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UNIVERGE

NEC

UNIVERGE *SV8100*

Programming Manual

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Preface

THIS MANUAL

The Programming Manual provides the technician with all of the necessary information for programming the UNIVERGE SV8100 system.

Programming can be accomplished using a PC or a Multiline Terminal.

SUPPORTING DOCUMENTS

UNIVERGE SV8100 General Description Manual

This Manual provides general information about the system, its features, system configuration and standards. This manual provides an overview of the UNIVERGE SV8100 system and can be used to present information to potential customers.

UNIVERGE SV8100 System Hardware Manual

The System Hardware Manual is provided for the system installer. This manual has detailed instructions for installing the SV8100 chassis, blades, multiline terminals, and optional equipment.

UNIVERGE SV8100 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 SV8100 Networking Manual

This manual provides information on networking the SV8100 using K-CCIS, IP K-CCIS, and NetLink.

UNIVERGE SV8100 PC Programming Manual

This manual provides information on installing and using the application that allows programming the SV8100 system via a computer.

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Introduction

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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
47544	**necii**	1 (MF)	Manufacturer (MF): All programs
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
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 CD-CP00-US 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 Keys for Entering Data

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.
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.

Table 1-1 Keys for Entering Data (Continued)

Keys for Entering Data	
Use this key...	**When you want to...**
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 @ [¥] ^ _ ` {	} Æ ¨ 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

Table 1-2 Keys for Entering Names

Use this keypad digit . . .	When you want to. . .
✳	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 SV8100 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.

```
 _
          Program Mode
 Base    Service   OP1    OP2
```
◯   ◯   ◯   ◯

Pressing the VOLUME ▲ or VOLUME ▼ will scroll between the menus.

```
 _
          Program Mode
 CCIS     Hard   Mtnance
```
◯   ◯   ◯   ◯

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 SV8100 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)	32/64 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	200
Trunk Ports (Total): ❍ Analog Trunks ❍ BRI Trunk Ports ❍ T1/PRI Trunk Ports ❍ E&M Analog Trunk Ports ❍ DID Analog Trunk Ports ❍ VoIP Trunk Ports	200 176 176 200 44 88 200
DID Translation Tables	20
DID Translation Table Entries	2000
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	200
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
	512
	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	256
Virtual Extension Number Range	1~89999999* (*Extension cannot start with 0 or 9)
PGD(2)-U10 ADP	56
ADA (Recording Jack) Adapters	240
UNIVERGE SV8100 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	512
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	0~1999
Speed Dialing Table-Common	1000
ACD	
ACD Groups	64
ACD Agent Extensions	512
ACI	
ACI Groups	16
ACI Ports	96
Automated Attendant	
VRS Message Numbers	1~100
Conference	
Conference Circuits	64 - maximum (32 Parties Per Conference)
Data Communication Interfaces	
APR Software Port Numbers	449~512
APA Adapters	240
APR Adapters	240
CTA or CTU Adapters	32 (Only works with DTH/DTR style telephones)
Department and Pickup Groups	
Department (Extension) Group Numbers	1~64
Call Pickup Group Numbers	1~64
Hotline	
Internal Hotline	512
External Hotline	512

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
External Page Group Numbers	0, 1~8
External Speakers 　❍　CD-CP00-US( )-U10 　❍　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	128 (Note 2)

Note 1: The PZ-VM21 supports up to 16 ports and they are shared by the VM8000 InMaill and VRS.
Note 2: The maximum number of VOIP DSP Resources depend on which PZ-IPLA 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
Extension numbers can be one to eight digits long. Refer to the Flexible System Numbering feature in the UNIVERGE SV8100 Features and Specifications Manual.	

Programming the UNIVERGE SV8100

SECTION 1   PROGRAMMING YOUR SYSTEM

The information contained in this chapter provides the information necessary to properly program your UNIVERGE UNIVERGE SV8100 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

Programming the UNIVERGE SV8100

Table 2-1 Programming Modes   (Continued)

Program Number : Program Name
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
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 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 728 to change the time if allowed by an extension Class of Service.

Program

10

Input Data

Item No.	Item	Input Data	Default	Description
01	**Year**	00~99	No Setting	Enter 2 digits for year (00~99).
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.

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

Input Data

For CNF PKG Setup

Physical Port Number	01~16

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~256	0

For DLCA PKG Setup

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 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

Item No.	Item	Input Data	Default
02	**Logical Port Number (B1)**	0 = Not set 1 = Multiline Terminal (1~256) 2 = SLT Adapter (1~256) 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	**--- Not Used ---**		
04	**Optional Installed Unit 1 (Only applies to DTH/ DTR–style telephones)**	0 = None 1 = APR Module 2 = APA Module 3 = ADA Module 4 = CTA/CTU Module	0
05	**Optional Installed Unit 2**	0 = None 1 = APR Module 2 = APA Module 3 = ADA Module 4 = CTA/CTU Module	0

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
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) (193~512)	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	0
11	**Handset Option Information**	0 = No option 1 = PSA/PSD 2 = Bluetooth Cordless Handset	0

For LCA PKG Setup

Physical Port Number	01~16

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~256	0
03	**Transmit Gain Level (S-Level)**	1~63 (-15.5 +15.5dB)	32 (0dB)
04	**Receive Gain Level (R-Level)**	1~63 (-15.5 +15.5dB)	32 (0dB)

For COTA Unit Setup

Physical Port Number	1~8

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~200	0

For ODTA PKG Setup

Physical Port Number	01~04

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~200	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

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 = 1~200 (LD Trunk) 1 = 1~256 (OPX)	0

For BRIA PKG Setup

ISDN Line Number	01~04

Item No	Item	Input Data	Default
01	**ISDN Line Mode**	0 = Not Used 1 = T-Point	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 = For T-Bus (1~200)	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	**--- Not Used ---**		
07	**--- Not Used ---**		
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 network clock. If set to 1, system is not synchronized to the network clock.	0 = Slave System 1 = Master System	0
11	**--- Not Used ---**		
14	**--- Not Used ---**		
15	**--- Not Used ---**		
17	**ISDN Line Ringback Tone** If Telco does not provide ringback tone, SV8100 can if set to 1:Enable.	0 = Disable 1 = Enable	0

Item No	Item	Input Data	Default
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
22	**--- Not Used ---**		
23	**Straight/Cross Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0
24	**--- Not Used ---**		

For PRTA PKG Setup

ISDN Line Number	01~24

Item No.	Item	Input Data	Default
01	**--- Not Used ---**		
02	**Logical Port Number** ✎ *The start port number of a PRI line is displayed.*	1 = for T-Bus 1~200	1
03	**--- Not Used ---**		
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
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 1 = Level 2 2 = Level 3 3 = Level 4 4 = Level 5	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	**--- Not Used ---**		
11	**--- Not Used ---**		
12	**--- Not Used ---**		

Item No.	Item	Input Data	Default
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. Note that there are different values based on the setting in 10-03-12 for the PRI.	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	**--- Not Used ---**		
15	**--- Not Used ---**		
16	**--- Not Used ---**		
17	**ISDN Ringback Tone** If Telco does not provide ringback tone, SV8100 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

Item No.	Item	Input Data	Default
22	**--- Not Used ---**		
23	**Straight/Cross Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0

For DTI (T1) PKG Setup

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.	0~200	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

For IPLA PKG Setup

Physical Port Number	001~128

Item No.	Item	Input Data	Default
01	**Trunk Logical Port Number**	0~200	0
02	**Trunk Type**	0 = H.323 1 = SIP	1
03	**CCIS Trunk**	0 = Not CCIS 1 = CCIS	0

For VM00 PKG Setup

Physical Port Number	01~16

Item No.	Item	Input Data	Default
01	**Logical Port Number**	0~256	0

For CCTA PKG Setup

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.	0~200	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

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 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**	[In case Item 1 is 0] 1 = Download File1 2 = Download File2 3 = Download File3 [In case Item 1 is 1, 2, or 3] 1~100 = VRS Message Number	1	
03	**Audio Gain Setup**	1~63 (-15.5 ~ +15.5dB)	32 (0dB)	

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

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

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** Selects 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 CD-CP00-US for either DTMF receiving or dial tone detection. The CD-CP00-US has 32 circuits initially, and an addition 64 circuits are added when a PZ-BS10 is installed. These are used as follows:

❑   Extension   DTMF receiver for single line telephone

❑   Trunk   DTMF receiver for analog trunks, dial tone & busy tone detection for analog trunks

Input Data

Circuit/Resource Number	01~160

Item No.	Input Data	Default Setting
01	0 = Common Use 1 = Extension Only 2 = Trunk Only	Circuit/Resource 01~08 = 1 (Extensions) Circuit/Resource 09~32 = 2 (Trunks) (Circuit/Resource 33~96 are not used.) Circuit/Resource 97~160 = 0 (Common) When PZ-BS10 is installed, 97~160 are available.

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 : CD-CP00-US Network Setup

Level:
SA

Description

Use **Program 10-12 : CD-CP00-US Network Setup** to setup the IP Address, Subnet-Mask, and Default Gateway addresses.

Caution! If any IP Address or NIC settings are changed, the system must be reset for the changes to take affect.

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 CD-CP00-US.
02	Subnet Mask	128.0.0.0 240.0.0.0 254.0.0.0 255.192.0.0 255.248.0.0 255.255.0.0 255.255.224.0 255.255.252.0 255.255.255.128 255.255.255.240 255.255.255.254	192.0.0.0 248.0.0.0 255.0.0.0 255.224.0.0 255.252.0.0 255.255.128.0 255.255.240.0 255.255.254.0 255.255.255.192 255.255.255.248 255.255.255.255	224.0.0.0 252.0.0.0 255.128.0.0 255.240.0.0 255.254.0.0 255.255.192.0 255.255.248.0 255.255.255.0 255.255.255.224 255.255.255.252	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	0~24 (0 = -12 Hours and 24 = +12 Hours)	+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	0	NIC Auto Negotiate (CD-CP00-US)
06	**Network Address Port Translation (NAPT) Router Setup**	0 = No (Disable) 1 = Yes (Enable)	0	If using an external NAPT Router or not.
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	Sets the IP address on the WAN side of router.
08	**ICMP Redirect**	0= (Enable) 1= (Disable)	0	When receiving ICMP redirect message, this determines if the IP Routing Table updates automatically or not.
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	Set for IPLA.

Input Data (Continued)

Item No.	Item	Input Data			Default	Description
10	**Subnet Mask**	128.0.0.0 240.0.0.0 254.0.0.0 255.192.0.0 255.248.0.0 255.255.0.0 255.255.224.0 255.255.252.0 255.255.255.128 255.255.255.240 255.255.255.254	192.0.0.0 248.0.0.0 255.0.0.0 255.224.0.0 255.252.0.0 255.255.128.0 255.255.240.0 255.255.254.0 255.255.255.192 255.255.255.248 255.255.255.255	224.0.0.0 252.0.0.0 255.128.0.0 255.240.0.0 255.254.0.0 255.255.192.0 255.255.248.0 255.255.255.0 255.255.255.224 255.255.255.252	255.255.0.0	Set for IPLA.
11	**NIC Setup**	0 = Auto Detect 1 = 100Mbps, Full Duplex 2 = 100Mbps, Half Duplex 3 = 10Mbps, Full Duplex 4 = 10Mbps, Half Duplex 5 = 1 Gbps, Full Duplex 6 = 1 Gbps, Half Duplex			0	Set for IPLA.

Conditions

❍   The system must be reset for these changes to take affect.

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 CD-CP00-US blade.

Input Data

Item No.	Item	Input Data	Default	Description
01	**DHCP Server Mode**	0 = Disable 1 = Enable	0	Enable or disable the use of the built-in DHCP Server.
02	**Lease Time**	Days 0~255	0 day	Lease Time of the IP address to a client.
		Hour 0~23	0 hour	✎ *Pressing the Transfer Key increments to the next setting data.*
		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.

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.

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	1~512

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

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 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 IP address of DNS Server.	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 name for the TFTP Server.	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 DT700 Series).	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 DT700 series).	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
		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

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.

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, this is used and sets 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

Input Data

DSP Resource Number	01~128

Input Data

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 4 = Use for NetLink 5 = Blocked	Resource 1 = 1 Resource 2~128 = 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 =	ACD MIS
	3 =	Not Used
	4 =	Networking System
	5 =	SMDR Output
	6 =	DIM Output
	7 =	Reserved
	8 =	Reserved
	9 =	1st Party CTI
	10 =	ACD Agent Control
	11 =	O&M Server
	12 =	Traffic Report Output
	13 =	Room Data Output for Hotel Service

Item No.	Item	Input Data	Default
01	**TCP Port**	0~65535	External Device 1 (CTI Server) = 0 External Device 2 (ACD MIS) = 4000 External Device 5 (SMDR Output) = 0 External Device 6 (DIM Output) = 0 External Device 11 (O&M Server) = 8010 External Device 12 (Traffic Report Output) = 0 External Device 13 (Room Data Output for Hotel Service) = 0
03	**Keep Alive Time**	1~255 (sec)	30

Conditions
None

Feature Cross Reference

None

Program 10 : System Configuration Setup
10-21 : CD-CP00-US Hardware Setup

Level:
IN

Description

Use **Program 10-21 : CD-CP00-US Hardware Setup** to set up various hardware, such as the baud rate of COM port and the switch for control on CD-CP00-US blade.

Input Data

Item No.	Item	Input Data	Default	Related Program
04	**External Source I/O Selection on CD-CP00-US** Determines the external music source input/ output selection for CD-CP00-US CN8 and CN9.	0 = External MOH (CN8)/ External Speaker(CN9) 1 = BGM source (CN8)/ External Speaker(CN9) 2 = External MOH (CN8)/BGM source (CN9) ✎ *Relationships between CN number and Relay number are as follows:* CN8 = Relay2 CN9 = Relay1	1	
05	**General Purpose Relay Switch Selection on CD-CP00-US**	0 = Off 1 = Relay 1 on CD-CP00-US 2 = Relay 2 on CD-CP00-US	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 SV8100 system interconnection.

Input Data

System Number	001~1000

Input Data

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 Procedure Port**	1~65535	1720
04	**Dial Number**	Up to 12 digits (0~9)	None

Conditions
None

Feature Cross Reference

None

Program 10 : System Configuration Setup
10-24 : Daylight Savings Setup

Level:
IN

Description

Use **Program 10-24 : Daylight Savings 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 Savings Mode** Enable (1) or disable (0) the system ability to adjust the time for daylight savings/standard time.	0 = Disable 1 = Enable	1
02	**Time for Daylight Savings** 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 (Continued)

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
10-26 : IP System Operation Setup

Level:

IN

Description

Use **Program 10-26 : IP System Operation Setup** to enable or disable the Peer to Peer feature for SIP MLT and SIP IP stations.

Input Data

Item No.	Item	Input Data	Default
01	**Peer to Peer Mode**	0 = Off 1 = On	1
02	**RTP Forwarding Mode**	0 = Disable 1 = Enable	0
03	**SIP Peer to Peer Mode**	0 = Off 1 = On	1

Conditions

❍ Disabling 10-26-01 will result in SIP MLT Station-to-SIP MLT Station calls utilizing a DSP resource.

❍ SIP-to-SIP MLT Station does not support Peer to Peer function and will result in utilizing a DSP resource.

❍ Disabling 10-26-03 will result in SIP IP Station-to-SIP IP Station calls utilizing a DSP resource.

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
01	**Domain Name** This sets the domain name of the SIP-URL.	Up to 64 Characters (ex.:UserID@HostName.DomainName)	None
02	**Host Name** This sets the host name of the SIP-URL.	Up to 48 Characters (ex.:UserID@HostName.DomainName)	None
03	**Transport Protocol** This sets the protocol for the connection.	0 = UDP 1 = TCP	0
04	**UserID** User ID in the SIP Invite Setup message. It is also used for outbound caller ID information if no information is assigned in commands 21-17, 21-19, 15-16, 14-12, and 10-36. A call can not be completed across the span if there is no outbound CID info at all. The reason for this is: the "from" and "display" portion of the invite message would be blank, and it would not know where the call originated from.	Up to 32 Characters When assigning the User ID, the ID may contain only alpha characters. (A space and/or special characters are not allowed in the User ID field). (ex.:UserID@HostName.DomainName)	None

Input Data

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
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, we will send back a busy unless you build a hunt group. To build the hunt group, it references command 14-12-02 (pilot register ID). This then points you to command 10-36-02. All the numbers with the same pilot would be 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.

✎   *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 SV8100 still checks the settings in the remaining 10-29 programs.*

Input Data

Item No.	Item	Input Data	Default
01	**Default Proxy (Outbound)** This sets whether 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. This sets whether the SIP message is always received through the Default Proxy.	0 = Off 1 = On	0
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

Input Data

Item No.	Item	Input Data	Default
04	**Default Proxy Port Number** The port number of the Default Proxy is set.	0 ~ 65535	5060
05	**Registrar Mode** The mode registered in the registration server is set.	0 = None 1 = Manual	0
06	**Registrar IP Address** IP address of the SIP registration server is set.	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 Number** The port number of the SIP registration server is set.	0 ~ 65535	5060
08	**DNS Server Mode** This setting determines if the DNS server is used.	0 = Off 1 = On	0
09	**DNS Server IP Address** If 10-29-08 is 1, this is effective. This sets the IP address of the DNS 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
10	**DNS Port Number** If 10-29-08 is 1, this is effective. This sets the port number of the DNS server.	0 ~ 65535	53
11	**Registrar Domain Name** This sets the domain name of the registration server.	Up to 128 Characters	None
12	**Domain Name** This specifies the domain name of the SIP server.	Up to 64 Characters	None
13	**Proxy Host Name** This specifies the host name of the SIP server.	Up to 48 Characters	None

Input Data

Item No.	Item	Input Data	Default
14	**SIP Carrier Choice** This selects the carrier type of the SIP server.	0 ~ 7 0 = Standard 1 = Carrier A 2 = Carrier B 3 = Carrier C 4 = Carrier D 5 = Carrier E 6 = Carrier F 7 = Carrier G	0
15	**Registration Expiry (Expire) Time** This sets 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
17	**DNS Source Port** (10-29-08 must be On) This sets the DNS source port number.	0~65535	53

Conditions
None

Feature Cross Reference

None

Program 10 : System Configuration Setup
10-30 : SIP Authentication Information Setup

Level:
IN

Description

Use **Program 10-30 : SIP Authentication Information Setup** to set the authentication options for SIP trunks.

Input Data

Item No.	Item	Input Data	Default
02	**User Name** This sets the user name of the SIP trunk.	Up to 64 Characters	None
03	**Password** This sets the SIP trunk password.	Up to 32 Characters	None
04	**Authentication Trial** This is how many times it will try an authenticate before timing out and not registering.	0 ~ 9	1

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 timer expires, the UA's are forced to reregister with the CPU. This allows the CPU to keep a current location of the entire end UA's.	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 also the SIP phone must have the same password. When using Authentication, the station number is the authorization name.	0 = Disable 1 = Enable	0
03	**Registrar/Proxy Domain Name** This sets the domain name of the SIP proxy.	Up to 64 Characters	None

Input Data

04	**Registrar/Proxy Host Name** This sets the domain name of the SIP proxy.	Up to 48 Characters	None

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	1~31

Input Data

Item No.	Item	Input Data	Default
01	**Registration** This setting determines if the SIP trunk information is registered.	0 = Disable 1 = Enable	0
02	**User ID** This sets the SIP trunk User ID.	Up to 32 Characters	None
03	**Authentication User ID** This sets the SIP trunk Authentication User ID.	Up to 64 Characters	None
04	**Authentication Password** This sets 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	Related Program
01	**BGM Resource Type**	0 = CD-CP00-US (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

10-40 : IP Trunk Availability

Level:
IN

Description

Use **Program 10-40 : IP Trunk Availability** to enable or disable the ability to use SIP trunks and assign the number of ports if IP Trunk is enabled.

Input Data

Slot Number	1

Input Data

Item No.	Item	Input Data	Default
01	**IP Trunk Availability**	0 = Disable 1 = Enable	0
02	**Number of Ports**	0~128	0
04	**Number of IP CCIS Ports**	0~128	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**	0~168	0
03	**Logical Station Port Number**	0~480	0
04	**Layer 3 Timer Type**	1~5	1
05	**Calling Party Number**	0 = No 1 = Yes	1
06	**--- Not Used ---**		
07	**--- Not Used ---**		

Conditions
None

Feature Cross Reference

None

Program 10 : System Configuration Setup

10-45 : IP Routing Table Setup

Level:

IN

Description

Use **Program 10-45 : IP Routing Table Setup** to set up the IP Routing Table.

Input Data

Routing Table Number	001~100

Input Data

Item No.	Item	Input Data			Default
01	**Network Address**	0.0.0.0 ~ 126.255.255.254 128.0.0.0 ~ 191.254.255.254 192.0.0.0 ~ 223.255.255.254			0.0.0.0
02	**Subnet Mask**	128.0.0.0 240.0.0.0 254.0.0.0 255.192.0.0 255.248.0.0 255.255.0.0 255.255.224.0 255.255.252.0 255.255.255.128 255.255.255.240 255.255.255.254	192.0.0.0 248.0.0.0 255.0.0.0 255.224.0.0 255.252.0.0 255.255.128.0 255.255.240.0 255.255.254.0 255.255.255.192 255.255.255.248 255.255.255.255	224.0.0.0 252.0.0.0 255.128.0.0 255.240.0.0 255.254.0.0 255.255.192.0 255.255.248.0 255.255.255.0 255.255.255.224 255.255.255.252	0.0.0.0
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

Conditions
None

Feature Cross Reference

None

Program 10 : System Configuration Setup
10-46 : DT700 Server Information Setup

Level:
IN

Description

Use **Program 10-46 : DT700 Server Information Setup** to setup the information of SIP Multiline (DT700 series) Server.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Register Mode** 0 = Normal mode: When the phone boots up it will report the ext. assigned in the phone or choose the next available extension in the system. No password is required. 1= Auto: If set to Auto then the SIP user name and password must be entered into the actual IP phone. These settings must match 84-22/15-05-27, or the phone will not come on-line. 2 = Manual: When the phone boots up it will prompt user to enter a user id and password before logging in. It checks this user id/password against 84-22/15-05-27. If there is no match, the phone will 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

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 IPLA. This same port number must be assigned in the SIP Multiline terminals. If this command is changed, it requires a CPU reset.	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**	1~512	1	10-46-01
11	**Multicast IP Address** This sets 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	
12	**Multicast Port**	0~65535	30000	

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

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	**License Name**	None
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

License Code	License Name	Reset Required	Min	Max	Note
0001	712 Port	Yes	On/Off		
0002	NetLink	Yes	1	49	
0007	Hotel/Motel (PMS)	Yes	On/Off		
0008	SMDR		On/Off		
0009	Remote Upgrade	Yes	On		USB Drive required to load software
0014	256 Port	Yes	On/Off		
0021	Main S/W Version	Yes	1	16	
0111	1stPartyCTI Ether		1	128	
0112	3rdPartyCTI Clien	Yes	On/Off		
0123	OAI Interface		On/Off		
1001	VRS		1	16	
1002	InMail		1	8	
1011	InMail Multi Lan		1	20	
1401	UMS Port		1	16	
1402	UMS Fax Port		1	4	
1403	UMS TTS Port		1	6	
1404	UMS Client		1	512	
1406	UMS Multi Languag		1	25	
1407	UMS Hosp. and PMS		On/Off		
1408	UMS Hosp. Languag		1	10	
1409	UMS Amis/ Plus Net		On/Off		
1410	UMS TTS Language		1	10	
2001	ACD		On/Off		
2102	ACD-MIS Basic		On/Off		

Table 2-2 License Information (Continued)

License Code	License Name	Reset Required	Min	Max	Note
2103	ACD-MIS Add.Monit		1	4	
2104	ACD-MIS Agent		1	197	
2105	ACD-MIS XML Manag		1	200	
3000	CA-Basic		On/Off		
3001	CA-256 Station		On/Off		
3002	CA-Up 20 to 256		On/Off		
3003	CA-Network Client		1	999	
3004	CA-AddRemote Site		1	999	
3005	CA-RemoteSiteSoft		1	999	
3006	CA-Traffic Analys		On/Off		
3007	CA-PMS Intergratio		On/Off		
3008	CA-Web Reporting		On/Off		
3009	CA-IPKII CA Migra		On/Off		
3010	CA-IPKII CESMigra		On/Off		
3013	CA-Add Stations		1	256	
5001	IP Trunk		1	128	Limited by IPL Channels
5101	IP Terminal Basic		1	512	Limited by IPL Channels
5111	IP Terminal Advan		1	512	Limited by IPL Channels
5131	IP Megaco Migrati		On/Off		
5301	SoftPhone		1	128	

Table 2-2 License Information (Continued)

License Code	License Name	Reset Required	Min	Max	Note
5303	SoftPhone Enhance		1	128	
5304	Attendant		1	128	
5305	Assistant		1	128	
6000	PVA-CONF Port		1	16	
6101	PVA-IVR Port		1	16	

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

Input Data

Slot Number	01~24

Input Data

Item No.	Item	Input Data	Default
01	**PRI/T1 Selection** Chose 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

Input Data

License Index Number	1~32

Input Data

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

Conditions
None

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

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	172.16.1.100
02	**--- Not Used ---**		
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
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

Input Data

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 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 2-3 System Numbering Default Settings on page 2-75** 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 2-3 System Numbering Default Settings on page 2-75 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.

