive Gain Level**	The headset gain level is set for receiving (hearing).	1~32 (-3.5dB, ..., +58.5dB) 2dB basis 0 = Fixed Value (0db)	0

Conditions

None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-15 : OPX CODEC (QSLAC) Filter Data Setup

Level: IN

Description

Use **Program 82-15 : OPX CODEC (QSLAC) Filter Data Setup** to define the filter data setup information (when Program 82-07 is set to 4).

Input Data

Item	Name	Input Data	Default
01	B1 Filter Setup(1)	0~255	202
02	B1 Filter Setup(2)	0~255	125
03	B1 Filter Setup(3)	0~255	164
04	B1 Filter Setup(4)	0~255	34
05	B1 Filter Setup(5)	0~255	71
06	B1 Filter Setup(6)	0~255	69
07	B1 Filter Setup(7)	0~255	169
08	B1 Filter Setup(8)	0~255	123
09	B1 Filter Setup(9)	0~255	135
10	B1 Filter Setup(10)	0~255	248
11	B1 Filter Setup(11)	0~255	254
12	B1 Filter Setup(12)	0~255	143
13	B1 Filter Setup(13)	0~255	168
14	B1 Filter Setup(14)	0~255	240
15	B2 Filter Setup(1)	0~255	46
16	B2 Filter Setup(2)	0~255	1
17	AISN and Analog Gains	0~255	50
18	Z Filter Coefficients(1)	0~255	170
19	Z Filter Coefficients(2)	0~255	42
20	Z Filter Coefficients(3)	0~255	106

Input Data (Continued)

Item	Name	Input Data	Default
21	Z Filter Coefficients(4)	0~255	35
22	Z Filter Coefficients(5)	0~255	69
23	Z Filter Coefficients(6)	0~255	162
24	Z Filter Coefficients(7)	0~255	210
25	Z Filter Coefficients(8)	0~255	165
26	Z Filter Coefficients(9)	0~255	202
27	Z Filter Coefficients(10)	0~255	187
28	Z Filter Coefficients(11)	0~255	52
29	Z Filter Coefficients(12)	0~255	163
30	Z Filter Coefficients(13)	0~255	177
31	Z Filter Coefficients(14)	0~255	51
32	Z Filter Coefficients(15)	0~255	208
33	R Filter Coefficients(1)	0~255	46
34	R Filter Coefficients(2)	0~255	1
35	R Filter Coefficients(3)	0~255	1
36	R Filter Coefficients(4)	0~255	17
37	R Filter Coefficients(5)	0~255	1
38	R Filter Coefficients(6)	0~255	144
39	R Filter Coefficients(7)	0~255	1
40	R Filter Coefficients(8)	0~255	144
41	R Filter Coefficients(9)	0~255	1
42	R Filter Coefficients(10)	0~255	144
43	R Filter Coefficients(11)	0~255	1
44	R Filter Coefficients(12)	0~255	144
45	R Filter Coefficients(13)	0~255	1
46	R Filter Coefficients(14)	0~255	144
47	X Filter Coefficients(1)	0~255	1
48	X Filter Coefficients(2)	0~255	17
49	X Filter Coefficients(3)	0~255	1
50	X Filter Coefficients(4)	0~255	144

Input Data (Continued)

Item	Name	Input Data	Default
51	X Filter Coefficients(5)	0~255	1
52	X Filter Coefficients(6)	0~255	144
53	X Filter Coefficients(7)	0~255	1
54	X Filter Coefficients(8)	0~255	144
55	X Filter Coefficients(9)	0~255	1
56	X Filter Coefficients(10)	0~255	144
57	X Filter Coefficients(11)	0~255	1
58	X Filter Coefficients(12)	0~255	144
59	GR Filter Coefficients(1)	0~255	1
60	GR Filter Coefficients(2)	0~255	17
61	GX Filter Coefficients(1)	0~255	1
62	GX Filter Coefficients(2)	0~255	144

Conditions

None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-16 : SLI CODEC (QSLAC) Filter Data Setup

Level: IN

Description

Use **Program 82-16 : SLI CODEC (QSLAC) Filter Data Setup** to define the filter data setup information (when Program 82-07 is set to 4).

Input Data

Item	Name	Input Data	Default
01	B1 Filter Setup(1)	0~255	58
02	B1 Filter Setup(2)	0~255	242
03	B1 Filter Setup(3)	0~255	191
04	B1 Filter Setup(4)	0~255	44
05	B1 Filter Setup(5)	0~255	90
06	B1 Filter Setup(6)	0~255	165
07	B1 Filter Setup(7)	0~255	168
08	B1 Filter Setup(8)	0~255	123
09	B1 Filter Setup(9)	0~255	159
10	B1 Filter Setup(10)	0~255	185
11	B1 Filter Setup(11)	0~255	246
12	B1 Filter Setup(12)	0~255	159
13	B1 Filter Setup(13)	0~255	201
14	B1 Filter Setup(14)	0~255	240
15	B2 Filter Setup(1)	0~255	221
16	B2 Filter Setup(2)	0~255	1
17	AISN and Analog Gains	0~255	21
18	Z Filter Coefficients(1)	0~255	163
19	Z Filter Coefficients(2)	0~255	201
20	Z Filter Coefficients(3)	0~255	36

Input Data (Continued)

Item	Name	Input Data	Default
21	Z Filter Coefficients(4)	0~255	163
22	Z Filter Coefficients(5)	0~255	59
23	Z Filter Coefficients(6)	0~255	194
24	Z Filter Coefficients(7)	0~255	196
25	Z Filter Coefficients(8)	0~255	195
26	Z Filter Coefficients(9)	0~255	170
27	Z Filter Coefficients(10)	0~255	43
28	Z Filter Coefficients(11)	0~255	38
29	Z Filter Coefficients(12)	0~255	193
30	Z Filter Coefficients(13)	0~255	163
31	Z Filter Coefficients(14)	0~255	188
32	Z Filter Coefficients(15)	0~255	1
33	R Filter Coefficients(1)	0~255	46
34	R Filter Coefficients(2)	0~255	1
35	R Filter Coefficients(3)	0~255	1
36	R Filter Coefficients(4)	0~255	17
37	R Filter Coefficients(5)	0~255	1
38	R Filter Coefficients(6)	0~255	144
39	R Filter Coefficients(7)	0~255	1
40	R Filter Coefficients(8)	0~255	144
41	R Filter Coefficients(9)	0~255	1
42	R Filter Coefficients(10)	0~255	144
43	R Filter Coefficients(11)	0~255	1
44	R Filter Coefficients(12)	0~255	144
45	R Filter Coefficients(13)	0~255	1
46	R Filter Coefficients(14)	0~255	144
47	X Filter Coefficients(1)	0~255	37
48	X Filter Coefficients(2)	0~255	64
49	X Filter Coefficients(3)	0~255	83
50	X Filter Coefficients(4)	0~255	171

Input Data (Continued)

Item	Name	Input Data	Default
51	X Filter Coefficients(5)	0~255	42
52	X Filter Coefficients(6)	0~255	135
53	X Filter Coefficients(7)	0~255	35
54	X Filter Coefficients(8)	0~255	52
55	X Filter Coefficients(9)	0~255	71
56	X Filter Coefficients(10)	0~255	172
57	X Filter Coefficients(11)	0~255	43
58	X Filter Coefficients(12)	0~255	197
59	GR Filter Coefficients(1)	0~255	66
60	GR Filter Coefficients(2)	0~255	97
61	GX Filter Coefficients(1)	0~255	162
62	GX Filter Coefficients(2)	0~255	176

Conditions

None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-17 : CODEC Filter Option Data Type Setup

Level: IN

Description

Use **Program 82-17 : CODEC Filter Option Data Type Setup** to define the CODEC filter option data type.

Input Data

Line Type	1 = SLIU 2 = OPX 3 = SLI

Item No.	Item	Input Data	Default
01	Option Type	0 = None 1 = Type 5 2 = Type 6 3 = Type 7 4 = Type 8 5 = Type 9 6 = Type 10 7 = Type 11 8 = Type 12 9 = Type 13 10 = Type 14 11 = Type 15	0

Conditions

None

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-01 : H.323 Trunk Basic Information Setup

Level: IN

Description

Use **Program 84-01 : H.323 Trunk Basic Information Setup** to set the basic information of the H.323 Trunk.

Input Data

Item No.	Item	Input Data	Default
02	**Number of G.711 audio frames**	1~4	3
03	**G.711 VAD mode**	0 = Disable 1 = Enable	0
04	**G.711 Type**	0 = A-law 1 = μ-law	1
05	**Number of G.729 audio frames**	1~6 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms 5 = 50ms 6 = 60ms	3
06	**G.729 VAD mode**	0 = Disable 1 = Enable	0
07	**G.729 Jitter Buffer (min)**	0~300ms	30
08	**G.729 Jitter Buffer (average)**	0~300ms	60
09	**G.729 Jitter Buffer (max)**	0~300ms	120
15	**Jitter Buffer Mode** Self adjusting silent period is not valid by IPLE. If this value is set, the system will operate as Setting 3.	1 = Static 3 = Self adjusting	3
16	**G.711 Jitter Buffer (min)**	0~300ms	30
17	**G.711 Jitter Buffer (average)**	0~300ms	60
18	**G.711 Jitter Buffer (max)**	0~300ms	120

Input Data (Continued)

Item No.	Item	Input Data	Default
22	**VAD Threshold**	0~30 (-19dB~ +10dB and self adjustment) 0 = Self adjustment 1 = -19dB (-49dBm) : 20 = 0dB (-30dBm) : 29 = 9dB (-21dBm) 30 = 10dB (-20dBm)	20
33	**Priority CODEC setting** Priority of voice encoding method.	0~3 0 = G.711 2 = G.729 3 = G.722	0
63	**Number of G.722 audio frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
65	**G.722 Jitter Buffer (min)**	0~300ms	30
66	**G.722 Jitter Buffer (average)**	0~300ms	60
67	**G.722 Jitter Buffer (max)**	0~300ms	120
68	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-02 : H.225 and H.245 Information Basic Setup

Level: IN

Description

Use **Program 84-02 : H.225 and H.245 Information Basic Setup** to define the basic setup information of H.225 and H.245.

Input Data

Item No.	Item	Input Data	Default
01	**H.225**	0~255sec	180
02	**H.225 Setup Acknowledge Timer**	0~255sec	9
03	**H.225 Setup Timer**	0~255sec	4
04	**H.225 Info Ack. Timer**	0~255sec	9
05	**H.225 Call Proceeding Timer**	0~255sec	10
07	**H.245 Master Slave Determination Timer**	0~255sec	5
08	**H.245 Master Slave Determination Retry Count**	0~255sec	3
09	**H.245 Capability Exchange Timer**	0~255sec	5
10	**H.245 Logical Channel Establishment Timer**	0~255sec	50
11	**H.245 Mode Request Procedures Timer**	0~255sec	50
12	**H.245 Close Logical Channel Timer**	0~255sec	50
13	**H.245 Round Trip Delay Timer**	0~255sec	50
14	**H.245 Maintenance Loop**	0~255sec	50
15	**RAS GRQ Timer**	0~255sec	5
16	**GRQ Retry Count**	0~255	2
17	**RAS RRQ Timer**	0~255sec	5
18	**RRQ Retry Count**	0~255	3
19	**RAS URQ Timer**	0~255sec	3
20	**URQ Retry Count**	0~255	1
21	**RAS ARQ Timer**	0~255sec	5

Input Data (Continued)

Item No.	Item	Input Data	Default
22	**ARQ Retry Count**	0~255	2
23	**RAS BRQ Timer**	0~255sec	5
24	**BRQ Retry Count**	0~255	2
25	**RAS IRR Timer**	0~255sec	5
26	**IRR Retry Count**	0~255	2
27	**RAS DRQ Timer**	0~255sec	8
28	**DRQ Retry Count**	0~255	2
29	**RAS LRQ Timer**	0~255sec	5
30	**LRQ Retry Count**	0~255	2
31	**RAS RAI Timer**	0~255sec	3
32	**RAI Retry Count**	0~255	2
33	**Call Signaling Port Number**	0~65535: 0~1719, 1721~65535	1730
35	**Fast Start Mode**	0 = Disable 1 = Enable	1
36	**RAS Unicast Port Number**	0~65535	20001
37	**Terminal Type setting**	0~255	60

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-06 : PVA Data Setting

Level: IN

Description

Use **Program 84-06 : PVA Data Setting** to set up threshold levels of every CD-PVAA slot.

Input Data

Slot Number	01~24

Item No.	Item	Input Data	Default	Description
01	**RTP Port Number**	0~65534	10020	
02	**RTCP Port Number**	RTP Port Number + 1	10021	It has to be RTP Port Number + 1.
04	**Fract Lost Threshold**	0~100%	0	The data is sent to the GCD-CP10 or GCD-CP20 if the value exceeds the defined value.
05	**Packets Lost Threshold**	0~16777215	0	The data is sent to the GCD-CP10 or GCD-CP20 if the value exceeds the defined value.
07	**Jitter Threshold**	0~4294967295 (sec)	0	The data is sent to the GCD-CP10 or GCD-CP20 if the value exceeds the defined value.
09	**Delay LSR Threshold**	0~4294967295 (sec)	0	The data is sent to the GCD-CP10 or GCD-CP20 if the value exceeds the defined value.
16	**IMCP Redirect**	0=No 1=Yes	0	The VOIP blade supports sending the Internet Message Control Protocol (IMCP) redirect message.

Conditions

System programming must be exited before these program options take affect.

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-07 : Firmware Download Setup

Level: IN

Description

Use **Program 84-07 : Firmware Download Setup** to configure the settings related to Central Firmware Download for IP phones.

Input Data

Item No.	Item	Input Data	Default
01	**Server Mode**	0 = TFTP 1 = FTP	0
02	**File Server IP Address**	0.0.0.0~126.255.255.254 128.0.0.1~191.255.255.254 192.0.1.1~223.255.254.254	0.0.0.0
03	**Login Name**	Up to 20 Characters	None
04	**Password**	Up to 20 Characters	None

Conditions

None

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-09 : VLAN Setup

Level: IN

Description

Use **Program 84-09 : VLAN Setup** to set up the VLAN data for Ethernet interface ports.

Input Data

Ethernet Interface	1 = CPU 2 = VoIP PKG

Item No.	Item	Input Data	Default
01	VLAN	0 = Disable (Off) 1 = Enable (On)	0
02	VLAN ID	1~4094	0
03	Priority	0~7	0

Conditions

System programming must be exited before these program options take affect.

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-10 : ToS Setup

Level: IN

Description

Use **Program 84-10 : ToS Setup** to set up the Type of Service data.

Input Data

Protocol Type	1 = Not Used 2 = Not Used 3 = Voice Control 4 = H.323 5 = RTP/RTCP 6 = SIP 7 = CCISoIP 8 = DT900/DT8000 MLT 9 = SIP Trunk 10 = NetLink 11 = Video RTP/RTCP

Item No.	Item	Input Data	Default	Description
01	**ToS Mode**	0 = Disable (Invalid) 1 = IP Precedence 2 = Diffserv	0	When Input Data is set to 1, Item No. 07 is invalid. When Data is set to 2, Item No. 02 ~ 06 are invalid.
02	**Priority, IP Precedence**	0~7 0 = Low 7 = High	0	1 = Router queuing priority
03	**Low Delay**	0~1 0 = Normal Delay, Low Delay	0	1 = Optimize for low delay routing
04	**Wideband (Throughout)**	0~1 0 = Normal Throughput 1 = High Throughput	0	1 = Optimize for high bandwidth routing
05	**High Reliability**	0~1 0 = Normal Reliability 1 = Low Reliability	0	1 = Optimize for reliability routing
07	**Priority D.S.C.P. (Differentiated Services Code Point)**	0~63	0	DSCP (Differentiated Services Code Point)

Conditions

The system must be reset for these program options to take affect.

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-12 : Networking CODEC Information Basic Setup

Level: IN

Description

Use **Program 84-12 : Networking CODEC Information Basic Setup** to set voice (RTP packet) encoding parameters.

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frames**	1~4 (10ms steps)	3
02	**G.711 VAD mode**	0 = Disable 1 = Enable	0
03	**G.711 Type**	0 = A-law 1 = μ-law	1
04	**G.711 Jitter Buffer (min)**	0~300ms	30
05	**G.711 Jitter Buffer (average)**	0~300ms	60
06	**G.711 Jitter Buffer (max)**	0~300ms	120
07	**Number of G.729 Audio Frames**	1~6	3
08	**G.729 VAD mode**	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer (min)**	0~300ms	30
10	**G.729 Jitter Buffer (average)**	0~300ms	60
11	**G.729 Jitter Buffer (max)**	0~300ms	120
17	**Jitter Buffer Mode**	1 = Static 3 = Self Adjusting	3
18	**VAD Threshold**	0~30 = -19dB~+10dB 0 = Adaptec Threshold 1 = -19dB(-49dBm) : 20 = 0dB (-30dBm) : 29 = 9dBm(-21dBm) 30 = 10dBm(-20dBm)	20

Item No.	Item	Input Data	Default
28	**Audio Capability Priority**	0 = G.711_PT 2 = G.729_PT 3 = G.722_PT	0
33	**G.722 Maximum Audio Frame Size**	1 ~ 4 (10ms ~ 40ms)	3
35	**G.722 Jitter Buffer (min)**	0~300ms	30
36	**G.722 Jitter Buffer (average)**	0~300ms	60
37	**G.722 Jitter Buffer (max)**	0~300ms	120
38	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-13 : SIP Trunk CODEC Information Basic Setup

Level: IN

Description

Use **Program 84-13 : SIP Trunk CODEC Information Basic Setup** to set up the basic CODEC options for SIP trunks.

Input Data

Item No.	Item	Input Data	Default	Profile 1~6
01	**Number of G.711 Audio Frames**	1~4 (1 = 10ms, 4 = 40ms)	2	
02	**G.711 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0	
03	**G.711 Type**	0 = A-law 1 = μ-law	1	
04	**G.711 Jitter Buffer (min)**	0~300ms	20	
05	**G.711 Jitter Buffer (average)**	0~300ms	40	
06	**G.711 Jitter Buffer (max)**	0~300ms	80	
07	**Number of G.729 Audio Frames**	1~6 (1 = 10ms, 6 = 60ms)	2	
08	**G.729 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0	
09	**G.729 Jitter Buffer (min)**	0~300ms	20	
10	**G.729 Jitter Buffer (average)**	0~300ms	40	
11	**G.729 Jitter Buffer (max)**	0~300ms	80	
17	**Jitter Buffer Mode**	1 = Static 3 = Self Adjusting	3	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
18	**VAD Threshold**	0~30 (-19dB~+10dB) 0 = Self adjustment 1 = -19dB (-49dBm) : 2 = 0dB (-30dBm) : 29 = 9dBm (-21dBm) 30 = 10dBm (-20dBm)	20	
28	**Audio Capability Priority**	0 = G.711_PT 2 = G.729_PT 3 = G.722_PT 4 = G.726_PT 6 = G.711_Fix 7 = G.729_Fix	0	
33	**Number of G.722 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3	
35	**G.722 Jitter Buffer (min)**	0~300ms	30	
36	**G.722 Jitter Buffer (average)**	0~300ms	60	
37	**G.722 Jitter Buffer (max)**	0~300ms	120	
38	**Number of G.726 Audio Frames**	1~4 (1 = 10ms, 4 = 40ms)	3	
39	**G.726 VAD Mode**	0 = Disable 1 = Enable	0	
40	**G.726 Jitter Buffer (min)**	0~300ms	30	
41	**G.726 Jitter Buffer (average)**	0~300ms	60	
42	**G.726 Jitter Buffer (max)**	0~300ms	120	
49	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable	1	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
65	**VAD Negotiation on SDP** Select whether or not system uses SIP negotiation for VAD usage. When set to '0 = Disable' system disregards SIP negotiation result and always enables the VAD. When set to'1 = Enable' system uses SIP negotiation and decides VDA usage according to the result.	0 = Disable 1 = Enable	0	
66	**Voice Band Data Mode (VBD)** Enable or Disable the VBD feature. This program has to set '1 = Enable' when PRG15-03-03 is set '1 = Special' and also PRG15-03-18 is '1 = Modem' Related: PRG 15-03-03, PRG 15-03-18	0 = Disable 1 = Enable	0	
67	**VBD Payload** Setup the Payload Type number when using VBD.	96~127	97	
70	**Video Quality Mode** This program is not supported for version 1.00 software and will be supported in a later release. This program specifies the SIP trunk video quality mode. Use this program in conjunction with 84-27-20 for Mode 1 and 84-27-21 for Mode 2 video quality settings. Mode 1 = CIF (352x288) Mode 2 = VGA (640x480)	0 = Mode 1 1 = Mode 2	0	
71	**Video CODEC** This program is not supported for version 1.00 software and will be supported in a later release. This program specifies the video CODEC. At this time only H.264 is supported.	0 = H.264	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
72	**Jitter Buffer Mode for Video** This program is not supported for version 1.00 software and will be supported in a later release. This program sets the jitter buffer size adjustment. At default this is set to self adjusting and should only be changed when directed by support.	1 = Static 2 = Self Adjusting	2	
73	**Minimum Jitter Buffer for Video** This program is not supported for version 1.00 software and will be supported in a later release. This program sets the minimum value of jitter buffer for the video stream. This value must be smaller than the value of the maximum jitter buffer. This value should only be changed for if needed for highly congested networks.	0 ~ 1000ms	70ms	
74	**Initial Jitter Buffer for Video** This program is not supported for version 1.00 software and will be supported in a later release. This program sets the initial value of jitter buffer for the video stream. This value must be smaller than the value of the maximum jitter buffer and bigger than the value of the minimum jitter buffer. This value should only be changed for if needed for highly congested networks.	0 ~ 1000ms	140ms	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
75	**Maximum Jitter Buffer for Video** This program is not supported for version 1.00 software and will be supported in a later release. This program sets the maximum value of jitter buffer for the video stream. It is used only when 84-19-72 (Jitter Buffer Mode for video) is set to 1: Fixed. This value must be bigger than the value of the minimum jitter buffer and should only be changed if needed for highly congested networks.	0 ~ 1000ms	210ms	

Conditions

None

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-14 : SIP Trunk Basic Information Setup

Level: IN

Description

Use **Program 84-14 : SIP Trunk Basic Information Setup** to define the basic setup for SIP trunks.

Input Data

Item No.	Item	Input Data	Default	Profile 1~6
06	**SIP Trunk Port Number**	1~65535	Profile 1 = 5060 Profile 2 = 5062 Profile 3 = 5090 Profile 4 = 5092 Profile 5 = 5094 Profile 6 = 5096 With Version 2.00 or lower CPU Software only two SIP Profiles are supported.	
07	**Session Timer Value**	1~65535	0	
08	**Minimum Session Timer Value**	1~65535	1800	
09	**Called Party Information**	0 = Request URI 1 = To Header	0	
10	**URL Type**	0 = SIP-URL 1 = TEL-URL	0	
11	**URL/To HeaderSetting Information** 0: If 10-29-12 and 10-29-13 are set for the Proxy server domain, the value is put. The value of 10-29-11 is put on the URL/TO header when not set. 1: Information is acquired and put from 10-28-01/10-28-02 of the SIP UA domains.	0 = Proxy Server Domain 1 = SIP UA Domain	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
13	**E.164 Incoming/Outgoing via SIP Trunk URI** When making an incoming or outgoing call via SIP trunk, enable or disable conversion of SIP-URI to from E.164 format (E.g. +850XXXX) for PSTN. When making an outgoing call at SIP trunk, add '+' and International Access Code set in PRG 10-02-02 to SIP-URI. When making an incoming call at SIP trunk, delete '+' and International Access Code when matching PRG 10-02-02 to SIP-URI.	0 = Off 1 = Mode 1 2 = Mode 2 3 = Mode 3	0	
15	**100rel Settings**	0 = Use default settings 1 = Use opposite settings **Outbound Call:** When set to 0 the 101rel is included in the supported header of the invite message. When set to 1 the 101rel is NOT included in the supported header of the invite message **Inbound Call:** When set to 0 and the Invite includes a 101rel in the supported header of the invite message the provisional 1XX (excluding the 100 Trying) Will contain a 100rel in the supported header (which means the other side must PRACK this message). When set to 1 and the Invite includes a 101rel in the supported header of the invite message the provisional 1XX (excluding the 100 Trying) Will NOT contain a 100rel in the supported header (which means NO PRACK required).	0 (Normal)	
16	**SIP Trunk SIP-URI E.164 Incoming Mode**	0 = Off 1 = Mode 1 2 = Mode 2	0	

Input Data (Continued)

Item No.	Item	Input Data	Default	Profile 1~6
17	**Call Forward Moved Temporarily Support** Input Data 1: When enabled a 302 Moved temporarily response is sent for external call forward destinations.	0 = Disabled 1 = 302 Return	0	
18	**Keep Alive by OPTION Interval Timer**	60~3600sec	180sec	
19	**Keep Alive by OPTION Fail Limit**	1~5	1	
20	**Option Keep Alive User ID**	Only single byte alphanumeric characters are allowed.	ping	
21	**SIP Trunk TLS Port Number**	1 ~ 65535	[Profile 1]: 5061 [Profile 2]: 5063 [Profile 3]: 5091 [Profile 4]: 5093 [Profile 5]: 5095 [Profile 6]: 5097	
22	**TLS Certificate**	Up to 32 characters	No Setting	

Conditions

None

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-15 : H.323/SIP Phone Keep Alive Setup

Level: IN

Description

Use **Program 84-15 : H.323/SIP Phone Keep Alive Setup** to set the Keep Alive Configuration of the H.323/SIP phone.

Input Data

Item No.	Item	Input Data	Default
01	**Registration Information Automatic Deletion** When set to 1, the registration information is automatically deleted (for H.323).	0 = Disable 1 = Enable	0
02	**Keep Alive Message Interval** Time interval that system sends a Ping to the terminal.	1~10 minutes	1
03	**Keep Alive Message Timeout** Time that system waits for a Ping response from the terminal.	1~10 seconds	5
04	**Keep Alive Timeout** How many times the system waits for a non response before determining the terminal is down.	1~5 times	3

Conditions

None

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-16 : VoIP Limiter Control Gain Setup

Level: IN

Description

Use **Program 84-16 : VoIP Limiter Control Gain** to set the Limiter Control Gain configuration of VoIP.

Input Data

Item No.	Item	Input Data	Default
01	**RX Limiter Control Gain** Gain setting to control limiter in the direction of IP →PCM. This option adds gain to the voice input from the LAN and removes it from the voice output to highway.	0~30 (-15dB ~ +15dB) 0 = -15dB 1 = -14dB : 15 = 0dB : 29 = 14dB 30 = 15dB	15 (0dB)
02	**TX Limiter Control Gain** Gain setting to control limiter in the direction of PCM →IP. This option adds the gain to the voice input from highway and removes it from the voice output to the LAN.		15 (0dB)
03	**RX Limiter Control Gain (for COIU)** This option controls the limiter gain for a COIU call in the IP to PCM direction.		15 (0dB)
04	**TX Limiter Control Gain (for COIU)** This option controls the limiter gain for a COIU call in the PCM to IP direction.		15 (0dB)

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-19 : SIP Extension CODEC Information Basic Setup

Level: IN

Description

Use **Program 84-19 : SIP Extension CODEC Information Basic Setup** to define the CODEC information for the SIP extensions.

Input Data

CODEC Type	1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4 5 = Type 5

Input Data

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	2
02	**G.711 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
03	**G.711 Type**	0 = A-law 1 = μ-law	1
04	**G.711 Jitter Buffer (min)**	0~300ms	20
05	**G.711 Jitter Buffer (average)**	0~300ms	40
06	**G.711 Jitter Buffer (max)**	0~300ms	80
07	**Number of G.729 Audio Frames**	1~6 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms 5 = 50ms 6 = 60ms	2

Input Data (Continued)

Item No.	Item	Input Data	Default
08	**G.729 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
09	**G.729 Jitter Buffer (min)**	0~300ms	20
10	**G.729 Jitter Buffer (average)**	0~300ms	40
11	**G.729 Jitter Buffer (max)**	0~300ms	80
17	**Jitter Buffer Mode**	1 = Static 3 = Self Adjusting	3
18	**VAD Threshold**	0~30 (-19dB~+10dB) 0 = Self Adjustment 1 = -19dB (-49dbm) : 20 = 0dB (-30dBm) : 29 = 9dB (-21dBm) 30 = 10dB (-20dBm)	20
28	**Audio Capability Priority**	0 = G.711_PT 2 = G.729_PT 3 = G.722 4 = G.726	0
33	**Number of G.722 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
35	**G.722 Jitter Buffer (min)**	0~300ms	30
36	**G.722 Jitter Buffer (average)**	0~300ms	60
37	**G.722 Jitter Buffer (max)**	0~300ms	120
38	**Number of G.726 Audio Frames**	1~4 (1 = 10ms, 4 = 40ms)	3
39	**G.726 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
40	**G.726 Jitter Buffer (min)**	0~300ms	30
41	**G.726 Jitter Buffer (average)**	0~300ms	60
42	**G.726 Jitter Buffer (max)**	0~300ms	120

Input Data (Continued)

Item No.	Item	Input Data	Default
49	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable	1
65	**Video Quality Mode** This program specifies the SIP station video quality mode when Peer-to Peer is disabled in 15-05-50. Use this program in conjunction with 84-27-20 for Mode 1 and 84-27-21 for Mode 2 video quality settings. Mode 1 = CIF (352x288) Mode 2 = VGA (640x480)	0 = Mode 1 1 = Mode 2	0
66	**Video CODEC** This program specifies the video CODEC. At this time only H.264 is supported.	0 = H.264	0
67	**Jitter Buffer Mode for Video** This program sets the jitter buffer size adjustment. At default this is set to self adjusting and should only be changed when directed by support.	1 = Static 2 = Self Adjusting	2
68	**Minimum Jitter Buffer for Video** This program sets the minimum value of jitter buffer for the video stream. This value must be smaller than the value of the maximum jitter buffer. This value should only be changed for if needed highly congested networks.	0 ~ 1000ms	70ms
69	**Initial Jitter Buffer for Video** This program sets the initial value of jitter buffer for the video stream. This value must be smaller than the value of the maximum jitter buffer and bigger than the value of the minimum jitter buffer. This value should only be changed for if needed highly congested networks.	0 ~ 1000ms	140ms

Input Data (Continued)

Item No.	Item	Input Data	Default
70	**Maximum Jitter Buffer for Video** This program sets the maximum value of jitter buffer for the video stream. It is used only when 84-19-72 (Jitter Buffer Mode for video) is set to 1: Fixed. This value must be bigger than the value of the minimum jitter buffer and should only be changed if needed for highly congested networks.	0 ~ 1000ms	210ms

Conditions

None

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-20 : SIP Extension Basic Information Setup

Level: IN

Description

Use **Program 84-20 : SIP Extension Basic Information Setup** to set up proxy information, session timers, called party information and expire value of invite.

Item No.	Item	Input Data	Default
01	**Registrar/Proxy Port**	1~65535	5070
02	**Session Timer Value**	0~65535	180
03	**Minimum Session Timer Value**	0~65535	180
04	**Called Party Info**	0 = Request URI 1 = To Header	0
05	**Expire Value of Invite** Arrival of a message is ended when this time expires and there is no cut from the caller.	0~256 (seconds)	180s
06	**Expire Value of Invite (send)** The expiration time is set for the Invite message.	1~3600 (seconds)	180s
07	**TLS Registrar/Proxy Port**	0~65535	0

Conditions

These commands are for SIP analog extensions.

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-21 : CCIS over IP CODEC Information Basic Setup

Level: IN

Description

Use **Program 84-21 : CCIS over IP CODEC Information Basic Setup** to set the CODEC parameters of the GPZ-IPLE.

Input Data

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
02	**G.711 Type**	0 = A-law 1 = μ-law	1
03	**G.711 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
04	**G.711 Jitter Buffer (min)**	0~300ms	30
05	**G.711 Jitter Buffer (average)**	0~300ms	60
06	**G.711 Jitter Buffer (max)**	0~300ms	120
07	**G.729 Audio Frame Number**	1~6 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms 5 = 50ms 6 = 60ms	3
08	**G.729 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer (min)**	0~300ms	30
10	**G729 Jitter Buffer (average)**	0~300ms	60
11	**G729 Jitter Buffer (max)**	0~300ms	120

Input Data (Continued)

Item No.	Item	Input Data	Default
19	**1st Priority of Audio Capability**	0 = G.711 PT 2 = G.729 PT 3 = G.722 4 = G.726	0
20	**2nd Priority of Audio Capability**	0 = G.711 PT 2 = G.729 PT 3 = G.722 PT 4 = G.726 PT	2
22	**Jitter Buffer Mode**	1 = Static 3 = Self Adjusting	3
23	**Voice Activity Detection Threshold**	0 = Self adjustment 1 = -19dBm (-49dBm) : 20 = 0dBm (-30dBm) : 29 = +9dBm (-21dBm) 30 = +10dBm (-20dBm)	20
27	**G.722 Audio Frame Number**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
29	**G.722 Jitter Buffer (min)**	0~300ms	30
30	**G.722 Jitter Buffer (average)**	0~300ms	60
31	**G.722 Jitter Buffer (max)**	0~300ms	120
32	**G.726 Audio Frame Number**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
33	**G.726 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
34	**G.726 Jitter Buffer (min)**	0~300ms	30
35	**G.726 Jitter Buffer (average)**	0~300ms	60
36	**G.726 Jitter Buffer (max)**	0~300ms	120
43	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-22 : DT900/DT800 Multiline Logon Information

Level: IN

Description

Use **Program 84-22 : DT900/DT800 Multiline Logon Information** to set the DT900/DT800 Multiline logon information.

Input Data

Personal ID Index	1~960

Item No.	Item	Input Data	Default
01	**User ID** Input the User ID when using manual or auto registration (10-46-01).	Up to 32 characters	No Setting
02	**Password** Input the Password when using manual or auto registration (10-46-01). ➨ *IP Multiline terminals only support numerical user IDs, not alphanumeric.*	Up to 16 characters	No Setting
03	**User ID Omission** Input the Personal ID from terminal automatically when log on again.	0 = Off 1 = On	0
04	**Log Off** When the registration mode (10-46-01) is set to manual, and the phone prompts for a login, the previous user ID appears so the user only has to enter the password. When enabled, the extension assigned to the Personal ID Index can be logged off or overridden by another IP multiline station or Softphone. In Manual mode, a user can also log off the IP phone to allow another user to login with their own login ID and password. To logoff the IP phone use the following operation: Press the "Down Arrow" Soft Key, press the "Prog" soft key, and then press the "LOGOFF" soft key.	0 = Off 1 = On	1

Item No.	Item	Input Data	Default
05	**Nick Name** Input the Personal ID from terminal automatically when log on again.	Up to 32 characters	No Setting

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-23 : DT900/DT800 Basic Setup

Level: IN

Description

Use **Program 84-23 : DT900/DT800 Basic Setup** to set the basic information for the DT900/DT800 Multiline Terminal.

Input Data

Item No.	Item	Input Data	Default
01	**Registration Expire Timer** The Expires value of the REGISTER message which received from DT900/DT800 terminal is out of range or when the Expire value is not set up, in case it assigns the effective time to the DT900/DT800 terminal. The timer for supervising whether DT900/DT800 terminal is connected or not.	60~65535 (sec)	180
02	**Subscribe Expire Timer** The subscribe Expire timer to transmit and receive the terminal operation instructions between the Main Device and DT900/DT800 terminal.	60~65535 (sec)	3600
03	**Session Expire Timer** Set effective time for supervising the Voice Path.	60~65535 (sec)	180
04	**Minimum Session Expire Timer** Set minimum value of effective time for supervising the Voice Path.	60~65535 (sec)	180
05	**Invite Expire Timer** Set effective time for Incoming/Outgoing call when the Expire value is not set in the INVITE message received from DT900/DT800 terminal.	0~65535 (sec)	180
06	**Signal Type of Service** Set Type of Service value which applied to send SIP Message Packet from DT900/DT800 terminal to Main Device.	0x00~0xFF (0~9, A~F)	00
07	**Error Display Timer**	0~65535 (sec)	0

Input Data (Continued)

Item No.	Item	Input Data	Default
08	**Digest Authorization Registration Expire Timer**	0~4294967295 (sec)	0
09	**Temporary Password (Read Only)**		
10	**Number of Password Retries** Input the number of times an incorrect password can be entered when the security key is pressed.	0~255	0
11	**Password Lock Time**	0~120	0
12	**Reference Number**	Up to 32 digits (0~9, ∗, #, P, R, @)	No Setting
13	**Media Type of Service**	0x00~0xFF (0~9, A~F)	00
14	**Refer Expire Timer**	0~65535 (sec)	60

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-24 : DT900/DT800 Multiline CODEC Basic Information Setup

Level: IN

Description

Use **Program 84-24 : DT900/DT800 Multiline CODEC Basic Information Setup** to set the CODEC of each type of DT900/DT800 Multiline Telephone.