✎   *Defining codes based on more than 2 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 2-3 System Numbering Default Settings on page 2-75 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 2-3 System Numbering Default Settings on page 2-75 table. The choices are:

Dial Types	Dial Type Description	Related Program
0	--- Not Used ---	
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 ACD) 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 : ACD 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

Dial Types	Dial Type Description	Related Program
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 2-3 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, 9 = Dial Extension Analyze, 0=Not Used				
Dialed	**Number of Digits Required**		**Dial Type**	
	Default	**New**	**Default**	**New**
1X	3		2	
11	0		0	
12	0		0	
13	0		0	
14	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	

Table 2-3 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, 9 = Dial Extension Analyze, 0=Not Used				
Dialed	**Number of Digits Required**		**Dial Type**	
	Default	**New**	**Default**	**New**
27	0		0	
28	0		0	
29	0		0	
20	0		0	
2∗	0		0	
2#	0		0	
3X	4		2	
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	

Table 2-3 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, 9 = Dial Extension Analyze, 0=Not Used				
Dialed	**Number of Digits Required**		**Dial Type**	
	Default	**New**	**Default**	**New**
40	0		0	
4∗	0		0	
4#	0		0	
5X	3		1	
51	0		0	
52	0		0	
53	0		0	
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	

Table 2-3 System Numbering Default Settings (Continued)

Dialed	Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 9 = Dial Extension Analyze, 0=Not Used			
Dialed	**Number of Digits Required**		**Dial Type**	
	Default	**New**	**Default**	**New**
7X	3		1	
71	0		0	
72	0		0	
73	0		0	
74	0		0	
75	0		0	
76	0		0	
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	

Table 2-3 System Numbering Default Settings (Continued)

Dialed	Number of Digits Required		Dial Type	
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 9 = Dial Extension Analyze, 0=Not Used				
	Default	New	Default	New
93	0		0	
94	0		0	
95	0		0	
96	0		0	
97	0		0	
98	0		0	
99	0		0	
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	

Table 2-3 System Numbering Default Settings (Continued)

Dialed	Number of Digits Required		Dial Type	
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Special Trunk Access, 5=Operator Access, 6=Flexible Routing, 9 = Dial Extension Analyze, 0=Not Used				
	Default	New	Default	New
∗6	0		0	
∗7	0		0	
∗8	0		0	
∗9	0		0	
∗0	0		0	
∗∗	0		0	
∗#	0		0	
#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 ~ 512

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
⁊	⁊
512	3513

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	001~256

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
100	3601
≀	≀
256	3757

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 to be 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

Description

Use **Program 11-07 : Department Group Pilot Numbers** to assign pilot numbers 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

Item No.	Extension Group Pilot Number	Description	Related Program
01	**Dial (Up to 8 digits)**	Use this program to 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

❍   No Setting

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

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)	Use this program to 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

Input Data (Continued)

Item No.	Trunk Access Code	Description	Default	Related Program
02	**2nd Trunk Route Access Code**	Use this program to 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
02	**--- Not Used ---**			
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	735	24-04-01
09	**Charging Cost Display by the Supervisor**	MLT	Not Set	
10	**--- Not Used ---**			
11	**Entry Credit for Toll Restriction**	MLT	Not Set	

Input Data

Item No.	Item	Terminals	Default	Related Program
12	**Night Mode Switching for Other Group**	MLT	618	12-xx 20-07-01
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	Not Set	20-07-11
27	**Trunk Port Disable for Outgoing Calls**	MLT, SLT	645	20-07-12
28	**--- Not Used ---**			
29	**--- Not Used ---**			
30	**--- Not Used ---**			
31	**--- Not Used ---**			
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	

Input Data

Item No.	Item	Terminals	Default	Related Program
36	**Change the Guidance Message Number on Voice Mail Auto Attendant**	MLT, SLT	Not Set	
41	**Date Setting**	MLT	Not Set	20-07-30
42	**Maintenance Service**	MLT	Not Set	

✎ *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, SLT	744	
05	**Call Forward – Both Ring**	MLT, SLT	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, SLT	727	20-01-06
13	**Display Language Selection for Multiline Terminal**	MLT	678	15-02

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
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	725	
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** Allows 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	
36	**Toll Restriction Override**	MLT, SLT	663	21-14

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
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	**--- Not Used ---**			
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	

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
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
62	**Headset Ring Volume Adjustment**	MLT	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	

✎   *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 705 (code 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** Activating 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	

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
38	**General Purpose Indication**	MLT	783	15-07-56 15-07-57
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 (InMail and VMS)**	MLT, SLT	**∗**8	
52	**Live Monitoring (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 users dial to Transfer a call to a Conference call.	MLT, SLT	624	20-13-10 20-13-15 20-13-16

Input Data (Continued)

Item No.	Item	Terminals	Default	Related Program
59	**Trunk Drop Operation for SLT**	SLT	No Setting	

✎   *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 ACD)

Level:
IN

Description

Use **Program 11-13 : Service Code Setup (for ACD)** to customize the Service Codes which are used with the Automatic Call Distribution (ACD) 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	**ACD Log In/Log Out (for KTS)**	MLT, SLT	∗5
02	**ACD Log Out (for SLT)**	SLT	655
03	**Set ACD Wrap-Up Time (for SLT)**	SLT	656
04	**Cancel ACD Wrap-Up Time (for SLT)**	SLT	657
05	**Set ACD Off Duty (for SLT)**	SLT	658
06	**Cancel ACD Off Duty (for SLT)**	SLT	659
07	**--- Not Used ---**		
08	**Agent ID Code Login** Allows an AIC Agent to log into a group.	MLT	No Setting
09	**Agent ID Code Logout** Allows an AIC Agent to log out of a group.	MLT	No Setting
10	**ACD Agent Login by Supervisor** Allows an ACD Supervisor to log into a group.	MLT	667
11	**ACD Agent Logout by Supervisor** Allows an ACD Supervisor to log out of a group.	MLT	668

Input Data

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

✎   *MLT = Multiline Terminal*
✎   *SLT = Single Line Telephone*

Conditions
None

Feature Cross Reference

❏   Automatic Call Distribution (ACD)

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 only be used 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

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

✎   *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	**ACD Access in Dial-In Conversion Table**		760	22-04 22-11
03	**Backup Data Save** This option saves the user's soft key settings (extension programmed Call Forwards, DND, etc.). This feature should be used before upgrading the system software.	MLT	＃∗＃9	
04	**--- Not Used ---**			
05	**System Programming Mode, Log-On**	MLT	＃∗＃∗	11-01
06	**Wake on LAN to APSU Unit**	MLT	No Setting	10-22
07	**--- Not Used ---**			
08	**Network Message Lamp Control**		766	

Input Data

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

✎   *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 : ACD Group Pilot Number

Level:
IN

Description

Use **Program 11-17 : ACD Group Pilot Number** to assign the ACD Master Number for each ACD Group. This is the number users dial to transfer calls to the ACD 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 ACD Master Number, first give extension port 025 a different extension assignment.

Input Data

ACD Group Number	01~64

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

Default

○   No ACD Group Pilot Numbers assigned to any ACD Group (1~64).

Conditions
None

Feature Cross Reference

❑   Automatic Call Distribution (ACD)

❑   Multiple Directory Numbers/Call Coverage Keys

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 only relevant 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 = Not used 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	Allows or prevents 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

✎ *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

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	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	Mode 1	Mode 4	Mode 1	Mode 4	Mode 2	Mode 3	
(midnight)	(day)	(rest)	(day)	(rest)	(night)	(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 02 = Monday 03 = Tuesday 04 = Wednesday 05 = Thursday 06 = Friday 07 = Saturday	0~10

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 a assign Day/Night Mode Group for each extension.

Input Data

Extension Number	Up to eight digits

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	001~200

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)

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 Option 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 where the Speed Dial bins will 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 will be used for System Speed Dials.	0~2000 0 = No Common Speed Dialing	1000	13-04

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**	0~1990	0, 9~1999

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	Up to 8 digits

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	0~1999

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)	0	13-04-03

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 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	0~1999

Item No.	Trunk Group 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	0~100

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**	1~20	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	0~100

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	0~100

Item No.	Group Number
01	0~20

Item No.	Item	Input Data	Default	Related Program
01	**Group Name**	Up to 12 characters	1 = Group 01 2 = Group 02 3 = Group 03 . . . 20 = Group 20	

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	0~100

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 chart below for a description of each option, its range and default setting.

Input Data

Trunk Port Number	001~200

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 200	
02	**Transmit Level** Use this option to select the CODEC gain for the trunk. The option sets the gain (signal amplification) for the trunk you are programming.	1~63 (-15.5dB~ +15.5dB in 0.5dB intervals)	32 (0dB)	
03	**Receive Level** Use this option to select the CODEC gain for the trunk. The option sets the gain (signal amplification) for the trunk you are programming.	1~63 (-15.5dB ~ +15.5dB in 0.5dB intervals)	32 (0dB)	

Item No.	Item	Input Data	Default	Related Program
04	**Transmit Gain Level for Conference and Transfer Calls** Use this option to select the CODEC gain type used by the trunk when it is part of an Unsupervised Conference.	1~63 (-15.5dB ~ +15.5dB in 0.5dB intervals)	32 (0dB)	
05	**Receive Gain Level for Conference and Transfer Calls** Use this option to select the CODEC gain type used by the trunk when it is part of an Unsupervised Conference.	1~63 (-15.5dB ~ +15.5dB in 0.5dB intervals)	16 (-8dB)	
06	**SMDR Printout** Use this option to have the system 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** Use this option to allow/prevent outgoing calls on the trunk you are programming.	0 = Deny (No) 1 = Allow (Yes)	1	
08	**Toll Restriction** Use this option to enable/disabled 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

Item No.	Item	Input Data	Default	Related Program
09	**Private Line**	0 = Disable Private Line (Normal) 1 = Enable Private Line (Private Line)	0	
10	**DTMF Tones for Outgoing Calls** Use this option to enable (1) or disable (0) 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** Use this option to enable (1) or disable (0) 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** Use this option to enable or 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** Use this option to enable or 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** Use this option to 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** Use this option to enable or 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** Use this option to enable or 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	

Item No.	Item	Input Data	Default	Related Program
20	**Block Outgoing Caller ID** Allow (1) or 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 or 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	**--- Not Used ---**			
24	**Trunk-to-Trunk Outgoing Caller ID through Mode** Enable (1) or Disable (0) the ability to send the original Caller ID through when the call is Forward Off-Premise.	0 = Disable (No) 1 = Enable (Yes)	0	

Item No.	Item	Input Data	Default	Related Program
25	**Continued/ Discontinued Trunk-to-Trunk Conversation** Enable (1) or Disable (0) the ability to dial a service code 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	**Effectivity 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	

Default

Trunk Port Number	Name
1	Line 001
2	Line 002
:	:
200	Line 200

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	001~200

Item No.	Item	Input Data	Default	Related Program
01	**Signaling Type (DP/DTMF)** This option sets the signaling type for the trunk.	0 = Dial Pulse (10 PPS) 1 = Dial Pulse (20 PPS) 2 = DTMF	2	
02	**Ring Detect Type** This option sets 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** This option selects 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** This option lets you 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** Use this option 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

Item No.	Item	Input Data	Default	Related Program
06	**Pause at 1st Digit after Line Seize in Manual Dial Mode**	0 = No Pause (No) 1 = Pause (Yes)	1	21-01-06
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 or disable a trunk to receive Caller ID information.	0 = No 1 = Yes	0	
11	**Next Trunk in Rotary if No Dial Tone** Use this option to 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	

Item No.	Item	Input Data	Default	Related Program
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	
16	**--- Not Used ---**			
17	**Sync. Ringing** Use this to 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	

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	1~200

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	001~200

Item No.	Trunk Group Number	Priority Number
01	0~100	1~200

Default

Trunk Port	Group	Priority
1	1	1
:	:	:
200	1	200

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 users dial 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 Specify 1~100 : (Trunk Group Number) 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 only place outgoing calls on trunks to which it has outgoing access. There are 200 Access Maps with all 200 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.

✎ *911 calls will override Program 14-07 settings.*

Input Data

Access Map Number	001~200

Item No.	Trunk Port Number	Input Data
01	001~200	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 1~200 = Trunk Ports 1~200 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.

✎ *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	001~200

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.

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

Input Data

Trunk Port Number	001~200

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	001~200

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

Conditions

❍ This Data is referred to at 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	001~200

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 Group Number	001 ~ 200

Item No.	Trunk Group Number	Input Data	Default	Related Program
01	001~200	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 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	Maximum eight digits

Item No.	Item	Input Data	Default	Related Program
01	**Extension Name** Define the extension/virtual extension name.	Up to 12 Characters	STA 101 = Ext 101 STA 102 = Ext 102, etc.	
02	**Outgoing Trunk Line Preference** Use this option to 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** Use this option to include or 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 or 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

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	Maximum eight digits

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	1	11-11-13
02	**Trunk Ring Tone** Use this option to set the tone (pitch) of the incoming trunk ring for the extension port you are programming. ✎ *DTU/DTP-style telephones only follow high, medium and low range ring tone settings. They do not follow Melodies.*	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	2	22-03

Item No.	Item	Input Data	Default	Related Program
03	**Extension Ring Tone** Use this option to set the tone (pitch) of the incoming extension call ring for the extension port you are programming. Also refer to Program 15-08. ✎ *DTU/DTP style telephones only follow high, medium and low range ring tone settings. They do not follow Melodies.*	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	8	
04	**Redial (Speed Dial) Control** Use this option to 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** Use this option to 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** Use this option to 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	
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 (0) or Disconnected (1).	0 = Hold 1 = Disconnect (Cut)	1	
08	**Automatic Handsfree** Use this option to 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** Use this option to select between Idle and Ringing Line Preference for trunk calls.	0 = Idle (Off) 1 = Ringing (On)	1	

Item No.	Item	Input Data	Default	Related Program
11	**Callback Automatic Answer** Use this option to enable or 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 will automatically answer the recall when it goes off-hook. If PRG 15-02-11 is disabled, a station will 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** Use this option to 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	**Redial 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	**Handsfree Operation** Enable or disable an extension ability to use the speakerphone on **outside** calls. When disabled, users can hear the conversation, but cannot respond handsfree.	0 = Disable (Off) 1 = Enable (On)	1	
18	**Power-Saving Mode**	0 = Normal mode 1 = Power-Saving Mode (Eco-Mode)	1	20-02-10
19	**CTA Data Communication Mode** Select 0 if the dip switch settings on the CTA Adapter are set to PC connection (1=on, 2~8=off) or select 1 if the DIP switches are set to printer connection (1~2=on, 3~8=off).	0 = CTI Mode 1 = Non Procedural Mode (Non-SCS)	0	15-02-20

Item No.	Item	Input Data	Default	Related Program
20	**Baud Rate for CTA Port** Select the baud rate to be used by the CTA Adapter.	0 = 4800 1 = 9600 2 = 19200	2	15-02-19
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** This option defines 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 Immediate (1), the number is dialed immediately.	0 = Preview 1 = Outgoing Immediately	0	

Item No.	Item	Input Data	Default	Related Program
24	**Conference Key Mode** This option allows an extension Conf key to be programmed for Conference or for Transfer. When set for Transfer (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 Conference (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 (0) or Red (1) 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** This program allows adjustment of the PB Back Tone Level when you are calling an ISDN Line.	1~63 (-15.5dB ~ +15.5dB)	32 (0dB)	
30	**Toll Restriction Class** Select the Toll Restriction Class to be used when placing a call from a virtual extension.	0 = Vir. Ext. (Virtual Extension Class) 1 = Real Ext. (Real Extension Class)	1	

Item No.	Item	Input Data	Default	Related Program
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	
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	7	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	3	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	3	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, **#**, ✱)		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	

Item No.	Item	Input Data	Default	Related Program
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	
44	**Reversing Display Indication** The display on the DT300/DT700 style telephones can be set to Normal (0) or Reversed (1).	0 = Normal Indication 1 = Reversing Indication	0	
45	**Double Height Character Indication** On the DT300/DT700 style phones Name and Number Line (2), Calender Line (1) or No Line (0) set to has double height characters.	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 DT300/DT700 style phones set how long 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 will icons be 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 3~9 = Not Used 10 Type-A without Cursor Key (Retrofit)	0	90-48-01

Table 2-4 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 2-5 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
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.
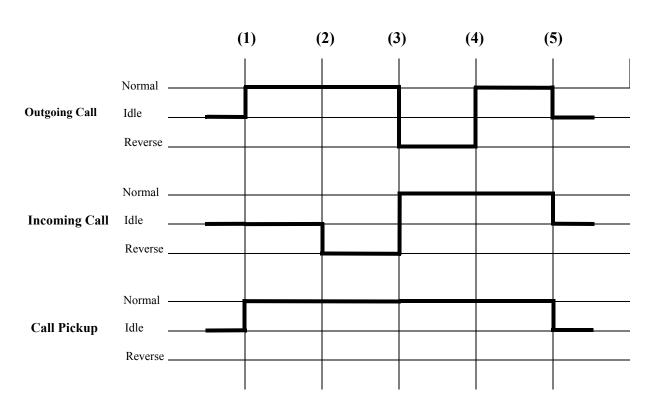
Input Data

Extension Number	Maximum eight digits

Item No	Item	Input Data	Default	Related Program
01	**SLT Signaling Type** Use this option to tell the system the type of dialing the connected telephone uses. For the UNIVERGE SV8100 Wireless telephones to function correctly, this must be set to 0 (dial pulse). If this option is set for DTMF, after an outside call is placed, the system cannot dial any additional digits. This program change is automatically performed when the UNIVERGE SV8100 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	1	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	0	15-03-01 45-01-01
04	**Flashing** Enables/disables 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 (1) or disable (0) 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
11	**Caller ID Type** Determine whether the Caller ID type is FSK or DTMF.	0 = FSK 1 = DTMF	0	
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 15-03-04 is set to Special (1) and not in the VM group.	0 = No 1 = Yes	0	

Item No	Item	Input Data	Default	Related Program
17	**Dial Tone Select** When the function of MW has been set from another extension or VM, the dial tone upon off hook is selected.	0 = Normal 1 = New DT	0	

(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	Maximum eight digits

Item No.	Item	Input Data	Default	Description	Related Program
01	**Terminal Type**	0 = NGT 1 = H.323 2 = SIP 3 = MEGACO 4 = SIP-MLT	0	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 will be 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, will show 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
15	**CODEC Type**	1-Type 1 2-Type 2 3-Type 3 4-Type 4 5-Type 5	1	Assign the CODEC Type of the MLT SIP.	84-24-XX

Item No.	Item	Input Data	Default	Description	Related Program
16	**Authentication Password**	Up to 24 characters	None	Assign the authentication password for SIP single line telephones.	15-05-01
17	**Calling Party Display Info**	0 = Nickname 1 = Display Name 2 = User Part 3 = Extension	0	The part of the Invite message the calling party information is taken from. There are four choices: **Nickname**: Displays the nickname programmed in 15-05-04. **Display Name**: Some SIP phones have a Field called "Display Name". If configured, in the SIP phone, this will display upon a call from that station. **User Part**: Some SIP phones have a field called "User Part". If configured in the SIP phone, this will display upon a call from that station. **Extension**: Display shows extension of the SIP phone.	
18	**IP Duplication Allowed Group**	0 = Not Used 1 = Group 1 2 = Group 2 3 = Group 3 4 = Group 4 5 = Group 5 6 = Group 6 7 = Group 7 8 = Group 8 9 = Group 9 10 = Group 10	0	If there is an adapter that has one IP address coming into it but has multiple extensions off of it. Assign all the extensions to a group so that way the CPU knows that the one IP address is 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 ITH-style 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 ITH-style 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 ITH-style telephone.	10-03-11 15-05-23

Item No.	Item	Input Data	Default	Description	Related Program
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 a ITH-style telephone.	30-01 30-02 30-03 30-04 30-05 30-06
23	**Handset Option Additional Information** Determine to use TEN or not.	0 = No Setting 1~16 = Terminal equipment number (TEN) of Bluetooth Cordless Handset (BCH)	0		
24	**Protection Service**	0 = Not Used 1 = Used	0	When this is enabled it allows the MLT SIP telephones to use the "security" key. If disabled, and the key is pressed, nothing happens.	90-40-01 90-40-02
26	**DT700 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 = AGW	0		
27	**Personal ID Index**	0~512	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** Select whether to inform of additional information or not.	0 = Do not inform 1 = Inform	0		
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	Whether the touch screen used on ITL-320C-1 (BK) TEL can be used (On) or cannot be used (Off).	

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 only place outgoing calls on trunks to which it has outgoing access. Use Program 14-07 to define the available access maps.

Input Data

Extension Number	Maximum eight digits

Day/Night Mode	1~8

Item No.	Trunk Access Map Number	Default	Related Program
01	1~200	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	Maximum eight digits

Default Settings

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

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.

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 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:** Mode active
10	Call Forward – Immediate		**Slow Blink (Red):** Forwarded

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

Function Number	Function	Additional Data	LED Indication
11	Call Forward – Busy		**Slow Blink (Red):** Forwarded
12	Call Forward – No Answer		**Slow Blink (Red):** Forwarded
13	Call Forward – Busy/No Answer		**Slow Blink (Red):** Forwarded
14	Call Forward – Both Ring		**Slow Blink (Red):** 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	Break – In		None
35	Camp On		**Red On:** While camp-on activated

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

Function Number	Function	Additional Data	LED Indication
36	Step Call		None
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:** Transmission cut-off
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		**Slow Blink (Red):** Voice Over – Active
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)	**Blink (Red):** Active
59	Delayed Transfer at Department Group Call	Extension Group Number (01~64)	**Blink (Red):** Active
60	DND at Department Group Call	Extension Group Number (01~64)	**Blink (Red):** Active
61	--- Not Used ---		
63	Outgoing Call Without Caller ID (ISDN)		**Red On:** Active
64	--- Not Used ---		
66	CTI		**Red On:** CTI active
67	--- Not Used ---		
68	Voice Mail Service	0 = Skip 1 = Back Skip 2 = Monitor	2-In case of monitor mode **Slow Blink (Red):** Monitor Setting – Automatic **Red On:** Monitor Setting – Manual
70	Automated Attendant for Extension	Extension Number or Department Group Number	None
71	--- Not Used ---		
72	Keypad Facility Key		
73	Keypad HOLD Key		
74	Keypad RETRIEVE Key		
75	Keypad Conference Key		
76	--- Not Used ---		
77	Voice Mail (In-Skin)	Extension Number or Pilot Number	**Red On:** Access to Voice Mail **Rapid Blink (Green):** New Message
78	Conversation Recording – Voice Mail		**Rapid Blink (Red):** Recording

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

Function Number	Function	Additional Data	LED Indication
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. (001~200)	**Blink (Red):** Active
82	D^{term} IP Call Log		
83	Conversation Recording Function (VMSU)	0 = Pause 1 = Re-recording 2 = Address 3 = Erase 4 = Urgent Page	
84	Drop Key	None	
85	Directory Dialing		
86	Private Call Refuse	None	**Blink (Red):** Active
87	Caller ID Refuse	None	**Blink (Red):** Active
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
89	Do-Not-Call Setup		
90	Do-Not-Call Data Registration		
91	Live Recording Key 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

Function Number List (Continued)
[1] Normal Function Code (00 ~ 99) (Service Code 751)
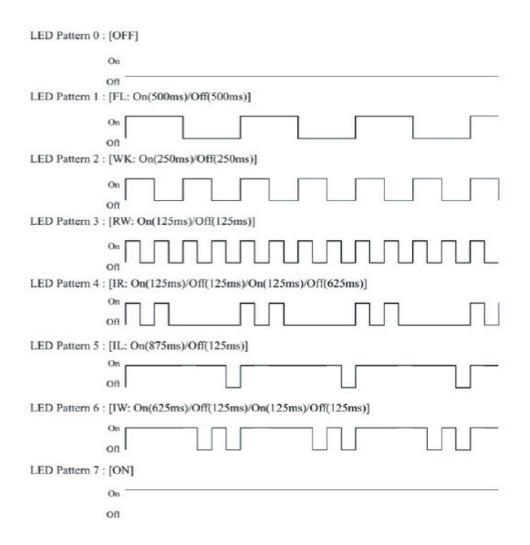
Function Number	Function	Additional Data	LED Indication
97	Door Box Access Key	Door Box Number (1~8)	On: Door Box Busy Off: Door Box Idle Fast flash: Door Box Incoming
98~99	--- Not Used ---		

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 (001~200)	**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
✱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

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

✳13	ACD Off Duty Mode		**Red On:** Under Off Duty **Slow Blink (Red):** Under Reservation
✳14	ACD Start/End		**Red On:** ACD Operation End
✳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	ACD Group Number	**Red On:** Enable **Slow Blink (Red):** Disable
✳19	ACD Queue Status Display Check		

LED Pattern 0 : [OFF]

On
Off

LED Pattern 1 : [FL: On(500ms)/Off(500ms)]

On
Off

LED Pattern 2 : [WK: On(250ms)/Off(250ms)]

On
Off

LED Pattern 3 : [RW: On(125ms)/Off(125ms)]

On
Off

LED Pattern 4 : [IR: On(125ms)/Off(125ms)/On(125ms)/Off(625ms)]

On
Off

LED Pattern 5 : [IL: On(875ms)/Off(125ms)]

On
Off

LED Pattern 6 : [IW: On(625ms)/Off(125ms)/On(125ms)/Off(125ms)]

On
Off

LED Pattern 7 : [ON]

On
Off

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, that key 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

❑   Refer to 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 256 available extension ports.

Input Data

Extension Number	Maximum eight digits

Item No.	Incoming Ring Pattern	Default	Description
01	0 = Tone Pattern 1 1 = Tone Pattern 2 2 = Tone Pattern 3 3 = Tone Pattern 4 4 = Incoming Ring Tone Extension	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 ACD CAR keys, only tone pattern 1 (entry 0) can be used. The remaining patterns are not checked with this feature.

Table 2-6 Program 15-08 – Incoming Signal Frequency Patterns

Incoming Signal Frequency Pattern	Type	Frequency 1	Frequency 2	Modulation
Pattern 1	High Middle Low	1100 660 520	1400 760 660	16Hz 16Hz 16Hz
Pattern 2	High Middle Low	1100 660 520	1400 760 660	8Hz 8Hz 8Hz
Pattern 3	High Middle Low	2000 1400 1100	760 660 540	16Hz 16Hz 16Hz
Pattern 4	High Middle Low	2000 1400 1100	760 660 540	8Hz 8Hz 8Hz
Internal Incoming Signal Frequency	High Middle Low	1100 660 520	1400 760 660	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 256 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 256 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	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

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)
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 256 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	Maximum eight digits

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.

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

Input Data

Extension Number	Maximum eight digits

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
15-14 : 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 SV8100 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	Maximum eight digits

Key Number	01~10

Item No.	Dial Data	Name	Default
01	1~0, $*$, #, Pause, Hook-flash, @ (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	Maximum eight digits

Item No.	Item	Input Data	Default
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	Up to eight digits

Trunk Port Number	001~200

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	Up to eight digits

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	

Default Settings

❍ If a DIL rings a Virtual Extension, the Virtual Extension Key Operation Mode must be set to **1**, or the multiline terminal must have a CAP Key.

Conditions
None

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	Up to eight digits

Item No.	Item	Input Data	Default	Related Program
01	**Telephone Book 1**	0~100	Port 1 : 1 Port 2 : 2 : : Port 100 : 100	
02	**Telephone Book 2**	0~100	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 SV8100 telephones and ADM option. Up to 13 characters can be assigned.

Input Data

Extension Number	Up to 8 digits

Key Number	01~48

Name Assignment	Up to 13 characters

Default Settings

Line Key	Name
LK01	CO 001
:	:
LK06	CO 006
LK07	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	Up to eight digits

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.	0~1999 (0 = No setting/1~1999 = 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 (0) or Individual (1) 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

Conditions
None

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 Department Groups.

Input Data

Department Group Number	1~64

Item No.	Item	Input Data	Default	Related Program
01	**Department Name**	Maximum 12 characters	No setting	11-07
02	**Department Calling Cycle** Use this option to 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)** Use this option to 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

Item No.	Item	Input Data	Default	Related Program
04	**Hunting Mode** Use this option to 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	
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	**--- Not Used ---**			
09	**Department Hunting No Answer Time** Set how long 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 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	Maximum 8 digits

Item No.	Group Number	Priority	Default	Description	Related Program
01	1~64	1~999	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~ 256. Virtual extension ports are 1~256.)*

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 a Department Group. There are 64 available Department Groups.

Input Data

Department (Extension) Group Number	01~64

Item No.	Secondary Extension Number	Extension Number	Priority Order	Description
01	1~16	Maximum 8 digits	0~999	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 on a per group basis. 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

Restricted Group Index	1~8

Restrict Department Group Number	Description	Default
0~64	Calls between members of different Department (Station) groups can be restricted on a per group basis.	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	Use this program to 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	Use this program to select the mode when calling the telephone which set up the text message.	11-11-14 15-07-08
04	--- Not Used ---				
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 interval. The system releases the receiver after the interval 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 amount of 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 (84600sec = 1 day)	900	The system automatically logs out of a Telephone/Web Pro session after inactivity lasting this time.	