Input Data

CODEC Type	1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4 5 = Type 5

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frames** Input the amount of audio in the packets when using the G.711 CODEC.	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	2
02	**G.711 Voice Activity Detection**	0 = Disable 1 = Enable	0
03	**G.711 Type** This decides the G.711 type. In North America, typically u-law is used.	0 = A-law 1 = µ-law	1
04	**G.711 Jitter Buffer (min)**	0~300ms	20
05	**G.711 Jitter Buffer (average)**	0~300ms	40
06	**G.711 Jitter Buffer (max)**	0~300ms	80
07	**Number of G.729 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	2
08	**G.729 Voice Activity Detection**	0 = Disable 1 = Enable	0

Item No.	Item	Input Data	Default
09	**G.729 Jitter Buffer (min)**	0~300ms	20
10	**G.729 Jitter Buffer (average)**	0~300ms	40
11	**G.729 Jitter Buffer (max)**	0~300ms	80
17	**Jitter Buffer Mode**	1 = Static 3 = Self Adjusting	3
18	**VAD Threshold**	0~30 (-19dB~+10dB) 0 = Self Adjustment 1 = -19dB (-49dbm) : 20 = 0dB (-30dBm) : 29 = 9dB (-21dBm) 30 = 10dB (-20dBm)	20
23	**Echo Canceler Non-Linear Processing Noise** (not available via telephone programming)	40 ~ 70	70
28	**Audio Capability Priority**	0~3 0 = G.711_PT 2 = G.729_PT 3 = G.722_PT	0
32	**G.722 Audio Frame Number**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
34	**G.722 Jitter Buffer (min)**	0~300ms	30
35	**G.722 Jitter Buffer (average)**	0~300ms	60
36	**G.722 Jitter Buffer (max)**	0~300ms	120
37	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable 2 = Enable (include SSRC)	1

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-25 : NetLink CODEC Information Basic Setup

Level: IN

Description

Use **Program 84-25 : NetLink CODEC Information Basic Setup** to set the CODEC with NetLink.

Input Data

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
02	**G.711 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
03	**G.711 Type**	0 = A-law 1 = μ-law	1
04	**G.711 Jitter Buffer (min)**	0~300ms	30
05	**G.711 Jitter Buffer (average)**	0~300ms	60
06	**G.711 Jitter Buffer (max)**	0~300ms	120
07	**Number of G.729 Audio Frames**	1~6 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms 5 = 50ms 6 = 60ms	3
08	**G.729 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer (min)**	0~300ms	30
10	**G.729 Jitter Buffer (average)**	0~300ms	60
11	**G.729 Jitter Buffer (max)**	0~300ms	120
17	**Jitter Buffer Mode**	1 = Static 3 = Self Adjustment	3

Input Data (Continued)

Item No.	Item	Input Data	Default
18	**Voice Activity Detection Threshold**	0~30 (-19dB~ +10dB) 0 = Self adjustment 1 = -19dB (-49dBm) : 20 = 0dB (-30dBm) : 29 = 9dB (-21dBm) 30 = 10dB (-20dBm)	20
28	**Audio Capability Priority**	0~4 0 = G.711_PT 2 = G.729_PT 3 = G.722_PT 4 = G.726	0
33	**Number of G.722 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
35	**G.722 Jitter Buffer (min)**	0~300ms	30
36	**G.722 Jitter Buffer (average)**	0~300ms	60
37	**G.722 Jitter Buffer (max)**	0~300ms	120
38	**Number of G.726 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
39	**G.726 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
40	**G.726 Jitter Buffer (min)**	0~300ms	30
41	**G.726 Jitter Buffer (average)**	0~300ms	60
42	**G.726 Jitter Buffer (max)**	0~300ms	120
49	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-26 : IPL Basic Setup

Level: IN

Description

Use **Program 84-26 : IPL Basic Setup** to set the IP address of IPL and the port.

Input Data

Slot Number	1

Item No.	Item	Input Data	Default	Related Program
01	**IP Address**	xxx.xxx.xxx.xxx	Slot 1 = 172.16.0.20	
02	**RTP Port Number**	0~65534	VoIP GW1 = 10020	
03	**RTCP Port Number (RTP Port Number +1)**	0~65534	VoIP GW1 = 10021	
12	**Video RTP Port** Sets the starting RTP port used by standard SIP terminal video.	0 ~ 65534	20020	
13	**Video RTCP Port** Sets the starting RTCP port used by standard SIP terminal video.	0 ~ 65534	20021	
15	**IP Address for Browser Phone Communication** This IP Address is used for browser phone communication. Set the network same as PRG 10-12-09.	0.0.0.0~126.255.255.254 128.0.0.1~191.255.255.254 192.0.0.1~223.255.255.254	0.0.0.0	10-12-09 10-12-10 20-57-45 84-26-01

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-27 : IPL Basic Setup

Level: IN

Description

Use **Program 84-27 : IPL Basic Setup** to set the DTMF Relay and the SRTP mode of the IPL.

Input Data

Slot Number	1

Item No.	Item	Input Data	Default
03	**SRTP Mode Setup**	0 = Disable 1 = Enable	0
04	**SRTP Mode Select**	0 = Mode1	0
06	**H.245 Port Number**	0~65535	10100
07	**Preparation Completion Response Port Number**	0~65535	4000
14	**ICMP Redirect**	0 = Enable 1 = Disable 0 = Voice Packets WILL follow ICMP redirect messages. 1 = Voice Packets WILL NOT follow ICMP redirect messages. ➡ *For Signaling packets and ICMP refer to PRG 10-12-08.*	1

Item No.	Item	Input Data	Default
20	**Maximum non-MCU Video Channel Mode 1** Note when changing this PRG all DSP resources are reset when idle. In progress calls are not affected but until all DSP resources go idle this change will not take affect. Sets the number of VoIP DSP resources to reserve for non-MCU mode 1 video. This program is used if peer-to-peer is disabled for standard SIP phones. VoIP DSP resources are shared between video and voice calls. The system will always keep 64 resources for voice calls. When changing this program if resources are exceeded the system will provide an error message and will not allow the setting to be changed.	0 ~ 8	0
21	**Maximum non-MCU Video Channel Mode 2** Note when changing this PRG all DSP resources are reset when idle. In progress calls are not affected but until all DSP resources go idle this change will not take affect. Sets the number of VoIP DSP resources to reserve for non-MCU mode 2 video. This program is used if peer-to-peer is disabled for standard SIP phones. VoIP DSP resources are shared between video and voice calls. The system will always keep 64 resources for voice calls. When changing this program if resources are exceeded the system will provide an error message and will not allow the setting to be changed.	0 ~ 6	0
22	**Maximum MCU Group Number (Mode 1)** Note when changing this PRG all DSP resources are reset when idle. In progress calls are not affected but until all DSP resources go idle this change will not take affect. This setting reserves VoIP DSP resources for mode 1 video conferences. When a DSP resource is reserved it is not available for SIP voice calls. VoIP DSP resources are shared between video and voice calls. The system will always keep 64 resources for voice calls. When changing this program if resources are exceeded the system will provide an error message and will not allow the setting to be changed.	0 = No MCU video channels reserved. 1 = 4 MCU video Mode 1 channels reserved.	0

Item No.	Item	Input Data	Default
23	**Maximum MCU Group Number (Mode 2)** Note when changing this PRG all DSP resources are reset when idle. In progress calls are not affected but until all DSP resources go idle this change will not take affect. This setting reserves VoIP DSP resources for mode 2 video conferences. When a DSP resource is reserved it is not available for SIP voice calls. VoIP DSP resources are shared between video and voice calls. The system will always keep 64 resources for voice calls. When changing this program if resources are exceeded the system will provide an error message and will not allow the setting to be changed.	0 = No MCU video channels reserved. 1 = 4 MCU video Mode 1 channels reserved.	0

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-28 : DT900/DT800 Multiline Firmware Name Setup

Level: IN

Description

Use **Program 84-28 : DT900/DT800 Multiline Firmware Name Setup** to set the firmware name to download for the IP Phone.

Index 1

Terminal Type	1 = ITL-( )E-1D/IP-( )E-1 2 = ITL-( )D-1D/ITL-24BT1D/ITL-24PA-1D 3 = ITL-320C-1 4 = Not used 5 = ITL-( )DG-3 6 = ITL-( )CG-3 7 = ITL-2CR-1 8 = ITZ-( )D-( )D/ITZ-( )PD-( )D/ITZ-( )pA-( )D/ITZ-( )DG/ITZ-( )LDG/ITZ-( )LD 9 = ITZ-( )CG 10 = ITY-6D 11 = ITY-8LDX 12 = ITK-( )CG 13 = ITK-( )D 14 = ITK-( )LCGX 15 = ITK-( )TCGX (Version 10.00 or higher required for numbers 12~15)

Item No.	Item	Input Data	Default
01	**Firmware Directory**	Maximum 64 characters	No Setting
02	**Firmware File Name**	Maximum 30 characters	No Setting

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-29 : DT900/DT800 CODEC Information Fixed Mode Setup

Level: IN

Description

Use **Program 84-29 : DT900/DT800 CODEC Information Fixed Mode Setup** to set the CODEC data of the DT900/DT800 when it uses Multicast.

Input Data

Type	1 = Type 1 (Multicast) 2 = Type 2 (reserved) 3 = Type 3 (reserved) 4 = Type 4 (reserved) 5 = Type 5 (reserved)

Item No.	Item	Input Data	Default
01	**Audio Capability**	1 = G.711 A-law 2 = G.711 μ-law 3 = G.729 5 = G.722	2
02	**Number of Audio Frames**	1~6 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms 5 = 50ms 6 = 60ms	2
03	**RTP Filter** To avoid incorrect voice pass connection, this Program checks the sending side address from received RTP packet at VoIPDB.	0 = Disable 1 = Enable	1

Conditions

- When using G.711, PRG 84-29-02 only 10ms, 20ms, 30ms and 40ms are used.

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-30 : PVA-CCIS over IP CODEC Setup

Level: IN

Description

Use **Program 84-30 : PVA-CCIS over IP CODEC Setup** to set the CODEC information of the PVA-CCIS over IP.

Input Data

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frames**	1~2 1 = 20ms 2 = 30ms	2
02	**G.711 Type**	0 = A-law 1 = μ-law	1
03	**G.711 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
04	**G.711 Jitter Buffer (min)**	0~160ms	30
05	**G.711 Jitter Buffer (average)**	0~160ms	60
06	**G.711 Jitter Buffer (max)**	0~160ms	120
07	**Number of G.729 Audio Frames**	1~3 1 = 20ms 2 = 30ms 3 = 40ms	2
08	**G.729 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer (min)**	0~500ms	30
10	**G.729 Jitter Buffer (average)**	0~500ms	60
11	**G.729 Jitter Buffer (max)**	0~500ms	120

Input Data (Continued)

Item No.	Item	Input Data	Default
17	**TX Gain**	0~40 (-14dB ~ +14dB) 0 = -20dB 1 = -19dB : 20 = 0dB : 39 = 19dB 40 = 20dB	20
18	**RX Gain**	0~40 (-14dB ~ +14dB) 0 = -20dB 1 = -19dB : 20 = 0dB : 39 = 19dB 40 = 20dB	20
19	**1st Priority of Audio Capability**	0 = G.711_PT 1 = G.723_PT 2 = G.729_PT	0
20	**2nd Priority of Audio Capability**		1
21	**DTMF Relay Mode**	0 = Disable 1 = Inbound (RFC2833) 2 = Outbound (H.245)	0
22	**Jitter Buffer Mode**	1 = Static 2 = Adaptive during silence 3 = Adaptive immediate	2
23	**Voice Activity Detection Threshold**	0~30 (-19dB ~ +10dB) 0 = Self adjustment 1 = -19dB (-49dBm) : 20 = 0dB (-30dBm) : 29 = 9dB (-21dBm) 30 = 10dB (-20dBm)	20
24	**Echo Canceler Mode**	0 = Disable 1 = Enable	1
25	**Echo Canceler NLP Mode**	0 = Disable 1 = Enable	1
26	**LDP Check Sum Mode**	0 = Disable 1 = Enable	1

Conditions

PVA-CCIS CODEC changes require a reset of the GCD-PVAA blade.

Feature Cross Reference

None

Program 84 : Hardware Setup for VoIP

84-31 : VoIPDB Echo Canceler Setup

Level: IN

Description

Use **Program 84-31 : VoIPDB Echo Canceler Setup** to set the IPLE blade parameters.

Input Data

Type	1 = H.323 Trunk 2 = Networking 3 = SIP Trunk 4 = SIP Extension 5 = CCISoIP 6 = NetLink 7 = DT900/DT800

Input Data

Profile	1 ~ 6

Input Data

Item No.	Item	Input Data	Default
01	**TDM Echo Canceler Mode** Select echo Canceler on/off at receiving (TDM) side.	0: Disable 1: Enable	1
02	**TDM Echo Canceler NLP Mode (2W)** Select Echo Compression Mode for remaining echo. Effective when 84-31-01 = 1	0 = Disable 1 = Enable	1
03	**TDM Echo Canceler Comfort Noise Mode** Normally not used. Select comfort noise as background noise. Effective when 84-31-01 = 1	0 = Disable 1 = Enable	1
05	**TDM Echo Canceler Tail Displacement** Normally not used. Effective when 84-31-01 = 1	0~87 (0ms~870ms)	0

Input Data (Continued)

Item No.	Item	Input Data	Default
06	**TDM Echo Canceler Tail Length** Normally not used. Select length of echo. Effective when 84-31-01 = 1	1 = 32ms 2 = 48ms 3 = 64ms 4 = 80ms 5 = 96ms 6 = 112ms 7 = 128ms	7
07	**TDM Echo Canceler Default ERLE Level** Normally not used. Select length of echo. Effective when 84-31-01 = 1	0~6 (-9dB ~ +9dB) 0 = -9dB 1 = -6dB 2 = -3dB : 5 = 6dB 6 = 9dB	5
08	**TDM Echo Canceler Echo Type** Select echo canceler type: 1: Based upon ITU-T G.168 2: Based upon ITU-T G.167 Effective when 84-31-01 = 1	1 = Line Echo Canceler 2 = Acoustic Echo Canceler	1
10	**TDM TX Level Control** Select transmit level control mode.	0 = Disable 1 = TX Control Mode 2 = TX Automatic Level Control Mode 3 = TX HLC (High Level)	3
11	**TDM TX Voice Level Control Mode** Effective when 84-31-10 = 1	0~16 (-24 ~ +24) 0 = -24dB 1 = -21dB : 8 = 0dB : 15 = 21dB 16 = 24dB	8
12	**TDM TX Automatic Level Control Level** Normally not used. Select target gain. Effective when 84-31-10 = 2	0~12 (-42 ~ -6) 0 = -42dB 1 = -39dB : 7 = -21dB : 11 = -9dB 12 = -6dB	7

Input Data (Continued)

Item No.	Item	Input Data	Default
13	**TDM TX HLC Threshold** Select HLC threshold level. Effective when 84-31-10 = 3	0~42 (-42 ~ 0) 0 = -42dBm 1 = -41dBm : 41 = -1dBm 42 = 0dBm	41
14	**TDM TX Gain Compression Mode** Transmit Gain Compression on or off. Effective when 84-31-10 = 3	0 = Disable 1 = Enable	1
15	**TDM TX Gain Compression Threshold** Transmit Gain Compression threshold. Effective when 84-31-14 = 1	0~42 (-42 ~ 0) 0 = -42dBm 1 = -41dBm : 41 = -1dBm 42 = 0dBm	41
16	**TDM RX Level Control** Normally not used. Select receive level control mode.	0 = Disable 1 = RX Level Control Mode 2 = RX Automatic Level Control Flag	0
17	**TDM RX Level Control Level** Normally not used. Select receive voice level. Effective when 84-31-16 = 1	0~16 (-24 ~ +24) 0 = -24dB 1 = -21dB : 8 = 0dB : 15 = 21dB 16 = 24dB	8
18	**TDM RX Automatic Level Control Level** Normally not used. Select target gain. Effective when 84-31-16 = 2	0~12 (-42 ~ -6) 0 = -42dBm 1 = -39dBm : 7 = -21dBm : 11 = -9dBm 12 = -6dBm	7
37	**TDM Echo Canceler NLP Mode (4W)** Select Echo Compression Mode for remaining echo. Effective when 84-31-19 = 1	0 = Disable 1 = Enable	1

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-33 : Fax Over IP Setup

Level: IN

Description

Use **Program 84-33 : Fax Over IP Setup** to set up the parameters of the Fax Over IP function.

Input Data

Type	1 = H.323 Trunk 2 = Networking 3 = SIP Trunk 4 = SIP Extension 5 = CCIS over IP 6 = NetLink

Item No.	Item	Input Data	Default	Profile 1~6
01	**FAX Relay Mode**	0 = Disable 1 = Enable 2 = Each Port Mode	0	
02	**T.38 Protocol Mode**	0 = R/U 1 = U/R 2 = RTP 3 = UDPTL	1	
04	**Jitter Buffer (max)**	0 ~ 300	160	
05	**T.38 RTP Format Payload Number**	96 ~ 127	100	
06	**T.38 Fax Maximum Speed**	0 = V.27ter, 4800bps 1 = V.29, 9600bps 2 = V.17, 14400bps	2	
07	**T.38 Data Error Correction Mode**	0 = Redundancy 1 = FEC	0	
08	**T.38 Error protection depth for Signaling**	0 ~ 2	0	
09	**T.38 Error protection depth for Data**	0 ~ 2	0	
10	**T.38 TCF Method**	1 = VOIPDB 2 = G3FE	1	

Item No.	Item	Input Data	Default	Profile 1~6
11	**T.38 ECM (Error Correction Mode)**	0 = Disable 1 = Enable	1	
12	**FAX CODEC**	1 = G.711 a-law 2 = G.711 u-law 3 = G.726	2	
13	**Payload Size**	1 ~ 4 (10ms base)	2	
14	**Jitter Buffer Mode**	1 = Static 2 = Self adjusting	1	
15	**Minimum Jitter Buffer**	0 ~ 300	80	
16	**Average Jitter Buffer**	0 ~ 300	120	
17	**Maximum Jitter Buffer**	0 ~ 300	160	
18	**FAX RTP Payload Type**	0,2,8,96 ~ 127	103	
19	**FAX over IP Type**	0 = Type 1 1 = Type 2 • When SIP Trunk is used: Type 1 = T.38 Type 2 = Path through • When CCIS is used: Type 1 = SV9100 Original Mode (Select Type 1 Mode when networked between the SV9100 system only. Type 2 = PBX Compatible Mode (Select Type 2 Mode when the PBX (SV9300/SV9500) and SV9100 system are networked. The same system setting is required on the CCIS network.	0	

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-34 : VoIPDB DTMF Setup

Level: IN

Description

Use **Program 84-34 : VoIPDB DTMF Setup** to set up the basic parameters of the DTMF.

Input Data

Type	1 = H.323 Trunk 2 = Networking 3 = SIP Trunk 4 = SIP Extension 5 = CCIS over IP 6 = NetLink

Item No.	Item	Input Data	Default	Profile 1~6
01	**DTFMF Relay Mode**	0 = Disable 1 = RFC2833 2 = H.245	0	
02	**DTMF Payload Number**	96 ~ 127	110	
03	**DTMF Detection Type**	1 ~ 5	1	
04	**DTMF Transmit Type**	1 ~ 5	1	
05	**DTMF Relay (inband) Retransmit Type**	1 ~ 5	1	

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-35 : VoIPDB RFC2833 Playout Setup

Level: IN

Description

Use **Program 84-35 : VoIPDB RFC2833 Playout Setup** to set up the parameters of the DTMF playout of RFC2833 packet reception from the network.

Input Data

Type	1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4 5 = Type 5

Item No.	Item	Input Data	Default
01	**RFC2833 Playout Level**	0 = Depends on RFC2833 1 = Configuration	0
02	**RFC2833 Playout Level High**	1 = -33dBm : 28 = -6dBm	28
03	**RFC2833 Playout Level Low**	1 = -33dBm : 28 = -6dBm	28
04	**RFC2833 Playout Transmit Duration**	0 = Depends on RFC2833 (25 ~ 2000ms)	0
05	**RFC2833 Playout Pause Duration**	0 = Depends on RFC2833 (25 ~ 2000ms)	0

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-36 : VoIPDB DTMF Transmit Setup

Level: IN

Description

Use **Program 84-36 : VoIPDB DTMF Transmit Setup** to set up the DTMF transmit parameters.

Input Data

Type	1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4 5 = Type 5

Item No.	Item	Input Data	Default
01	**DTMF Transmit Level**	1 ~ 61 (-36dB ~ 24dB) 1 = -36dB 2 = -35dB : 37 = 0dB : 60: 23dB 61: 24dB	25 (-12dB)
02	**DTMF Transmit Duration**	30 ~ 2000ms	100
03	**DTMF Transmit Twist Level**	1 ~ 49 (-24dB ~ 24dB) 1 = -24dB 2 = -23dB : 25 = 0dB : 48: 23dB 49: 24dB	25

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-37 : VoIPDB DTMF Detection Setup

Level: IN

Description

Use **Program 84-37 : VoIPDB DTMF Transmit Setup** to set up the DTMF detection parameters.

Index 1

Type	1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4 5 = Type 5

Item No.	Item	Input Data	Default
01	**DTMF Detection Minimum Level**	0 ~ 31 (-40dB ~ -9dB) 0 = -40dB 1 = -39dB 2 = -38dB : 31 = -9dB	2 (-38dB)
02	**DTMF Detect Twist Positive Level**	0 ~ 24dB	5
03	**DTMF Detect Twist Negative Level**	0 ~ 24dB	0
04	**DTMF Detect Minimum Duration**	23 ~ 2000ms	30
05	**DTMF Transmit Twist Level**	0 ~ 9 (-9dB ~ 0dB) 0 = -9dB 1 = -8dB : 6 = -3dB 7 = -2dB 8 = -1dB 9 = 0dB	6 (-3dB)

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-38 : VoIPDB Network Side Echo Canceler Setup

Level: IN

Description

Use **Program 84-38 : VoIPDB Network Side Echo Canceler Setup** to set up the echo canceller parameters.

Input Data

Type	1 = H.323 Trunk 2 = Networking 3 = SIP Trunk 4 = SIP Extension 5 = CCIS over IP 6 = NetLink 7 = DT900/DT800

Item No.	Item	Input Data	Default	Profile 1~6
01	**Echo Canceler Mode**	0 = Disable 1 = Enable	0	
02	**Echo Canceler NLP Mode**	0 = Disable 1 = Enable	0	
03	**Echo Canceler Comfort Noise Mode**	0 = Disable 1 = Enable	1	
04	**--- Not Used ---**			
05	**Echo Canceler Tail Displacement**	0 ~ 87 (0ms ~ 870ms)	0	
06	**Echo Canceler Tail Length**	1 = 32ms 2 = 48ms 3 = 64ms 4 = 80ms 5 = 96ms 6 = 112ms 7 = 128ms	7	

Item No.	Item	Input Data	Default	Profile 1~6
07	**Echo Canceler Default ERL Level**	0 ~ 6 (-9dB ~ 9dB) 0 = -9dB 1 = -6dB 2 = -3dB : 5 = 6dB 6 = 9dB	5	
08	**Echo Canceler Echo Type**	1 = Line E. C. 2 = Acoustic E.C.	1	
09	**--- Not Used ---**			
10	**TX Level Control**	0 = Disable 1 = Manual 2 = Auto 3 = HLC	0	
11	**TX Level Control Level**	0 ~ 16 (-24dB ~ 24dB) 0 = -24dB 1 = -21dB 2 = -18dB : 8 = 0dB : 14 = 18dB 15 = 21dB 16 = 24dB	8	
12	**TX Automatic Level Control Level**	0 ~ 12 (-42dB ~ -6dB) 0 = -42dB 1 = -39dB : 7 = -21dB : 11 = -9dB 12 = -6dB	7	
13	**TX HLC Threshold**	0 ~ 42 (-42dBm ~ -0dBm) 0 = -42dBm 1 = -41dBm : 42 = -0dBm	41	
14	**TX Signal Limiter Mode**	0 = Disable 1 = Enable	0	
15	**TX Signal Limiter Threshold**	0 ~ 42 (-42dBm ~ -0dBm) 0 = -42dBm 1 = -41dBm : 42 = -0dBm	41	

Item No.	Item	Input Data	Default	Profile 1~6
16	**RX Level Control**	0 = Disable 1 = Enable 2 = Auto	0	
17	**RX Level Control Level**	0 ~ 16 (-24dB ~ 24dB) 0 = -24dB 1 = -21dB 2 = -18dB : 8 = 0dB : 14 = 18dB 15 = 21dB 16 = 24dB	8	
18	**RX Automatic Level Control Level**	0 ~ 12 (-42dBm ~ -6dBm) 0 = -42dBm 1 = -39dBm : 7 = -21dBm : 11 = -9dBm 12 = -6dBm	7	

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 84 : Hardware Setup for VoIP

84-39 : SIP Trunk Message Customization

Level:
IN

Description

Use **Program 84-39 : SIP Trunk Message Customization** to observe SIP Trunk information**.** This program is Read Only.

Item No.	Item	Input Data	Default	Profile 1~6
01~99	**Options 1 ~ 99**	0 ~ 255	0	

Conditions
None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 90 : Maintenance Program

90-01 : Installation Date

Level: IN

Description

Use **Program 90-01 : Installation Date** to define the installation date of the system.

Input Data

Item No.	Item	Input Data	Default
01	**Year**	00~99	00 (No Setting)
02	**Month**	01~12	00 (No Setting)
03	**Day**	01~31	00 (No Setting)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-02 : Programming Password Setup

Level: IN

Description

Use **Program 90-02 : Programming Password Setup** to set the system passwords. For password entry, the system allows eight users to be defined. Each user can have a:

- ❑ Unique alphanumeric name (up to 10 alphanumeric characters)
- ❑ Password entry of up to eight digits (using 0~9, **#** and ∗)
- ❑ Password level

The IN level password is used by the System Installer for system programming. The SA or SB level password cannot access the IN level programs. The reverse type (white on black) just beneath the Description heading is the program access level. You can only use the program if your access level meets or exceeds the level the program requires. (SA level password can access to SA or SB programs, and SB level password can access to SB programs only.)

CAUTION

Before changing your numbering plan, use the PC Programming or WebPro Programming to make a backup copy of your system data.

Input Data

User Number	1~8

Item No.	Item	Input Data
01	**User Name**	Maximum 10 characters
02	**Password**	Up to 8 digits
03	**User Level**	0 = Prohibited User 1 = MF (Manufacturer Level) 2 = IN (Installer Level) 3 = SA (System Administrator Level 1) 4 = SB (System Administrator Level 2) 5 = UA (User Programming Level 1)

Default

User No.	User Name	Password	Level	Level Description
1	**necii**	47544	1 (MF)	Manufacturer Level - Access to all system programs.
2	**tech**	12345678	2 (IN)	Installer Level - Access to all IN level programs.
3	**ADMIN1**	0000	3 (SA)	System Administrator Level 1 - Restricted Access
4	**ADMIN2**	9999	4 (SB)	System Administrator Level 2 - More Restricted Access
5	**USER1**	1111	5 (UA)	User Programming Level 1
6	No Setting	No Setting	No Setting	User Programming Level 1
7	No Setting	No Setting	No Setting	User Programming Level 1
8	No Setting	No Setting	No Setting	User Programming Level 1

Conditions

- More than one extension can be in the programming mode.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-03 : Save Data

Level: SA

Description

Use **Program 90-03 : Save Data** to save the programmed data on the USB Flash Drive. This program should be used after changing the programmed data.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Item No.	Item	Input Data
01	**Data Save**	Dial **1** + press **Transfer** (Press **Transfer** to cancel.) In case of saving User data, a USRDTCOMP.DAT file has to be created on the CCPU in advance using PRG11-15-03.
02	**DIM Log Save**	Dial **1** + press **Transfer** to copy DIM log from SD Drive to USB drive.
03	**Save Statistical Information for RTP**	Dial **1** + press **Transfer** to copy RTP Statistical Information file from SD Drive to USB drive.

Conditions

- When reloading a customer database, the system must be reset (either using Program 90-08 or power down/power up) before all uploaded programming takes affect.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-04 : Load Data

Level: SA

Description

Use **Program 90-04 : Load Data** to load the system data from the inserted USB Flash Drive to the Flash ROM in the system.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Item No.	Item	Input Data
01	**Load Data**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel)
02	**LCD External File**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel)
03	**License Data File** Copy license file from USB to SD Card	Dial **1**+ press **Transfer** (Press **Transfer** to cancel)

Conditions

- After uploading the programming, reset the system and wait a few minutes for the system to reset completely before accessing any line or special system feature. Otherwise, some unusual LED indications may be experienced.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-05 : Slot Control

Level: IN

Description

Use **Program 90-05 : Slot Control** to reset or delete (uninstall) blades (slots 1~24).

Delete allows you to completely uninstall the blade. You should do this if you want to remove a blade and plug it into a different slot and still retain the port assignments. If a different type of interface blade is being installed in a slot previously used (e.g., changing from a LCA to a DLCA blade), the slot should be deleted (option 1) first before installing the new interface blade.

Reset allows you to send a reset code.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

NetLink System ID	0 ~ 50 (default = 0)

Input Data

Menu Number	1 = Delete 2 = Reset 3 = Set Busy Out 4 = Reset Busy Out

Item No.	Item	Input Data
01	**Slot Control**	Slot Number (1~24)

Conditions

- When you delete or reset a blade, you must first remove it from its slot then run Program 90-05. When reusing the slot for another blade, you must plug the blade in or reset the system before the system can use the slot again.
- When you delete or reset a blade, all related programming in Program 10-03-01 is set back to default.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-06 : Trunk Control

Level: SA

Description

Use **Program 90-06 : Trunk Control** for trunk maintenance. Busy Out lets you block a blade from placing outgoing calls (just like placing the blade switch down). Once busied out, none of the ports on the blade can be used for new calls. Existing calls, however, are not affected.

NOTE — ***This program is available via telephone programming and WebPro but not through PC Programming.***

Input Data

Menu Number	0 = Set Busy Out 1 = Reset Busy Out (idle)

Item No.	Item	Input Data
01	**Trunk Control**	Trunk Port Number: 001~400

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-07 : Station Control

Level: SA

Description

Use **Program 90-07 : Station Control** for extension maintenance.

NOTE

This program is available only via telephone programming and not through PC Programming.

Input Data

Menu Number	1 = Hardware Reset 2 = Software Reset

Item No.	Item	Input Data
01	**Extension Control**	001 ~ 960

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-08 : System Reset

Level: IN

Description

Use **Program 90-08 : System Reset** to perform a system reset.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Item No.	Item	Input Data
01	**System Reset**	Dial **1** + press **Transfer** (Press **Transfer** key to cancel)

Conditions

After restoring a customer database, the system must be reset using Program 90-08 or by powering down/ powering up before all the restored programming takes affect.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-09 : Automatic System Reset Time Setup

Level: IN

Description

Use **Program 90-09 : Automatic System Reset Time Setup** to define the time for the system to automatically reset.

Input Data

Item No.	Item	Input Data	Default
01	**Month**	00~12 *(Note 1)*	00
02	**Day**	00~31 *(Note 2)*	00
03	**Hour**	00~23	00
04	**Minute**	00~59	00

Note 1 *If the Month is set to 00 and Day is set, the system is automatically reset every month on the predefined day.*

Note 2 *If the Day is set to 00 and the Time (Hour and Minute) is set, the system automatically resets every day at the predefined time.*

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-10 : System Alarm Setup

Level: IN

Description

Use **Program 90-10 : System Alarm Setup** to assign a status to system alarms. You can designate an alarm as Major or Minor. This program also assigns whether or not the alarm information is reported to the predefined destination.

Input Data

Alarm Number	001~100

Item No.	Item	Input Data
01	**Alarm Type**	0 = Not Set 1 = Major Alarm 2 = Minor Alarm
02	**Report**	0 = Not Report (No autodial) 1 = Report (autodial)

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
1	2	0	PKG Initialize Error.	1. The PKG failed to initialize. 2. The PKG did not start normally.	1. PKG not inserted firmly. 2. PKG was removed, but not reinserted firmly. 3. Old PKG data still reported due to no initialization.	1. Insert PKG firmly. 2. Insert PKG firmly. 3. Delete slot information in PRG 90-05 and insert the PKG again.	During initialization, the PKG is recognized.	ERR REC
2	2	0	PKG Mounting Error	The unit did not step on a regular procedure and it was pulled out. Or, it is not normally inserted.	1. The package is not completely inserted. 2. The package is out of order.	1. Insert the package firmly. 2. Try again after initializing the system data once when LED doesn't blink normally. 3. Exchange packages.	When unit is reconfirmed, the error is recovered.	ERR REC

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
3	2	0	Connection fault between GCD-CP10 or GCD-CP20 and other PKGs.	The error occurred when communicating with the package. When the package is broken, it recognizes it as a communication fault.	1. The unit is not completely installed. 2. The power-supply voltage of the system is outside ratings. 3. The equipment that generates the noise in the same power supply system as the power supply origin of the system is connected, and it malfunctions because of the power supply noise. 4. The equipment to which it is adjacent to of a main device, and has put out the radiation noise exists, and it malfunctions because of the radiation noise. 5. The chassis is not properly grounded.	1. Insert the unit firmly. 2. The power-supply voltage must use another power supply when is in the range of ratings or measuring with the voltmeter, and deviating from the rated range. 3. Use the power supply besides the equipment with the possibility of the noise source. 4. Separate as much as possible and use a main device from the equipment by which you seem may generate the radiation noise. 5. Ground the chassis correctly.	When unit is confirmed, the error is recovered.	ERR REC
4	2	0	PKG S/W Download Error	The unit program could not be downloaded normally. The unit could not be started normally.	1. The package software is not stored in the downloaded USB memory. 2. The stored package software is illegal. Package information that was installed before remains.	1. Delete slot information that corresponds by PRG90-05-01 to delete package information that was installed before. 2. There is a possibility that the unit program is broken though an external factor of the noise etc. 3. load into the USB memory and try again when you back up the unit program. 4. Check with maker on uncertain points.	Please exchange units, though it is likely to restore by mounting the unit again. When the unit program is normally downloaded, the error is recovered.	ERR REC
5	1	0	Cooling fan error	The cooling fan does not work normally.	1. The cooling fan has stopped working. 2. The cooling fan has come off.	1. Confirm the cooling fan is turning. 2. Verify the cooling fan mounting.	Replace the cooling fan if it is defective.	