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
02	**Trunk Group Access Key Operating Mode** Use this option to 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) or 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	
05	**Headset Busy Mode** Set the conditions under which a headset extension is busy to incoming callers.	0 = No (Disable) 1 = Yes (Enable)	0	20-09-07
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	

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Programming
09	**Disconnect Supervision** Use this option to enable or 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** Use this option to 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)** Use this option to enable or 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 ---**			
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** Sets the mode of a virtual extension key that appears on a DSS console.	0 = No 1 = Yes	0	

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 654	0	11-12-47
02	**Ignore Received DP Dial on DTMF SLT Port** Use this option to 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

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 interval 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 256 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 interval.	0~64800 seconds	10
04	**Virtual Extension Key Seize Mode** Changes the BLF status of a SIE key. When set to **Enhanced**, the BLF will not show as being busy when the station is on a trunk call. When set to **Normal**, the BLF will show as being busy when on a trunk call.	0 = Normal 1 = Enhanced Option	1

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	Maximum eight digits

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** Turns 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** Turns off or on an extension to change the Music on Hold tone.	0 = Off 1 = On	0	1	11-10-02
03	**Time Setting** Turns 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** Turns 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** Turns off or on an extension 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	**--- Not Used ---**				
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)** Turns off or on the ability for an extension 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)** Turns off or on an extension 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)** Turns off or on an extension ability to record, erase and listen to VRS messages.	0 = Off 1 = On	0	1	11-10-19
14	**VRS General Message Play** Turns 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** Turns off or on an extension for dialing Service Code 612 and record, listen to, or erase the General Message.	0 = Off 1 = On	0	1	11-10-22
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	**--- Not Used ---**				
22	**--- Not Used ---**				
23	**CO MSG Waiting Indication Callback Number Programming** Enable or Disable an extension ability to receive CO Message Waiting Indication.	0 = Off 1 = On	0	0	
24	**Set/Cancel Private Call Refuse** Enable or Disable an extension ability to set or cancel Private Call Refuse.	0 = Off 1 = On	0	0	11-10-32
25	**Set/Cancel Caller ID Refuse** Enable or Disable an extension ability to set or cancel Caller ID Refuse.	0 = Off 1 = On	0	0	11-10-33 11-10-34

Item No.	Item	Input Data	Default		Related Program
			COS 1~14	COS 15	
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 ---**				
30	**Date Setting**	0 = Off 1 = On	1	1	11-10-41

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 01-14	Default COS 15	Related Program
01	**Intercom Calls** Turns off or on Intercom calling for the extension.	0 = Off 1 = On	1	1	
02	**Trunk Outgoing Calls** Turns off or on outgoing trunk calling for the extension.	0 = Off 1 = On	1	1	
03	**System Speed Dialing** Turns off or on an extension ability to make outbound calls using system speed dial numbers.	0 = Off 1 = On	1	1	
04	**Group Speed Dialing** Turns off or on an extension ability to make outbound calls using group speed dial numbers.	0 = Off 1 = On	1	1	
05	**Dial Number Preview (Preset Dial)** Turns off or on an extension for using Dial Number Preview.	0 = Off 1 = On	1	1	
06	**Toll Restriction Override** Turns off or on Toll Restricting Override (Service Code 663).	0 = Off 1 = On	0	0	11-11-36 21-01-07 21-07
07	**Repeat Redial** Turns off or on an extension to use Repeat Redial.	0 = Off 1 = On	1	1	
08	**Toll Restriction Dial Block** Turns off or on an extension to use Dial Block.	0 = Off 1 = On	0	0	

Item No.	Item	Input Data	Default		Related Program
			COS 01-14	COS 15	
09	**Hotline/Extension Ringdown** Turns off or on Ringdown Extension for extensions with this COS.	0 = Off 1 = On	0	0	
10	**Signal/Voice Call** Turns off or on an extension allowing it to force Handsfree Answerback or Forced Intercom Ringing for outgoing Intercom calls.	0 = Off 1 = On	1	1	
11	**Protect for the Call Mode Switching from Caller** (Internal Call)	0 = Off 1 = On	0	0	
12	**Department Group Step Calling** Turns off or on an extension to use Department Group Step Calling.	0 = Off 1 = On	1	1	
13	**ISDN CLIP** Determines if the ISDN calling line identity presentation and screening indicators are allowed.	0 = Off 1 = On	0	0	10-03-05 15-01-04
14	**Call Address Information**	0 = Off 1 = On	0	0	
15	**Block Outgoing Caller ID** Turns 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	0	14-01-20 14-01-21
16	**Display E911 Dialed Extension Name and Number** Turns off or on an extension to display the name and number of the extension that dialed 911.	0 = Off 1 = On	0	0	
17	**ARS Override of Trunk Access Map** Turns off or on an extension ability to override the trunk access map programming for outgoing calls.	0 = Off 1 = On	0	0	
19	**Hotline for SPK** The ability of an extension to have Hotline activated or deactivated when going off hook via the speaker key.	0 = Off 1 = On	0	0	20-08-09
20	**Hot Key Pad** The ability of an extension to make a call by just dialing the number without first going off hook.	0 = Off 1 = On	0	0	

Item No.	Item	Input Data	Default		Related Program
			COS 01-14	COS 15	
21	**Automatic Trunk Seizing by Pressing SPK Key** The ability of an extension to automatically access Trunk Route when going off hook via the speaker key.	0 = Off 1 = On	0	0	
22	**Voice Over to Busy Virtual Extension** The ability of an extension to make Voice Over to Busy Virtual Extension.	0 = Off 1 = On	0	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 COS 01~14	Default COS 15	Related Program
01	**Second Call for DID/DISA/DIL/E&M Override** Turns 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** Turns off or on the Caller ID display at an extension.	0 = Off 1 = On	0	0	15-02-08
03	**Sub Address Identification** Defines whether or not an extension displays the Caller Sub-Address.	0 = Off 1 = On	0	0	
04	**Notification for Incoming Call List Existence** Determines 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

Item No.	Item	Input Data	Default		Related Program
			COS 01~14	COS 15	
05	**Signal/Voice Call** Turn off or on an extension 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
06	**Incoming Time Display**	0 = Off 1 = On	0	0	
07	**Call Queuing** Turn off or on an extension 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

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).

Class of Service Number	01~15

Item No.	Item	Input Data	Default COS 01~14	Default COS 15
01	**Group Call Pickup (Within Group)** Turns off or on Group Call Pickup for calls ringing an extension Pickup Group and ringing group calls (Service Code 756).	0 = Off 1 = On	1	1
02	**Group Call Pickup (Another Group)** Turns 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** Turns off or on Group Call Pickup for a specific group (Service Code 768).	0 = Off 1 = On	1	1
04	**Telephone Call Pickup** Turns off or on an extension to pick up a call ringing into a Pickup Group (Service Code ✱ #).	0 = Off 1 = On	1	1
05	**Directed Call Pickup for Own Group** Turns 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** Turns off or on an extension to use Meet-Me Conference and Paging.	0 = Off 1 = On	1	1
07	**Automatic Off-Hook Answer** Turns off or on an extension 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** Turns off or on an extension 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 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 01~14	COS 15
01	**Call Forward All** Turns off or on an extension ability to initiate Call Forwarding All.	0 = Off 1 = On	1	1
02	**Call Forward When Busy** Turns off or on an extension ability to use Call Forward when Busy.	0 = Off 1 = On	1	1
03	**Call Forwarding When Unanswered** Turns off or on an extension ability to use Call Forward when Unanswered.	0 = Off 1 = On	1	1
04	**Call Forwarding (Both Ringing)** Turns off or on an extension ability to activate Call Forwarding with Both Ringing.	0 = Off 1 = On	1	1
05	**Call Forwarding with Follow Me** Turns off or on an extension ability to initiate Call Forwarding with Follow Me.	0 = Off 1 = On	1	1
06	**Unscreened Transfer (Ring Inward Transfer)** Turns off or on an extension ability to use Unscreened Transfer.	0 = Off 1 = On	1	1
07	**Transfer Without Holding** Turns off or on an extension ability to use Transfer Without Holding.	0 = Off 1 = On	0	0

Item No.	Item	Input Data	Default	
			COS 01~14	COS 15
08	**Transfer Information Display** Turns off or on an extension ability for incoming Transfer preanswer display.	0 = Off 1 = On	1	1
09	**Group Hold Initiate** Turns off or on an extension ability to initiate a Group Hold.	0 = Off 1 = On	1	1
10	**Group Hold Answer** Turns off or on an extension ability to pick up a call on Group Hold.	0 = Off 1 = On	1	1
11	**Automatic On-Hook Transfer** Turns off or on an extension ability to use Automatic On Hook Transfer.	0 = Off 1 = On	0	0
12	**Call Forwarding Off Premise (External Call Forwarding)** Turns off or on an extension ability to set up Call Forwarding Off-Premise for their telephone.	0 = Off 1 = On	0	0
13	**Operator Transfer After Hold Callback** Turns off or on an extension ability to have a call which recalls from hold transfer to the operator.	0 = Off 1 = On	0	0
14	**Trunk-to-Trunk Transfer Restriction** Turns off or on the Trunk-to-Trunk Transfer Restriction. If enabled, Trunk-to-Trunk Transfer is not possible.	0 = Off 1 = On	0	0
15	**VRS Personal Greeting (Message Greeting)** Turns off or on a Service Code to record, listen to, or erase the Personal Greeting Message.	0 = Off 1 = On	1	1
16	**Call Redirect** Turns 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	1
17	**Department Group Trunk-to-Trunk Transfer (Each Telephone Group Transfer)** Turns off or on an extension user ability to set Trunk-to-Trunk Forwarding for a Department Group.	0 = Off 1 = On	1	1
18	**No Recall** No Recall set to "Allow" (1) will not stop transferred calls from recalling from a virtual extension.	0 = Off 1 = On	0	0
19	**Hold/Extended Park** Determine if an extension Class of Service should allow either a normal or extended Park.	0 = Off 1 = On	0	0

Item No.	Item	Input Data	Default	
			COS 01~14	COS 15
20	**No Callback** Turns off or on an extension to receive callbacks.	0 = Off 1 = On	0	0
21	**Restriction for Tandem Trunking on Hang Up** Allow (0) or Deny (1) an extension user ability to set up a tandem/conference call automatically when they hang up.	0 = Allow 1 = Deny	0	0
22	**Restricted Unsupervised Conference** Allow (0) or Deny (1) an extension ability to initiate an unsupervised conference.	0 = Allow 1 = Deny	0	0
23	**CAR/VE Call Forward Set/Cancel** Turn on or off an extension ability to set or cancel call forwarding for a virtual extension.	0 = Off 1 = On	1	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	1
25	**Transfer Park Call** Turn off or on an extension ability to transfer a parked call.	0 = Off 1 = On	1	1
27	**Call Park Automatically Search**	0 = Off 1 = On	1	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	Default 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 COS 01~14	Default COS 15	Related Programming
01	**Long Conversation Alarm** Turns 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)** Turns off or on an extension ability to use Long Conversation Cutoff for incoming calls.	0 = Off 1 = On	0	0	
03	**Long Conversation Cutoff (Outgoing)** Turns off or on an extension ability to use Long Conversation Cutoff for outgoing calls.	0 = Off 1 = On	0	0	
04	**Call Forward/DND Override (Bypass Call)** Turns off or on an extension ability to use Call Forwarding/DND Override.	0 = Off 1 = On	1	1	
05	**Intercom Off-Hook Signaling** Turns off or on an extension ability to receive off-hook signals.	0 = Off 1 = On	1	1	
06	**Automatic Off-Hook Signaling (Automatic Override)** Allows a busy extension ability to manually (0) or automatically (1) receive off-hook signals.	0 = Off 1 = On	1	1	
07	**Message Waiting** Turns off or on an extension 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** Turns off or on an extension user ability to initiate a conference or Meet-Me Conference.	0 = Off 1 = On	1	1	
09	**Privacy Release** Turns off or on an extension user ability to initiate a Voice Call Conference.	0 = Off 1 = On	1	1	
10	**Barge-In Monitor** Enables the extension Barge-In Mode to be Speech mode (0) or Monitor mode (1).	0 = Speech 1 = Monitor	0	0	20-13-45
11	**Room Monitor, Initiating Extension** Turns 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)** Turns off or on an extension user ability to call a Department Group Pilot.	0 = Off 1 = On	1	1	
15	**Barge-In, Initiate** Turns off or on an extension user ability to barge-in on other's calls.	0 = Off 1 = On	0	0	
16	**Barge-In, Receive** Turns off or on an extension ability to have other extensions barge-in on calls.	0 = Off 1 = On	0	0	
17	**Barge-in Tone/Display (Intrusion Tone)** Turns 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)** Turns 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)** Turns 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)** Turns 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** Turns off or on an extension user ability to program its name.	0 = Off 1 = On	1	1	
22	**Busy Status Display (Called Party Status)** Turns 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 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** Turns 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 to be used.	0 = Off 1 = On	0	0	
25	**--- Not Used ---**				
26	**Group Listen** Turns 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 off for this option to work.	0 = Off 1 = On	1	1	
28	**Allow Class of Service to be Changed** Turns 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** Turns off or on an extension user ability to display paging information.	0 = Off 1 = On	1	1	
30	**Background Music** Allow or 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** Allows or Denies an extension from having multiple users Barge into their conversation.	0 = Off 1 = On	0	0	
33	**ACD Supervisor's Position Enhancement** This option must be on 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** Turns 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** Turns 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** Turns 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	**ACD Queue Status Display** Turns off or on the ACD Queue Status Display for an extension Class of Service. Any extension which has this option enabled also hears 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	**--- Not Used ---**				

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 receives the barge in alert tone when Coaching Mode is enabled.	0 = Enable 1 = Disable	1	1	20-13-10
47	**Station Number Display** Determine if a station Number will be displayed (On) or not displayed (Off) in the LCD when the phone is in an idle state.	0 = Off 1 = On	1	1	
48	**Station Name Display** Determine if a station Number will be displayed (On) or not displayed (Off) in the LCD when the phone is in an idle state.	0 = Off 1 = On	1	1	
49	**BLF Indication on CO Incoming State** Determine if a BLF of the station will light 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 codes will show 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 will be listed (On) or unlisted (Off) in the directory.	0 = Off 1 = On	1	1	

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.

✎ *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 or 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** This option enables or disables 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** This option enables or disables 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** This option enables or disables a DISA or tie trunk caller ability to use the System Speed Dialing.	0 = Off 1 = On	0
05	**Operator Calling** This option enables or disables a DISA or tie trunk caller ability to dial 0 for the telephone system operator.	0 = Off 1 = On	1
06	**Internal Paging** This option enables or disables a DISA or tie trunk caller ability to use the telephone system Internal Paging.	0 = Off 1 = On	1

Item No.	Item	Input Data	Default COS 1~15
07	**External Paging** This option enables or disables a DISA or tie trunk caller ability to use the telephone system External Paging.	0 = Off 1 = On	1
08	**Direct Trunk Access** This option enables or disables 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>** This option enables or disables 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 or 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** This option enables or disables a DISA or tie trunk caller ability to use the Barge-In feature.	0 = Off 1 = On	0
12	**Retrieve Park Hold** This option enables or disables 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		2
02	PBX, CES Incoming Call		8
03	Incoming Internal Call		12
04	DID/DISA/VRS		8
05	DID/DDI		8
06	Dial-In in the E&M Tie Line	1~13	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

Table 2-7 Ringing Cycles

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
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.

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 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 SV8100 system, not all the same characters are available.

Input Data

Selectable Display Message Number	01~20

Item No.	Input Data
01	24 characters

Default

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 which are to be used by operators.	Up to eight digits	101	11-01 20-01-01

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	This option 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**	0~64800 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	**--- Not Used ---**		
04	**Wait Facility IE Timer** This timer is used with ISDN trunks to determine how long 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	No setting
08	**Area Code**	Up to six digits	No setting

Conditions
None

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 timer determines how long the system waits before disconnecting an incoming call.	0~64800 (sec)	0	14-01-14
04	**Long Conversation Cutoff for Outgoing Call** This timer determines how long the system waits before disconnecting an outgoing call.	0~64800 (sec)	0	14-01-14

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 timer 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	--- Not Used ---		
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)	30
02	**ALERT replay time (CTI)**	0~64800 (sec)	8
03	**Trunk Virtual Bridge – TSP Driver** Enable or 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

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 = Service Off 1 = Service On	1
02	**Progress Indicate Information Element Detect**	0 = Service Off 1 = Service 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 = Service Off 1 = Service On	0
05	**T305 Timer Start After Sending Disconnect Message**	0 = Service Off 1 = Service On	1
06	**Call Proceeding Send Mode**	0 = Service Off 1 = Service 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 = Disable) 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

Input Data

Item No.	Item	Input Data	Default
11	**Automatic Changing System Clock When Date/ Time Information Element Received**	0 = Disable (Off) 1 = Enable (On)	0
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

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 how long the conversation will extend 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	001~200

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	0~15

Item No.	Item	Input Data	Default	Related Programming
01	**Trunk Queuing Callback Duration Time** Trunk Queuing Callback rings an extension for this amount of time	0~64800 seconds	15 seconds	20-01-08
02	**Callback / Trunk Queuing Cancel Time** The system cancels an extension Callback or Trunk Queueing request after this amount of 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 interval.	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	5 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 interval, 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 interval 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 interval sets the Ring-No-Answer time. This interval 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 interval recalls the extension that initially parked it.	0~64800 seconds	90 seconds	24-01-06

Item No.	Item	Input Data	Default	Related Programming
15	**Delayed Call Forwarding Time (Call Forward No Answer)** If activated at an extension, Delayed Call Forwarding occurs after this time. This also sets how long 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
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	**DID/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 time determines how long 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

Conditions

❍ These timers are used when an extension or trunk is assigned to a class from 1 to 16 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
20-35 : 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	001~200

Item No.	Item	Input Data	Default
01	**Trunk's Operator Setting** Allows 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

Input Data

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

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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.

Program

21

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, extension users 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

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

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)** Use this option to 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 or 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 0~9	4	15-01-05 21-01-15 21-01-16
18	**Reset Dial After Failure of Trunk Access** Enable (1) or Disable (0) the ability to continue to dial codes or extensions after receiving Trunk Busy. This needs to be set to Enabled (1) for the Forced Trunk Disconnect feature to work.	0 = Disable (Off) 1 = Enable (On)	1	99-01-01
19	**--- Not Used ---**			

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	Maximum 8 digits

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	001~200

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.

✎ **A telephone and a trunk will have a Restriction Class. The higher class will apply for outgoing calls.**

Input Data

Extension Number	Maximum 8 digits

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	This option assigns/unassigns 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	This option assigns/unassigns 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	It chooses whether the table set up by 21-06-04 is referred to, or not referred to.	21-06-04
06	**Common Restriction Table**	0 = Unassigned (No) 1 = Assigned (Yes)	1, 6~15 = 0 2~5 = 1	It chooses whether the table set up by 21-06-05 is referred to, or not referred to.	21-06-05
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

Item No.	Item	Input Data	Default	Description	Related Program
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	Use this option to 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	Use this option to 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	Determines if incoming and outgoing intercom calls are allowed.	
12	**PBX Call Restriction**	0 = Disable (No) 1 = Enable (Yes)	1~6, 8~15 = 0 7 = 1	Use this option to 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	It chooses whether the toll restriction of the dial set up by 34-08 is enabled or disabled.	34-08
14	**Trunk Transfer Restriction on Incomplete Dial**	0 = Not allow 1 = Allow	0 (Not allow)	If this program is set to 1, you can transfer the outgoing trunk which you dialed incompletely.	
15	**Common Hold Restriction on Incomplete Dial**	0 = Not allow 1 = Allow	0 (Not allow)	If this program is set to 1, you can hold the outgoing trunk which you dialed in restriction check.	

Default

Item	Toll Restriction Class														
	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	This option lets you 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	This option lets you 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	This option selects 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	This option lets you 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	This option lets you program the Common Restrict Code Table. This table contains up to 10 codes you commonly prevent users from dialing.

Input Data

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	This option lets you 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	This option lets you 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	Use this option to 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	
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	Maximum 8 digits

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** Sets how many times a Repeat Redial automatically repeats if the call does not go through.	0~255	3
02	**Repeat Redial Interval Time** This time sets the interval 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** Sets the time (sec) 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	Maximum eight digit

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

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	Maximum 8 digits

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

❍ The @ code is used to make an outbound call automatically to a DISA Trunk or to VM Auto Attendant. This code can only be used 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.

✎ *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	001~200

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.

✎   *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	Maximum 8 digits

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 is six digits long, 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	Maximum 8 digits

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
21-17 : 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	001~200

Item No.	Description	Input Data	Default
01	**IP Trunk (SIP) Calling Party Number Setup for Trunk**	Up to 16 digits (1~0, *, #)	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.

✎ *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	Up to eight digits

Item No.	Description	Input Data	Default
01	**IP Trunk (H.323) Calling Party Number Setup for Extension**	Up to 16 digits (1~0, ✱, #)	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	Maximum eight digits

Item No.	Description	Input Data	Default	Related Program
01	**IP Trunk (SIP) Calling Party Number Setup for Extension**	Up to 16 Digits (1~0, ✳, #)	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	001~200

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	001~200

Item No.	Description	Input Data	Default
01	**CO MWI Call Back Enabling** Enable or 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.	0000~1999	1999

Conditions
None

Feature Cross Reference

❏   None

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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.

Program

22

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	**Incoming Call Priority**	0 = Intercom Call Priority 1 = Trunk Call Priority	1	Use this option to 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 interval (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 interval, 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 interval 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 interval sets the Ring-No-Answer time. This interval is how long 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		

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
08	**DID Pilot Call No Answer Time**	0~64800 (sec)	60		
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	This program sets 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	Setup the sending duration time of the Auto – Attendant & Queuing. The message is repeatedly sent out within the specified time.	22-14-06 22-15-06 41-11-06

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	001~200

Item No.	Day/Night Mode	Incoming Type		Default	Description	Related Program
01	1~8	0 1 2 3 4 5 6 7 8	= Normal = VRS (second dial tone if no VRS installed) = DISA = DID = DIL = E&M Tie line = Delayed VRS = ANI/DNIS = DID(DDI) Mode Switching	0	Use this option to 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 in order 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	001~200

Item No.	Ring Tone Pattern	Default	Description	Related Program
01	0~8 (Ring Tone Pattern 1~4) (Melody 1~ Melody 5)	0	Use this program 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.	15-02

Table 2-8 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	2000 1400 1100	760 660 540	16Hz 16Hz 16Hz
Pattern 4	High Middle Low	2000 1400 1100	760 660 540	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 32 extension numbers assigned.

✎   *There are 100 available Ring Groups.*

Input Data

Incoming Ring Group Number	1~100

Item No.	Extension Number	Description	Related Program
01	Maximum 8 Digits	Use this program to assign extensions (up to 32) 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. There are 100 available Ring Groups.

Input Data

Trunk Port Number	001~200

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 InMail)	1	Use this program to 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	Maximum eight digits

Item No.	Day/Night Mode	Incoming Group Number		Default	Related Program
01	1~8	0 =	No Ring	1	22-04
		1 =	Ring		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	001~200

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	001~200

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 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** Use this option to enable or disable Vacant Number Intercept.	0 = Disconnect (Cut) 1 = Transfer (Refer to Program 22-12 : DID Intercept Ring Group on page 2-306.)	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 2-306.)	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)	0~2000 (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 (2000).

❏ 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 – 1 and 2

   ✎ *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.

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**.

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. . .
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 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	1~2000

Item No.	Item	Input Data	Default
01	**Received Number** This is the received DID digits.	Maximum 8 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** This is the name that is assigned to the DID digits when it rings the extension.	Maximum 12 characters	No Setting
04	**Transfer Operation Mode**	0 = No Transfer 1 = Busy 2 = No Answer 3 = Busy/No Answer	0

Item No.	Item	Input Data	Default
05	**Transfer Destination Number 1**	0 = No Setting	0
06	**Transfer Destination Number 2** 400 = Allows 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 = Provides the caller with DISA dialing options (requires using the DISA password). ✎ *This applies to 22-11-05 and 22-11-06.*	1~100 = Incoming Group 102 = In-Skin/External Voice Mail or InMail 201~264 = Extension Group 400 = Valid Extension Number 401 = DISA 501~599 = DISA/VRS Message 1000~1999 = Speed Dial Number (000~999)	0
07	**Call Waiting** PRG 20-09-07 overrides this setting.	0 = Disable (No) 1 = Enable (Yes)	0
08	**Maximum Number of DID Calls**	0~200 (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 (1) or disable (0) each conversation tables 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 will hear Ringback) 1 = Enabled (Go to normal ring)	1

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.

✎   *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 VM8000 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
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
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 Message.	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

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 available Department Groups.

Input Data

Extension Group Number	01~64

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 Message.	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.

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	01~100

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**	0~2000	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.

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**	0~9 0 = Normal pattern 1~4 = Tone pattern 5~9 = Scale pattern	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	01~200

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.

✎   *There are 64 available Call Pickup Groups.*

Input Data

Extension Number	Maximum 8 digits

Item No.	Group Number	Priority	Default	Description	Related Program
01	1~64	1~999	1 – xxx	Use this program to 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
None

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 SV8100 Features and Specifications Manual for more information.

Make one entry for each Night Service mode.

Input Data

Extension Number	Maximum 8 digits

Item No.	Day/Night Mode	Route Table Number	Default	Description	Related Program
01	1~8	0~100	0	Use this program to 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.

✎ *There are 256 available Virtual Extension Ports.*

Input Data

Extension Number	Maximum 8 digits

Item No.	Order	Extension Group Number	Default	Description	Related Program
01	1~4	00~64 (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, when the user lifts the handset, the user answers 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

Program

24

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

Input Data (Continued)

Item No.	Item	Input Data	Default	Related Program
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
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** Use this option to prevent or allow 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** Use this option to enable or disable MOH on Transfer. If enabled (0), a transferred caller hears MOH while their call rings the destination extension. If disabled (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 how long 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**	0~64800 (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	

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 can only pick up a call parked in orbit by an extension in its own group.

Input Data

Extension Number	Maximum 8 digits

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	001~200

Item No.	Day/ Night Mode	Speed Dial Area Number	Default	Description	Related Program
01	1~8	0~1999	1999	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.

✎   *There are 64 available Department Groups.*

Input Data

Extension Group Number	01~64

Item No.	Day/Night Mode	Speed Dial Area Number	Default	Description	Related Program
01	1~8	0~1999	1999	The Speed Dialing area is used 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
24-06 : Fixed Call Forwarding

Level:
IN

Description

For each extension/virtual extension port, use **Program 24-06 : Fixed Call Forwarding** to assign the Fixed Call Forwarding Type (0~4) and the destination extension/virtual extension. For *extension ports*, the Fixed Call Forwarding destination can be an on- or off-premise extension or a Voice Mail extension. For *virtual extensions*, the Fixed Call Forwarding destination can be an on-premise extension or Voice Mail extension.

Input Data

Extension Number	Up to eight digits

Fixed Call Forwarding Type	Default	Description
0 = Fixed Call Forwarding disabled 1 = Fixed Call Forwarding with both extensions ringing 2 = Fixed Call Forwarding when unanswered 3 = Fixed Call Forwarding Immediate 4 = Fixed Call Forwarding when busy or unanswered	0	Set the type of substitute call receipt and specify the extension number transferred on originated telephone.

Conditions

❍ Do not use Fixed Call Forwarding Type 1 (Both Ringing) with Voice Mail ports.

Feature Cross Reference

❑ Call Forwarding

Program 24 : Hold/Transfer Setup
24-07 : Fixed Call Forward Off-Premise

Level:
IN

Description

Use **Program 24-07 : Fixed Call Forward Off-Premise** to assign the Fixed Call Forwarding Off-Premise telephone number for each extension/virtual extension. The Off-Premise destination can be up to 24-digits long. A trunk access code (e.g., 9) must be included in the number.

Fixed Call Forwarding Types:

Input Data

Extension Number	Up to eight digits

Off-Premise Destination Number	Default
1~9, 0, #, ✱, P, R, @ (up to 24 digits)	No Setting

Conditions
None

Feature Cross Reference

None

Program 24 : Hold/Transfer Setup

24-08 : Call Forward for Centrex

Level:
IN

Description

Use **Program 24-08 : Call Forward for Centrex** to assign the Call Forwarding type and Call Forwarding for Centrex telephone number for each extension/virtual extension. The Off-Premise destination can be up to 24-digits long.

Input Data

Extension Number	Up to eight digits

Item No.	Item	Input Data	Default
01	**Call Forwarding Type** Set the Call Forwarding type: 0 = Call Forwarding disabled 1 = Call Forwarding No Answer 2 = Call Forwarding Immediate Call 3 = Call Forwarding Busy or No Answer 4 = Call Forwarding when Busy	0~4	0
02	**Call Forwarding Destination for Immediate and No Answer Call** Set Call Forwarding destination for Centrex for Immediate and No Answer Calls.	1~9, 0, #, ✳, P, R, @ (up to 24 digits)	No Setting
03	**Call Forwarding Busy Destination** Set Call Forwarding destination for Centrex for Busy Call.	1~9, 0, #, ✳, P, R, @ (up to 24 digits)	No Setting

Conditions

None

Feature Cross Reference

None

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 numbers for each extension/virtual extension. The destination can be up to 24 digits long, using 0~9, ✻, #, and @. Be sure to include the trunk access code (e.g., 9) in the number if the destination is off-premise.

✎   *Only ISDN uses the @ symbol.*

✎   *Pause can be set by LK 1.*

Input Data

Extension Number	Maximum 8 digits

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:** 1~9, 0, #, ✻, R, @ (Up to 24 digits) ✎ *Only ISDN uses the @ symbol*	No Setting
03	**Intercom Call Forwarding Destination for Both ring, All Call, No Answer:** 1~9, 0, #, ✻, R, @ (Up to 24 digits)	No Setting
04	**CO Call Forwarding Busy Destination:** 1~9, 0, #, ✻, R, @ (Up to 24 digits)	No Setting
05	**Intercom Call Forwarding Busy Destination:** 1~9, 0, #, ✻, R, @ (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, @ (Up to 24 digits)	None
07	**Call Forwarding Destination for CTX/PBX for Busy:** 0~9, **#**, **∗**, R, @ (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

Program

25

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	001~200

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	

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	001~200

Item No.	Day/Night Mode	Message (Talkie) Source	Additional Data	Default
01	1~8	0 = No Message 1 = VRS 2 = ACI 3 = Department Group	1 = 01~100 (VRS Message Number) 2 = 01~04 (ACI Group Number) 3 = 01~64 (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	001~200

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 InMail)	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	001~200

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 InMail)	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.

For each trunk, make a separate entry for each Night Service mode.

Input Data

Trunk Port Number	001~200

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

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 how long 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

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** This time determines how long 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** 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 (sec)	30	
10	**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 (sec)	30	
11	**VRS/DISA Answer Delay Time** Sets 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 interval 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)

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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 or 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)	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

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	1~400

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, 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 2-471. 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 2-470.	0	44-04 44-05
04	**ARS Class of Service**	0~16	0	
05	**Dial Treatment for ARS**	0~15	0	
06	**--- Not Used ---**			

Item No.	Item	Input Data	Default	Related Programming
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.

   ✎ *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.

   ✎ *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.

   ✎ *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	Up to eight digits

Item No.	Day/Night Mode	Class	Default
01	1~8	0~16	0

Conditions
None

Feature Cross Reference

❑   Automatic Route Selection

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

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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)

❏ ACD Monitor Mode (2)

❏ Business/ACD Mode (3)

Input Data

DSS Console Number	01~32

Item No.	DSS Operation Mode	Default
01	0 = Business Mode 1 = Hotel Mode 2 = ACD Monitor Mode 3 = Business/ACD 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** 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 Assignments** 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 Program, 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

Index 2

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 Used** ---		
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

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
20	External All Call Paging		**Red On:** Active
21	Internal Group Paging	Internal Paging Number (01~64)	**Red On:** 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 – 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		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

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
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
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**

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
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)	
59	Department Incoming Call – Delay	Extension Group Number (01~64)	
60	Department Incoming Call – DND	Extension Group Number (01~64)	
61	--- **Not Used** ---		
63	Outgoing Call Without Caller ID (ISDN)		**Red On:** Active
64	--- **Not Used** ---		
65	--- **Not Used** ---		
66	CTI		**Red On:** CTI active
67	--- **Not Used** ---		
68	--- **Not Used** ---		
69	--- **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	Toll Restriction in Credit		
77	Voice Mail (In-Skin)	Extension Number or Pilot Number	**Red On:** Access to Voice Mail **Rapid Blink (Green):** New Message
78	Conversation Recording	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

Function Number List (Continued)
[1] General functional level (00~99)

Function Number	Function	Additional Data	LED Indication
80	Tandem Ringing	0 = Cancel 1 = Set Extension Number to Tandem Ring	**Red On:** Active
81	Automatic Transfer to Transfer Key	Trunk Line Number 001~200	
82	D^{term} IP Call Log		
83	Conversation Recording Function	0 = Pause 1 = Re-record 2 = Address 3 = Erase 4 = Urgent Page	
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)	
99	Alternate Answer Key		

Function Number List
[2] Appearance Function Level (∗00 - ∗99) (Service Code 752)

Function Number	Function	Additional Data	LED Indication
∗00	--- **Not Used** ---		
∗01	Trunk Key	Trunk Number (001~200)	
∗02	Trunk Group/Loop Key	Trunk Group Number (001~100)	
∗03	--- **Not Used** ---		

Function Number List (Continued)
[2] Appearance Function Level (∗00 - ∗99) (Service Code 752)

∗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	ACD Log-In/Log-Out		**Red On:** Under Log-On **Off:** Under Log-Off
∗11	--- **Not Used** ---		
∗12	ACD Emergency Call		Emergency Call **Red On:** Under monitor, Override, Standby
∗13	ACD Off Duty Mode		**Red On:** Under off-duty **Slow Blink (Red):** Under Reservation
∗14	ACD Start / End		**Red On:** ACD Operation End
∗15	ACD Monitor Mode		**Red On:** Under Monitor
∗16	ACD Standby Mode		**Red On:** Standby
∗17	ACD Wrap-Up Mode		**Red On:** Under work time **Slow Blink (Red):** Under Reservation
∗18	ACD Overflow Control	ACD Group Number	**Red On:** Enable **Slow Blink (Red):** Disable
∗19	ACD Queue Status Display		

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

Index 2

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
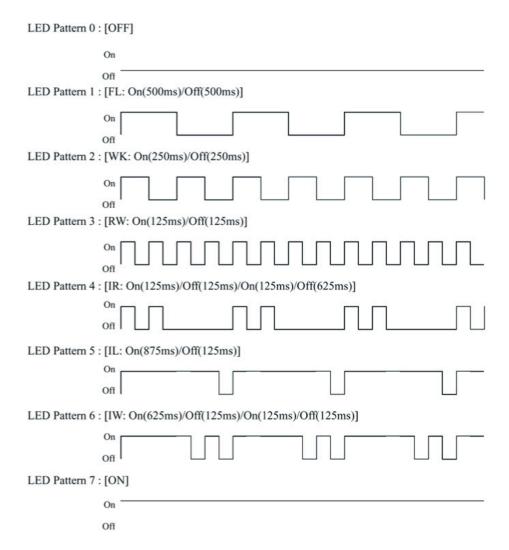
Description

Use **Program 32-05 : 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	**ACD Agent Busy**	0~7	7 (On)
05	**Out of Schedule (ACD DSS)**	0~7	0 (Off)
06	**ACD Agent Log Out (ACD DSS)**	0~7	5 (IL)
07	**ACD Agent Log In (ACD DSS)**	0~7	4 (IR)
08	**ACD Agent Emergency (ACD 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)
21	**VM Message Indication**	0~7	3 (RW)

Table 2-9 LED 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.

Index 1

DSS Console Number	01~32

Input Data

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

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Level:

IN

Program

31

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.

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 õ ú ä ö ü α ε θ

<table>
<tr><td colspan="2">Key for Entering Names (Continued)</td></tr>
<tr><td colspan="2">When entering names in the procedures below, refer to this chart. Names can have up to 12 digits.</td></tr>
<tr><td>Use this keypad digit . . .</td><td>When you want to. . .</td></tr>
<tr><td>✱</td><td>Enter characters:
✱   +   ,   -   .   /   :   ;   <   =   >   ?   π Σ σ Ω ∞ ¢
£</td></tr>
<tr><td>#</td><td># = 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.)</td></tr>
<tr><td>Conf</td><td>Clear the character entry one character at a time.</td></tr>
<tr><td>Hold</td><td>Clear all the entries from the point of the flashing cursor and to the right.</td></tr>
</table>

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** This timer sets the maximum length of 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	Maximum 8 digits

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 or prevent All Call Internal Paging for each extension. If allowed, extension can place and receive All Call Internal Paging announcements. If prevented, extensions can only make (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.

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 õ ú ä ö ü α ε θ
✳	Enter characters: ✳ + , - . / : ; < = > ? π Σ σ Ω ∞ ¢ £

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. . .
#	**#** = 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 SV8100 system, the CD-CP00-US 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 (CD-CP00-US) = 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 CD-CP00-US zone is number 9. For UNA ringing, make a separate entry for each Night Service mode.

Input Data

Trunk Port Number	1~200

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 Service

❑   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)** Use this option to enable or 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)** Use this option to enable or 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 will be used for talkback (As this option is not available with the CD-CP00-US 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**	1~63 (-15.5 ~ +15.5dB)	32
05	**CODEC Receive Gain Setup**	1~63 (-15.5 ~ +15.5dB)	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 CD-CP00-US zone is number 9.

Input Data

External Speaker Number	1~9

Item No.	Item	Item	Input Data	Default
01	**BGM**	Use this option to allow or prevent 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

Program

32

Description

Use **Program 32-01 : Door Box Timers Setup** to assign the timers used for the Door Box.

✎ *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 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.

✎   *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 .

✎   *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)	1~63 (-15.5dB ~ +15.5dB)	32
03	**CODEC Receive Gain Setup** (Door Box to PGD(2)-U10 ADP)	1~63 (-15.5dB ~ +15.5dB)	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.

✎ *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

Program

33

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)

Level:
IN

Program

34

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	001~200

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 = No (Off) 1 = Yes (On)	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	1~200

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	001~200

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	001~200

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 COS 2~15	Related Program
01	**Receive Format** Use this option to 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)	0	34-01-02 34-09-02
02	**Delimiter Dial Code** This option defines the character Telco uses as a delimiter (see entries 1~5 in Item 1 above). Valid entries are 0~9, #, and Q.	1~9, 0, **#**, ✱	✱	34-09-01
03	**Route Setup of Receive Dial** This option specifies 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	0	22-09-01 22-11-01 34-09-04 34-09-08

Item No.	Name	Input Data	Default COS 2~15	Related Program
04	**Route Table Setup of Target Dial** The option sets 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 ABB table (0), up to 24 digits can be matched. Define the range of the ABB 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)	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** Use this option to set whether or not ANI data should appear on telephone displays as part of Caller ID display.	0 = Display Off 1 = Display On	0	13-04 20-09-02 22-11-03 23-09-04
06	**Routing SPD Table Setup** Use this option to define which part of the ABB 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 4 and 5 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, 100~1900 End = 0, 99~1999	Start = 0 End = 0	13-04
07	**Routing on ANI/DNIS Error** This option lets you 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)	0	25-03

Item No.	Name	Input Data	Default COS 2~15	Related Program
08	**Routing When Destination Busy or No Answer** This option lets you 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)	0	25-04
09	**Calling Number Address Length** When Item 1=0 (ANI/DNIS receive format is the address), use this option to specify the address length. The choices are from 1~ 8 digits.	1~8	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** This option defines the number of digits to delete from the information element received from Telco.	0~9	2	Assign the number of information digits to delete from the element received from the Network.

Conditions

None

Feature Cross Reference

❏   T1 Trunking (with ANI/DNIS Ability)

Example:

Example of ANI information KP009727517645STKP7100ST.
00   Information digits
9727517645   ANI information
7100   DNIS Digits

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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 for each of the eight SMDR ports. Refer to the following chart for a description of each option, its range and default setting.

Input Data

SMDR Port Number	1~8

Item No.	Item	Input Data	Default
01	**Output Port Type** This option specifies the type of connection used for SMDR. The baud rate for the COM port should be set in Program 10-21-02 or 15-02-19.	0 = None 3 = LAN 4 = CTA/CTU	0
02	**Output Destination Number** This option specifies the SMDR printer output extension (CTA/CTU extension number).	Up to 8 digits	No Setting
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 first 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

Item No.	Item	Input Data	Default
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
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 for each of the eight SMDR ports. Refer to the following chart for a description of each option, its range and default setting.

Input Data

SMDR Port Number	1~8

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 or just calls dialed using the PBX trunk access code.	0 = Not Displayed 1 = Displayed	1
03	**Trunk Number or Name** Select whether the system should display the trunk name (0) or the number (1) 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 this option 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 this option 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 this option 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

Item No.	Item	Input Data	Default
07	**Toll Charge Cost** Set this option to (1) 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
09	**Extension Number or Name** Set this option (1) to have the SMDR report include extension numbers. Set this option (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 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 whether or not the CLI/DID Number Switching should be displayed.	0 = CLI (CLIP) 1 = DID Calling Number	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.	0 = Trunk Port Name 1 = Received Dialed Number	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

Item No.	Item	Input Data	Default
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

Conditions
None

Feature Cross Reference

❑   Station Message Detail Recording

Program 35 : SMDR Account Code Setup
35-03 : SMDR Port Assignment for Trunk Group

Level:
IN

Description

Use **Program 35-03 : SMDR Port Assignment for Trunk Group** to assign the SMDR port for each trunk group. For each Trunk Group, select the SMDR port where the incoming SMDR information should be sent.

Input Data

Trunk Group Number	1~100

Item No.	SMDR Port No.	Default
01	1~8	1

Conditions
None

Feature Cross Reference

❑   Station Message Detail Recording

❑   Trunk Group Routing

Program 35 : SMDR Account Code Setup
35-04 : SMDR Port Assignment for Department Groups

Level:
IN

Description

Use **Program 35-04 : SMDR Port Assignment for Department Groups** to assign the SMDR port for each Department Group. For each Department Group, select the SMDR port where the outgoing SMDR information should be sent.

✎   *There are 64 available Department Groups.*

Input Data

Department Group Number	01~64

Item No.	SMDR Port No.	Default
01	1~8	1

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** Use this option to 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** Use this option 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** Use this option to allow users to enter Account Codes for incoming calls. If disabled, any codes entered dial out on the connected trunk.	0 = Account Codes for incoming calls disabled (No) 1 = Account Codes for incoming calls enabled (Yes)	0
04	**Hiding Account Codes** Use this option to either hide or show the Account codes on a telephone display.	0 = Account Codes displayed 1 = Account Codes 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 with 3~6 digits, 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

Program 40 : Voice Recording System

40-01 : Voice Mail Basic Setup

Level:
IN

Description

Use **Program 40-01 : Voice Mail Basic Setup** to define the basic operation of Voice Mail.

Input Data

Item No.	Item	Input Data	Default	Description
01	--- Not Used ---			
02	--- Not Used ---			
03	--- Not Used ---			
04	--- Not Used ---			
05	--- Not Used ---			
06	--- Not Used ---			
07	--- Not Used ---			
10	--- Not Used ---			

Conditions
None

Feature Cross Reference

❏   Voice Mail Integration (Analog)

Program 40 : Voice Recording System
40-02 : Mailbox Setup

Level:
SA

Description

Use **Program 40-02 : Mailbox Setup** to define the mailbox of the Voice Mail.

There are a maximum of 500 mailboxes. Use this program to set the box number and password linked to the extension number (or pilot number) for each mailbox.

Input Data

Message Box Number	01~500

Item No.	Item	Input Data	Default	Description
01	--- Not Used ---			
02	--- Not Used ---			

Conditions
None

Feature Cross Reference

❏ Voice Mail Integration (Analog)

Program 40 : Voice Recording System

40-03 : Message Recording Setup

Level:
IN

Description

Use **Program 40-03 : Message Recording Setup** to define the auto-answering operation of the Voice Mail.

Input Data

Item No.	Item	Input Data	Default
01	--- Not Used ---		
02	--- Not Used ---		
03	--- Not Used ---		

Conditions
None

Feature Cross Reference

❏   Voice Mail Integration (Analog)

Program 40 : Voice Recording System
40-04 : Live Recording Setup

Level:
IN

Description

Use **Program 40-04 : Live Recording Setup** to define the conversation recording operation of the Voice Mail.

Input Data

Item No.	Item	Input Data	Default	Description
01	--- Not Used ---			
02	--- Not Used ---			
03	--- Not Used ---			
04	--- Not Used ---			

Conditions
None

Feature Cross Reference

❑ Voice Mail Integration (Analog)

Program 40 : Voice Recording System
40-05 : Call Information Setup

Level:
IN

Description

Use **Program 40-05 : Call Information Setup** to define the incoming notice of the Voice Mail.

Input Data

Item No.	Item	Input Data	Default
01	--- Not Used ---		
02	--- Not Used ---		
03	--- Not Used ---		
04	--- Not Used ---		
05	--- Not Used ---		
06	--- Not Used ---		
07	--- Not Used ---		

Conditions
None

Feature Cross Reference

❑   Voice Mail Integration (Analog)

Program 40 : Voice Recording System
40-06 : Voice Mail Automated Attendant Data Setup

Level:
IN

Description

Use **Program 40-06 : Voice Mail Automated Attendant Data Setup** to define the outside lines to use the Automated Attendant recording operation of the Voice Mail.

Input Data

Trunk Port Number	1~200

Day/Night Mode	1~8

Item No.	Item	Input Data	Default
01	--- Not Used ---		
02	--- Not Used ---		
03	--- Not Used ---		

Conditions
None

Feature Cross Reference

❏   Voice Mail Integration (Analog)

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.

Input Data

Item No.	Item	Input Data	Default
01	**Voice Prompt Language Assignment for VRS**	1 = US English 2 = Not Used 3 = Not Used 4 = French Canadian 5 = Not Used 6 = Mexican Spanish 7 = Not Used 8 = Not Used 9 = 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 20 = Not Used	1

Conditions
None

Feature Cross Reference

❑   Voice Mail Integration (Analog)

Program 40 : Voice Recording System
40-08 : Voice Prompt Language Assignment for Mailboxes

Level:
IN

Description

Use **Program 40-08 : Voice Prompt Language Assignment for Mailboxes** to select the language to be used for the mailboxes.

Input Data

Mailbox Number	001~500

Item No.	Item	Input Data	Default
01	--- Not Used ---		

Conditions
None

Feature Cross Reference

❏ Voice Mail Integration (Analog)

Program 40 : Voice Recording System
40-09 : Voice Mail Multiple Address Group Setup

Level:
IN

Description

Use **Program 40-09 : Voice Mail Multiple Address Group Setup** to define the broadcast group of a Voice Mail mailbox.

Input Data

Multiple Address Group Number	1~10

Item No.	Destination Box Number	Box Number	Default
01	--- Not Used ---		

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.

Input Data

Item No.	Item	Input Data	Default
01	**VRS Fixed Message** Enable (1) or disable (0) the system ability to play the fixed VRS messages (such as You have a message).	0 = Not Used 1 = Used	0
02	**General Message Number** This item assigns the VRS message number to be used as the General Message.	0~100 (0 = No General Message Service)	0
03	**VRS No Answer Destination** This item assigns 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 interval, 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: "Service finished. Disconnect the line, please."	0~101 (0 = No message) (101 = Fixed message)	0

Input Data

Item No.	Item	Input Data	Default
07	**Set VRS Message for Caller ID Refuse** **(VRS Msg CID)** This item assigns the VRS Message number to be used as Caller ID Refuse. When Fixed Message is set, VRS message guidance is: "Service finished. Disconnect the line, please."	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

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	1~200

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 ACD

Level:
IN

Description

In **Program 41-01 : System Options for ACD** define the system options for the ACD feature.

Program

41

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	**ACD MIS Connection Ports**	0 = None 3 = LAN (CD-CP00-US)	0
04	**ACD-MIS Command Notification when a BT Message is returned**	0 = Notifies 1 = No notification	0

Conditions
None

Feature Cross Reference

❏   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-02 : ACD Group and Agent Assignments

Level:
SA

Description

In **Program 41-02 : ACD Group and Agent Assignments**, for each ACD extension number, assign an ACD Group (1~64). An ACD Group number is assigned to each Work Period number (1~8).

The assigned extension will work as an ACD agent extension in the following cases:

❑　The trunk belonging to an ACD group receives an incoming call while an ACD agent is logged in.

❑　An extension transfers a call to an ACD group using the ACD group pilot number.

❑　An incoming call is received with a DID/DISA number which is assigned as an ACD pilot number.

Input Data

Extension Number	Up to 8 digits

Item No.	ACD Work Period Mode Number	ACD Group No.	Default
01	1~8	0~64 (0 = No setting)	0

Conditions
None

Feature Cross Reference

❑　Automatic Call Distribution (ACD)

Program 41 : ACD Setup

41-03 : Incoming Ring Group Assignment for ACD Group

Level:
SA

Description

In **Program 41-03 : Incoming Ring Group Assignment for ACD Group**, for each incoming trunk group set up in Program 22-05, designate which ACD 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

ACD Work Period Mode Number	1~8

Item No.	Item	Input Data	Default
01	**ACD Group Number**	0~64 (0 = No setting)	0
02	**Night Announcement Service**	0 = No 1 = Yes	0
03	**Priority Data** Determine whether an incoming call to a trunk ring group should follow a priority assignment. 0 = No Priority 1~7: 1 = Highest Priority 7 = Lowest Priority	0, 1~7 (0 = No Priority) (1 = Highest Priority) (7 = Lowest Priority)	0

Conditions
None

Feature Cross Reference

❑ Automatic Call Distribution (ACD)

❑ Ring Groups

Program 41 : ACD Setup
41-04 : ACD Group Supervisor

Level:
SA

Description

For each ACD Group (1~64), use **Program 41-04 : ACD Group Supervisor** to assign the group supervisor extension and operating mode. Operating modes are:

❏   0 = Supervisor extension does not receive ACD Group calls.

❏   1 = Supervisor extension receives ACD Group overflow calls only.

❏   2 = Supervisor extension receives ACD Group calls just like all other agents.

An ACD Group can have only one supervisor. In addition, an extension can be a supervisor for only one ACD Group.

Input Data

ACD 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 any ACD incoming calls (No) 1 = Receive ACD incoming calls in case of overflow (Busy) 2 = Receive ACD incoming calls all the time (Yes)	0

Conditions

❍   If you assign an extension as a ACD Group Supervisor in this program, you cannot program the same extension as a System Supervisor in Program 41-01-01.

Feature Cross Reference

❏   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-05 : ACD Agent Work Schedules

Level:
SA

Description

Use **Program 41-05 : ACD Agent Work Schedules** to set up the Work Schedules for
ACD Agents and Groups. For each ACD 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.)

ACD extensions can log in only during their work period. ACD extensions receive the
following calls when they are logged in.

❏ ACD Call on a Trunk
   When the incoming ring group is assigned in the operating time (Program 41-03 and
   41-06).

❏ ACD Pilot Number Call
   Any time – if ACD extensions are available.

Input Data

ACD 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

❏ Automatic Call Distribution (ACD)

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 ACD Agent Work Schedules.)

Input Data

ACD 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

❑   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-07 : ACD Weekly Schedule Setup

Level:
SA

Description

Use **Program 41-07 : ACD 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 ACD 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 ACD)	0
	2	= Monday	0~4 (0 = No ACD)	0
	3	= Tuesday	0~4 (0 = No ACD)	0
	4	= Wednesday	0~4 (0 = No ACD)	0
	5	= Thursday	0~4 (0 = No ACD)	0
	6	= Friday	0~4 (0 = No ACD)	0
	7	= Saturday	0~4 (0 = No ACD)	0

Conditions
None

Feature Cross Reference

❑   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-08 : ACD Overflow Options

Level:
SA

Description

For each ACD Group (1~64), use **Program 41-08 : ACD Overflow Options** to assign the overflow mode (0~9), destination and announcement message types. Delay Announcement functions are not available for ACD pilot number calls. Each ACD Group can have unique overflow options. The table below outlines the entry options.

Input Data

ACD 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	**ACD Overflow Destination**	0 = No Setting 1~64 = ACD 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 = InMail	0
04	**ACD Overflow Transfer Time**	0~64800 (sec)	30
05	**System Speed Dial Bin**	0~1999 (Used when 41-08-02 is set to 67)	1999

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

❑   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-09 : ACD Overflow Table Setting

Level:
SA

Description

Use **Program 41-09 : ACD Overflow Table Setting** to define the ACD group to which a call is transferred when overflow occurs.

Input Data

ACD Group No.	01~64

Item No.	Priority Order Number	Transfer ACD 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

❏ Automatic Call Distribution (ACD)

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

ACD 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 timer for how long the 2nd Delay Announcement plays. After this timer expires, the call disconnects. To keep the call in queue, set this timer to 0.	0~64800 (sec)	0

Conditions
None

Feature Cross Reference

❏   Automatic Call Distribution (ACD)

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 be used as the message source for the 1st and 2nd Delay Announcement Messages. Refer to Program 41-08 for more on setting up the ACD overflow options.

This program is activated when the delay announcement source and options are assigned as VRS in Program 41-08-03.

Input Data

ACD 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	**ACD 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 will be 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

❏   Automatic Call Distribution (ACD)

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 ACD group. Night announcement availability depends on the setting in Program 41-03-02. The night announcement function is not available for ACD pilot number calls.

Input Data

ACD 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	**ACD 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 ACD pilot number call.

Feature Cross Reference

❏   Automatic Call Distribution (ACD)

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 be used as the night announcement. This program is activated when the night announcement source is assigned as VRS in Program 41-12-01.

Input Data

ACD Group No.	01~64

Item No.	Item	Input Data	Default
01	**VRS Message Number** Input the VRS Message to be used 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

❏ Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-14 : ACD Options Setup

Level:
SA

Description

Use **Program 41-14 : ACD Options Setup** to set various options for ACD Groups. When you set an option for an ACD Group, the setting is in force (if applicable) for all agents in the group. The chart below shows each of the ACD options, the entries available, and the default entry.