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
6	0	0	Blocking	The link of terminals connected with the ESI package came off.	1. Terminal breakdown. 2 Faulty wiring and wiring termination. 3. External noise. 4. ESI package Breakdown.	1. Confirm the terminal connected with same ESI. If they work normally, confirm the breakdown or the wiring for the terminal. 2. Exchange the terminal that doesn't work and the working terminal, and confirm it's working. An external factor of the noise etc. is thought. 3. Confirm wiring and the installation,etc. 4.Check with manufacturer if the problem occurs again.	The error is recovered when connecting or exchanging it.	ERR REC
7	1	0	Power failure	The supply of the commercial power stopped.	1. The power cable came off. 2. Power failure 3. The power supply broke down.	1. Confirm the power supply outlet when the commercial power has not stopped. 2. Check with the manufacturer if the problem occurs again.	When the commercial power is restored, the error is recovered.	ERR REC
8	1	0	RAM Backup Battery Error	RAM backup battery on the GCD-CP10 or GCD-CP20 blade is unplugged or defective.		Check the battery connector. If it is connected correctly, replace the battery.	The error is recovered once the battery is replaced.	ERR REC
9	--- **Reserved** ---							
10	0	0	ISDN Link Error	Layer1 link of ISDN lines came off.	1. Check connection between main device and ISDN line. 2. DSU breakdown 3. The setting of PRG10-03 does not correspond to an actual line.	1. Confirm the data of PRG10-03. 2. Confirm wiring and installation of DSU. 3. Check with the manufacturer if the problem occurs again.	When the connection returns normally, the error is recovered.	ERR REC
11	0	0	CTI Link Error	The link with the CTI server came off.	1. LAN cable defective. 2. Connected HUB broken. 3. The CTI server doesn't start normally.	1. Confirm the CTI server, wiring, and the connection. 2. Check with manufacturer if the problem occurs again.	When the connection returns normally, the error is recovered.	ERR REC
12	0	0	MIS Link Error	The link with MIS client PC came off.	1. LAN cable defective. 2. Connected HUB broken. 3. The CTI server doesn't start normally.	1. Confirm MIS client PC and connected part. 2. Check with manufacturer if the problem occurs again.	When the connection returns normally, the error is recovered.	ERR REC

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
13	0	0	Charge Management Link Error	The link with the charge management device came off.	1. Wiring problem in connecting main device with charge management device. 2. PC Problem.	1. Confirm that there is no problem in wiring to connect a main device with the charge management device. (Whether ping passes for LAN connection is confirmed.) 2. Restart the charge management software. 3. Reboot PC, and start charge management software.	When the connection returns normally, the error is recovered.	ERR REC
14	0	0	LAN Link Error	The link with LAN on GCD-CP10 or GCD-CP20 came off.	1. LAN cable defective. 2. Connected HUB broken. 3. Defective GCD-CP10 or GCD-CP20.	Confirm the operation of LAN connector, LAN cable, and HUB again.	When the connection returns normally, the error is recovered.	ERR REC
15	0	0	Network Keep Alive	1. The network connection has been cut. 2. Network Keep Alive restoration. 3. Response notification on network Keep Alive.	1. LAN cable is defective. 2. Net side trouble. 3. Packet blocked by firewall. 4. Repetition of IP address.	1. Confirm that the defect is on the Network side. 2. Confirm the settings of HUB and the router, etc.	When the connection returns normally, the error is recovered.	ERR REC WAR
16	--- **Reserved** ---							
17	1	0	Denial of Service	The system received an illegal packet.	Service outage (DOS)	Confirm that the defect is on the Network side.		WAR
18~21	--- **Reserved** ---							
22	1	0	Line Load Control (Low)	System is restricting outgoing call.	System loading rate is beyond the threshold setting in PRG-73-XX.	Please check the following items if the alarm occurs frequently. 1. Confirm call traffic. 2.Confirm network side trouble. For example, System received to many illegal packets.	If the system load factor becomes smaller than the value in PRG 90-73-06, the alarm will go into recover status.	ERR REC
23	0	0	Line Load Control (High)	System is restricting outgoing and incoming calls.	System loading rate is beyond the threshold setting in PRG-73-XX.	Please check the following items if the alarm occurs frequently. 1. Confirm call traffic. 2.Confirm network side trouble. For example, System received to many illegal packets.	If the system load factor becomes smaller than the value in PRG 90-73-06, the alarm will go into recover status.	ERR REC
24	1	0	Voice Mail Time Slot Re-sync	Re-sync the Voice Mail timeslot.	Memory bus congestion has occurred	Nothing special needs to be done.	None	WAR
25	1	1	DSP Resource Busy	You make CO call but there is no vacancy in Telephony Resource.		Check PRG 10-09 (DTMF, Dial Tone Detection Setup.		WAR

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
26			TSP (Telephony Service Provider) Compatibility Error	GCD-4/8LCF GCD-4/8LCG J8 jumper switch setup is incorrectly.	J8 Jumper switch is set to the LL side. J8 jumper switch can only set the following pkg on the LL side: GCD-4LCF	Set the J8 jumper switch to the SL side.	After a reset the LC becomes usable.	ERR
27	1	0	LCF Jumper Switch Position Error	GCD-4/8LCF GCD-4/8LCG GCD-4/8LCG J8 jumper switch setup is incorrectly.	J8 jumper switch can set only the following PKG to the LL side. GCD-4LCF	J8 jumper switch is set to the SL side.	LC becomes usable after PKG reset.	ERR
28	--- **Reserved** ---							
29	0	0	Charge Management Buffer full	The temporary buffer for the charge management in main device overflowed, and a part of unoutput charge data disappeared because it could not output the charge management data.	1. The charge data is printed and not deleted at the simple charge management. 2. The charge data is not output to PC for the charge management software.	1. Print and delete the charge data at the simple charge management. 2. Connect the charge management software for the charge management software and output the charge data.	When the output is restarted, the error is recovered. However, the charge management data after the error occurs is not recorded.	ERR REC
30	2	0	SMDR Buffer full	The temporary buffer for SMDR in main device overflowed, and a part of unoutput SMDR data disappeared because it could not output SMDR data.	1. Problem of wiring to connect main device with PC. 2. PC Problem.	1. Confirm whether there is problem in wiring to connect a main device with PC. 2. Execute the reactivation of PC.	When the output is restarted, the error is recovered. However, the SMDR data after the error occurs is not recorded.	ERR REC
31	1	0	Auto Dial after Sensor Detection	Auto dialing occurs after sensor detection.	Sensor detect an abnormality and makes an emergency call.	No action needed.		
32	1	0	Remote watch function performs auto dial.	Remote watch function performs auto dial.		No action needed/		
33	1	0	Fail to auto dial by security function.	Fail to auto dial by security function.	All auto dial trunks are busy.	No action needed.		
34	--- **Reserved** ---							

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
35	0	0	CS Blocking	The link of the CSIU and CS came off.	1. Outgoing noise. 2. Method of setting up CS. 3. Wiring to connect CSIU unit with CS. 4. Hard defect of CS. 5. Hard defect of CSIU.	Confirm the following when it happens frequently during operation. 1 Confirm CS is normally connected. 2. Confirm the wiring between CSIU-CS is normal. 3. Exchange CS. 4. Exchange CSIU.	The error is recovered when reconnecting or exchanging it.	ERR REC
36	0	0	CS error notification 1	CS detected the problem occurring in the air synchronous signal between CS-CSIU, BBIC reset was executed, and it was restored automatically.	1. Outgoing noise. 2. Method of setting up CS. 3. Wiring to connect CSIU unit with CS. 4. Hard defect of CS. 5. Hard defect of CSIU.	Confirm the following when it happens frequently during operation. 1. Confirm CS is normally connected. 2. Confirm the wiring between CSIU-CS is normal. 3. Exchange CS. 4. Exchange CSIU.	This error has been recovered when it is notified.	ERR REC
37	0	0	CS transmission error.	Because CS had not returned the response to the control signal from a main device longer than the fixed time, it was restored automatically specifying reset to concerned CS with a main device.	1. Outgoing noise. 2. Method of setting up CS. 3. Wiring to connect CSIU unit with CS. 4. Hard defect of CS. 5. Hard defect of CSIU.	Confirm the following when it happens frequently during operation. 1. Confirm CS is normally connected. 2. Confirm the wiring between CSIU-CS is normal. 3. Exchange CS. 4. Exchange CSIU.	This error has been recovered when it is notified.	ERR REC
38	0	0	CSIU Dch Error×	It was restored automatically specifying reset to concerned CS with a main device because a main device had detected the control signal from a main device not normally reaching CS.	1. Outgoing noise. 2. Method of setting up CS. 3. Wiring to connect CSIU unit with CS. 4. Hard defect of CS. 5. Hard defect of CSIU.	Confirm the following when it happens frequently during operation. 1. Confirm CS is normally connected. 2. Confirm the wiring between CSIU-CS is normal. 3. Exchange CS. 4. Exchange CSIU.	This error has been recovered when it is notified.	ERR REC
39	0	0	CSIU transmission error.	This alarm is integrated into Communication fault between the GCD-CP10 or GCD-CP20 and other PKG, and it is not used in SV9100.				

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
40	0	0	CS error notification 2.	CS detected the factor that the noise is generated between CS-PS, BBIC reset was executed, and it was restored automatically.	1. Outgoing noise. 2. Method of setting up CS. 3. Wiring to connect CSIU unit with CS. 4. Hard defect of CS. 5. Hard defect of CSIU.	Confirm the following when it happens frequently during operation. 1. Confirm CS is normally connected. 2. Confirm the wiring between CSIU-CS is normal. 3. Exchange CS. 4. Exchange CSIU.	This error has been recovered when it is notified.	ERR REC
41	1	0	License Name File Load Error	Cannot show License name, because system failed to load license name file with system boot.	License Name File is broken or format is invalid.	Execute PRG 90-04-03 after copying valid license name file to SD card again.	Canceled after valid license name file is loaded.	ERR REC
42~45	--- **Reserved** ---							
46	1	1	NetLink Configuration Error	xx: System ID of the GCD-CP10 node Parameter: CPU(WU)xx Description: In case of GCD-CP20 waked up as a secondary node and target primary node is GCD-CP10. Parameter: CPU(AT)xx Description: In case a GCD-CP20 is operating as a primary node, then Automatic Integration is run to other primary node of GCD-CP10, then GCD-CP20 try to switch to secondary node. Parameter: CPU(FC)xx Description: In case a GCD-CP20 is operating as a primary node, and technician run a Forced Change to other primary node of GCD-CP10, then GCD-CP20 try to switch to secondary node. Parameter: CPU(FO)xx Description: In case network failure occurs and some of the remaining nodes become primary node, it is depend on priority for each node. If GCD-CP10 priority is higher than GCD-CP20, this alarm will report.	GCD-CP20 tries to operate under GCD-CP10 primary node. However, as a feature limitation, it is limited to operate a GCD-CP20 secondary node under a GCD-CP10 primary node.	Parameter: CPU(WU)xx and CPU()AT)xx Action: Please check PRG51-04-01 whether the IP address of GCD-CP10 is set to primary node position. Parameter: CPU(FC)xx Action: Please check PRG51-08-01 whether the IP address of GCD-CP10 is set to primary node position. Parameter: CPU(FO)xx Action: Please check PRG51-01-02 of the node of GCD-CP10.	PRG51-04-01 PRG51-08-01 PRG51-01-02	WAR
47~48	--- **Reserved** ---							
49	1	0	System Data Access Error	Restrict access to TEL Pro/ Web Pro/PCPro/UserPro	Access by entering wrong ID/Password more than defined number of times in PRG 10-73-02	No action needed.	The error has been recovered when time set in PRG 10-73-03 passed.	ERR REC

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
50	1	0	System Start Notification	The system started.	The system was started.	No action needed.		
51	0	0	System Data change	GCD-CP10 or GCD-CP20 Upgrade is performed or Programming change is made.		No action needed.		
52	0	0	VRS/InMail CF available space	Provide alarm when the available space on the VRS/InMail CF card is getting below threshold.	0 = Not Set, no alarm provided 1 = Major, when the avail. space gets below 3% 2 = Minor, when the avail. space gets below 10%	Have users remove stored messages, or if needed, use InMail Utility to reinitialize CF back to factory default.	This error can be recovered when avail. space on VRS/InMail CF is back above 3% or 10%, depending on alarm level setting.	
53	0	0	--- **Reserved** ---					
54	2	0	License Management Table Full	A new TCP/IP terminal and the DSP board were not able to be added to the application license management table. • The license management table is registering full.	Maximum 512 license information on the TCP/IP terminal is registered, and a new terminal cannot be registered.	Delete license information on an unnecessary TCP/IP terminal with PRG 90-44.		WAR
55	2	0	Regular maintenance exchange notification.	The regular maintenance exchange day has passed.	The regular maintenance exchange day that had been set with PRG 90-51 exceeded it.	Do the maintenance exchanges of pertinent parts, and set the next regular maintenance exchange day with PRG 90-51.	The excess on the regular maintenance exchange day is canceled by changing PRG 90-51 or when the function is invalidated, the error is recovered.	ERR REC
56	--- Reserved ---							
57	2	0	IP Collision Error	Collision(01) indicates the address programmed in 10-12-01 has been duplicated. Collision (02) indicates the address programmed in 10-12-09 has been duplicated. Collision(03) ~ Collision(10) indicates the addresses programmed in 84-26-01 have been duplicated. (03) is GW1 ~ (10) is GW8.	An IP address programmed in either 10-12-01, 10-12-09 or 84-26 is duplicated somewhere on the same segment of the network. The system will check every 5 minutes and is not a programmable increment.	Confirm that the addresses assigned in 10-12-01, 10-12-09, and 86-26 are not duplicated anywhere else on the network.		

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
58	2	0	Failure of Outbound IP Connection	01: Programming session is already active. 02: Not setting of IP Address or Port. 03: Caller ID does not match. 10: Cannot get IP Address. 11: Socket Open Error. 12: Socket Port Setting Error. 13: TCP Session Timeout.				
59	--- Reserved ---							
60	2	0	SIP Registration Error Notification.	1.The registration of the SIP trunk to the SIP server failed. 2.The registration of the SIP trunk to the SIP server failed in the authentication. 3.There is no response from the SIP server to the SIP registration request.	1. The system data setting is wrong. 2. The router setting is wrong. 3. LAN link error. 4. Net side trouble.	1. Confirm the following system data setting -- PRG 10-12, 10-28, 10-29, 10-30, and 10-36. 2.Confirm the setting of routers. 3.Confirm whether abnormality occurs on the net side. 4. Confirm the authentication system data setting. 5. Confirm wiring and the system data setting. Inquire on uncertain points of the maker.	The error is recovered when normally connecting it.	ERR REC
61	0	0	SIP extension trouble information.	1. Failed registration of the SIP extension terminal. 2. The SIP extension terminal DSP was not acquired: • At registration of SIP extension terminal to SV9100. • When you cannot acquire the DSP resource when it is sent.	1. The registered port is used by other extension. 2. The license is insufficient. 3. DSP of VoIPDB not acquired.	1. Confirm wiring and system data setting. 2. Confirm whether each equipment such as access points works normally.		ERR REC
62	--- Reserved ---							
63	0	0	SIP-IP Multiline Terminal trouble information.	1. The trouble occurred in the SIP-MLT relation. 2. The DSP resource could not be acquired at incoming/outgoing. 3. The negotiation with VoIPDB failed.	1. The packet loss occurred on the network or the wiring cutting occurred. 2. DSP of VoIP not acquired.	Confirm whether each equipment such as wirings and HUB is normal.		WAR

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
64	1	0	VoIPDB LAN Link Error.	The link of LAN of VoIPDB came off.	1. LAN cable defective. 2. Connected HUB broken. 3. Defective GCD-CP10 or GCD-CP20.	1. Confirm LAN connector and wiring. 2. Check with maker on uncertain points.	When the connection returns normally, the error is recovered.	ERR REC
65	0	0	VoIPDB trouble information.	When DSP of VoIPDB notifies Error.	GPZ-IPLE defective.	1. Possibility of defective hardware. 2. Check with maker on uncertain points.		WAR
66	2	0	SIP extension License Error.	More than the number of licenses to which the SIP extension terminal was turned on at REGISTER.	Wrong number of licenses.	1. Confirm number of licenses for SIP extension terminals. 2. Check with maker on uncertain points.	When the number of registration of SIP extension terminals falls below the number of licenses.	WAR
67	0	0	DT900/DT800 illegal packet received.	The system received an illegal packet.	A client or network is in an illegal state.	Check with maker on uncertain points.		INF
68	2	0	VoIP DSP All Busy Alarm	1. Provides alert when all DSP resources are being used. 2. Used to troubleshoot or alerting when upgrade is needed.	Not enough DSP resources in system.	Install PZ-VMDB with more DSP resources.		
69	--- Reserved ---							
70	2	0	SIP Stack Reconfig Report					
71	2	0	CID Buffer Threshold	When the number of CID records is over the limit, CID buffer threshold alarm (71) can be reported.				
72	1	0	Video DSP Resource Over	When the DSP resources for video assigned by the PRG setting exceed the range of the VoIPDB channel license assigned to the slot. <the unit starts and operate it>	VoIPDB channel licenses are insufficient. There are more resources setup than are available for videos.	Add a VoIPDB channel license. Change the number of channels in PRG 84-27-20 ~ 84-27-23.	Canceling an excess state recovers an error.	ERR REC
73	2	0	Video DSP Resource Busy	The DSP channel for video could not be obtained when making a video call.	There was no setting for the DSP channel for video to the VoIPDB. There was no free channel in the DSP channel for video in the VoIPDB.	Check the VoIPDB channel license. Check the number of channels in PRG 84-27-20 ~ 84-27-23	None	WAR

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
74	2	0	TLS SIP Error Information	1. License is insufficient 2. Error in CA Certificate. 2. Error in CA Certificate.(PRG 84-14-22) 3. Error in Server Certificate (PRG 10-72-01) 4. Error in Private Key (PRG 10-72-02) 5. Error in Server Authentication a. The cert. not yet valid. b. The cert. has expired. c. Self-signed cert. d. Can't prove server.	1. Encryption license is not installed. 2. Failed to validate CA Certificate. 3. Failed to validate Server Certificate. 4. Failed to validate Private Key. 5. Failed to authenticate Server. a and b. The certificate of PRG 84-14-22 is not yet valid or is expired. or the certificate received from SIP server is not yet valid or is expired. c. The certificate received from SIP server is Self-Signed certificate and same certificate is not set at PRG 84-14-22. d. Can't prove server with using a certificate of PRG 84-14-22			1. ERR/ REC 2. WAR 3. WAR 4. WAR 5. WAR
75	--- Reserved ---							
76	0	0	SIP Server Keep Alive Error	1.The network connection has failed. 2.Network KeepAlive restoration. 3.Response notification on network KeepAlive	• LAN cable is cut. • Trouble has occurred on Network side. • Packet is not reached by firewall. • The same packet is sent repeatedly.	1. Confirm whether the abnormality exists on the net side. 2. Confirm the settings for the HUB, the router, etc. are correct. 3. Verify HUB and router, etc. operate correctly. Confirm it is correctly wired.	When the connection returns normally, the error is recovered.	ERR REC
77	--- Reserved ---							
78	0	0	SIP Deny Table Full	Auto registration of IP Address blacklist has been reached to the limit of table.	The system is under attack.	Check the blacklist registration in PRG 90-82-01 and delete unnecessary records. (Last updated date information in PRG 90-82-02 is useful to judge the records necessary.)	None	WAR