Input Data

ACD 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	**ACD Priority for Overflow Calls** Determine whether the ACD group should use its own priority assignment or if it should 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** Use this option to determine whether the caller should hear the 2nd Delay Announcement and then taken out of queue (1), or place 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	**ACD Off Duty Mode** Enable (1) or Disable (0) 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 will be in Wrap mode when Wrap key is pressed, or automatically put into Wrap mode.	0~64800 (sec)	0
10	**ACD No Answer Skip Time** Set how long a call to the ACD 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 – ACD Queue 1-Digit Assignment**	1st Data – Up to one Digit (0, 1~9, **#**, **∗**)	Blank

	2nd Data – Destination Number Type	2nd Data –
		    0 = None
		    1 = Extension or Voice Mail
		    2 = Incoming Ring Group
		    3 = Speed Dial Areas
		    4 = ACD Group
			0

	3rd Data – Destination Number	3rd Data – Up to eight digits (0, 1~9, **#**, **∗**)	Blank
14	**DTMF Detection Assignment during Delay Announcement** Is the DTMF Detection for Dial Out during (1) or after (0) the message is played.	0 = Does not detect during message 1 = Detect during message	1
15	**DTMF Detect Time after Delay Announcement Message** How long is the DTMF Detection after the Delay Announcement Message.	0~64800 (sec)	0

Conditions

None

Feature Cross Reference

❑   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-15 : ACD Queue Alarm Information

Level:
SA

Description

Use **Program 41-15 : ACD Queue Alarm Information** to assign the options for Audible Indication for Log Out/Off Duty mode for each ACD 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

ACD Group No.	01~64

Item No.	Item	Input Data	Default
01	**Number of Calls in ACD Queue to Activate Alarm Information**	0~200 (0 = No Alarm)	0
02	**Interval Time of Alarm Information** Input the alarm sound time.	0~64800 (sec)	0

Conditions
None

Feature Cross Reference

❑   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-16 : ACD Threshold Overflow

Level:
SA

Description

Use **Program 41-16 : ACD Threshold Overflow** to define the value of the ACD threshold call overflow and the mode for each ACD group.

Input Data

ACD 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 ACD queue before overflow occurs.	0~200 (0 = No Limitation)	0
02	**Operation Mode for ACD 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

❏   Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-17 : ACD Login Mode Setup

Level:
SA

Description

Use **Program 41-17 : ACD Login Mode Setup** to define the ACD 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	Up to eight digits

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 ACD agents.

Feature Cross Reference

❏ Automatic Call Distribution (ACD)

Program 41 : ACD Setup
41-18 : ACD Agent Identity Code Setup

Level:
SA

Description

Use **Program 41-18 : ACD Agent Identity Code Setup** to define the ACD Agent Identity Code Table.

Input Data

AIC Table No.	001~512

Item No.	Item	Input Data	Default
01	**ACD Agent Identity Code**	Up to four digits	No Setting
02	**Default ACD Group Number**	0~64 0 = No Setting	0
03	**ACD Group Number in Mode 1**	0~64 0 = No Setting	0
04	**ACD Group Number in Mode 2**	0~64 0 = No Setting	0
05	**ACD Group Number in Mode 3**	0~64 0 = No Setting	0
06	**ACD Group Number in Mode 4**	0~64 0 = No Setting	0
07	**ACD Group Number in Mode 5**	0~64 0 = No Setting	0
08	**ACD Group Number in Mode 6**	0~64 0 = No Setting	0
09	**ACD Group Number in Mode 7**	0~64 0 = No Setting	0
10	**ACD Group Number in Mode 8**	0~64 0 = No Setting	0

Conditions
None

Feature Cross Reference

None

Program 41 : ACD Setup
41-19 : ACD Voice Mail Delay Announcement

Level:
SA

Description

Use **Program 41-19 : ACD Voice Mail Delay Announcement** to assign InMail Master Mailboxes (PRG 47-03) as ACD Delay "Announcement" Mailboxes.

Input Data

ACD Group Number	1 ~ 64

Item No.	Item	Input Data	Default
01	**Delay Message Start Timer** Determines how long the system waits before playing the Delay Message.	0 ~ 64800 (sec)	0
02	**Mailbox Number for 1st Announcement Message** Assigns the Voice Mail ACD Announcement Mailbox as the message source for the 1st Announcement Message.	Dial (up to eight digits)	No Setting
03	**1st Delay Message Sending Count** Determines 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** Assigns the Voice Mail ACD Announcement Mailboxes as the message source for the 2nd Announcement Message.	Dial (up to eight digits)	No Setting
05	**2nd Delay Message Sending Count** Determines 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** Determines what the caller hears between the messages.	0 = Ring Back Tone 1 = Music On Hold Tone 2 = Background Music Source	0
07	**ACD Forced Disconnect Time after 2nd Announcement** Assigns how long the system should wait after the end of the ACD Delay Message before disconnecting.	0 ~ 64800 (sec)	0

Item No.	Item	Input Data	Default
08	**Delay Message Interval Time** Sets the timer for the interval between the Delay Messages.	0 ~ 64800 (sec)	20

Conditions

None

Feature Cross Reference

None

Program 41 : ACD Setup
41-20 : ACD Queue Display Settings

Level:
SA

Description

Use **Program 41-20 : ACD Queue Display Settings** to assign the options for the ACD 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

ACD 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 ACD queue before the Queue Status Display (and optional queue alarm) occurs.	0 = No Display, 1~200	0
02	**Queue Status Display Time** Set how long the Queue Status display remains on the telephone display.	0~64800 (sec)	5 (sec)
03	**Queue Status Display Interval** Set the interval 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	**ACD Call Waiting Alarm** Enable or disable the queue alarm.	0 = Disable (Off) 1 = Enable (On)	0
05	**ACD Call Waiting Alarm Hold Time** Set how long the Call Waiting Alarm should sound.	0~64800 (sec)	0

Conditions
None

Feature Cross Reference

❑   Automatic Call Distribution (ACD)

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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 will need to make an entry for this program if you have selected 1 or 2 in Item 1 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)**	0 = Fixed Message 1 = VRS Message 2 = Time Information and VRS	0
05	**Wake Up Call Message Assignment**	0~100 (0 = No Setting)	0

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	Up to eight digits

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

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	Default 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) or 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

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), 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

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 = No Setting 1 = CTA 3 = LAN	0
02	**Output Destination Number**	Up to eight digits (Extension number which CTA/CTU is equipped)	No Setting
03	**Wake Up Call No Answer Data**	0 = Not Output 1 = Output	0
04	**Check-Out Sheet**	0 = Not Output 1 = Output	0

Conditions

❍ Room Status Reports output via a CTA or CTU adapter require a DTH terminal and a compatible external device.

❍ Room Status Reports can be output via LAN port , or when using DTH 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**	0~65535	5129
02	**3:00 AM Auto Room Scan** At 3:00 AM sets 'maid required' status for all checked-in rooms.	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

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 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

Program

44

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** Set the number of digits to be analyzed by the system for ARS routing.	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** If enabled, this option sends 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 be used for the outgoing ARS call.	0~100, 255 0 = No Setting 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 be used 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 be used for the tandem call (defined in Program 44-07).	0~500 0 = No Setting	0
07	**ARS Class of Service** Select the ARS Class of Service to be used for the table. An extension ARS COS is determined in Program 26-04-01.	0~16	0

Item No.	Item	Input Data	Default
08	**Dial Treatment** Select the Dial Treatment to be used 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.

✎   *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**	1~63 (-15.5 ~ +15.5dB)	32 (0dB)
02	**Incoming Receive**	1~63 (-15.5 ~ +15.5dB)	32 (0dB)
03	**Outgoing Transmit**	1~63 (-15.5 ~ +15.5dB)	32 (0dB)
04	**Outgoing Receive**	1~63 (-15.5 ~ +15.5dB)	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)

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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.

Program

45

Input Data

Item No.	Item	Input Data	Default
01	**Voice Mail Department Group Number** Assign which Extension (Department) Group number is to be assigned as the voice mail group.	0~64 0 = No Voice Mail	0
02	**Voice Mail Master Name** Enter the Voice Mail Master Name.	Up to 12 Characters	VOICE MAIL
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** This time sets the interval between Voice Mail Conversation Record alerts	0~64800 (sec)	30
07	**Centralized Voice Mail Pilot Number** This number is the same as the extension number or pilot number.	Dial (up to eight digits)	No Setting

Input Data (Continued)

Item No.	Item	Input Data	Default
08	**Centralized Voice Mail Department Group Number** Assigns which Extension (Department) Group Number is to be assigned as the Centralized Voice Mail group.	0~64	0
09	**Centralized Voice Mail Master Name** Assigns 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** Assigns whether fixed codes are used 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** 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

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

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

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Program 47 : InMail

47-01 : VM8000 InMail System Options

Level:
IN

Description

Use **Program 47-01 : VM8000 InMail System Options** to set up the VM8000 InMail system-wide options.

Input Data

Item No.	Item	Input Data	Default
02	**VM8000 InMail Master Name** (MasterName) The CD-CP00-US must be reset for a change to this program to take effect. Use this option to modify the name for all UNIVERGE SV8100 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 **VM8000 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

Item No.	Item	Input Data	Default
03	**Subscriber Message Length** (Subs Msg Length) Use this option to 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) Use this option to 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

Input Data

Item No.	Item	Input Data	Default
05	**Message Backup/Go Ahead Time** (Msg Bkup/Adv Time) Use this option to set the backup/go ahead interval. This time sets how far VM8000 InMail backs up when a user dials **B** while listening to a message. This interval also sets how far VM8000 InMail jumps ahead when a user dials **G** while listening to a message.	1~60 (sec)	5
07	**Digital Pager Callback Number** (Pager CBack) Use this option to 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**) VM8000 InMail automatically replaces the X command with the number of the extension that initially received the message.	X✶M**#**

Input Data

Item No.	Item	Input Data	Default
08	**Delay in Dialing Digital Pager Callback Number** (Pager Dial Delay) Use this option to set the delay (0~99 seconds) that occurs just before VM8000 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 (0~99 seconds). By default, this option is 9 seconds. 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)	9

Input Data

Item No.	Item	Input Data	Default
09	**Wait Between Digital Pager Callout Attempts** (Notify Pager Intvl) Use this option to set the minimum time (1~255 minutes) between unacknowledged or unanswered digital pager Message Notification callouts. (A subscriber acknowledges a digital pager notification by logging onto their mailbox.) After this interval expires, VM8000 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) Use this option to set the minimum time (1~255 minutes) 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) Use this option to set how long VM8000 InMail waits (1~255 minutes) after it dials a busy non-pager callout destination, before retrying the callout number.	1~255 (min)	15

Input Data

Item No.	Item	Input Data	Default
12	**Wait Between RNA Non-Pager Callout Attempts** (Notify RNA Intvl) Use this option to set how long VM8000 InMail waits (1~255 minutes), 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	**Wait for Answer Non-Pager Callout Attempts** (Notify RNA Rings) If a non-pager callout rings the destination longer than this interval (1~99 rings), VM8000 InMail marks the call as unanswered (Ring No Answer) and hangs up.	1~99 (rings)	5

Input Data

Item No.	Item	Input Data	Default
14	**Number of Callout Attempts** (Notify Call Attmpt) Use this option to set how many times (1~99 attempts) VM8000 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)	5
15	**Send Pager Callout Until Acknowledged** (Retry Until Ack) When this option is enabled (1), VM8000 InMail continues to retry a digital pager Message Notification callout until the notification is acknowledged. If this option is disabled (0), VM8000 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
17	**InMail Port** Specify the port number of the first InMail Port.	0~497 The first port of InMail must start with one of the following ports: 1, 5, 9, 12, 16, ...237, 241, 245, 249 and uses the first port assigned + next three consecutive ports.	0
18	**Play PAD Control**	1~63 (-15dBm~ +15dBm)	32

Input Data

Item No.	Item	Input Data	Default
19	**Record PAD Control (for Networking)**	1~63 (-15dBm~ +15dBm)	32

Conditions

❍ When changing 47-01-01 or 47-01-02, a system reset is required for the new setting to take effect.

Feature Cross Reference

None

Program 47 : InMail
47-02 : VM8000 InMail Station Mailbox Options

Level:
IN

Description

Use **47-02 : VM8000 InMail Station Mailbox Options** to set up a station/extension mailbox. Station mailboxes are automatically assigned as Subscriber Mailboxes. Normally, VM8000 InMail Station Mailbox numbers 1~26 should correspond to extensions 101~126.

✎ *Station Mailboxes are one of three mailbox categories: Station, Routing, or Master. You can also set up Master Mailboxes as Subscriber Mailboxes.*

Input Data

Station Mailbox Number	1~512

Input Data

Item No.	Item	Input Data	Default
01	**Mailbox Type** Use this option to enable or 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	1
02	**Mailbox Number** Use this option to 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 65~512 = No entry

Input Data

Item No.	Item	Input Data	Default
03	**Number of Messages** Use this option to 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.	99 for mailbox 1 20 for all other mailboxes
04	**Message Playback Order** Use this option to set the Subscriber Mailbox message playback order. When a subscriber listens to their messages, VM8000 InMail can play the oldest messages first (first-in/first-out, or FIFO), or the newest messages first (last-in/first-out, or LIFO).	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** Use this option to 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, VM8000 InMail erases the message. 1 (Save) After the subscriber listens to the entire new message and hangs up, VM8000 InMail saves the message.	1
06	**Message Retention** Use this option to 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

Input Data

Item No.	Item	Input Data	Default
07	**Recording Conversation Beep** (Rec Conv Beep) Use this option to enable or 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 VM8000 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 SV8100 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 SV8100 telephone system Conversation Record beep, enter 0 for this option.	0 = No (Disabled) 1 = Yes (Enabled)	1
08	**Message Waiting Lamp** (Update MW Lamp) Use this option to enable or disable Message Waiting lamping at the extension associated with the Subscriber mailbox. For Subscriber Mailboxes, you should leave this option enabled. For Guest Mailboxes, you should leave this option disabled.	0 = No (Disabled) 1 = Yes (Enabled)	1
09	**Auto Attendant Direct to Voice Mail** (Auto-ATT DND) Use this option to enable or 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 can also enable Auto Attendant Do Not Disturb while recording their mailbox greeting.	0 = No (Disabled) 1 = Yes (Enabled)	0

Input Data

Item No.	Item	Input Data	Default
10	**Forced Unscreened Transfer** (Forced UTRF) Use this option to enable or 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 (Disabled) 1 = Yes (Enabled)	0
11	**Auto Time Stamp** Use this option to enable or disable Auto Time Stamp for the Subscriber Mailbox. If enabled, after the subscriber listens to a message VM8000 InMail announces the time and date the message was left. Auto Time Stamp also announces the message sender (if known). A subscriber can also enable Auto Time Stamp from their mailbox.	0 = No (Disabled) 1 = Yes (Enabled)	0
12	**System Administrator** Use this option to designate the Subscriber Mailbox as a System Administrator. This allows the subscriber to use the **SA** options after logging onto their mailbox.	0 = No (Disabled) 1 = Yes (Enabled)	Mailbox 1 (101)=1 Other mailboxes=0
13	**Dialing Option** Dialing Option provides 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 of the options 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 (Disabled) 1 = Yes (Enabled)	0
14	**Next Call Routing Mailbox** (Next CR Mbox) Use this option to 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 (1~3 digits, 01~032) No entry (Entered by pressing CLEAR)	**1** (Call Routing Mailbox 01) By default, Call Routing Mailbox numbers are 01~08.
15	**Directory List Number**	0 = None 1~8 = List Number ✱ = All	0
16	**Voice Prompt Language**	Refer to Table 2-10 47-02-16 Default Table	1

Input Data

Item No.	Item	Input Data	Default
17	**Enable Paging**	0 = No (Disabled) 1 = Yes (Enabled)	0
18	**Paging Option**	0 = RNA 1 = Immediately	0
19	**Telephone User Interface Type**	0 = Numeric 1 = Mnemonic	0
20	**Enable E-mail Notification** (Not supported in V1000)	0 = No 1 = Yes	0
21	**E-mail Address** (Not supported in V1000)	Up to 48 characters	No Setting
22	**Include Message as Attachment** (Not supported in V1000)	0 = No 1 = Yes	1

Table 2-10 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 = Reserved

Table 2-10 47-02-16 Default Table

Item	Name	Input Data
		18 = Reserved
		19 = Reserved
		20 = Flexible

Conditions
None

Feature Cross Reference

None

Program 47 : InMail
47-03 : VM8000 InMail Group Mailbox Options

Level:
IN

Description

Use **47-03 : VM8000 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. Use this option to 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	**Mailbox Type** (Mailbox Type) Use this option to set the Group Mailbox type. There are three types of VM8000 InMail mailboxes: None (0), Subscriber (1) and Routing (2).	0 = None 1 = Subscriber 2 = Routing	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

Item No.	Item	Input Data	Default
01	**Number of Messages** Use this option to 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** Use this option to set the Subscriber Mailbox message playback order. When a subscriber listens to their messages, VM8000 InMail can play the oldest messages first (first-in/first-out, or FIFO), or the newest messages first (last-in/first-out, or LIFO).	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** Use this option to 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, VM8000 InMail erases the message. 1 (Save) After the subscriber listens to the entire new message and hangs up, VM8000 InMail saves the message.	1
04	**Message Retention** Use this option to 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.	1~90 days 0 (Indefinite)	0

Input Data

Item No.	Item	Input Data	Default
05	**Recording Conversation Beep** (Rec Conv Beep) Use this option to enable or 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 VM8000 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 SV8100 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 SV8100 telephone system Conversation Record beep, enter 0 for this option.	0 = No (Disabled) 1 = Yes (Enabled)	1
06	**Message Waiting Lamp** (Update MW Lamp) Use this option to enable or disable Message Waiting light at the extension associated with the Subscriber mailbox. For Subscriber Mailboxes, you should leave this option enabled. For Guest Mailboxes, you should leave this option disabled.	0 = No (Disabled) 1 = Yes (Enabled)	1
07	**Auto Attendant Direct to VoiceMail** Use this option to enable or 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 can also enable Auto Attendant Direct to VM while recording their mailbox greeting.	0 = No (Disabled) 1 = Yes (Enabled)	0

Input Data

Item No.	Item	Input Data	Default
08	**Forced Unscreened Transfer** (Forced UTRF) Use this option to enable or 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 (Disabled) 1 = Yes (Enabled)	0
09	**Auto Time Stamp** Use this option to enable or disable Auto Time Stamp for the Subscriber Mailbox. If enabled, after the subscriber listens to a message VM8000 InMail announces the time and date the message was left. Auto Time Stamp also announces the message sender (if known). A subscriber can also enable Auto Time Stamp from their mailbox.	0 = No (Disabled) 1 = Yes (Enabled)	0
10	**System Administrator** (System Admin) Use this option to designate the Subscriber Mailbox as a System Administrator. This allows the subscriber to use the options after logging onto their mailbox.	0 = No (Disabled) 1 = Yes (Enabled)	0
11	**Dialing Option** Dialing Option provides 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 (Disabled) 1 = Yes (Enabled)	0
12	**Next Call Routing Mailbox** (Next CR Mbox) Use this option to 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

Input Data

Item No.	Item	Input Data	Default
14	**Voice Prompt Language**	Refer to Table 2-11 47-06-14 Default Table.	1
15	**Enable Paging**	0 = No 1 = Yes	0
16	**Paging Option**	0 = RNA 1 - Immediate	0
17	**Telephone User Interface**	0 = Numeric interface 1 = Mnemonic interface 2 = Octel (future)	0
18	**--- Not Used ---**		
19	**--- Not Used ---**		
20	**--- Not Used ---**		

Table 2-11 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 = Reserved
		18 = Reserved
		19 = Reserved
		20 = Flexible

Conditions
None

Feature Cross Reference

None

Program 47 : InMail

47-07 : VM8000 InMail Routing Mailbox Options

Level:

IN

Description

Use **47-07 : VM8000 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) Use this option to 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 2-12 47-07-03 Default Table	1
04	**Telephone User Interface**	0 = Numeric interface 1 = Mnemonic interface 2 = Octel (future)	0

Table 2-12 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 = Reserved
		18 = Reserved
		19 = Reserved
		20 = Flexible

Conditions
None

Feature Cross Reference

None

Program 47 : InMail
47-08 : Call Routing Mailbox Options

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** Use this option to assign the Dial Action Table to the Call Routing Mailbox. The Dial Action Table defines the dialing options for the call Routing Mailbox.	1~16 (Dial Action Table 1~16)	1 (Dial Action Table 1)
02	**Screened Transfer Timeout** (Scrn Trf Timeout) Use this option to set how long 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 VM8000 InMail.	0~255 (sec) Entering 0 causes immediate recall.	15
03	**Time Limit for Dialing Commands** (Dialing Timeout) This option determines how long VM8000 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 VM8000 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** Use this option to enable or disable Fax Detection for the Call Routing Mailbox. In enabled, the VM8000 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 (Disabled) 1 = Yes (Enabled)	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, use this option to 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 VM8000 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 VM8000 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) Use this option along with *Next Call Routing Mailbox* and *Repeat Count* above to 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 VM8000 InMail System Guide.	0 = None 1 = Goodbye 2 = Silent	0

Conditions

None

Feature Cross Reference

None

Program 47 : InMail

47-10 : VM8000 InMail Trunk Options

Level:
IN

Description

Use **47-10 : VM8000 InMail Trunk Options** to assign VM8000 InMail options for each trunk. Currently, only 47-10-01: Answer Table Assignment is available.

Input Data

Trunk Port Number	1~200

Item No.	Item	Input Data	Default
01	**Answer Table Assignment** (Answer Table) Use this option to assign an VM8000 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 (1~8)	1
02	**Record PAD Control**	1~63 (-15dBm~ +15dBm)	32
03	**Voice Prompt Language**	Refer to Table 2-13 47-10-03 Default Table	1
04	**Telephone User Interface**	0 = Numeric interface 1 = Mnemonic interface 2 = Octel (future)	0

Table 2-13 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 = Reserved
		18 = Reserved
		19 = Reserved
		20 = Flexible

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 (1~8). To set up the schedules for each Answer Table, go to 47-12 : VM8000 InMail Answer Table Schedule.

Input Data

Answer Table Number	1~8

Input Data

Item No.	Item	Input Data	Default
01	**Answer Schedule Override** (Schedule Override) Use this option to enable or 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 (Disabled) 1 = Yes (Enabled)	0

Input Data

Item No.	Item	Input Data	Default
02	**Override Mailbox Category** (Override MB Ctg) Use this option to 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) Use this option to 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

Input Data

Item No.	Item	Input Data	Default
03	**Default Mailbox Category** (Default MB Ctg) Use this option to 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 2~8 = 0
	Default Mailbox Number (Default MB Num) Use this option to 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 2~8 = No Entry
04	**Next Answer Table** When 10 Answer Schedules in an Answer Table are not sufficient, use this option to link two Answer Tables together. VM8000 InMail treats the two linked tables as a single 20 entry Answer Table.	Answer Table (1~8) 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 eight Answer Tables, with up to 10 Answer Schedules in each Answer Table.

Input Data

Item No.	Item	Input Data	Default

01	**Schedule Type**
	
	(Entryxx Schedule Type)
	
	Use this option to 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 1 = 2
			All other schedules = 0

Input Data (Continued)

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	Answer Table 1/ Schedule 1 = 2 All Other Schedules = 0
02	**Answering Mailbox Category** (Entryxx MB Ctg) Use this option to 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	3
	Answering Mailbox Number (Entryxx MB Num) Use this option to 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 1 = 1 All Other Answer Schedules = No Entry

Input Data (Continued)

Item No.	Item	Input Data	Default
03	**Day of the Week** (Entryxx Day) For Day of the Week (Type 1) Answer Schedules, use this option to 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	1
04	**Start Day** (Entryxx Start Day) For Range of Days (Type 2) Answer Schedules, use this option to 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	1 Answer Table 1/ Schedule 1 = 2 All Other Schedules = 1
05	**End Day** (Entryxx End Day) For Range of Days (Type 2) Answer Schedules, use this option to 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 1 = 6 All Other Answer Schedules = 1
06	**Date** (Entryxx Date) For Date (Type 3) Answer Schedules, use this option to select the date the Answer Schedule should be active.	MMDD For example: - 0101 = January 1 - 1231 = December 31 - 0000 = No date set	0000
07	**Schedule Start Time** (Entryxx Start Time) Use this option to 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 1 = 0830 (8:30AM) All other schedules are 0000.
08	**Schedule End Time** (Entryxx End Time) Use this option to 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 1 = 1700 All Other Schedules = 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
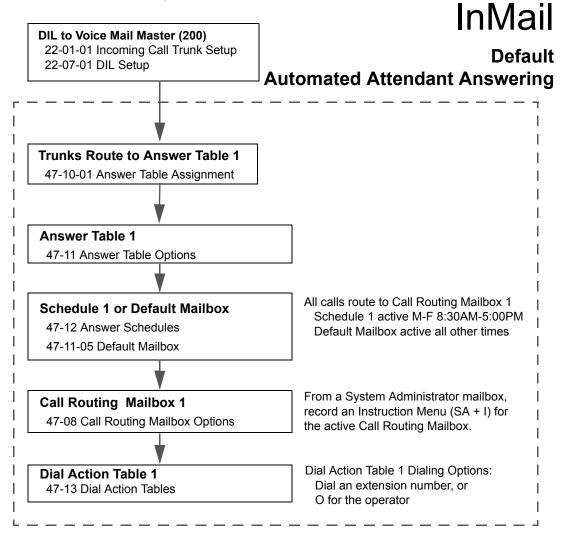
Program 47 : InMail

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 VM8000 InMail system. There are 16 Dial Action Tables.

InMail

Default
Automated Attendant Answering

DIL to Voice Mail Master (200)
22-01-01 Incoming Call Trunk Setup
22-07-01 DIL Setup

Trunks Route to Answer Table 1
47-10-01 Answer Table Assignment

Answer Table 1
47-11 Answer Table Options

Schedule 1 or Default Mailbox
47-12 Answer Schedules
47-11-05 Default Mailbox

All calls route to Call Routing Mailbox 1
  Schedule 1 active M-F 8:30AM-5:00PM
  Default Mailbox active all other times

Call Routing Mailbox 1
47-08 Call Routing Mailbox Options

From a System Administrator mailbox, record an Instruction Menu (SA + I) for the active Call Routing Mailbox.

Dial Action Table 1
47-13 Dial Action Tables

Dial Action Table 1 Dialing Options:
  Dial an extension number, or
  O for the operator

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.

Input Data

Dial Action Table Number	01~16

Key No.	Dial Action Table Action	Additional Data
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 VM8000 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. VM8000 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.

Conditions
None

Defaults

	Dial Action Table Default Settings	
Key	**Dial Action Table 1**	**Dial Action Tables 2~16**
1	UTRF to XXX (Unscreened Transfer to user-dialed extension)	UND (Undefined)
2	UND (Undefined)	UND (Undefined)
3	UTRF to XXXX (Unscreened Transfer to user-dialed extension)	UND (Undefined)
4	UND (Undefined)	UND (Undefined)
5	UND (Undefined)	UND (Undefined)
6	UND (Undefined)	UND (Undefined)
7	UND (Undefined)	UND (Undefined)
8	UND (Undefined)	UND (Undefined)
9	HNGUP (Hangup)	UND (Undefined)
0	UTRF to 101 (Unscreened Transfer to 101)	UND (Undefined)
∗	REC1 to IXXX (Quick Message with greeting to user-dialed extension)	UND (Undefined)
#	LOGON to IXXX (Logon to user-dialed mailbox)	UND (Undefined)
TIMEOUT	UTRF to 101 (Unscreened Transfer to 101)	UND (Undefined)

✎ *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).

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
47-16 : InMail Language License

Level:
IN

Description

Use **47-16 : InMail Language License** to define the language order InMail uses. Depending on the language license number, InMail uses the languages defined starting from Language 1. For example, if the system has a two language license InMail uses the language defined as Language 1 and 2 in the provided default table.

Input Data

Language	1~20

Item No.	Item	Input Data	Default
01	**Language License**	01 = US English	Refer to Table 2-14 47-16-01 Default Table
		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 = Reserved	
		18 = Reserved	
		19 = Reserved	
		20 = Flexible	

Table 2-14 47-16-01 Default Table

Language No.	47-16-01 Default
Language 1	01 (US English)
Language 2	04 (French Canadian)
Language 3	06 (Mexican Spanish)
Language 4	00 (No entry)
Language 5	00 (No entry)
Language 6	00 (No entry)
Language 7	00 (No entry)
Language 8	00 (No entry)
Language 9	00 (No entry)
Language 10	00 (No entry)
Language 11	00 (No entry)
Language 12	00 (No entry)
Language 13	00 (No entry)
Language 14	00 (No entry)
Language 15	00 (No entry)
Language 16	00 (No entry)
Language 17	00 (No entry)
Language 18	00 (No entry)
Language 19	00 (No entry)
Language 20	00 (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).

Input Data

Routing Mailbox Number	1~32

Input Data

Entry Number	1~20

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 1~512 (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	Up to three digits	

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 SNMP e-mail notification.

(Not supported in V1000)

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	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.

(Not supported in V1000)

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

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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 SV8100. 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/CD-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.	0~200	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 does not send to destination party if switch is turned to Disable.	0 = Disable 1 = Enable	1
06	**--- Not Used ---**			

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 Reach (0). If set to 0 (Disable), when using the IP-CCIS that system will not be able to be called until it is set to 1 (Enable).	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.

Input Data

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.

Input Data

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 run.
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.

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 8 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 (0) or Disable (1) 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 (0) or Disable (1) 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 (0) or Disable (1) 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 (0) or Disable (1) 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 (0) or Disable (1) the ability to send the BLF to Send Group 5 assigned in PRG 50-08-XX.

Item No.	Item	Input Data	Default	Description
07	**Send to Sending Group 6**	0 = Disable 1 = Enable	0	Enable (0) or Disable (1) 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 (0) or Disable (1) 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 (0) or Disable (1) 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

Input Data

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.

Input Data

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.

Input Data

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.

Input Data

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
01	**Connection Method**	0 = Peer to Peer disable 1 = Peer to Peer enable	1
02	**TCP Server Port Number**	0~65535	57000
03	**TCP Client Base Port Number**	0~65535	59000

Conditions
None

Feature Cross Reference

None

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Level:

IN

Description

Use **Program 51-01 : NetLink System Property Setting** to define the parameters of the NetLink feature.

✎ *Each system must be set with its own information.*

✎ *When the NetLink System ID is changed (Item 01), the system must be reset.*

Program

51

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 disconnect 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 will be selected in the order which the system wakes up. 1: The system will connect with Top Priority Primary System. If Top Priority Primary System was not found, the system will search Primary System like this setting is 0.	0 = Disable 1 = Enable	0

Conditions
None

Feature Cross Reference

None

Program 51 : NetLink Service
51-02 : NetLink System Individual Setting

Level:
IN

Description

Use **Program 51-02 : NetLink System Individual Setting** to set system data for
each NetLink system.

✎   *Program 51-02-03 is not used in US, but is used in other countries.*

Input Data

System ID	1~50

Item No.	Item	Input Data	Default
01	**System Name** This is the name given to each system.	Up to 20 characters.	blank
02	**Time Zone (Hour)** Determines 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
03	**Time Zone (Minute)** Determines the time offset from the Primary system. (0 = -60, 1 = -59, 2 = -58.... 120 = +60) This setting affects Time Display on MLT (see 51-13-02). This PRG is not used in the US, but is used in other countries.	0~120	60
04	**Authenticate System MAC Address** To use this function, set PRG 51-13-03 to 1 (enable), NetLink systems will 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 which 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

❍ The system seeks 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 which may become Primary at least.

Feature Cross Reference

None

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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(On).	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

<div align="right">

Program 51 : NetLink Service
51-05 : NetLink Timer Settings

</div>

Level:
IN

Description

Use **Program 51-05 : NetLink Timer Settings** to set the various timers within the NetLink system.

Item No.	Item	Input Data	Default
01	**Keep Alive Sending Interval** This is the Keep Alive timer sending interval from the Secondary system to confirm communication with the Primary system.	1~3600	5
02	**Keep Alive Response Waiting Time** This is the time interval the Secondary system waits for a response from the Primary system before cutting off communication.	0, 5~10800 (0 = infinity)	0
03	**Primary Search Packet Sending Interval** While searching the Primary system, the system sends a packet at this interval.	1~3600	5
04	**Primary Search Time Maximum Value** Total time of Primary system seek time.	5~10800	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	10
06	**Primary Compulsion Specification Trial Maximum Time** When the forced change Primary command is executed, the system will search the new Primary system for this amount of time.	1~10800	30
07	**Socket Refresh Time** For some reason, the IP connection may become unstable. Then keep-alive function does not work. To avoid this, if there is no data traffic for this time, the socket is refreshed.	20~3600	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 Settings** to set the automatic integration of the Primary system.

Input Data

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 will be 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 will reset. This option can select the timing of package reset.	0 = Reset when all packages are in idle condition. 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.

Input Data

Item No.	Item	Input Data	Default
01	**Forced Change Primary System Enabling** Set this item whether the Forced Change Primary is available or not.	0 = Disable 1 = Enable	1
02	**Package Reset Timing Option** When Forced Change Primary System is done, all packages will reset. This option can select the timing of package reset. 0 = Reset when all packages are in idle condition, 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.

(This program is available only via telephone programming and not through PC Programming).

Input Data

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 will be 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

<div style="text-align: right">

Program 51 : NetLink Service
51-09 : NetLink Communication Port Settings

</div>

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** Sets the communication port that the Primary system uses to communicate with the Secondary system.	0~65535	58000
02	**Communication Waiting Port** 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 selected by dynamic.	0~65535	0
04	**Primary Search Port** When Fail-Over occurred, each system communicates with other system at this port number. If 0 is set, temporary port is selected by dynamic. If 0 is not specified, the number and continuous maximum 50 number is used. (Ex. 5000 is specified 5001, 5002…5049 will be 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 selected by dynamic.	0~65535	0
06	**Database Replication Communication Listening Port** This port is used to replicate database.	0~65535	58002

Input Data

Item No.	Item	Input Data	Default
07	**Database Replication Primary Detection Port** This port is used to replicate database. If 0 is specified, temporary port is selected by dynamic.	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

<div align="center">

Program 51 : NetLink Service
51-11 : NetLink System Information

</div>

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 (On), 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

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 delete system and slot information.

(This program is available only via telephone programming and not through PC Programming).

Input Data

System ID	1~50

Menu Number	1 = System information deletion

Item No.	Item	Input Data	Default
01	**Delete System Information** This command is used to delete system information and the slot information. The system must be disconnected.	1~50	1

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.

(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** Sets the synchronous mode of the system data. When set to 1 (Setting Time Mode), the systems are synchronized at the time set in Item 02 below. When set to 2 (Interval Mode), the systems are synchronized at regular time intervals set in Item 03 below.	0 = Disable 1 = Setting Time Mode 2 = Interval Mode	0
02	**System Data Replication Time Setting** Sets 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** Sets 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** This sets the wait time until replication starts when NetLink is created.	1~86400 (seconds)	180 sec
06	**System Data Replication Interval** This program sets an interval 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 80 : Basic Hardware Setup for System

80-01 : Service Tone Setup

Level:
IN

Program

80

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)
04	**Gain Level (dB)**	1~63 (-15.5 ~ +15.5)

Table 2-15 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

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** This tone is what the originator hears 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	2	35 (+1.5dB)
				0	3	32 (0dB)
				11	2	35 (+1.5dB)
				0	12	32 (0dB)

Conditions

❍   The system must be reset for any changes 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)**	1~97 -45 : +3	69 (-11dB)

Duration

Pause

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
02	**Start Delay Time**	0~255 (0.25ms ~ 64ms)
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)

Item No	Item	Input Data
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)
05	Forward Twist Level	0~9 (1dB ~ 10dB)
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)

Default

Item No	Item	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)	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)	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
80-04 : 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, 5 = Reserved

Input Data

Tone Detector Type Number	1 = Dial Tone for Trunk 2 = Busy Tone for Trunk 3 = Ring Back Tone for Trunk 4 = --- Reserved --- 5 = --- Reserved ---

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
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)
03	**S/N Ratio**	0~4 (0dB ~ -20dB)

Item No	Item	Input Data
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**	1~8 (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	0
2	Min. detect level	15 (-25dBm)	15 (-25dBm)	15 (-25dBm)	0	0
3	S/N ratio	4 (-20dB)	4 (-20dB)	4 (-20dB)	0	0
4	No tone time	132 (3990ms)	132 (3990ms)	132 (3990ms)	0	0
5	Pulse Count	1	1	1	0	0
6	ON min. time	9 (300ms)	12(390ms)	25 (780ms)	0	0
7	ON max. time	0	20(630ms)	40 (1230ms)	0	0
8	OFF min. time	1 (60ms)	12(390ms)	83 (2520ms)	0	0
9	OFF max. time	1 (60ms)	20(630ms)	115 (3480ms)	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.

Input Data

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		35 (350 Hz)
2		44 (440 Hz)
3		48 (480 Hz)
4	0, 10~255 (100~2550 Hz) (0 = Not used)	62 (620 Hz)
5		0
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 SV8100 multiline terminals.

Input Data

Short Ring Number	01~32

Item No.	Item	Description	Default
01	**Frequency 1**	Refer to Table 2-16 Frequency 1/2 Table	00 = No Setting, 01~15
02	**Frequency 2**	Refer to Table 2-16 Frequency 1/2 Table	00 = No Setting, 01~15
03	**Ring Cycle**	Refer to Table 2-17 Ring Cycle Table	00 = No Setting, 01~14

✎   *When a single tone is sent, Frequency 1/2 is set to the same value.*

Table 2-16 Frequency 1/2 Table

Data	Frequency (Hz)
01	392
02	440
03	494
04	523
05	587
06	659
07	698
08	784
09	880
10	988
11	1046

Table 2-16 Frequency 1/2 Table (Continued)

Data	Frequency (Hz)
12	1175
13	1318
14	1397
15	1568

Table 2-17 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

Table 2-18 Default Table

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
:	:	:	:	:
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 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

Input Data

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
02	**Start delay time**	0~255 (0.25step, 0ms~64ms)
03	**Min. detect level**	0~15 MF Tone 1 : -15dBm(0) to -30dBm(15) MF Tone 2 : -20dBm(0) to -35dBm(15) MF Tone 3 : -25dBm(0) to -40dBm(15) MF Tone4 : -30dBm(0) to -45dBm(15) MF Tone 5 : -35dBm(0) to -50dBm(15)
04	**Max. detect level**	0~15 MF Tone 1 : -5dBm(0) to -20dBm(15) MF Tone 2 : -10dBm(0) to -25dBm(15) MF Tone 3 : -15dBm(0) to -30dBm(15) MF Tone 4 : -20dBm(0) to -35dBm(15) MF Tone 5 : -25dBm(0) to -40dBm(15) MF Tone 6 : -30dBm(0) to -45dBm(15)
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 2-19 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)
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 81 : Basic Hardware Setup for Trunk

81-01 : COT Initial Data Setup

Level:

MF

Program

81

Description

Use **Program 81-01 : COT Initial Data Setup** to define the various basic data parameters for the COT Unit.

Input Data

Item No.	Item	Input Data	Default
01	PCM Encoding Method Specification	0 = u-law 1 = A-law	0
02	Loop Current Detection Time	1~255 (8~2040ms)	75 (600ms)
03	Clear Signal (Open Loop) Detection Time	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

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**	1~255 (8~2040ms)	50 (400ms)
23	**Loop Disconnect Detect Maximum Time**	1~255 (8~2040ms)	80 (640ms)
24	**On Hook Normal Detect Time**	1~255 (8~2040ms)	2 (24ms)
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)
30	**Dial Pulse Break Time (20pps)**	1~255 (8~2040ms)	4 (32ms)
31	**Dial Pulse Make Time (20pps)**	1~255 (8~2040ms)	2 (16ms)

Input Data

Item No.	Item	Input Data	Default
32	**DP Inter-digit Time (20pps)**	1~255 (32~8160ms)	16 (512ms)
33	**--- Not Used ---**		
34	**--- Not Used ---**		
35	**--- Not Used ---**		
36	**Long Ringing Detection Minimum Time**	1~255 (16~4080ms)	150 (2400ms)

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 = u-law 1= A-law	0 (u-law)
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

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 : ODT Initial Data Setup

Level:
IN

Description

Use **Program 81-03 : ODT 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 = u-law 1= A-law	0 (u-law)
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**	Specifies 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**	Specifies 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**	Specifies 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**	Specifies the maximum time in 1/100ths of a second allowed without exchanging frames.	1~255 (100~25500ms)	250 (25sec)
05	**N200**	Specifies the retransmission count.	1~255	3
06	**N201**	Specifies the frame lengths in ocelots.	1~65535 (Byte)	260
07	**N202**	Specifies 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**	Specifies the timer value in 1/100ths of a second of the timer to be started when the ALERT message is received.	0,180~254 (sec)	180 (sec)
02	**T302**	Specifies the timer value in 1/100ths of a second of the timer to be started when the SETUP ACK is sent. Timer is also restarted when INFO is received.	1~254 (sec)	15 (sec)
03	**T303**	Specifies the timer value in 1/100ths of a second of the timer to be started when SETUP is sent.	1~254 (sec)	4 (sec)
04	T304	Specifies the timer value in 1/100ths of a second of the timer to be started when the SETUP ACK is received. Timer is also restarted when INFO is received.	0~254 (sec).	30 (sec)
05	T305	Specifies the timer value in 1/100ths of a second of the timer to be started when DISC without progress No. 8 is sent.	1~254 (sec)	30 (sec)
06	**T306**	Specifies the timer value in 1/100ths of a second of the timer to be started when DISC with progress indicator No. 8 is sent. This timer is valid for Network side use only.	0~254 (sec)	30 (sec)
07	**T307**	Specifies the timer value in 1/100ths of a second of the timer to be started when SUSPEND ACK is sent. This timer is valid for Network side use only.	1~254 (sec)	180 (sec)

Item No.	Item	Description	Input Data	Default
08	**T308**	Specifies the timer value in 1/100ths of a second of the timer to be started when REL is sent.	1~254 (sec)	4 (sec)
09	**T309**	Specifies the timer value in 1/100ths of a second upon data link disconnection.	1-254 (sec)	90 (sec)
10	**T310**	Specifies the timer value in 1/100ths of a second of the timer to be started when CALL PROC is sent.	0~180 (sec)	180 (sec)
11	**T312**	Specifies the timer value in 1/100ths of a second of the timer to be started when SETUP is sent or re-sent on broadcast data link. This timer is only valid for Network side use only.	1~254 (sec)	6 (sec)
12	**T313**	Specifies the timer value in 1/100ths of a second of the timer to be 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 (sec)
13	**T314**	Specifies the timer value in 1/100ths of a second of the timer to be started when message segment is received.	1~254 (sec)	4 (sec)
14	**T316**	Specifies the timer value in 1/100ths of a second of the timer to be started when RESTART is sent.	(T317+1)~254 (sec)	120 (sec)
15	**T317**	Specifies the timer value in 1/100ths of a second of the timer to be started when RESTART is received.	1~(T316-1)	60 (sec)
16	**T318**	Specifies the timer value in 1/100ths of a second of the timer to be started when RES is sent. This timer is valid for user side use only.	1~254 (sec)	4 (sec)
17	**T319**	Specifies the timer value in 1/100ths of a second of the timer to be started when SUSPEND is sent. This timer is valid for user side use only.	1~254 (sec)	4 (sec)
18	**T320**	Specifies the timer value in 1/100ths of a second when B-channel access: connection is received, or D-channel access: DL-ESTABLISH confirmation or indication is received.	1~254 (sec)	30 (sec)
19	**T321**	Specifies the timer value in 1/100ths of a second of the timer to be started when STATUS ENQ is received.	1~254 (sec)	30 (sec)
20	**T322**	Specifies the timer value in 1/100ths of a second upon D-channel failure.	1~254 (sec)	4 (sec)

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	1~200

CODEC Filter Type	Default
0 = No filter 1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4	1

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.

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

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 InterDigit 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

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 InterDigit Min. Time (ALL)**	1~250 (4ms ~ 1000ms)	125 500ms

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

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 600ms
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).

Item	Name	Input Data	Default
01	B1 Filter Setup(1)	0~255	162
02	B1 Filter Setup(2)	0~255	98
03	B1 Filter Setup(3)	0~255	165
04	B1 Filter Setup(4)	0~255	42
05	B1 Filter Setup(5)	0~255	34
06	B1 Filter Setup(6)	0~255	177
07	B1 Filter Setup(7)	0~255	170
08	B1 Filter Setup(8)	0~255	18
09	B1 Filter Setup(9)	0~255	194
10	B1 Filter Setup(10)	0~255	186
11	B1 Filter Setup(11)	0~255	54
12	B1 Filter Setup(12)	0~255	181
13	B1 Filter Setup(13)	0~255	218
14	B1 Filter Setup(14)	0~255	192
15	B2 Filter Setup(1)	0~255	46
16	B2 Filter Setup(2)	0~255	1

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
81-10 : COT Initial Data Setup

Level:
IN

Description

Use **Program 81-10 : COT Initial Data Setup** to define the various basic timers for each COT trunk port.

Input Data

Trunk No.	1~ 200

Item No.	Item	Input Data	Default
01	**DP Interdigit Time Selection** The DP Interdigit Time is the minimum pause time between dial pulses. Use this Program to select either Pattern A or pattern B.	0 = Pattern A (Pattern A: 10pps – 650ms, 20pps – 50ms) 1 = Pattern B (Pattern B: 10pps – 800ms, 20pps – 80ms)	1 (Pattern B)
02	**Prepause Time Selection** Specifies the loop open time for a hookflash signal sent to the CO or PBX when the Recall key on a multiline terminal is pressed. A single line telephone (SLT) generates a hookflash to the CO or PBX line when a SLT hookflash is assigned.	1~13 (1~13 seconds) (0 = No Setting)	1 (1sec)
03	**Incoming Signal Detect Time Selection** Specifies the time after the incoming signal from another system is detected before the acknowledge signal is sent out.	0~15 (50~800ms)	3 (200ms)
04	**Disconnect Recognition Time Selection** Specifies the minimum time before a disconnected circuit can be accessed again.	1~15 (100ms~1.5 seconds) (0 = No Setting)	3 (300ms)
05	**Auto Release Signal Detection Time** Specifies the signal detection time for release of a CO/PBX line after a disconnect signal is received from the distant CO or PBX.	1~14 (50~700ms) 15 = ∞ (No limit) (0 = No Setting)	7 (350ms)
06	**Pause Time Selection**	1~15 (500~7500ms)	6 (3000ms)

Item No.	Item	Input Data	Default
07	**Hookflash Time Selection 1** Normal Hook Flash	0 = 20ms 1 = 40ms 2 = 60ms 3 = 80ms 4 = 100ms 5 = 140ms 6 = 160ms 7 = 200ms 8 = 400ms 9 = 600ms 10 = 800ms 11 = 1.0 seconds 12 = 1.5 seconds 13 = 2.0 seconds 14 = 3.0 seconds 15 = 5.0 seconds	9 (600ms)
08	**Hookflash Time Selection 2** Long Hook Flash	0 = 20ms 1 = 40ms 2 = 60ms 3 = 80ms 4 = 100ms 5 = 140ms 6 = 160ms 7 = 200ms 8 = 400ms 9 = 600ms 10 = 800ms 11 = 1.0 seconds 12 = 1.5 seconds 13 = 2.0 seconds 14 = 3.0 seconds 15 = 5.0 seconds	14 (3.0sec)

Conditions
None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk
81-11 : Tie Line Initial Setup

Level:
IN

Description

Use **Program 81-11 : Tie Line Initial Setup** to define the various initial data for DID/TLI/DTI packages.

Input Data

Trunk No.	1~ 200

Item No.	Item	Input Data	Default
01	**DP Interdigit Time Selection** The DP Interdigit Time is the minimum pause time between dial pulses. Use this Program to select either Pattern A or pattern B.	0 = Pattern A (Pattern A: 10pps – 650ms, 20pps – 500ms) 1 = Pattern B (Pattern B: 10pps – 800ms, 20pps – 800ms)	1
02	**Prepause Time Selection** Specifies the loop open time for a hookflash signal sent to the Tie Line when the Recall key on a multiline terminal is pressed. A Single Line Telephone (SLT) generates a hookflash to the Tie Line when a SLT hookflash is assigned.	1~4 (1~4 = 0.5~2.0 seconds) (5~15 = 3.0~13 seconds) (0 = No Setting)	0 (No Setting)
03	**Tie Line Answer Detect Time Selection** Specifies the time before a UNIVERGE SV8100 system answer (Off-Hook) is recognized as an answer.	0~15 (130ms~1950ms) (0 = No Setting)	4 (520ms)
04	**Tie Line Release Detect Time Selection** Specifies the circuit disconnect detected on the Tie Line on the distant system side is recognized as Tie Line.	0~15 (130ms~1950ms) (0 = No Setting)	4 (520ms)

Item No.	Item	Input Data	Default
05	**Incoming Signal Detect Time Selection** Specifies the time after the incoming signal from another system is detected before the acknowledge signal is sent out.	[Wink Start] 1~15 (130ms~1950ms) (0 = No Setting) [Delay] 1~15 (30ms~450ms) (0 = No Setting)	[Wink Start] 3 (390ms) [Delay] 3 (90ms)
06	**Loop Off-Guard Time Selection** Assign loop off-guard time to prevent noise that could cause the system to be unable to answer an incoming Tie line.	1~4 (0.5sec~2.0sec) 5~15 (3sec~13sec) (0 = No Setting)	4 (2.0sec)
07	**Length of Wink Signal Selection** Specifies the time a wink pulse is sent to another system.	0~15 (30ms~480ms)	5 (180ms)
08	**Length of Delay Signal Selection** Specifies the time a delay pulse is sent to another system.	1~15 (300ms~4.5sec) (0 = No Setting)	1 (300ms)
09	**Incoming Interdigit Timeout Selection** To specify the time, in seconds, that an address signal is missing during the incoming call detection process before an error tone is returned to the other system.	0 = 8 1~15 (1~15 seconds)	6 (6 seconds)
10	**Wink/Delay Signal Detect Timeout Selection** To specify a maximum time, in seconds, for receiving an acknowledgment signal from a distant system before sending a busy tone.	0 = 8 1~15 (1~15 seconds)	7 (7 seconds)
11	**Disconnect Recognition Time Selection** Specifies the minimum time before a disconnected circuit can be accessed again.	1~15 (0.1~1.5 seconds) (0 = No Setting)	3 (0.3 second)
12	**Automatic Release Signal Detection Selection** Specifies the signal detection time for release of a Tie Line after a disconnect signal is received from the distant CO or PBX.	1~14 (50~700ms) 15 = ∞ (No limit) (0 = No Setting)	7 (350ms)
13	**Pause Time Selection**	1~15 (500~7500ms)	6 (3000ms)

Item No.	Item	Input Data	Default
14	**Hookflash Time Selection 1**	0 = 20ms 1 = 40ms 2 = 60ms 3 = 80ms 4 = 100ms 5 = 140ms 6 = 160ms 7 = 200ms 8 = 400ms 9 = 600ms 10 = 800ms 11 = 1.0 seconds 12 = 1.5 seconds 13 = 2.0 seconds 14 = 3.0 seconds 15 = 5.0 seconds	9 (600ms)
15	**Hookflash Time Selection 2**	0 = 20ms 1 = 40ms 2 = 60ms 3 = 80ms 4 = 100ms 5 = 140ms 6 = 160ms 7 = 200ms 8 = 400ms 9 = 600ms 10 = 800ms 11 = 1.0 seconds 12 = 1.5 seconds 13 = 2.0 seconds 14 = 3.0 seconds 15 = 5.0 seconds	14 (3.0sec)

Conditions
None

Feature Cross Reference

None

Program 81 : Basic Hardware Setup for Trunk

81-12 : Trunk Pad Level Data Setup

Level:
IN

Description

Use **Program 81-12 : Trunk Pad Level Data Setup** to define the various initial data for TLI/DTI/DID/BRT/PRT package.

Input Data

Trunk Number	1~200

Item No.	Item	Input Data	Default
01	**Internal Transmit Pad Level**	0 = +2dB	3 = +8dB
02	**Internal Receive Pad Level**	1 = +4dB 2 = +6dB	3 = +8dB
03	**External (tandem) Transmit Pad Level**	3 = +8dB	8 = 0dB
04	**External (tandem) Receive Pad Level**	4 = +12dB 5 = +16dB 6 = +3dB 7 = -3dB 8 = 0dB	8 = 0dB

Conditions
None

Feature Cross Reference

None

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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*.

Program

82

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

Ringing Tone Type Number	1 = High 2 = Mid 3 = Low

Item No.	Item	Input Data
01	**Frequency 1**	1 = 520Hz
02	**Frequency 2**	2 = 540Hz 3 = 660Hz 4 = 760Hz 5 = 1100Hz 6 = 1400Hz 7 = 2000Hz

Item No.	Item	Input Data
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

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	**ACD Log In**	0~7	1
02	**ACD Log Out**	0~7	4
03	**ACD Emergency Call**	0~7	3

LED Pattern 0 : [OFF]

On
Off

LED Pattern 1 : [FL: On(500ms)/Off(500ms)]

On
Off

LED Pattern 2 : [WK: On(250ms)/Off(250ms)]

On
Off

LED Pattern 3 : [RW: On(125ms)/Off(125ms)]

On
Off

LED Pattern 4 : [IR: On(125ms)/Off(125ms)/On(125ms)/Off(625ms)]

On
Off

LED Pattern 5 : [IL: On(875ms)/Off(125ms)]

On
Off

LED Pattern 6 : [IW: On(625ms)/Off(125ms)/On(125ms)/Off(125ms)]

On
Off

LED Pattern 7 : [ON]

On
Off

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 = u-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
82-07 : 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~ 256

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	42
02	B1 Filter Setup(2)	0~255	251
03	B1 Filter Setup(3)	0~255	93
04	B1 Filter Setup(4)	0~255	188
05	B1 Filter Setup(5)	0~255	77
06	B1 Filter Setup(6)	0~255	195
07	B1 Filter Setup(7)	0~255	58
08	B1 Filter Setup(8)	0~255	76
09	B1 Filter Setup(9)	0~255	166
10	B1 Filter Setup(10)	0~255	168
11	B1 Filter Setup(11)	0~255	244
12	B1 Filter Setup(12)	0~255	255
13	B1 Filter Setup(13)	0~255	34
14	B1 Filter Setup(14)	0~255	240
15	B2 Filter Setup(1)	0~255	61
16	B2 Filter Setup(2)	0~255	1

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
82-11 : LCA Initial Data Setup

Level:
IN

Description

Use **Program 82-11 : LCA Initial Data Setup** to define the various timers for LCA Packages.

Input Data

Item No.	Item	Description	Input	Default
01	**Bounce Protect Time**	Specify a time for detection of a valid off-Hook indication that is long enough to prevent an unintentional bounce of the receiver from being detected as a new Off-Hook indication from a Single Line Telephone.	0 = No Setting 1~15 = 100ms~1.5sec	3
02	**HookFlash Start Time**	Specify the minimum hookflash time from a Single Line Telephone or analog Voice Mail system before it is detected as the beginning of a valid hookflash.	0 = 40ms 1~15 = 90ms~790ms	5
03	**HookFlash End Time**	Specify the maximum hookflash duration from a Single Line Telephone to receive a second dial tone.	0 = HST+0ms 1~15 = HST+100ms~HST+1500ms (HST=Hookflash Start Time)	7

Conditions
None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension
82-12 : OPX Initial Data Setup

Level:
IN

Description

Use **Program 82-12 : OPX Initial Data Setup** to define the various initial data for
OPX packages.