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
79	0	0	SIP Deny Table Reg	The IP Address has been registered in blacklist (PRG 90-82-01) by detecting fraud.	The system is under attack.	There is suspicious of unknown IP Terminal registration. Check the registered IP Address blacklist in PRG 90-82 and search IP terminal IP address. If there is unauthorized registration, remove the cause of fraud.	None	WAR
80	1	0	NetLink start error.	The error occurred when NetLink started.	Defective GCD-CP10 or GCD-CP20.	1. Possibility of defective hardware. 2. Check with maker.		ERR
81	2	0	NetLink call trouble information.	1. The trouble occurred in the NetLink relation. 2. The DSP resource was not acquired at incoming/ outgoing.	GPZ-IPLE DSP not acquired.	1. Confirm wiring and system data settings. 2. Check with maker on uncertain points.		WAR
82	2	0	NetLink Virtual Slot accommod. error.	The trouble occurred with virtual Slot relation. • It exceeded the upper slot accommodation. • It failed to make a virtual slot.	Exceeds slot accommodations in the NetLink system.	1. Confirm upper slot number. 2. Check with maker on uncertain points.		WAR
83	2	0	NetLink Communicati on Error.	1. Communication error occurred on NetLink. 2. Checksum error occurred. 3. Index error occurred.	1. The Router setting is wrong. 2. LAN Link error. 3. Net side error.	1. Confirm LAN connector and wiring. 2. Check with maker on uncertain points.		WAR
84	2	0	NetLink License Error	1. License error occurred on NetLink. 2. Expiration date of the license approaches. 3. License nullified.	1. Approaching expiration date of a temporary license. 2. A temporary license was nullified.	1. Confirm license information. 2. Check with maker on uncertain points.		WAR
85	2	0	NetLink node connection refusal.	The connection of Secondary was refused in NetLink. • SystemID overlaps. • SystemID is illegal. • The license is insufficient. • Memory shortage.	1. System ID Repeated. 2. SystemID is illegal. 3. The number of licenses is wrong. 4. Insufficient system memory.	1. Confirm the setting and license information on SystemID. 2. Check with maker on uncertain points.		WAR
86	2	0	Data base replication fail.	Because the versions of DB is different, replication cannot be executed between Primary and Secondary.	The versions of data bases between Primary and Secondary is different.	1. Confirm the version of data bases of Primary and Secondary using PC PRO. 2. Check with maker on uncertain points.		WAR

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
87	2	0	Data base replication fail.	Because the error occurred in the communication between Primary and Secondary, replication cannot be executed.	LAN link between Primary and Secondary was disconnected.	Confirm LAN link between Primary and Secondary.		WAR
88	2	0	NetLink phase shift.	Operation began as Primary.	Operation began as Primary.	No action is necessary.		INF
89	2	0	NetLink phase shift.	Operation began as Secondary.	Operation began as Secondary.	No action is necessary.		INF
90	2	0	NetLink phase shift.	It shifted to the node search mode.	Shifted to the node search mode.	No action is necessary.		INF
91	2	0	Primary auto-integration.	Primary auto-integration function operated.	Primary auto-integration function operated.	No action is necessary.		INF
92	2	0	Primary compulsion specification.	The Primary compulsion specification function was executed.	Primary compulsion specification function was executed.	No action is necessary.		INF
93	2	0	NetLink node connection detection.	Node connection with NetLink Primary was detected.	Node connection with NetLink Primary was detected.	No action is necessary.		INF
94	2	0	NetLink node secession detection.	Secession of the node detected with NetLink Primary.	Secession of the node detected with NetLink Primary.	No action is necessary.		INF
95	2	0	Data Base replication failure.	Because Secondary is in programming mode, the replication of DB cannot be executed.	Logging in with Secondary in the Web Pro or the PC Pro is possibly the cause.	Log out from Secondary programming mode.		WAR
96	1	0	Data base recovery fail.	Error happened when DataBase recovery operation. Backup/Restore	Lack of resource Memory, protected area, recovery data file corruption are possible reasons for this.	Delete unnecessary file and restore open area, then try operation again.		WAR
97	2	0	DB recovery operation start.	Start Data base recovery operation. Backup/Restore/Delete	Start Data base recovery operation.	No action is necessary.		INF
98	2	0	DB recovery operation finish.	Finish Data Base recovery operation. Backup/Restore/Delete	Finish Data base recovery operation.	No action is necessary.		INF
99	1	0	NetLink configuration error.	The error occurs when the system tries to start NetLink without MEMDB.	PRG51-01-01 is set without PZ-ME50 US.	Install PZ-ME50 US.		WAR
100	1	0	NetLink link error.	This alarm occurs when the primary system cannot communicate with secondary system.	Primary system cannot communicate with Secondary system because of Network error.	Primary system cannot communicate with Secondary system because of Network error.		WAR

Conditions

- The entire terminal that has an Alarm Display setting can be set at PRG90-50-01.
- System Alarm Type is shown despite the setting done at 90-10-01. If multiple Alarm Display Setting is set, only one highest priority alarm will be shown on a LCD Display.
- The priority level (highest -> lowest): Alarm 55 > Alarm 7 > Alarm 5 > Alarm 30 > Alarm 8 > Alarm 52> Alarm 29 > Free Demo License Period.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-11 : System Alarm Report

Level: IN

Description

Use **Program 90-11 : System Alarm Report** to define the details of the system alarm report.

Input Data

Item No.	Item	Input Data	Default
02	**Report Method** When alarm reports are e-mailed, set this option to 1. E-mail address set in PRG 90-11-08.	0 = No Report 1 = E-mail Address	0
03-05	**--- Not Used ---**		
06	**SMTP Host Name** When alarm reports are e-mailed, set the SMTP name (ex: smtp.yourisp.com). Contact your ISP (Internet service provider) for the correct entry if needed.	Up to 255 Characters	No Setting
07	**SMTP Host Port Number** When alarm reports are e-mailed, set the SMTP host port number. Contact your ISP (Internet service provider) for the correct entry if needed.	0~65535	25
08	**To E-mail Address** When alarm reports are e-mailed, set this e-mail address to where the report should be sent.	Up to 255 Characters	No Setting
09	**Reply Address** When alarm reports are e-mailed, set the e-mail address where replies should be e-mailed.	Up to 255 Characters	No Setting
10	**From Address** When alarm reports are e-mailed, set this e-mail address for the station sending the report.	Up to 255 Characters	No Setting
11	**DNS Primary Address** When alarm reports are e-mailed, set the DNS primary address.	0.0.0.0~255.255.255.255	0.0.0.0
12	**DNS Secondary Address** When alarm reports are e-mailed, set the DNS secondary address.	0.0.0.0~255.255.255.255	0.0.0.0

Input Data (Continued)

Item No.	Item	Input Data	Default
13	**Customer Name** When alarm reports are e-mailed, enter a name to identify the particular system.	Up to 255 Characters	No Setting
14	**Change SMTP Client** When enabled the system uses the programs in 47-18-xx for email server integration.	0 = Off 1 = On	0
15	**DIMLOG Notification** When enabled, the system will send an email notification when a system fault occurs and DIMLast/DIMDump files are generated. If PRG 90-11-14 is also enabled the logs files will be attached to the email.	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-12 : System Alarm Output

Level: IN

Description

Use **Program 90-12 : System Alarm Output** to set the options for the alarm report. Define the output port to be used as the output for system alarm report and set the system alarm options. The system can have up to 50 reports.

Input Data

Item No.	Item	Input Data	Default
01	**Port Type** Indicate the type of connection used for the System Alarms.	0 = No Setting 1 = Not Used 2 = Not Used 3 = Not Used 4 = Not Used 5 = USB port on GCD-CP10 or GCD-CP20	0

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-13 : System Information Output

Level: IN

Description

Use **Program 90-13 : System Information Output** to define the output port to be used as the system information output.

NOTE *This program is available only via telephone programming and not through PC Programming.*

Input Data

Item No.	Item	Input Data	Default
01	**Output Port Type** Indicate the type of connection used to print the system information.	0 = No Setting 1~3 = -- Reserved -- 4 = Not used 5 = USB port on GCD-CP10 or GCD-CP20	0
04	**Output Destination System ID**	1~50	–
05	**Output Command**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)	–

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-16 : Main Software Information

Level: IN

Description

Use **Program 90-16 : Main Software Information** to display the main software information on the GCD-CP10 or GCD-CP20. Main software information can also be viewed outside of system programming by pressing **Feature** and the **3** key on any multiline terminal.

Input Data

Item No.	Item	Input Data	Component
01	**Version Number**	at present format is : 1.XX.XX e.g. 1.49.36	ASCII Code (5 Bytes)
02	**Software Release Date**	May 22 2002 17:53:46	ASCII Code (20 Bytes)
03	**Market Information**	0 = Unknown 1 = AU 2 = --reserved-- 3 = EU 4 = US 5 = --reserved-- 6 = GE 7 = JP	4

Conditions

This Program is Read Only.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-17 : Firmware Information

Level: IN

Description

Use **Program 90-17 : Firmware Information** to display the firmware versions of the various system blades.

Input Data

Item No.	Item	Display Data	Data Format
01	DSP Firmware Version No.	00.00.00.00~15.15.15.15	BCD Code (2 Byte)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-19 : Dial Block Release

Level: SA

Description

When the extension number is entered in **Program 90-19 : Dial Block Release**, the extension is released from the Dial Block restriction.

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data
01	**Dial Block Release**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.) Dial Block function on telephone is canceled.

Conditions

None

Feature Cross Reference

➥ **Code Restriction**

Program 90 : Maintenance Program

90-20 : Traffic Report Data Setup

Level: IN

Description

Use **Program 90-20 : Traffic Report Data Setup** to define the details of the traffic report.

Input Data

Item No.	Item	Input Data	Default
01	**Call Traffic Output**	0 = Not Measured 1 = Measure	0
02	**--- Not Used ---**		
03	**All Line Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0
04	**DTMF Receiver Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0
05	**Dial Tone Detector Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0
06	**Caller ID Receiver Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0
07	**Voice Mail Channel All Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0
09	**Attendant Channel All Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0
11	**Security Sensor Dial Record**	0 = Not Recorded 1 = Recorded	0

Conditions

None

Feature Cross Reference

➥ **Traffic Reports**

Program 90 : Maintenance Program

90-21 : Traffic Report Output

Level: IN

Description

Use **Program 90-21 : Traffic Report Output** to define the output port to be used as the traffic report output.

Input Data

Item No.	Item	Input Data	Default
01	**Output Port Type**	0 = No Setting 3 = LAN	0

Conditions

None

Feature Cross Reference

➥ **Traffic Reports**

Program 90 : Maintenance Program

90-23 : Deleting Registration of IP Telephones

Level: IN

Description

Use **Program 90-23 : Deleting Registration of IP Telephones** to delete the registered IP telephone from the system.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Extension Number	001 ~ 960

Item No.	Item	Input Data
01	**Delete IP Telephone** This assignment removes the station number association with the MAC address of the IP station.	Dial **1** + press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

➥ **Voice Over Internet Protocol (VoIP)**

Program 90 : Maintenance Program

90-24 : System Alarm Report Notification Time Setup

Level: IN

Description

Use **Program 90-24 : System Alarm Report Notification Time Setup** to set the date and time for the alarm report to print.

Input Data

Notification Number	1~12

Item No.	Item	Input Data	Defaul t
01	**Month**	00~12	00
02	**Day**	00~31	00
03	**Hour**	00~23	00
04	**Minute**	00~59	00

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-25 : System Alarm Report CC Mail Setup

Level: IN

Description

Use **Program 90-25 : System Alarm Report CC Mail Setup** to define the mail address to send the system alarm report CC Mail setup.

Input Data

CC Number	1~5

Item No.	Item	Input Data	Default
01	**CC Mail Address**	Up to 255 Characters	No Setting

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-26 : Program Access Level Setup

Level: IN

Description

Use **Program 90-26 : Program Access Level Setup** to define the password access level required to change a system program.

Input Data

Program Numbers	1001~9903

Item No.	Item	Input Data	Default
01	**Maintenance Level**	1 = MF Level 2 = IN Level 3 = SA Level 4 = SB Level	Refer to the Level indication for each individual program (located in the upper left corner at the beginning of each program).

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-28 : User Programming Password Setup

Level: IN

Description

Use **Program 90-28 : User Programming Password Setup** to set the password used to enter the user programming mode.

Input Data

Extension Numbers	001 ~ 960

Item No.	Item	Input Data	Default
01	**Password**	Fixed four digits	1111

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-31 : DIM Access over Ethernet

Level: IN

Description

Use **Program 90-31 : DIM Access over Ethernet** to enable DIM (Diagnostic Information Maintenance) access over the LAN, and to define the user name and password. DIM is a maintenance tool used by engineering to extract trace level information.

Item No.	Item	Input Data	Default
01	**Access Enabling**	0 = Disable 1 = Enable	0 (Disable)
02	**Username**	20 characters (alphanumeric)	SV9100
03	**Password**	20 characters (alphanumeric)	12345678

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-34 : Firmware Information

Level: IN

Description

Use **Program 90-34 : Firmware Information** to list the package type and firmware blades installed in the system.

Input Data

Slot No.	1~24

Item No.	Item	Display Data
01	**Pkg Name**	PKG Name
02	**Firmware Version Number**	00.00~0F.FF
03	**VoIPDB Version** Used only for GPZ-IPLE	DEV/PR/REL-00.00 00.00.00.00~ FF.FF.FF.FF
04	**DSP Project Number** Used only for GPZ-IPLE.	00000000~ FFFFFFFF
05	**Vocallo F/W Version** Used only for GPZ-IPLE.	00.00.00.00~ FF.FF.FF.FF
06	**OCT1010ID Version** Used only for GPZ-IPLE.	00.00.00.00~ FF.FF.FF.FF

Conditions

These Programs are Read Only.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-36 : Firmware Update Time Setting

Level:
IN

Description

Use **Program 90-36 : Firmware Update Time Setting** to show the data for the firmware update feature.

NOTE *This program is available with Version 9.00 and lower.*

The following firmware is available to update with this feature:

- main.bin
- Dspdbu.bin
- dsp.bin

Input Data

Item No.	Item	Display Data
01	**Firmware Update Schedule Time**	Year: 0~99
		Month: 0~12
		Day: 00~31
		Hour: 00~23
		Minute: 00~59
02	**Update mode**	0 = Non Active 1 = Activated
03	**Update Report**	256 characters max.

Sample Report

Result	Report Display
Update Success	Update is successful with the Update Time.
Update Fail	Update failed. Drive A (Compact Flash) was not available.
Update Fail	Update failed. The file, main.up, does not exist on drive A.
Update Fail	Update failed. The scheduled time has expired.

Conditions

These Programs are Read Only.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-37 : Set Temporary License

Level: IN

Description

Use **Program 90-37 : Set Temporary License** to set the effective days of the temporary license.

Input Data

Item No.	Item	Input Data	Default
01	**Set Number of Days for Temporary License**	00~10 days 00 = Temporary license is invalid	0

Conditions

- Switch reset is required for changes to take effect.
- This program can only be changed using telephone programming.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-38 : User Programming Data Level Setup

Level: IN

Description

Use **Program 90-38 : User Programming Data Level Setup** sets system data to turn on/off each User Programming Feature

Input Data

Item No.	Item	Input Data	Default	Description
01	**Time Setting**	0 = Off 1 = On	1	
02	**Change of Music On Hold Tone**	0 = Off 1 = On	1	
03	**Automatic Night Service Pattern**	0 = Off 1 = On	1	
04	**Weekly Night Service Switching**	0 = Off 1 = On	1	
05	**Text Data for Night Mode**	0 = Off 1 = On	1	
06	**Holiday Night Service Switching**	0 = Off 1 = On	1	
07	**DISA User ID Setup**	0 = Off 1 = On	1	
08	**Mail Box Setup**	0 = Off 1 = On	1	
09	**Text Messages Setup**	0 = Off 1 = On	1	
10	**Incoming Ring Group Setup**	0 = Off 1 = On	1	
11	**Abbreviated Dial Number and Name**	0 = Off 1 = On	1	
12	**Night-mode Switching Other Group**	0 = Off 1 = On	1	

Input Data (Continued)

Item No.	Item	Input Data	Default	Description
13	**DSS Key Assignment**	0 = Off 1 = On	1	
14	**Doorphone Ringing Assignment**	0 = Off 1 = On	1	
15	**Extension Numbering**	0 = Off 1 = On	1	
16	**Extension Name**	0 = Off 1 = On	1	
17	**Night-mode switching Own Group**	0 = Off 1 = On	1	
18	**Call Forward-Immediate/No Answer/Both Ring**	0 = Off 1 = On	1	
19	**Call Forward-Busy**	0 = Off 1 = On	1	
20	**Trunk Incoming Ring Tone**	0 = Off 1 = On	1	
21	**Internal Incoming Ring Tone** **(PRG 15-02-03)**	0 = Off 1 = On	1	
22	**Display Language Selection** **(PRG 15-02-01)**	0 = Off 1 = On	1	
23	**Toll Restriction Override Password** **(PRG 21-07)**	0 = Off 1 = On	1	
24	**User Programming Password** **(PRG 90-28)**	0 = Off 1 = On	1	
25	**Programmable Function Key** **(PRG 15-07)**	0 = Off 1 = On	1	
26	**Virtual Extension Ring Assignment** **(PRG 15-09)**	0 = Off 1 = On	1	
27	**One Touch Key Assignment** **(PRG15-14)**	0 = Off 1 = On	1	
28	**Trunk Name** **(PRG 14-01)**	0 = Off 1 = On	1	
29	**Automatic Transfer per Trunk** **(PRG 11-10-6,7)**	0 = Off 1 = On	1	

Input Data (Continued)

Item No.	Item	Input Data	Default	Description
30	**SPD Area No.** **(PRG 24-04)**	0 = Off 1 = On	1	
31	**Telephone Data Copy**	0 = Off 1 = On	1	
32	**Dial in Name** **(PRG 22-11-03)**	0 = Off 1 = On	1	
33	**LCD Line Key Name Assignment** **(PRG 15-20)**	0 = Off 1 = On	1	
34	**IntraMail Station Mailbox Options** **(PRG 47-02)**	0 = Off 1 = On	1	
35	**UC User Information Setting** **(PRG 20-57)**	0 = Off 1 = On	1	
36	**Setting the function key for BTH handset**	0 = Off 1 = On	1	
37	**Multi-Device Group Setup** **(PRG 20-63)**	0 = Off 1 = On	1	
38	**Ten Key Backlit Control** **(PRG 15-02-74)**	0 = Off 1 = On	1	

Conditions

Switch reset is required for changes to take effect.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-39 : Virtual Loop Back Port Reset

Level: IN

Description

Use **Program 90-39 : Virtual Loop Back Port Reset** to reset to initial status.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Item No.	Item	Input Data
01	**Virtual Loop Back Reset**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-41 : Server Setting to Update Terminal Local Data

Level: IN

Description

Use **Program 90-41 : Server Setting to Update Terminal Local Data** to define the Primary DNS Server address, the Secondary DNS Server address and the Data Roaming Server address.

NOTE *This program is available only through PC Programming and Web Pro.*

Input Data

Server Information	1~8

Item No.	Item	Input Data	Default
01	**Server Address Type**	0 = IPv4 1 = IPv6 3 = Fully Qualified Domain Name	**0**
02	**Server Address**	IPv4 form (xxx.xxx.xxx.xxx) IPv6 form (xxxx : xxxx : xxxx: xxxx: xxxx)	**–**
03	**Port Number**	0~65535	0
04	**Server Use Protocol**	0 = FTP 1 = TFTP	0
05	**Server Account**	Maximum 32 characters	No setting
06	**Server Password**	Maximum 32 characters	No setting
07	**Remote Directory**	Maximum 255 characters	No setting
08	**File Name**	Maximum 32 characters	No setting

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-42 : DT900/DT800 Multiline Terminal Version Information

Level: IN

Description

Use **Program 90-42 : DT900/DT800 Multiline Terminal Version Information** to set the hardware version and firmware version of the DT900/DT800 MLT Terminal.

Input Data

Terminal Type	1 = ITL-( )E-1D/IP-( )E-1 2 = ITL-( )D-1D/ITL-24BT-1D/ITL-24PA-1D 3 = ITL-320C-1 4 = Not Used 5 = ITL-( )DG-3 6 = ITL-( )CG-3 7 = ITL-2CR-1 8 = ITZ-( )D-( )D/ITZ-( )PD-( )D/ITZ-( )pA-( )D/ITZ-( )DG/ITZ-( )LDG/ITZ-( )LD 9 = ITZ-( )CG 10 = ITY-6D 11 = ITY-8LDX 12 = ITK-( )CG 13 = ITK-( )D 14 = ITK-( )LCGX 15 = ITK-( )TCGX (Version 10.00 or higher required for numbers 12~15)

Item No.	Item	Input Data	Default
01	**Software Version**	00.00.00.00~FF.FF.FF.FF	**00.00.00.00**
02	**Hardware Version**	00.00.00.00~FF.FF.FF.FF	**00.00.00.00**

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-43 : Deleting Terminal License of DT900/DT800

Level: IN

Description

Use **Program 90-43 : Deleting Terminal License of DT900/DT800** to delete the terminal license information delivered to the IP Multiline Terminal.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Extension Number	Up to eight digits

Item No.	Item	Input Data
01	**Delete Terminal License**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-44 : Deleting Terminal License of TCP Interface

Level: IN

Description

Use **Program 90-44 : Deleting Terminal License of TCP Interface** to delete the terminal license information delivered to the terminal with a TCP interface.

NOTE *This program is available only via telephone programming and not through PC Programming.*

Input Data

License Delete Code	000~000~000 – 999~999~999

Item No.	Item	Input Data
01	**Delete Terminal License**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-45 : Temporary Password Change for DT900/DT800

Level: IN

Description

Use **Program 90-45 : Temporary Password Change for DT900/DT800** to change the Temporary Password that is set in the Encryption function.

NOTE — ***This program is available only via telephone programming and WebPro, not through PC Programming.***

Input Data

Item No.	Item	Input Data
01	**Temporary Password Change Request**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-48 : Button Kit Information of Multiline Telephone

Level: IN

Description

Use **Program 90-48 : Button Kit Information of Multiline Telephone** to set the button kit information on a new telephone on the SV9100 system.

Input Data

Extension Number	001 ~ 960 (except virtual extension)

Item No.	Item	Input Data
01	**Button Kit Information of Multiline Telephone**	0 = No Setting 1 = Not Used 2 = Type A for Overseas with Cursor Key 3 = Type B with Cursor Key 4~9 = Not Used 10 = Type A for Overseas without Cursor Key (Retrofit) 11 = Type B without Cursor Key (Retrofit) 12 = Not Used

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-49 : Protection Mode Setup for Multiline Telephone

Level: IN

Description

Use **Program 90-49 : Protection Mode Setup for Multiline Telephone** to set the protection mode of each multiline (IP) telephone.

NOTE *This program is available only via telephone programming and not through PC Programming and Web Pro.*

Input Data

Extension Number	Up to eight digits

Item No.	Item	Input Data
01	**Release Protection Mode**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)
02	**Initialize Protection Password**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-50 : System Alarm Display Setup

Level: IN

Description

Use **Program 90-50 : System Alarm Display Setup** to set the system alarm report display telephone.

Input Data

Index Number	01~50

Item No.	Item	Input Data	Default
01	**System Alarm Display Telephone**	Up to eight digits (Telephone extension number)	No setting

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-51 : Alarm Setup for Maintenance Exchange

Level: IN

Description

Use **Program 90-51 : Alarm Setup for Maintenance Exchange** to set the day for the maintenance exchange of parts that need regular maintenance.

Input Data

System ID	0~50

Index	1~10

Item No.	Item	Input Data	Default
01	**Display Name**	Up to 16 characters	Refer to table
02	**Year**	00~99	00
03	**Month**	01~12	00
04	**Day**	01~31	00

Index	Default
01	Power battery
02	Backup battery
03	Cooling fan
04~10	--- No setting ---

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-52 : System Alarm Save

Level: IN

Description

Use **Program 90-52 : System Alarm Save** for the system alarm output operation.

NOTE — ***This program is available only via telephone programming and not through PC Programming and Web Pro.***

Input Data

Index 1: System ID of Source System	0 ~ 50

Index 2: System ID of Destination System	0 ~ 50

Item No.	Item	Input Data
01	**Save All Alarm Reports**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)
02	**Save New Alarm Reports**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-53 : System Alarm Clear

Level: IN

Description

Use **Program 90-53 : System Alarm Clear** to clear the system alarm.

NOTE — *This program is available only via telephone programming and not through PC Programming.*

Input Data

System ID	0~50

Item No.	Item	Input Data
01	**Clear All Alarm Reports**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-54 : PC/Web Programming

Level: IN

Description

Use **Program 90-54 : PC/Web Programming** sets parameters for PC and Web Programming.

Input Data

Item No.	Item	Input Data	Default
01	**Web Pro TCP Port Number** The port number of TCP of the Web programming of SV9100 is set. The port number of new TCP is not reflected from the Web Pro to the logout of all users of the Web Pro who is logging in the system after data is changed in the setting.	0 ~ 65535	80
02	**PC Pro TCP Port Number** The port number of TCP of the PC programming of SV9100 is set. The port number of new TCP is not reflected from the PC professional to the logout of the user of the PC professional who is logging in the system after data is changed in the setting.	0 ~ 65535	8000
03	**PC/Web Programming setting - Web Programming TCP Port (HTTP)** The port number of TCP of the Web programming (HTTPS) of SV9100 is set. When TCP port is changed, new TCP port is applied after logout of all users logged in to Web Pro.	0 ~ 65535 0 = HTTP access is not available	443
04	**Certificate** The server certificate for HTTPS on the Web Programming and UC Web Application. When set to '0: Use default', the system uses default self-signed certificate. When set to '1: Use uploaded certificate', the system uses an uploaded certificate set on PRG 10-72.	0 = Use default 1 = Use uploaded certificate	0

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-55 : Free License Select

Level:
IN

Description

Use **Program 90-55 : Free License Select** to validate the Free License.

Input Data

Item No.	Item	Input Data	Default
01	**Start Free License**	0 = Stop 1 = Start	0

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-56 : NTP Setup

Level: IN

Description

Use **Program 90-56 : NTP Setup** to set the NTP.

Item No.	Item	Input Data	Default
01	**NTP Synchronize**	0 = No 1 = Yes	0
02	**Server Address** Up to 39 characters.	IPv4 form: xxx.xxx.xxx.xxx or IPv6 form: xxxx.xxxx.xxxx.xxxx or FQDN form	No setting

Conditions

- NTP checks once per hour and timing is every 00 minutes (XX:00).

Feature Cross Reference

None

Program 90 : Maintenance Program

90-57 : Backup Recovery Data

Level: IN

Description

Use **Program 90-57 : Backup Recovery Data** to backup the system data in the flash memory on the GCD-CP10 or GCD-CP20 and to make the recovery data.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Data ID	1~5

Item No.	Item	Input Data
01	**Backup Recovery Data**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-58 : Restore Recovery Data

Level: IN

Description

Use **Program 90-58 : Restore Recovery Data** to select the recovery data stored in the flash memory of the GCD-CP10 or GCD-CP20. After this command is executed, the system restarts automatically.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Data ID	1~5

Item No.	Item	Input Data
01	**Restore Recovery Data**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-59 : Delete Recovery Data

Level: SA

Description

Use **Program 90-59 : Delete Recovery Data** to select and delete the recovery data stored in the flash memory of the GCD-CP10 or GCD-CP20.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Data ID	1~5

Item No.	Item	Input Data
01	**Delete Recovery Data**	Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-60 : T1/ISDN Layer Status Information

Level: IN

Description

Use **Program 90-60 : T1/ISDN Layer Status Information** to display layer status information for T1/PRI/BRI/CD-CCTA packages.

Slot No.	1~24

Item No.	Item	Input Data	Default
01	**Link Status**	– = No link 0 = Link N/A = No card seen in slot	N/A

Conditions

This Program is Read-Only.

Feature Cross Reference

None

Program 90 : Maintenance Program

90-61 : Manual Slot Install

Level: IN

Description

Use **Program 90-61 : Manual Slot Install** to manually install any package. If another package is already assigned, the new package cannot be assigned.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

System ID	1~50

Slot No.	1~24

Item No.	Item	Input Data	Default
01	**Install**	0 = None 1 = Router 2 = PVA-NAT 3 = Server Blade 4 = PVA-DCU	0

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-62 : Security ID Information

Level: IN

Description

Use **Program 90-62 : Security ID Information** to display the security ID of the GCD-CP10 or GCD-CP20.

NOTE *This program is available only via telephone programming and not through PC Programming.*

Input Data

Item No.	Item	Display Data
01	**Security ID**	0~9 and A~F (32 digits or less)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-63 : DT900/DT800 Control

Level:
IN

Description

Use **Program 90-63 : DT900/DT800 Control** to adjust settings of the DT900/DT800.

Input Data

Item No.	Item	Input Data	Default
01	**Priority Timer**	0~255	80

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-64 : SNMP Setup

Level: IN

Description

Use **Program 90-64 : SNMP Setup** to configure the SNMP function.

Input Data

Item No.	Item	Input Data	Default
01	**SNMP**	0 = Disable 1 = Enable	0
02	**Community Name**	Max. 12 characters	Public
03	**Target Host 1**	XX.XX.XX.XX	0.0.0.0
04	**Target Host 2**	XX.XX.XX.XX	0.0.0.0
05	**Target Host 3**	XX.XX.XX.XX	0.0.0.0
06	**Target Host 4**	XX.XX.XX.XX	0.0.0.0
07	**Target Host 5**	XX.XX.XX.XX	0.0.0.0
08	**Domain Name**	Max. 255 characters	None
09	**Trap Set Message** When set to Not Accept, the trap message is sent to the SNMP application for Major and Minor alarms. When set to Accept, trap messages are not sent until the SNMP application makes a request.	0 = Not Accept 1 = Accept	0

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-65 : 1st Party CTI Authentication Password Setup

Level: IN

Description

Use **Program 90-65 : 1st Party CTI Authentication Password Setup** to set the authentication password.

Input Data

Item No.	Item	Input Data	Default
01	**Password** Sets the authentication password when the 1st Party CTI application is connected to the system via a NAT router. If a password is not set, the system does not certify it.	Up to 16 characters	nec-i

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-67 : Backup Data Auto-save Interval Time Set

Level: MF

Description

Use **Program 90-67 : Backup Data Auto-save Interval Time Set** to assign an interval time to save D-RAM data onto SD card. There are several data types recorded into D-RAM, such as Call FWD and DND information for each extension.

NOTE *Version 10.00 or higher required.*

Input Data

Item No.	Item	Input Data	Default
01	**Interval Time**	0 = Do Not Auto-save 1 = 30min 2 = 60min 3 = 90min ... 255 = 127hr 30min	48 (24 hour)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-68 : Side Tone Auto Setup

Level: IN

Description

Use **Program 90-68 : Side Tone Auto Setup** to automatically adjust the analog trunk CODEC Filter settings.

NOTE — ***This program is available only via telephone programming and not through PC Programming.***

Input Data

Item No.	Item	Input Data	Default
01	**Adjustment Start** Related PRGs: 14-01-07 81-07-01 21-01-05 21-01-06 21-06-06 21-05-07	1 ~ 400	No setting
02	**1 Digit Data**	0 ~ 9	0

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-69 : Outbound IP Connection Setup

Level: IN

Description

Use **Program 90-69 : Outbound IP Connection Setup** to set the outbound IP connection information.

Input Data

Item No.	Item	Input Data	Default
01	**Port Number** Assign the port number used for Outbound IP Connection programming.	1~65535	8000
02	**IP Address** Assign the IP Address that the system will use for TCP establishment request to I.E. the IP address of the PC with the waiting PC Programming.	0.0.0.0~255.255.255.255	0.0.0.0
03	**Caller ID** Assign Caller ID number of the system to compare with the received Caller ID.	Maximum of 16 digits (0~9, ✱, #)	None

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-73 : Line Load Control

Level: IN

Description

Use **Program 90-73 : Line Load Control** to set the Line Load Control settings.

Input Data

Item No.	Item	Input Data	Default
01	**Line Load Control**	0 = Off 1 = On	0
02	**CPU Load Factor (Low Level Restriction)**	30~100%	90
03	**Surveillance Seconds (Low Level Restriction)**	1~10%	6
04	**CPU Load Factor (High Level Restriction)**	30~100%	95
05	**Surveillance Seconds (High Level Restriction)**	1~10%	3
06	**CPU Load Factor (High Level Restriction)**	30~100%	50

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-77 : LAN Link Speed Information

Level: IN

Description

Use **Program 90-77 : LAN Link Speed Information** to provide information about the LAN Link Speed & Duplex mode.

Input Data

Item No.	Item	Input Data	Default
01	**LAN Link Speed of CPU** This program shows the speed & duplex mode of CPU LAN Link. (This is a read only program)	0 = No Link 1 = 1Gbps, Full Duplex 2 = 1Gbps, Half Duplex 3 = 100Mbps, Full Duplex 4 = 100Mbps, Half Duplex 5 = 10Mbps, Full Duplex 6 = 10Mbps, Half Duplex	0
02	**LAN Link Speed of VoIP** This program shows the speed & duplex mode of VoIP DB LAN Link. (This is a read only program)	0 = No Link 1 = 1Gbps, Full Duplex 2 = 1Gbps, Half Duplex 3 = 100Mbps, Full Duplex 4 = 100Mbps, Half Duplex 5 = 10Mbps, Full Duplex 6 = 10Mbps, Half Duplex	0

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-78 : FTP Access Setting

Level: IN

Description

Use **Program 90-78 : FTP access Setting** to enable FTP server access and to define the user name and password for the FTP server.

Input Data

Item No.	Item	Input Data	Default
01	**Access Enabling**	0 = Disable 1 = Enable	0
02	**Username**	20 characters (alphanumeric)	No Setting
03	**Password**	20 characters (alphanumeric)	No Setting

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-79 : Software Update Setting

Level: IN

Description

Use **Program 90-79 : Software Update Setting** to assign each parameter used for the Main Software Manual update.

NOTE *Version 10.00 or higher required.*

Input Data

Item No.	Item	Input Data	Default
02	**Software Update Status** This program shows the status for the Software Update. (This is a read only program)	0 = Not Active 1 = Activate (Waiting a re-boot until a time to be specified in PRG 90-79-03)	0
03	**Manual System Update Apply Schedule** This program is set from Web Programming - Firmware Update Screen. (This is a read only program)	Year: 0~99 Month: 0~12 Day: 00~31 Hour: 00~23 Minute: 00~59	No Setting

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-80 : Software Update Log Setting

Level: IN

Description

Use **Program 90-80 : Software Update Log Setting** to view Log data for each software update. A maximum of 100 records of log data is available.

NOTE

Version 10.00 or higher required.

Input Data

Index 1	Table Number	1~100

Item No.	Item	Input Data	Default
01	**Software Update Log Setting** This program shows the update log for the Software update. The system can save a maximum of 100 log data records. If the log data exceeds 100 records, the oldest log data will be erased from the records. Web/PC Programming can be used to view the log data. (This is a read only program)	Maximum 128 characters	0

Listed below is an example of log data.

Update	Log Data Format and Technical Reason
Update Succeeded	Update succeeded. Date and time:yy/mm/dd hh:mm ver xx.xx.xx -> yy.yy.yy
Update failure	Update failed. Failed to create the update executable file(FwUp.complete).Date and Time:yy/mm/dd hh:mm (It will be displayed if creation of ”FwUp.complete” file failed due to SD card failure, insufficient capacity.)
	2nd Boot update failed. 2nd Boot file is broken. Date and time:yy/mm/dd hh:mm ver xx.xx.xx -> yy.yy.yy (It will be displayed if updating of 2nd Boot failed and the main software update succeeded. 2nd Boot file may be broken.)
	Update failed. Failed to create the update Progress file(FwUp.pregress). Date and Time:yy/mm/dd hh:mm (It will be displayed if creation of ”FwUp.progress” file failed due to SD card failure, insufficient capacity.)

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-81 : SIP Access Reject Setting

Level: IN

Description

Use **Program 90-81 : SIP Access Reject Setting** to assign a SIP Access Reject function from an invalid SIP extension.

NOTE *Version 10.00 or higher required.*

Input Data

Item No.	Item	Input Data	Default
01	**Reject Function**	0 = Disable 1 = Enable	0
02	**Maximum Authentication Error Times** If the Rejection Function is set to 1 (Enable), this specifies a maximum authentication error time. If an error is counted more than the set times, the SIP extension's IP address will record to the Reject Table on PGR 90-82.	1~10	3

Conditions

None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-82 : SIP Access Reject Table

Level: IN

Description

Use **Program 90-82 : SIP Access Reject Table** to configure an invalid SIP extension IP address on the table. If the IP address on this table is accessed, the SV9100 will not respond to the SIP IP address.