Input Data

Item No.	Item	Description	Input	Default
01	**Bounce Protect Time**	Specify a time for detection of a valid off-Hook indication that is long enough to prevent an unintentional bounce of the receiver from being detected as a new Off-Hook indication from a single line telephone.	0 = No Setting 1~15 = 100ms~1.5sec	3
02	**HookFlash Start Time**	Specify the minimum hookflash time from a single line telephone or analog Voice Mail system before it is detected as the beginning of a valid hookflash.	0 = 40ms 1~15 = 90ms~790ms	5
03	**HookFlash End Time**	Specify the maximum hookflash duration from a single line telephone to receive a second dial tone.	0 = HST+0ms 1~15=HST+100ms~HST+1500ms (HST=Hookflash Start Time)	7

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 = u-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)	0~270ms	30
08	G.729 Jitter Buffer (average)	0~270ms	60
09	G.729 Jitter Buffer (max)	0~270ms	120
11	Number of G.723 audio frames	1~2	1
12	G.723 VAD mode	0 = Disable 1 = Enable	0
13	--- Not Used ---		

Program

84

Input Data

Item No.	Item	Input Data	Default
15	**Jitter Buffer Mode**	1 = Fixed 2 = Self adjusting (silence period) 3 = Self adjusting	3
16	**G.711 Jitter Buffer(min)**	0~160	30
17	**G.711 Jitter Buffer (average)**	0~160	60
18	**G.711 Jitter Buffer (max)**	0~160	120
19	**G.723 Jitter Buffer(min)**	0~270	30
20	**G.723 Jitter Buffer (average)**	0~270	60
21	**G.723 Jitter Buffer (max)**	0~270	120
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
23	**Idle Noise Level**	-5000dbm ~ -7000dbm	7000
24	**Echo Canceller Mode**	0 = Disable 1 = Enable	1
25	**Echo Canceller Tail Size**	1 = 4ms 2 = 8ms 3 = 16ms 4 = 32ms 5 = 64ms 6 = 128ms	6
26	**Echo Canceller NLP Mode**	0 = Disable 1 = Enable	1
28	**Echo Canceller NLP Noise Setting**	0 = Automatic level adjustment 1 = Fixed level	0
30	**TX Gain**	0~40 (-20dbm~ +20dbm)	20
31	**RX Gain**	0~40 (-20dbm~ +20dbm)	20
33	**Priority CODEC setting** Priority of voice encoding method.	0~3 0 = G.711 1 = G.723 2 = G.729 3 = G.722	0

Input Data

Item No.	Item	Input Data	Default
34	**--- Not Used ---**		
35	**--- Not Used ---**		
36	**The Maximum FAX Transmission Rate**	0 = V.27ter, 2400bps 1 = V.27ter, 4800bps 2 = V.29, 7200bps 3 = V.29, 9600bps 4 = V.17, 12000bps 5 = V.17, 14400bps	5
37	**FAX FIFO Considering Delay Time**	0~600ms	300
38	**Size of FAX Packet**	20~48 bytes	20
39	**FAX Modem Transmission Level**	0~13 (0dBm ~ -13dBm)	9
40	**FAX Modem Carrier Signal Detection Threshold**	0 = -26dBm 1 = -33dBm 2 = -43dBm	1
41	**FAX Communication no Communication Time-Out**	10~32000 seconds	30
43	**High-speed Signal Data (fax picture signal) Packet Length**	1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	4
44	**Low-speed Signal Data (FAX Procedure Signal)**	0~5	0
45	**High-speed Signal Data (FAX Procedure Signal)**	0~2	0
46	**TCF Operation Setting**	1 = Training signal (TCF) of the fax is locally generated and checked. 2 = Training signal (TCF) of the fax is sent over the network.	1
47	**The Maximum, Low-speed Signal Data (Size of Packet)**	1~65535 bytes	1
48	**Network Transmission Time-out**	10~32000 seconds	150
49	**Eflag Beginning Timer**	0~65535	2600
50	**Eflag Stop Timer**	0~65535	2300
51	**The Former Line Substitution of Scanning Line** (FAX Relay item)	0 = Disable 1 = Enable	1

Input Data

Item No.	Item	Input Data	Default
52	**Eflag Setting at Head DIS** (FAX Relay item)	0 = Disable 1 = Enable	1
53	**TFOP Protocol** (FAX Relay item)		1
54	**NSF Superscription** (FAX Relay item)		0
55	**ECM (Error Correction Mode)**		1
56	**Enable Modified Read Code**		1
57	**NSF Country Code Setting**	0~65535	0
58	**NSF Vendor Code Setting**		0
59	**FAX Relay Function**	0 = Disable 1 = Enable 2 = Each port mode	0
60	**Echo Canceller Type**	0~3	0
61	**Auto Gain Control**	0~5	0
62	**DTMF Relay Mode** Set up information of VoIP is set by PRG 84-06-10.	0 = VoIP 1 = RFC2833 2 = H.245 3 = Disable	0
63	**Number of G.722 audio frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
64	**G.722 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
65	**G.722 Jitter Buffer (min)**	0~160ms	30
66	**G.722 Jitter Buffer (average)**	0~160ms	60
67	**G.722 Jitter Buffer (max)**	0~160ms	120

Conditions
None

Feature Cross Reference

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

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 = Enable0	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
84-03 : IP Phone Information Basic Setup

Level:

IN

Description

Use **Program 84-03 : IP Phone Information Basic Setup** to define the details of IP Terminals and Adapters.

Input Data

Terminal Type	1 = *D^term* IP / UNIVERGE SV8100 Multiline Terminal with IP Adapter 2 = Soft Phone 3 = Bundle IP Phone

Item No.	Item	Input Data	Default
06	**Area Number**	0 = Japan 1 = USA 2 = Australia 3 = EU 4 = Asia 5 = Other Country 6 = Germany 7 = Italy 8 = Netherlands 9 = Austria 10 = Belgium 11 = Spain 12 = Sweden 13 = UK 14 = Denmark 15 = Greece 16 = Switzerland 17 = RSA 18 = New Zealand	1
10	**Signaling Server Port**	0~65535	5029
11	**Negotiation Timer**	0~255 (sec)	5

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.

(This program is not available with V1000)

(This program is available only via telephone programming and not through PC Programming).

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 CD-CP00-US if the value exceeds the defined value.
05	**Packets Lost Threshold**	0~16777215	0	The data is sent to the CD-CP00-US if the value exceeds the defined value.
07	**Jitter Threshold**	0~4294967295 (sec)	0	The data is sent to the CD-CP00-US if the value exceeds the defined value.
09	**Delay LSR Threshold**	0~4294967295 (sec)	0	The data is sent to the CD-CP00-US 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**	0.0.0.0~126.255.255.254 128.0.0.1~191.255255.254 192.0.1.1~223.255.254.254	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

84-08 : Firmware Name Setup

Level:
IN

Description

Use **Program 84-08 : Firmware Name Setup** to set up the directory and filename for the firmware that is downloaded to IP phones.

Input Data

Terminal Type	1 = IP Terminal
	2 = IP Adapter

Input Data

Item No.	Item	Input Data	Default
02	**Firmware File Name**	Up to 30 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.

Input Data

Item No.	Item	Input Data	Default
01	VLAN (Future Use)	0 = Disable (Off) 1 = Enable (On)	0
02	VLAN ID (Future Use)	1~4094	0
03	Priority (Future Use)	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 = DT700 MLT
	9 = SIP Trunk
	10 = NetLink

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
84-11 : D*term* ® IP CODEC Information Basic Setup

Level:

IN

Description

Use **Program 84-11 : D*term* IP CODEC Information Basic Setup** to set voice (RTP packet) encoding parameters.

Input Data

Type	1~5

Item No.	Item	Input Data	Default
01	**Number of G711 Audio Frames**	2~3 (2 = 20ms, 3 = 30ms)	3
02	**G711 VAD mode**	0 = Disable 1 = Enable	0
03	**G711 Type**	0 = A-law 1 = u-law	1
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**	1~4 (1 = 10ms, 4 = 40ms)	3
08	**G.729 VAD mode**	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer Min**	0~200ms	30
10	**G.729 Jitter Buffer Average**	0~200ms	60
11	**G.729 Jitter Buffer Max**	0~200ms	120
17	**Jitter Buffer Mode**	1 = Static 2 = Immediate	2

Item No.	Item	Input Data	Default
18	**VAD Threshold**	0~30 = -19db~+10db 0 = Adaptec Threshold 1 = -19db(-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm(-21dbm) 30 = 10dbm(-20dbm)	20
26	**TX Gain**	0~40 (-20dbm~ +20dbm) 0 = -14dbm 1 = -13dbm : 14 = 0dbm : 19 = 5dbm 20 = 6dbm	14
27	**RX Gain**	0~40 (-20dbm~ +20dbm) 0 = -14dbm 1 = -13dbm : 14 = 0dbm : 19 = 5dbm 20 = 6dbm	14
28	**Audio Capability Priority**	0 = G.711_PT 2 = G.729_PT	0

Conditions
None

Feature Cross Reference

❏   Voice Over Internet Protocol (VoIP)

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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
01	**Number of G.711 Audio Frames**	1~4 (1 = 10ms, 4 = 40ms)	2
02	**G.711 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
03	**G.711 Type**	0 = A-law 1 = u-law	1
04	**G.711 Jitter Buffer (min)**	0~160ms	20
05	**G.711 Jitter Buffer (average)**	0~160ms	40
06	**G.711 Jitter Buffer (max)**	0~160ms	80
07	**Number of G.729 Audio Frames**	1~6 (1 = 10ms, 6 = 60ms)	2
08	**G.729 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
09	**G.729 Jitter Buffer (min)**	0~270ms	20
10	**G.729 Jitter Buffer (average)**	0~270ms	40
11	**G.729 Jitter Buffer (max)**	0~270ms	80
17	**Jitter Buffer Mode**	1 = Fixed 2 = Adaptive during silence 3 = Adaptive Immediately	3

Input Data

Item No.	Item	Input Data	Default
18	**VAD Threshold**	0~30 (-19db~+10db) 0 = Self adjustment 1 = -19db (-49dbm) : 2 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30 = 10dbm (-20dbm)	20
26	**TX Gain**	0~40 (-20dbm ~ +20dbm) 0 = -20dbm 1 = -19 dbm : 20 = 0dbm : 39 = 19dbm 40 = 20dbm	20
27	**RX Gain**	0~40 (-20dbm ~ +20dbm) 0 = -20dbm 1 = -19 dbm : 20 = 0dbm : 39 = 19dbm 40 = 20dbm	20
28	**Audio Capability Priority**	0 = G.711_PT 1 = G.723_PT 2 = G.729_PT 3 = G.722_PT 4 = G.726_PT 5 = Not Used	0
31	**DTMF Payload Number**	96~127	110
32	**DTMF Relay Mode**	0 = Disable 1 = RFC2833	0
33	**Number of G.722 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
34	**G.722 VAD Mode**	0 = Disable 1 = Enable	0
35	**G.722 Jitter Buffer (min)**	0~160ms	30

Input Data

Item No.	Item	Input Data	Default
36	G.722 Jitter Buffer (average)	0~160ms	60
37	G.722 Jitter Buffer (max)	0~160ms	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)	0~160ms	30
41	G.726 Jitter Buffer (average)	0~160ms	60
42	G.726 Jitter Buffer (max)	0~160ms	120
43	--- Not Used ---		
44	--- Not Used ---		
45	--- Not Used ---		
46	--- Not Used ---		
47	--- Not Used ---		
48	--- Not Used ---		

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
01	**INVITE ReTx Count** Specifies the number of times the INVITE message is sent.		7
02	**Request ReTx Count** Specifies the number of times Request message except INVITE are sent.	0~255	11
03	**Response ReTx Count** Specifies the number of times the Response message is sent.		7
04	**Request ReTx Start Time**	0~65535 (0ms~6553.5sec.)	5(500ms)
05	**Request Maximum ReTx Interval**		40(4000ms)
06	**SIP Trunk Port Number**	1~65535	5060
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

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 (Enable), 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 (-15dbm ~ +15dbm) 0 = -15dbm 1 = -14dbm : 15 = 0dbm : 29 = 14dbm 30 = 15dbm	15 (0dbm)
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 (0dbm)
03	**RX Limiter Control Gain (CD-4COTB)** This option controls the limiter gain for a COIU call in the IP to PCM direction.		15 (0dbm)
04	**TX Limiter Control Gain (CD-4COTB)** This option controls the limiter gain for a COIU call in the PCM to IP direction.		15 (0dbm)

Conditions
None

Feature Cross Reference

❏   Voice Over Internet Protocol (VoIP)

Program 84 : Hardware Setup for VoIP
84-17 : IPL Echo Canceller Control Setup (IN Level)

Level:
IN

Description

Use **Program 84-17 : IPL Echo Canceller Control Setup** to configure echo cancellation.

Input Data

Type	4~5 (Type 1, 2 and 3 are not used) Type 4 = Analog trunks Type 5 = Digital/MEGACO trunks

Item No.	Item	Input Data	Default
01	**Echo Canceller Mode**	0 = Disable 1 = Enable	Type 4 = 1 Type 5 = 1
02	**Echo Canceller Tail Size**	1 = 8ms 2 = 16ms 3 = 32ms 4 = 64ms 5 = 128ms	Type 4 = 5 Type 5 = 1
03	**Echo Canceller NLP Mode**	0 = Disable 1 = Enable	Type 4 = 1 Type 5 = 0
04	**Echo Canceller NLP Noise Setting**	0 = Adaptive 1 = Fixed	0
05	**Echo Canceller NLP Noise Level**	40~70 (-40dbm~ -70dbm)	60

Conditions

None

Feature Cross Reference

None

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

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 = u-law	1
04	**G.711 Jitter Buffer (min)**	0~160ms	20
05	**G.711 Jitter Buffer (Average)**	0~160ms	40
06	**G.711 Jitter Buffer (max)**	0~160ms	80
07	**Number of G.729 Audio Frames**	1~6 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms 5 = 50ms 6 = 60ms	2
08	**G.729 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
09	**G.729 Jitter Buffer (min)**	0~270ms	20
10	**G.729 Jitter Buffer (average)**	0~270ms	40
11	**G.729 Jitter Buffer (max)**	0~270ms	80

Input Data

Item No.	Item	Input Data	Default
17	**Jitter Buffer Mode**	1 = Static 2 = Adaptive during Silence 3 = Adaptive Immediately	3
18	**VAD Threshold**	0~30	20
26	**TX Gain**	0~30 (-19db ~ +10db, Auto) 0 = Auto Adjust 1 = -19db (-49dbm) : 20 = 0db (-30dbm) : 29 = +9db (-21dbm) 30 = +10db (-20dbm)	20
27	**RX Gain**	0~40 (-20dbm ~ +20dbm) 0 = -20dbm 1 = -19dbm : 20 = 0dbm : 39 = +19dbm 40 = +20dbm	20
28	**Audio Capability Priority**	0 = G.711_PT 1 = G.723_PT 2 = G.729_PT 3 = G.722 4 = G.726 5 = Not Used	0
31	**DTMF Payload Number**	96~127	96
32	**DTMF Relay Mode**	0 = Disable 1 = RFC2833	0
33	**Number of G.722 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
34	**G.722 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
35	**G.722 Jitter Buffer (min)**	0~160ms	30

Input Data

Item No.	Item	Input Data	Default
36	**G.722 Jitter Buffer (Average)**	0~160ms	60
37	**G.722 Jitter Buffer (max)**	0~160ms	120
38	**Number of G.726 Audio Frames**	1~4 (1 = 10ms, 4 = 40ms)	3
39	**G.726 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
40	**G.726 Jitter Buffer (min)**	0~160ms	30
41	**G.726 Jitter Buffer (Average)**	0~160ms	60
42	**G.726 Jitter Buffer (max)**	0~160ms	120
43	**--- Not Used ---**		
44	**--- Not Used ---**		
45	**--- Not Used ---**		
46	**--- Not Used ---**		
47	**--- Not Used ---**		
48	**--- Not Used ---**		

Conditions

❍ These commands are for SIP analog extensions.

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.

Input Data

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

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 PZ-32IPLA, PZ-64IPLA, and PZ-128IPLA.

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 = u-law	1
03	**G.711 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
04	**G.711 Jitter Buffer Min**	0~160ms	30
05	**G711 Jitter Buffer Average**	0~160ms	60
06	**G.711 Jitter Buffer Max**	0~160ms	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	**G729 Jitter Buffer Min**	0~270ms	30
10	**G729 Jitter Buffer Average**	0~270ms	60
11	**G729 Jitter Buffer Max**	0~270ms	120

Input Data

Item No.	Item	Input Data	Default
12	**G.723 Audio Frame Number**	1 = 30ms 2 = 60ms	1
13	**G.723 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
14	**G723 Jitter Buffer Min**	0~270ms	30
15	**G723 Jitter Buffer Average**	0~270ms	60
16	**G.723 Jitter Buffer Max**	0~270ms	120
17	**TX Gain**	0~40 (-20dbm ~ +20dbm) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = +19 dbm 40 = +20 dbm	20
18	**RX Gain**	0~40 (-20dbm ~ +20dbm) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = +19 dbm 40 = +20 dbm	20
19	**1st Priority of Audio Capability**	0 = G.711 PT 1 = G.723 PT 2 = G.729 PT 3 = G.722 4 = G.726 5 = Not Used	0
20	**2nd Priority of Audio Capability**	0 = G.711 PT 1 = G.723 PT 2 = G.729 PT 3 = G.722 PT 4 = G.726 PT 5 = Not Used	1
21	**DTMF Relay Mode**	0 = Disable 1 = Inbound (RFC2833) 2 = Outbound (H.245)	0
22	**Jitter Buffer Mode**	1 = Static 2 = Silence 3 = Immediate	3

Input Data

Item No.	Item	Input Data	Default
23	**Voice Activity Detection Threshold**	0 = Self adjustment 1 = -19dbm (-49dbm) : 20 = 0dbm (-30dbm) : 29 = +9dbm (-21dbm) 30 = +10dbm (-20dbm)	20
24	**Echo Canceller Mode**	0 = Disable 1 = Enable	1
25	**NLP Echo Canceller Mode**	0 = Disable 1 = Enable	1
26	**UDP Checksum Mode**	0 = Disable 1 = Enable	1
27	**G.722 Audio Frame Number**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
28	**G.722 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0
29	**G.722 Jitter Buffer (min)**	0~160ms	30
30	**G.722 Jitter Buffer (Average)**	0~160ms	60
31	**G.722 Jitter Buffer (max)**	0~160ms	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)**	0~160ms	30
35	**G.726 Jitter Buffer (Average)**	0~160ms	60
36	**G.726 Jitter Buffer (max)**	0~160ms	120
37	**--- Not Used ---**		
38	**--- Not Used ---**		
39	**--- Not Used ---**		

Input Data

Item No.	Item	Input Data	Default
40	**--- Not Used ---**		
41	**--- Not Used ---**		
42	**FAX Relay Mode**	0 = Disable 1 = Enable 2 = Each Port Mode (each extension)	0

Conditions

None

Feature Cross Reference

❑ Voice Over Internet Protocol (VoIP)

Program 84 : Hardware Setup for VoIP
84-22 : DT700 Multiline Logon Information Setup

Level:
IN

Description

Use **Program 84-22 : DT700 Multiline Logon Information Setup** to set the DT700 Multiline logon information.

Input Data

Personal ID Index	1~512

Input Data

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).	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** Input the Personal ID from terminal automatically when log on again.	0 = Off 1 = On	1
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 : DT700 Multiline Basic Information Setup

Level:
IN

Description

Use **Program 84-23 : DT700 Multiline Basic Information Setup** to set the basic information for the DT700 Multiline Terminal.

Input Data

Item No.	Item	Input Data	Default
01	**Registration Expire Timer** The Expires value of the REGISTER message which received from DT700 terminal is out of range or when the Expire value is not set up, in case it assigns the effective time to the DT700 terminal. The timer for supervising whether DT700 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 DT700 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 DT700 terminal.	0~65535 (sec)	180
06	**Signal Type of Service** Set Type of Service value which applied to send SIP Message Packet from DT700 terminal to Main Device.	0x00~0xFF (0~9, A~F)	00
07	**Error Display Timer**	0~65535 (sec)	0

Input Data

Item No.	Item	Input Data	Default
08	**Digest Authorization Registration Expire Timer**	0~4294967295 (sec)	0
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 : DT700 Multiline CODEC Basic Information Setup

Level:
IN

Description

Use **Program 84-24 : DT700 Multiline CODEC Basic Information Setup** to set the codec of each type of DT700 Multiline Telephone.

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	**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	**--- Not Used ---**		
03	**G.711 Type** This decides the G.711 type. In North America, typically u-law is used.	0 = A-law 1 = u-law	1
04	**G.711 Jitter Buffer Min**	0~160ms	20
05	**G.711 Jitter Buffer Average**	0~160ms	40
06	**G.711 Jitter Buffer Max**	0~160ms	80
07	**Number of G.729 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	2
08	**--- Not Used ---**		
09	**G729 Jitter Buffer Min**	0~270ms	20
10	**G729 Jitter Buffer Average**	0~270ms	40

Item No.	Item	Input Data	Default
11	**G729 Jitter Buffer Max**	0~270ms	80
17	**Jitter Buffer Mode**	1 = Static 2 = Adaptive during silence 3 = Adaptive immediate	3
18	**--- Not Used ---**		
19	**Idle Noise Level**	5000~7000 (-5000dbm~ -7000dbm)	7000
20	**Echo Canceller Mode**	0 = Disable 1 = Enable	1
21	**Echo Canceller Tail Size**	1 = 4ms 2 = 8ms 3 = 16ms 4 = 32ms 5 = 64ms 6 = 128ms	6
22	**Echo Canceller NLP Mode**	0 = Disable 1 = Enable	1
24	**Echo Canceller CNG Configuration**	0 = Adaptive 1 = Fixed	0
26	**TX Gain** Input the TX gain from the IPLA to the telephone.	0~40 (-14dbm~+14dbm) 0 = -20dbm 1 = -19dbm : 20 = 0dbm : 39 = 19dbm 40 = 20dbm	20
27	**RX Gain** Input the RX gain from the IPLA to the telephone.	0~40 (-14dbm~+14dbm) 0 = -20dbm 1 = -19dbm : 20 = 0dbm : 39 = 19dbm 40 = 20dbm	20
28	**Audio Capability Priority**	0~3 0 = G.711_PT 2 = G.729_PT 3 = G.722_PT	0

Item No.	Item	Input Data	Default
29	**Echo Canceller Configuration Type** Auto (0) means that the system automatically decides a type (Type 4 or Type 5) of echo canceller on PRG84-17 for a telephone on the basis of a seized trunk.	0~3 0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	**Auto Gain Control** Auto (0) means that the system automatically decides a type (Type 4 or Type 5) of echo canceller on PRG84-17 for a telephone on the basis of a seized trunk.	0~5	0
32	**G.722 Audio Frame Number**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
33	**--- Not Used ---**		
34	**G.722 Jitter Buffer (min)**	0~160ms	30
35	**G.722 Jitter Buffer (Average)**	0~160ms	60
36	**G.722 Jitter Buffer (max)**	0~160ms	120

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 = u-law	1
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**	1~6 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	**G729 Jitter Buffer Min**	0~270ms	30
10	**G729 Jitter Buffer Average**	0~270ms	60
11	**G729 Jitter Buffer Max**	0~270ms	120

Input Data

Item No.	Item	Input Data	Default
12	**Number of G.723 Audio Frames**	1~2 1 = 30ms 2 = 60ms	1
13	**G.723 Voice Activity Detection Mode**	0 = Disable 1 = Enable	0
14	**G.723 Jitter Buffer Min**	0~270ms	30
15	**G.723 Jitter Buffer Average**	0~270ms	60
16	**G.723 Jitter Buffer Max**	0~270ms	120
17	**Jitter Buffer Mode**	1 = Static 2 = Adaptive during silence 3 = Adaptive immediate	3
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
19	**Idle Noise Level**	5000~7000 (-5000dbm~ -7000dbm)	7000
20	**Echo Canceller Mode**	0 = Disable 1 = Enable	1
21	**Echo Canceller Tail Size**	1 = 4ms 2 = 8ms 3 = 16ms 4 = 32ms 5 = 64ms 6 = 128ms	6
22	**Echo Canceller NLP Mode**	0 = Disable 1 = Enable	1
24	**Echo Canceller CNG Configuration**	0 = Adaptive 1 = Fixed	0

Input Data

Item No.	Item	Input Data	Default
26	**TX Gain**	0~40 (-14dbm~+14dbm) 0 = -20dbm 1 = -19dbm : 20 = 0dbm : 39 = 19dbm 40 = 20dbm	20
27	**RX Gain**	0~40 (-14dbm~+14dbm) 0 = -20dbm 1 = -19dbm : 20 = 0dbm : 39 = 19dbm 40 = 20dbm	20
28	**Audio Capability Priority**	0~3 0 = G.711_PT 1 = G.723_PT 2 = G.729_PT 3 = G.722_PT 4 = G.726 5 = Not Used	0
29	**Echo Canceller Configuration Type**	0~3 0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	**Auto Gain Control**	0~5	0
31	**DTMF Relay Mode**	0 = Disable 1 = RFC2833	0
32	**Fax Relay Mode**	0 = Disable 1 = Enable 2 = Each port mode	0
33	**Number of G.722 Audio Frames**	1~4 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
34	**G.722 Voice Activity Detection Mode**	0 = Disabled 1 = Enabled	0

Input Data

Item No.	Item	Input Data	Default
35	**G.722 Jitter Buffer (min)**	0~160ms	30
36	**G.722 Jitter Buffer (Average)**	0~160ms	60
37	**G.722 Jitter Buffer (max)**	0~160ms	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)**	0~160ms	30
41	**G.726 Jitter Buffer (Average)**	0~160ms	60
42	**G.726 Jitter Buffer (max)**	0~160ms	120
43	**--- Not Used ---**		
44	**--- Not Used ---**		
45	**--- Not Used ---**		
46	**--- Not Used ---**		
47	**--- Not Used ---**		
48	**--- Not Used ---**		

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.

Index 1

Slot Number	1

VoIP GW Number	01~08

Item No.	Item	Input Data	Default
01	**IP Address**	xxx.xxx.xxx.xxx	Slot 1 = 172.16.0.20 : Slot 4 = 172.16.0.44 VoIP GW Number 1~8: 172.16.0.20~172.16.16.0.27
02	**RTP Port Number**	0~65534	VoIP GW1 = 10020 VoIP GW2 = 10052 VoIP GW3 = 10084 VoIP GW4 = 10116 VoIP GW5 = 10148 VoIP GW6 = 10180 VoIP GW7 = 10212 VoIP GW8 = 10244
03	**RTCP Port Number (RTP Port Number +1)**	0~65534	VoIP GW1 = 10021 VoIP GW2 = 10053 VoIP GW3 = 10085 VoIP GW4 = 10117 VoIP GW5 = 10149 VoIP GW6 = 10181 VoIP GW7 = 10213 VoIP GW8 = 10245

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.