NOTE *Version 10.00 or higher required.*

Input Data

Item No.	Item	Input Data	Default
01	**IP Address**	0.0.0.0–126.255.255.254 128.0.0.1–191.255.255.254 192.0.0.1–223.255.255.254	0.0.0.0
02	**Day/Time Verification** When a request from a SIP IP address in this table is received, the date and time is automatically saved. This PRG displays the saved data and time for each table number. (This is a read only program)	Year: 0~99 Month: 0~12 Day: 00~31 Hour: 00~23 Minute: 00~59 Second: 00~59 Appearance Format: MM/DD/YY hh:mm:ss	No Setting

Conditions

None

Feature Cross Reference

None

Issue 9.0

Program 92 : Copy Program

92-01 : Copy Program

Level: IN

Description

Use **Program 92-01 : Copy Program** to copy the data for one program to another multiline terminal, port, group, or other number. Refer to the following charts to see which programs can be copied. .

NOTE *This program is available only via telephone programming and not through PC Programming.*

Input Data

Program Number	XX-XX

Item No.	Item	Input Data
01	**Source Number** Enter the extension, trunk, group or other number from which the data is to be copied.	❍ For Trunk Base : Trunk Port Number 1~400 ❍ For Trunk Group Base : Trunk Group Number 1~100 ❍ For Extension Base : Extension Number (up to eight digits) ❍ For Department Group Base : Department Group Number 1~64 1~128 (For Version 10.00 or higher) ❍ For DSS : DSS Console Number 1~32 ❍ For Doorphone: Door Box number 1~8
	Destination Number (From) Enter the first extension, trunk, group or other number to which the information is to be copied.	
	Destination Number (To) Enter the last extension, trunk, group or other number to which the information is to be copied. If the information is being copied only to one extension, trunk, group or other number, enter the information entered in the Destination Number (From) entry.	

The Copy Program is applicable only for the following programs:

Trunk Port Base

Program No.	Program Name	Note
14-01	**Trunk Basic Data Setup**	Copy all data except Trunk Name (Item 01).
14-02	**Analog Trunk Data Setup**	
14-04	**Behind PBX Setup**	
14-08	**Music on Hold Source for Trunks**	
14-09	**Conversation Recording Destination for Trunk**	
20-30	**Timer Class for Trunks**	
21-03	**Trunk Group Routing for Trunks**	
21-12	**ISDN Calling Party Number Setup for Trunk**	
21-21	**Toll Restriction for Trunks**	
21-22	**CO Message Waiting Indication**	
22-02	**Incoming Service Type Setup**	
22-03	**Trunk Ring Tone Setup**	
22-05	**IRG Assignment for Normal Ring Trunk**	
22-08	**Second IRG Setup for Unanswered DIL / IRG**	
31-05	**Incoming Ring Tone Audible on External Speaker**	
81-07	**Analog Trunk CODEC Filter Setup**	

Trunk Group Base

Program No.	Program Name	Note
35-03	**SMDR Port Assignment for Trunk Group**	

Extension Base

Program No.	Program Name	Note
15-01	**Extension Basic Data Setup (include Virtual Extension)**	Copy all data except extension name (Item 01).

Program No.	Program Name	Note
15-02	Multiline Telephone Basic Data Setup	
15-03	Single Line Telephone Basic Data Setup	
15-06	Trunk Access Map for Extension	
15-07	Programmable Function Key	
15-08	Incoming Virtual Extension Ring Tone Setup	
15-09	Virtual Extension Ring Assignment	
15-10	Incoming Virtual Extension Ring Tone Order Setup	
15-11	Virtual Extension Delayed Ring Assignment	
15-12	Conversation Recording Destination for Extension	
15-17	CO Message Waiting Indication	
15-18	Virtual Extension Key Enhancement Options	
15-20	LCD Line Key Name Assignment	
15-25	DESI-less Page Setup	
15-29	Setting of Function Key for BTH Handset	
20-06	Class of Service for Extension	
20-29	Timer Class for Extension	
21-02	Trunk Group Routing for Extensions	
21-04	Toll Restriction Class for Extensions	
21-11	Hotline Assignment	
23-02	Call Pickup Groups	
23-03	Ringing Line Preference	
23-04	Ringing Line Preference for Virtual Extensions	
24-03	Park Group Assignment	
31-02	Internal Paging Group Assignment	
82-14	Handset/Headset Gain for Multiline Telephone	

Department Group Base

Program No.	Program Name	Note
16-01	**Department (Extension) Group Basic Data Setup**	Copy all data except Group Name (Item 01).

DSS Console Base

Program No.	Program Name	Note
30-01	**DSS Console Operation Mode**	
30-03	**DSS Key Assignment**	

Door Box Base

Program No.	Program Name	Note
32-02	**Door Box Ring Assignment**	

Conditions

- Using this program to copy a multiline terminal Programmable Function Keys, copies all keys whether or not they exist on the terminal to which the programming is being copied. This may cause confusion when trying to define a key which is already defined but which does not exist on the terminal (displays as DUPLICATE DATA). It is recommended to either clear these non-existent keys, or copy only from an extension that has the same or fewer number of keys than the extension to which the programming is being copied.

Feature Cross Reference

None

Program 92 : Copy Program

92-02 : Delete All Extension Numbers

Level: IN

Description

Use **Program 92-02 : Delete All Extension Numbers** to delete all extension numbers. However, the extension number of the first port is not deleted.

NOTE

This program is available only via telephone programming and not through PC Programming.

Input Data

Extension No. Delete Yes: 1	[Dial 1] + **Transfer** key (Only press **Transfer** key is canceled)

Conditions

None

Feature Cross Reference

None

Program 92 : Copy Program

92-03 : Copy Program by Port Number

Level: IN

Description

Use **Program 92-03 : Copy Program by Port Number** to copy extension and the data of each outside line.

NOTE

This program is available only via telephone programming and not through PC Programming.

Input Data

Item No.	Item	Input Data
01	**Source Number**	Enter the port number from where the data is to be copied.
02	**Destination Number (From)**	Enter the first port number where the information is to be copied.
03	**Destination Number (To)**	Enter the last port number where the information is to be copied. If the information is to be copied only to one port, enter the information entered in the Destination Number (From) entry.

Conditions

None

Feature Cross Reference

None

Program 92 : Copy Program

92-04 : Extension Data Swap

Level: IN

Description

Use **Program 92-04 : Extension Data Swap** to swap data between two extensions.

NOTE

This program is available only via telephone programming and not through PC Programming.

Input Data

Item No.	Item	Input Data
01	**1st Extension Number**	Up to eight characters.
02	**2nd Extension Number**	

The following table lists Programs that use the Extension Data Swap function.

Program Number	Program Name
11-02	Extension Numbering
12-05	Night Mode Group Assignment for Extensions
13-03	Abbreviated Dial Group Assignment for Extensions
13-06	Station Abbreviated Dial Number and Name
15-01	Extension Basic Data Setup
15-02	Multi-Line Telephone Basic Data Setup
15-03	Single Line Telephone Basic Data Setup
15-06	Trunk Access Map for Extension
15-07	Programmable Function Key
15-08	Incoming Virtual Extension Ring Tone Setup
15-09	Virtual Extension Ring Assignment
15-10	Incoming Virtual Extension Ring Tone Order Setup

Program Number	Program Name
15-11	Virtual Extension Delayed Ring Assignment
15-12	Conversation Recording Destination for Extension
15-13	Loop Key Data
15-14	Programming One-Touch Keys
15-17	CO-Message Waiting Indication
15-18	Virtual Extension Key Enhance Options
15-19	System Telephone book Setup for Extension
15-20	LCD Line Key Name Assignment
15-25	DESI-less Page Setup
16-02	Department Group Assignment for Extensions
20-06	Class of Service for Extension
20-29	Timer Class for Extensions
21-02	Trunk Group Routing for Extension
21-04	Toll Restriction Class for Extension
21-07	Toll Restriction Override Password Setup
21-10	Dial Block Restriction Class per Extensions
21-11	Hotline Assignment
21-13	ISDN Calling Party Number Setup for Extension
21-15	Individual Trunk Group Routing for Extensions
21-18	IP Trunk (H.323) Calling Party Number Setup for Extension
21-19	IP Trunk (SIP) Calling Party Number Setup for Extension
21-20	SIP Trunk Call Discernment Setup for Extension
21-23	Out Going Key Sized Virtual Extension Priority Setup
22-04	Incoming Ring Group Setup
22-06	Normal Incoming Ring Mode
23-02	Call Pickup Group
23-03	Ringing Line Preference
23-04	Ringing Line Preference of Virtual Extension
24-03	Park Hold Group Assignment
24-06	Fixed Call Forward

Program Number	Program Name
24-07	Fixed Call Forward Off-Premise
24-08	Call Forward for Centrex
24-09	Call Forward Split Settings
26-04	ARS Class of Service
26-07	LCR Cost Center Code Table
31-02	Internal Paging Group Assignment
41-02	Agent Extension Assignment for Group
41-17	Login Mode Setup
42-02	Hotel Extension Basic Data Setup
43-33	Print Table for Extension
43-37	Fixed Call Restrict Table Setup
82-14	MLT Handset/Headset Gain Control
90-28	User Programming Password Setup
92-05	Data Swap Password of each Extension Setup

Conditions

None

Feature Cross Reference

None

Program 92 : Copy Program

92-05 : Extension Data Swap Password

Level: IN

Description

Use **Program 92-05 : Extension Data Swap Password** to define the 4-digit password for each extension to allow Extension Data Swap.

Input Data

Extension	1~960

Input Data

Item No.	Item	Input Data	Related Programming
01	**Password** Password required per station when using the station swap feature.	Fixed four digits (No setting at default)	11-15-12

Conditions

None

Feature Cross Reference

None

Program 92 : Copy Program

92-06 : Fill Command

Level: IN

Description

Use **Program 92-06 : Fill Command** to allocate the data of each extension number of each extension group or each table. .

NOTE

This program is available only via telephone programming and not through PC Programming.

Input Data

Program Number	XX-XX

Item No.	Item	Input Data
01	**Source Number**	Each extension port = 1~960 (PRG 11-02) Each virtual extension port = 1~512 (PRG 11-04) Each ACI port number = 1~96 (PRG 11-06) Each extension group = 1~64 or 1~128 (Version 10.00 or higher) (PRG 11-07) Each ACI group = 1~16 (PRG 11-08) Each ACD group = 1~64 (PRG 11-17)
02	**Destination Number (From)**	
03	**Destination Number (To)**	

The following table lists Programs that use the Fill Command function.

Program Number	Program Name
11-02	Extension Numbering
11-04	Virtual Extension Numbering
11-06	ACI Extension Numbering
11-07	Extension (Department) Group Pilot Number
11-08	ACI Group Pilot Number
11-17	ACD Group Pilot Number

Conditions

None

Feature Cross Reference

None

Program 92 : Copy Program

92-07 : Delete Command

Level: IN

Description

Use **Program 92-07 : Delete Command** to delete the data of each extension number of each extension group or each table. .

NOTE *This program is available only via telephone programming and not through PC Programming.*

Input Data

Program Number	XX-XX

Item No.	Item	Input Data
01	**Destination Number (From)**	Each extension port = 1~960 (PRG 11-02) Each virtual extension port = 1~512 (PRG 11-04) Each ACI port number = 1~96 (PRG 11-06) Each extension group = 1~64 or 1~128 (Version 10.00 or higher) (PRG 11-07) Each ACI group = 1~16 (PRG 11-08) Each ACD group = 1~64 (PRG 11-17)
02	**Destination Number (To)**	

The following table lists Programs that use the Delete Command function.

Program Number	Program Name
11-02	Extension Numbering
11-04	Virtual Extension Numbering
11-06	ACI Extension Numbering
11-07	Extension (Department) Group Pilot Number
11-08	ACI Group Pilot Number
11-17	ACD Group Pilot Number

Conditions

None

Feature Cross Reference

None

Program 93: System Information

93-01 : Day/Night Mode Information

Level: IN

Description

Use **Program 93-01 : Day/Night Mode Information** to display day/night mode for night mode service group.

Input Data

Night Mode Service Group	1~ 32 default = 1

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Day/Night Mode** Read only. Indicates current day/night mode per night mode service group.	1 = Mode 1 2 = Mode 2 3 = Mode 3 4 = Mode 4 5 = Mode 5 6 = Mode 6 7 = Mode 7 8 = Mode 8	None	

Conditions

None

Feature Cross Reference

None

Program 93: System Information

93-02 : Trunk Information

Level: IN

Description

Use **Program 93-02 : Trunk Information** to display the setting of each trunk.

Input Data

Trunk No.	001~400

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Automatic Transfer to Transfer** Read only. Indicates Automatic Trunk Transfer setting status.	0 = Disable 1 = Enable	Disable	11-10-06
02	**Trunk Port Disable by Service Code** Read only. Indicates the Trunk Port Disable (Busy Out) status.	0 = Disable 1 = Enable	Disable	11-10-27

Conditions

None

Feature Cross Reference

None

Program 93: System Information

93-03 : Extension Information

Level: IN

Description

Use **Program 93-03 : Extension Information** to display the settings of each extension.

Input Data

Extension	1~960

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Call Forward - All/No Answer/ Both Ring** Read only. Indicates Call Forward - All/No Answer/Both Ring setting status per extension.	0 = Call Forwarding off 1 = Call Forwarding with Both Ringing 2 = Call Forwarding when No Answer 3 = Call Forwarding All Call	None	11-11-01 11-11-03 11-11-04 11-11-05
02	**Call Forwarding Destination for Both Ring, All Call, No Answer** Read only. Indicates Call Forward-All/No Answer/BothRing destination number set per extension.	0-9, *, #, P, R,@ (Up to 24 digits)	None	11-11-01 11-11-03 11-11-04 11-11-05
03	**Call Forward-Busy** Read only. Indicates Call Forward-Busy setting status per extension.	0 = Call Forward-Off 1 = Call Forward-Busy or No Answer 2 = Call Forward-Busy	None	11-11-02 11-11-04
04	**Call Forwarding Busy Destination.** Read only. Indicates Call Forward-Busy destination number set per extension.	0-9, *, #, P, R,@ (Up to 24 digits)	None	11-11-02 11-11-04

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
05	**Call Forwarding – Follow-Me** Read only. Indicates Call Forward-Follow-Me setting status per extension.	0 = Disable 1 = Enable	None	11-11-07
06	**Call Forwarding Follow-Me Destination.** Read only. Indicates Call forwarding follow-me extension number set per extension.	Extension Number (Up to 8 digits)	None	11-11-07
07	**Do Not Disturb** Read only. Indicates DND setting status per extension.	0 = No setting 1 = DND External 2 = DND Intercom 3 = DND Transfer 4 = DND All	None	11-11-08
08	**Message Waiting (Set)** Read only. Indicates extension number which you set Message Waiting.	Extension Number (Up to 8 digits)	None	11-11-09 11-11-10 11-11-11
09	**Message Waiting (Rcv)** Read only. Indicates extension number when left Message Waiting	Extension Number (Up to 8 digits)	None	11-11-09 11-11-10 11-11-11
10	**Alarm Clock 1** Read only. Indicates Alarm Clock 1 setting status.	0 = Disable 1 = Enable	None	11-11-12
11	**Preset time at Alarm 1** Read only. Indicates the time set in Alarm Clock 1.	Time set in Alarm Clock 1. When PRG93-03-10 is "0", [00:00] is indicated.	None	11-11-12
12	**Alarm Clock 2** Read only. Indicates Alarm Clock 2 setting status.	0 = Disable 1 = Enable	None	11-11-12
13	**Preset Time at Alarm 2** Read only. Indicates the time set in Alarm Clock 2.	Time set in Alarm Clock 2. When PRG93-03-12 is "0", [00:00] is indicated.	None	11-11-12

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
14	**Forced Intercom Ring (ICM Call Type)** Read only. Indicates ICM Call Type per extension.	0 = Disable(Voice) 1 = Enable(Signal)	None	11-11-15 11-11-16
15	**BGM** Read only. Indicates BGM setting status per extension.	0 = Disable 1 = Enable	None	11-11-18
16	**Key Touch Tone** Read only. Indicates Key Touch Tone setting status per extension.	0 = Disable 1 = Enable	None	11-11-19
17	**Dial Block** Read only. Indicates Dial Block setting status per extension.	0 = Disable 1 = Enable	None	11-11-33
18	**Repeat Dial** Read only. Indicates Repeat Dial setting status per extension.	0 = Disable 1 = Enable	None	
19	**Headset Mode Switching** Read only. Indicates Headset Mode Switching setting status per extension.	0 = Disable 1 = Enable	None	11-11-65
20	**Headset Ringing Mode Switching** Read only. Indicates Headset Ringing Mode Switching setting status per extension.	0 = Disable 1 = Enable	None	11-11-43

Conditions

None

Feature Cross Reference

None

Program 93: System Information

93-04 : Redial List

Level: IN

Description

Use **Program 93-04 : Redial List** to display the redial list of each extension.

Input Data

Extension	Up to eight digits
Redial List Number	50

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Redial Data** Read only. Indicates the number stored in Outgoing call history.	Dial Data : 1~9, 0, ∗, #, P,R,@ (Up to 24 digits)	None	15-02-13 15-02-39
02	**Name** Read Only. Indicates the name stored in Outgoing call history.	Up to 12 characters	None	15-01-01 13-04-02

Conditions

None

Feature Cross Reference

None

Program 93: System Information

93-05 : Department Group Information

Level: IN

Description

Use **Program 93-05 : Department Group Information** to display the settings of each department group.

Input Data

Department Group	1 ~ 64 1~128 (Version 10.00 or higher)

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Set Automatic transfer at Department Group Call** Read only. Indicates Automatic transfer setting status per Department Group.	0 = Disable 1 = Enable	None	11-11-25
02	**Set Delayed Transfer at Department Group Call** Read only. Indicates Delayed transfer setting status per Department Group.	0 = Disable 1 = Enable	None	11-11-28
03	**Set DND at Department Group Call** Read only. Indicates DND setting status per Department Group.	0 = Disable 1 = Enable	None	11-11-30

Conditions
None

Feature Cross Reference

None

Program 93: System Information

93-06 : IP Address List for 1st Party CTI Connection

Level:
IN

Description

Use **Program 93-06 : IP Address List for 1st Party CTI Connection** to display the settings of each department group.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**IP Address of the 1st Party CTI Client** Read only. Indicates IP Address of 1st Party CTI client.	IP Address: xxx.xxx.xxx.xxx	None	
02	**Availability of 1st Party CTI Connection** Read only. Indicates Availability of 1st Party CTI client connection.	0 = Not Available 1 = Available	None	

Conditions
None

Feature Cross Reference

None

UNIVERGE® SV9100

Programming Manual

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