Index 1

Slot Number	1

Input Data

Item No.	Item	Input Data	Default
01	**DTMF Relay Setup**	0 = DTMF Relay disabled 1 = In-Band DTMF Relay -Do not report to host processor 2 = Out of Band Relay - Do not pass tones as voice	2
02	**Setup CODEC Mode** Default means the system uses another CODEC except G.723. Mode 1 means the system uses all CODECs, but the limitation of the total number of available DSP will be applied.	0 = Default 1 = Mode 1 (G.723)	0
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

Conditions
None

Feature Cross Reference

❏ Voice Over Internet Protocol (VoIP)

Program 84 : Hardware Setup for VoIP
84-28 : DT700 Multiline Firmware Name Setup

Level:
IN

Description

Use **Program 84-28 : DT700 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

Input Data

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 : SIP-MLT CODEC Information Fixed Mode Setup

Level:
IN

Description

Use **Program 84-29 : SIP-MLT CODEC Information Fixed Mode Setup** to set the CODEC data of the SIP-MLT when it uses Multicast.

Index 1

Type	1 = Type 1 (Multicast) 2 = Type 2 (reserved) 3 = Type 3 (reserved) 4 = Type 4 (reserved) 5 = Type 5 (reserved)

Input Data

Item No.	Item	Input Data	Default
01	**Audio Capability**	1 = G.711 A-law 2 = G.711 u-law 3 = G.729 4 = G.723 5 = G.722	2
02	**Number of Audio Frames**	1~6 1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms 5 = 50ms 6 = 60ms	2

Conditions
None

Feature Cross Reference

None

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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			5 (UA)	User Programming Level 1
7			5 (UA)	User Programming Level 1
8			5 (UA)	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

(This program is available only via telephone programming and not through PC Programming).

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.

Input Data

Item No.	Item	Input Data
01	**Save Data**	Dial **1** + press **Transfer** (Press **Transfer** to cancel.)

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

(This program is available only via telephone programming and not through PC Programming).

Use **Program 90-04 : Load Data** to load the system data from the inserted USB Flash Drive to the SRAM and Flash ROM in the system.

Input Data

Item No.	Item	Input Data
01	**Load Data**	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

(This program is available only via telephone programming and not through PC Programming).

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 an DLCA blade), the slot should be deleted (option 1) first before installing the new interface blade.

Reset allows you to send a reset code.

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

(This program is available only via telephone programming and not through PC Programming).

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 torn down.

Input Data

Menu Number	0 = Set Busy Out 1 = Reset Busy Out (idle)

Item No.	Item	Input Data
01	**Trunk Control**	Trunk Port Number: 001~200

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-07 : Station Control

Level:
SA

Description

(This program is available only via telephone programming and not through PC Programming).

Use **Program 90-07 : Station Control** for extension maintenance.

Input Data

Menu Number	1 = Hardware Reset 2 = Software Reset

Item No.	Item	Input Data
01	**Extension Control**	Extension Number (up to eight digits)

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-08 : System Reset

Level:
IN

Description

(This program is available only via telephone programming and not through PC Programming).

Use **Program 90-08 : System Reset** to perform a system reset.

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 is displayed to a multiline terminal and whether or not the alarm information is reported to the pre-defined 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)

Table 2-20 Description of Alarm

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 reinsert the PKG.	Upon 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 half. 2.The package is out of order.	1.Please insert the package firmly. 2.Please try again after initializing the system data once when LED doesn't blink normally. 3.Exchange of packages.	When the unit is reconfirmed, the error is recovered.	ERR REC

Table 2-20 Description of Alarm (Continued)

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
3	**2**	0	Communication fault between CD-CP00-US 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 half. 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.Please 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.Please use the power supply besides the equipment with the possibility of the noise source. 4.Please separate as much as possible and use a main device from the equipment by which you seem may generate the radiation noise. 5.Please ground the chassis correctly.	When the unit is reconfirmed, the error is recovered.	ERR REC
4	**2**	0	PKG S/W Download Error	The unit program was not able to be downloaded normally. The unit was not able to be started normally.	The package software is not stored in the downloaded USB memory. The stored package software is illegal. Package information that had been installed before remains.	Delete slot information that corresponds by PRG90-05-01 to delete package information that had been installed before. There is a possibility that the unit program is broken though an external factor of the noise etc. is thought. Please load into the USB memory and try again when you back up the unit program. Please inquire of the manufacturer when not restoring it.	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.	The cooling fan has stopped working. The cooling fan has come off.	Confirm that the cooling fan is turning. Verify the mounting of the cooling fan.	Replace the cooling fan if it is defective.	

Table 2-20 Description of Alarm (Continued)

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.	• Breakdown of terminal. • Faulty wiring and wiring determination. • External noise. • Breakdown of ESI package.	Confirm the terminal connected with same ESI. If they work normally, confirm the breakdown or the wiring for the terminal. 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. Please reconfirm wiring and the installation,etc. Please inquire of the manufacturer when the problem occurs after it confirms it.	The error is recovered when reconnecting or exchanging it.	ERR REC
7	**1**	0	Power failure	The supply of the commercial power stopped.	• The power cable came off. • Power failure • The power supply unit broke down.	Confirm the power supply outlet when the commercial power has not stopped. Please inquire of the manufacturer when the problem occurs.	When the commercial power is restored, the error is recovered.	ERR REC
8	**1**	0	RAM Backup Battery Error	RAM backup battery on the CD-CP00-US 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.	• Connected determination of main device and ISDN line • Breakdown of DSU • The setting of PRG10-03 is not corresponding to an actual line.	Confirm the data of PRG10-03. Reconfirm wiring and the installation of DSU. Please inquire of the manufacturer when the problem occurs after it confirms it.	When the connection returns normally, the error is recover.	ERR REC
11	**0**	0	CTI Link Error	The link with the CTI server came off.	• LAN cable defective. • Connected HUB broken. • The CTI server doesn't start normally.	Please reconfirm the CTI server, wiring, and the connection. Please inquire of the manufacturer when the problem occurs after it confirms it.	When the connection returns normally, the error is recover.	ERR REC
12	**0**	0	ACD MIS Link Error	The link with ACD MIS client PC came off.	• LAN cable defective. • Connected HUB broken. • The CTI server doesn't start normally.	Please confirm ACD MIS client PC and connected part. Please inquire of the manufacturer when the problem occurs after it confirms it.	When the connection returns normally, the error is recover.	ERR REC

Table 2-20 Description of Alarm (Continued)

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. Problem of wiring to connect main device with charge management device. 2. Problem of PC.	1. It is confirmed 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 the charge management software.	When the connection returns normally, the error is recover.	ERR REC
14	**0**	0	LAN Link Error	The link with LAN on CD-CP00-US came off.	• LAN cable defective. • Connected HUB broken. • Defect of CD-CP00-US	Confirm the operation of LAN connector, LAN cable, and HUB again.	When the connection returns normally, the error is recover.	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.	• LAN cable is defective. • Net side trouble. • Packet block by firewall. • Repetition of IP address.	Confirm whether the defect is on the Network side. Confirm the settings of HUB and the router, etc.	When the connection returns normally, the error is recovered.	ERR REC WAR
16	**0**	0	SMDR Link					
17~28	--- Reserved ---							
29	**0**	0	Charge Management Buffer full	The temporary buffer for the charge management in main device was overflowed, and a part of unoutput charge data disappeared because it was not able to 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. Please print and delete the charge data at the simple charge management. 2. Please 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 was overflowed, and a part of unoutput SMDR data disappeared because it was not able to output SMDR data.	1. Problem of wiring to connect main device with PC. 2. Problem of PC.	1. Please confirm whether there is problem in wiring to connect a main device with PC. 2. Please 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
31~34	--- **Reserved** ---							

Table 2-20 Description of Alarm (Continued)

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.	Please confirm the following matter when happening frequently when operating it. 1. Please confirm CS is normally connected. 2. Please confirm the wiring between CSIU-CS is normal. 3. Please exchange CS. 4. Please 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.	Please confirm the following matter when happening frequently when operating it. 1. Please confirm CS is normally connected. 2. Please confirm the wiring between CSIU-CS is normal. 3. Please exchange CS. 4. Please 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.	Please confirm the following matter when happening frequently when operating it. 1. Please confirm CS is normally connected. 2. Please confirm the wiring between CSIU-CS is normal. 3. Please exchange CS. 4. Please 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.	Please confirm the following matter when happening frequently when operating it. 1. Please confirm CS is normally connected. 2. Please confirm the wiring between CSIU-CS is normal. 3. Please exchange CS. 4. Please 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 CD-CP00-US and other PKG", and it is not used in SV8100.				

Table 2-20 Description of Alarm (Continued)

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
40	**0**	0	CS error noti-fication 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.	Please confirm the following matter when happening frequently when operating it. 1. Please confirm CS is normally connected. 2. Please confirm the wiring between CSIU-CS is normal. 3. Please exchange CS. 4. Please exchange CSIU.	This error has been recovered when it is notified.	ERR REC
41~49	--- **Reserved** ---							
50	1	0	System Start Notification	The system started.	The system was started.	No action needed.		
51	**0**	0	System Data change	CD-CP00-US Upgrade is performed or Programming change is made.		No action needed.		
52	**0**	0	--- **Reserved** ---					
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.	Please delete license information on an unnecessary TCP/IP terminal with PRG90-44.		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 PRG90-51 exceeded it.	Please do the maintenance exchanges of pertinent parts, and set the next regular maintenance exchange day with PRG90-51.	The excess on the regular maintenance exchange day is canceled by changing PRG90-51 or when the function is invalidated, the error is recovered.	ERR REC
56~59	--- 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.	• The setting of the system data is wrong. • The setting of the router is wrong. • It is an error to the link of LAN. • Net side trouble.	1.Reconfirm the following system data setting -- PRG10-12, 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.Reconfirm the authentication system data setting. 5.Reconfirm wiring and the system data setting. Please inquire an uncertain point of the maker.	The error is recovered when normally connecting it.	ERR REC

Table 2-20 Description of Alarm (Continued)

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
61	**0**	0	SIP extension trouble information.	It failed in the registration of the SIP extension terminal. The SIP extension terminal was not able to acquire DSP. • At Regist to SV8100 of the SIP extension terminal. • When you cannot acquire the DSP resource when it sends it.	• The registered port is used by other extension. • The license is insufficient. • DSP of VoIPDB was not able to be acquired.	Reconfirm wiring and the system data setting. Confirm whether each equipment such as access points works normally.		ERR REC
62	**0**	0	DtermIP trouble information.	The error occurred by the DtermIP relation. • When the error occurs while communicating with VoIPU or DtermIP. • When it becomes impossible to do the communication between SV8100 and DtermIP • When failing in the acquisition of DSP.	• The packet loss occurred on the network or the wiring cutting occurred. • DSP of VoIP was not able to be acquired.	Confirm whether each equipment such as wirings and HUB is normal.		ERR REC
63	**0**	0	SIP-MLT trouble information.	The trouble occurred by the SIP-MLT relation. • The DSP resource was not able to be acquired at incoming/outgoing. • The negotiation with VoIPDB failed.	• The packet loss occurred on the network or the wiring cutting occurred. • DSP of VoIP was not able to be acquired.	Confirm whether each equipment such as wirings and HUB is normal.		WAR
64	**1**	0	VoIPDB LAN Link Error.	The link of LAN of VoIPDB came off.	• LAN cable is defective. • Connected HUB broke. • Defect in CD-CP00-US.	Confirm LAN connector and wiring. Please inquire an uncertain point of the maker.	When the connection returns normally, the error is recovered.	ERR REC
65	**0**	0	VoIPDB trouble information.	When DSP of VoIPDB notifies Error.	• Defect of PZ-32IPLA.	There is a defective possibility of hardware. Please inquire an uncertain point of the maker.		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.	• Lack of number of licenses.	Confirm the number of licenses of SIP extension terminals. Please inquire an uncertain point of the maker.	When the number of registration of SIP extension terminals falls below the number of licenses.	WAR
67~79	--- Reserved ---							
80	**1**	0	NetLink start error.	The error occurred when NetLink started.	•Defect on CD-CP00-US.	There is a defective possibility of hardware. Please inquire of the maker.		ERR

Table 2-20 Description of Alarm (Continued)

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
81	2	0	NetLink call trouble information.	The trouble occurred by the NetLink relation. • The DSP resource was not able to be acquired at incoming/outgoing.	• DSP of PZ-32IPLA was not able to be acquired.	Reconfirm wiring and the system data setting. Please inquire an uncertain point of the maker.		WAR
82	2	0	NetLink Virtual Slot accommod. error.	The trouble occurred by virtual Slot relation. • It exceeded it to the slot accommodation upper bound. • It failed in making a virtual slot.	• It exceeds it to the number of slot accommodation in the entire system of NetLink.	Confirm whether to exceed the slot number upper bound. Please inquire an uncertain point of the maker.		WAR
83	2	0	NetLink Communication Error.	The communication error occurred by NetLink. • The checksum error occurred. • The index error occurred.	• The setting of the router is wrong. • It is an error to the link of LAN. • Net side trouble.	Reconfirm LAN connector and wiring. Please inquire an uncertain point of the maker.		WAR
84	2	0	NetLink License Error	The error related to the license occurred by NetLink. • The expiration date of the license approaches. • The license was nullified.	• The expiration date of a temporary license approaches. • A temporary license was nullified.	Confirm license information. Please inquire an uncertain point of the maker.		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. • It is memory shortage.	• Repetition setting of SystemID. • SystemID is illegal. • The number of licenses is lack. • The system memory is insufficient.	Confirm the setting and license information on SystemID. Please inquire an uncertain point of the maker.		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.	Confirm the versions of data bases of Primary and Secondary by PC PRO. Please inquire an uncertain point of the maker.		WAR
87	2	0	Data base replication fail.	Because the error occurred in the communication between Primary and Secondary, replication cannot be executed.	The link of LAN between Primary and Secondary was disconnected.	Confirm the link of LAN 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.	• It 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

Table 2-20 Description of Alarm (Continued)

Alarm No.	Type	Report	Name	Content of Alarm	Cause	Action	Recovery	Alarm Status
92	**2**	0	Primary compulsion specification.	The Primary compulsion specification function was executed.	• The Primary compulsion specification function was executed.	No action is necessary.		INF
93	**2**	0	NetLink node connection detection.	The connection of the node was detected with Primary of NetLink.	• The connection of the node was detected with Primary of NetLink.	No action is necessary.		INF
94	**2**	0	NetLink node secession detection.	The secession of the node was detected with Primary of NetLink.	• The secession of the node was detected with Primary of NetLink.	No action is necessary.		INF
95	**2**	0	Data Base replication fail.	Because Secondary is in programming mode, the replication of DB cannot be executed.	• It is possible to be logging it in with Secondary in the Web Pro or the PC Pro as the cause.	Log out from the programming mode with Secondary.		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 maybe reason of this.	Delete unnecessary file and keep open area to restore, then 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 DataBase recovery operation. Backup/Restore/Delete	Finish Data base recovery operation.	No action is necessary.		INF
99	--- **Reserved** ---							
100	--- **Reserved** ---							

Conditions
None

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 to be e-mailed, set this option to 1. E-mail address set in 90-11-08.	0 = No Report 1 = E-mail Address	0
04	**--- Not Used ---**		
06	**SMTP Host Name** When alarm reports are to be 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 to be 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 to be e-mailed, set this e-mail address to which the report should be sent.	Up to 255 Characters	No Setting
09	**Reply Address** When alarm reports are to be 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 to be 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 to be e-mailed, set the DNS primary address.	0.0.0.0~255.255.255.255	0.0.0.0

Input Data

Item No.	Item	Input Data	Default
12	**DNS Secondary Address** When alarm reports are to be e-mailed, set the DNS secondary address.	0.0.0.0~255.255.255.255	0.0.0.0
13	**Customer Name** When alarm reports are to be e-mailed, enter a name to identify the particular system.	Up to 255 Characters	No Setting

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. This program has six separate menu options. 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	**Output Port Type** Indicate the type of connection used for the System Alarms. The baud rate for the COM port should be set in Program 10-21-02.	0 = No Setting 1~3 = -- Reserved -- 4 = CTA/CTU 5 = USB Memory	0
02	**CTA Output Destination Extension Number**	Up to 8 digits	No Setting

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. The baud rate for the COM port should be set in Program 10-21-02.

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 4 = CTA/CTU 5 = USB	0
02	**CTA Output Destination Extension Number**	Up to 8 digits	No Setting
04	**Output Destination System ID**	0~50	0
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 CD-CP00-US. 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**	01.00~99.99	ASCII Code (5 Bytes)
02	**Software Release Date**	May 22 2002 17:53:46	ASCII Code (20 Bytes)

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	Up to eight digits

Item No.	Item	Input Data
01	**Dial Block Release**	[Release?] : Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

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
08	**ACD Operator All Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0

Input Data

Item No.	Item	Input Data	Default
09	**Attendant Channel All Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	0
10	**Base Station All Busy Output**	0 = Not Detected 1~256 (Report when the data reaches the defined value)	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

90-22 : Terminal Version information

Level:
IN

Description

Use **Program 90-22 : Terminal Version Information** to determine the hardware and firmware versions. These are read-only commands and cannot be changed.

Input Data

Item No.	Item	Input Data	Default
01	**Hardware Version**	00~FF	00
02	**Firmware Version**	00.00~FF.FF	00.00

Conditions
None

Feature Cross Reference

❑   None

Program 90 : Maintenance Program
90-23 : Deleting Registration of IP Telephones

Level:
IN

Description

(This program is available only via telephone programming and not through PC Programming).

Use **Program 90-23 : Deleting Registration of IP Telephones** to delete the registered IP telephone from the system.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Input Data
01	**Delete IP Telephone** This assignment removes the station number association with the MAC address of the IP station.	[Delete?] : 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	Default
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 receive 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	1001~9201

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	Up to eight digits

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.

Input Data

Item No.	Item	Input Data	Default
01	**Access Enabling**	0 = Disable 1 = Enable	0 (Disable)
02	**Username**	20 characters (alphanumeric)	SV8100
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

Conditions

❍ These Programs are 'Read Only.'

Feature Cross Reference

None

Program 90 : Maintenance Program
90-35 : Wizard Programming Level Setup

Level:
IN

Description

(This program is available only via telephone programming and not through PC Programming).

Use **Program 90-35 : Wizard Programming Level Setup** to set the maintenance level for Wizard Programming.

Input Data

Wizard Number	1~250

Item No.	Item	Display Data	Default
01	**Maintenance Level**	0 = All 3 = SB (System Administrator B) 4 = SA (System Administrator A) 5 = IN 6 = MF	0

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program
90-36 : Firmware Update Time Setting

Level:
IN

Description

(This program is available only via telephone programming and not through PC Programming).

Use **Program 90-36 : Firmware Update Time Setting** to define the data for the firmware update feature. This data is available to set for the WebPro/PC Programming FW update feature. A compact flash card must be inserted in the CD-CP00-US for this feature.

The following firmware is available to update with this feature:

❏   main.bin

❏   Dspdbu.bin

❏   dsp.bin

Item No.	Item	Input Data	Default	Description
01	**Firmware Update Schedule Time**	Year: 0~99	0	This Program sets the time to update the firmware using a compact flash card. Time registration fails if an expired time is registered.
		Month: 0~12	0	
		Day: 00~31	0	
		Hour: 00~23	0	
		Minute: 00~59	0	
02	**Update mode**	0 = Non Active 1 = Activated	0	This Program activates the Firmware Update feature. If this setting is 1, new firmware on the compact flash card updates according to the setting at 90-36-01.

Item No.	Item	Input Data	Default	Description
03	**Update Report**	256 characters max.	No Setting	This Program outputs a report when the update is executed and saves one copy on the system. If a new update occurs, the new report overwrites the old report. Refer to the Sample Report shown.

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
None

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.

(Not supported in V1000)

Input Data

Item No.	Item	Input Data
01	**Virtual Loop Back Reset**	[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.

Input Data

Server Information	1~13

Item No.	Item	Input Data	Default
01	**Server Address Type**	0 = IPv4 1 = IPv6	0
02	**Server Address**	IPv4 form (xxx.xxx.xxx.xxx) IPv6 form (xxxx : xxxx : xxxx: xxxx: xxxx)	–
03	**Port Number**	0~65535	0

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program
90-42 : DT700 Multiline Terminal Version Information

Level:
IN

Description

Use **Program 90-42 : DT700 Multiline Terminal Version Information** to set the
hardware version and firmware version of the DT700 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

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 DT700

Level:

IN

Description

Use **Program 90-43 : Deleting Terminal License of DT700** to delete the terminal license information delivered to the DT700 terminal.

Input Data

Extension Number	Up to eight digits

Item No.	Item	Input Data
01	**Delete Terminal License**	[Delete?] : 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 90-43 : Deleting Terminal License of TCP Interface** to delete the terminal license information delivered to the terminal with a TCP interface.

Input Data

License Delete Code	000~000~000 – 999~999~999

Item No.	Item	Input Data
01	**Delete Terminal License**	[Delete?] : Dial **1**+ press **Transfer** (Press **Transfer** to cancel.)

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program
90-45 : Temporary Password Change for Multiline Telephone

Level:
IN

Description

Use **Program 90-45 : Temporary Password Change for Multiline Telephone** to change the Temporary Password that is set in the Encryption function.

Input Data

Item No.	Item	Input Data	Default
01	**Temporary Password Change Request**	00.00.00.00~FF.FF.FF.FF Change? (Yes :1)	00.00.00.00

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 SV8100 system.

Input Data

Extension Number	Eight digits (except virtual extension)

Item No.	Item	Input Data
01	**Button Kit Information of Multiline Telephone**	0 = No Setting 1 = Not Used 2 = Type A with Cursor Key 3~9 = Not Used 10 = Type A without Cursor Key (Retrofit) 11~12 = Not Used

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program
90-49 : Protection Mode Setup for Multiline Telephone

Description

Use **Program 90-49 : Protection Mode Setup for Multiline Telephone** to set the protection mode of each multiline (IP) telephone.

Input Data

Extension Number	Up to eight digits

Item No.	Item	Input Data	Default
01	**Release Protection Mode**	Release? (Yes : 1)	None
02	**Initialize Protection Password**	Initialize? (Yes : 1)	None

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.

Input Data

Index Number	01~50

Item No.	Item	Input Data	Default
01	**System Alarm Display Telephone**	Up to eight digits	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.

Input Data

System ID of Source System	0~50

System ID of Destination System	0~50

Item No.	Item	Input Data	Default
01	**Save All Alarm Reports**	Print All? (1 = Yes)	
02	**Save New Alarm Reports**	Print All? (1 = Yes)	

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.

Input Data

System ID	0~50

Item No.	Item	Input Data	Default
01	**Clear All Alarm Reports**	All Clear? (1 = Yes)	

Conditions
None

Feature Cross Reference

None

Program 90 : Maintenance Program

90-55 : Free License Select

Description

Use **Program 90-55 : Free License Select** to validate the Free License.

(This program is available only via telephone programming and not through PC Programming).

Input Data

Item No.	Item	Input Data	Default
01	**Start Free License**	0 = Stop 1 = Start	

Conditions
None

Feature Cross Reference

None
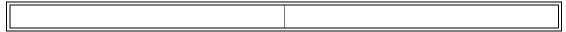
Program 90 : Maintenance Program

90-56 : NTP Setup

Level:
IN

Description

Use **Program 90-56 : NTP Setup** to set the NTP.

Input Data

Item No.	Item	Input Data	Default
01	**NTP Synchronize**	0 = No 1 = Yes	0
02	**Server Address**	IPv4 form: xxx.xxx.xxx.xxx IPv6 form: xxxx.xxxx.xxxx.xxxx.xxxx	No setting

Conditions
None

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 CD-CP00-US and to make the recovery data.

Input Data

Data ID	1~5

Item No.	Item	Input Data
01	**Backup Recovery Data**	[Backup?] : 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 CD-CP00-US. After this command is executed, the system restarts automatically.

Input Data

Data ID	1~5

Item No.	Item	Input Data
01	**Restore Recovery Data**	[Restore & Reset?] : 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 CD-CP00-US.

Input Data

Data ID	1~5

Item No.	Item	Input Data
01	**Delete Recovery Data**	[Delete?] : 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.

Input Data

System ID	1~50

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.

Input Data

System ID	1~50

Slot No.	1~24

Item No.	Item	Input Data	Default
01	**Install**	0 = None 1 = Router	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 CD-CP00-US.

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 : DT700 Control

Level:

IN

Description

Use **Program 90-63 : DT700 Control** to adjust settings of the DT700.

Input Data

Item No.	Item	Input Data	Default
01	**Priority Timer**	0~255	80

Conditions
None

Feature Cross Reference

None

Program 92 : Copy Program

92-01 : Copy Program

Level:
IN

Description

(This program is available only via telephone programming and not through PC Programming).

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.

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.	❍ In case of Trunk Base : Trunk Port Number 1~200 ❍ In case of Trunk Group Base : Trunk Group Number 1~100 ❍ In case of Extension Base : Extension Number (up to eight digits) ❍ In case of Department Group Base : Department Group Number 1~64 ❍ In case of DSS : DSS Console Number 1~32
	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**	
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**	

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).
15-02	**Multiline Telephone Basic Data Setup**	
15-03	**Single Line Telephone Basic Data Setup**	

Program No.	Program Name	Note
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**	
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**	

Department Group Base

Program No.	Program Name	Note
16-01	**Department (Extension) Group Basic Data Setup**	Copy all data except Group Name (Item 01).
35-04	**SMDR Port Assignment for Department Group**	

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 recommend to either clear these non-existent keys or copy only from an extension which 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

(This program is available only via telephone programming and not through PC Programming).

Use **Program 92-02 : Delete All Extension Numbers** to delete all extension numbers. However, the extension number of the first port is not deleted.

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

(This program is available only via telephone programming and not through PC Programming).

Use **Program 92-03 : Copy Program by Port Number** to copy extension and the data of each outside line.

Input Data

Item No.	Item	Input Data
01	**Source Number**	Enter the port number from which the data is to be copied.
02	**Destination Number (From)**	Enter the first port number to which the information is to be copied.
03	**Destination Number (To)**	Enter the last port number to which the information is to be copied. If the information is only to be copied 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

(This program is available only via telephone programming and not through PC Programming).

Use **Program 92-04 : Extension Data Swap** to swap data between two extensions.

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
15-11	Virtual Extension Delayed Ring Assignment

Program Number	Program Name
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
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
24-07	Fixed Call Forward Off-Premise
24-08	Call Forward for Centrex

Program Number	Program Name
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	ACD Agent Extension Assignment for ACD Group
41-17	ACD Login Mode Setup
42-02	Hotel Extension Basic Data Setup
43-33	Print Table for Extension
43-37	Fixed Call Restrict Table Setup
90-28	User Programming 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

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

Item No.	Item	Input Data	Related Programming
01	**Password** Password required on a per station basis when utilizing 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.

Input Data

Program Number	XX-XX

Item No.	Item	Input Data
01	**Source Number**	Each extension port = 1~512 (PGM 11-02)
02	**Destination Number (From)**	Each virtual extension port = 1~256 (PGM 11-04) Each ACI port number = 1~96 (PGM 11-06)
03	**Destination Number (To)**	Each extension group = 1~64 (PGM 11-07) Each ACI group = 1~64 (PGM 11-08) Each ACD group = 1~64 (PGM 11-17)

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.

Input Data

Program Number	XX-XX

Item No.	Item	Input Data
01	**Destination Number (From)**	Each extension port = 1~512 (PGM 11-02)
02	**Destination Number (To)**	Each virtual extension port = 1~256 (PGM 11-04) Each ACI port number = 1~96 (PGM 11-06) Each extension group = 1~64 (PGM 11-07) Each ACI group = 1~64 (PGM 11-08) Each ACD group = 1~64 (PGM 11-17)

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

UNIVERGE SV8100

PROGRAMMING MANUAL