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NEC

UX5000

Software Program Manual

P/N 0913202

Rev 4.0, November 2012

This manual has been developed by NEC Corporation of America. It is intended for the use of its customers and service personnel, and should be read in its entirety before attempting to install or program the system. Any comments or suggestions for improving this manual would be appreciated. Forward your remarks to:

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Table of Contents

Before Reading This Section

This manual provides you with detailed information about the UX5000 programs. By changing a program, you change the way the feature associated with that program works. In this manual, you find out about each program, the features that the program affects and how to enter the program data into UX5000 memory.

Do not start customizing your UX5000 without first reading the UX5000 Software Features Manual, P/N 0913201.

When you want to customize a feature, find it in Software Features Manual and learn about it. The Software Features Manual will tell you what programs you have to change to get the operation you want. Then, look the program up in this manual if you have any questions about how to enter the data.

How to Use This Section

This manual lists each program in numerical order. For example, Program 10-01 is at the beginning of the manual 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 UX5000, 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's access level. You can only use the program if your access level meets or exceeds the level the program requires. Refer to **How to Enter the Programming Mode** (page 2) for a list of the UX5000's access levels and passwords.

Feature Cross Reference provides you with a table of all the features affected by the program. You'll 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 didn't intend.

Terminal Programming Instructions shows you how to enter the program's data into UX5000 memory. For example:

1. Enter the programming mode.
2. 15-07-01

tells you to enter the programming mode, dial 150701 from the terminal dial pad. After you do, you'll see the message "15-07-01 TEL301" on the first line of the terminal display. This indicates the program number (15-07), item number (01), and that the options are being set for extension 301. 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, see **How to Enter the Programming Mode** below.

How to Enter the Programming Mode

To enter the programming mode:

1. Go to any working display terminal.

   In a newly installed UX5000, use extension 301 (port 1).

   Programming access may be restricted based on the type of program entry used and if other users are connected to the UX5000 for programming purposes.

   PC Pro: Only one user allowed access to the UX5000 programming at a time.

   WebPro: Up to 4 WebPro or TelPro users can be connected at the same time.

   TelPro: Up to 4 TelPro or WebPro users can be connected at the same time.
2. Do not lift the handset.
3. Press CALL1.
4. # * # *

   Password
5. Dial the UX5000 password + HOLD.

   Refer to the following table for the default UX5000 passwords. To change the passwords, use Program 90-02.

Password	User Name	Level	Programs at this Level
12345678	UX5000	2 (IN)	All programs in this section not listed below for SA and SB
0000	ADMIN1	3 (SA)	10-01, 10-02, 10-12, 10-13, 10-14, 10-15, 10-16, 10-17, 10-18, 10-22, 10-23, 10-24, 10-25, 10-27, 10-28, 10-29, 10-31, 12-02, 12-03, 12-04, 12-08, 13-04, 13-05, 15-01, 15-07, 15-09, 15-10, 15-11, 15-14, 20-16, 20-34, 21-07, 21-14, 22-04, 22-11, 22-17, 25-08, 30-03, 30-04, 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, 41-19, 41-20, 45-02, 45-03, 84-22, 90-03, 90-04, 90-06, 90-07, 90-19
9999	ADMIN2	4 (SB)	13-04, 13-05, 15-14

Note: When changes are made to the following programs, the UX5000 must be restarted.

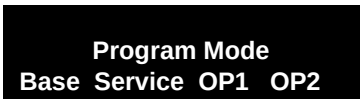
10-12-01	10-16-01	80-02-03	84-04	84-06-07
10-12-02	10-16-02	80-02-04	84-05-01	84-06-08
10-12-03	10-16-03	80-03	84-05-02	84-06-09
10-12-04	10-16-04	80-04	84-06-01	84-06-10
10-13-01	20-01-03	84-03-01	84-06-02	84-06-11
10-13-02	47-01-01	84-03-02	84-06-03	84-09
10-13-03	80-01	84-03-06	84-06-04	84-10
10-14	80-02-01	84-03-07	84-06-05	
10-15	80-02-02	84-03-08	84-06-06	

How to Exit the Programming Mode

To exit the programming mode:

When you are done programming, you must be out of a program's options to exit (pressing the MIC key will exit the program's option).

1. Press MIC key to exit the program's options, if needed.



2. Press SPK. You see, "Saving System Data".
3. The display shows "Complete Data Save" when completed and will exit the terminal to an idle mode.

To save a customer's database, plug a USB thumb drive into the CPU 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 thumb drive can only hold one customer database unless the files are moved into a separate folder on the thumb drive after it is saved from the UX5000. Otherwise, the next time a database is saved, it will override the existing database.

Users are automatically logged out of terminal programming and WebPro when there is no activity based on the entry in Program 20-01-12.

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.

Keys for Entering Data	
Use this key...	**When you want to . . .**
0-9 and *	Enter data into a program.
HOLD	Complete the programming step you just made (like pressing Enter on a PC keyboard). When a program entry displays, press HOLD to bypass the entry without changing it.
CONF	Delete the entry to the left (like pressing Backspace on a PC keyboard).
MIC	Exit one step at a time from the program window currently being viewed. For example, if you're programming item 5 in 15-03, pressing MIC will allow you to enter a new option in program 15-03. Pressing MIC again will allow you to select a new program in the 15- series. Pressing MIC a third time will allow you to enter a new program beginning with '1'. Pressing MIC one last time will bring you to the beginning program display, allowing you to enter any program number.
FLASH	Switch extension, line, etc. being programmed by pressing FLASH. The cursor moves up to the top row of the display. Pressing FLASH 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 will light steady. The display may also indicate Soft Keys 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 an Abbreviated Dialing bin.
LINE KEY 2	Program a recall/flash into an Abbreviated Dialing bin.
LINE KEY 3	Program a @ into an Abbreviated Dialing bin.
VOL ◢	Scroll backward through a list of entry numbers (e.g., from extension 301 to 302, 303, etc.) or through entries in a table (e.g., Common Permit Table). *If you enter data and then press this key, the UX5000 accepts the data before scrolling forward.*
VOL ◤	Scroll forward through a list of entry numbers (e.g., from extension 301 to 302, 303, etc.) or through entries in a table (e.g., Common Permit Table). *If you enter data and then press this key, the UX5000 accepts the data before scrolling backward*

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 key "2" three times. Press the key six times display the lower case letter. The name can be up to 12 digits long.

Use this keypad digit . . .	When you want to. . .
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Æ Ç É Ê ì ó 0
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 å ä ö ü α ε θ
*	Enter characters: * + , - . / : ; < = > ? ¼ ² σ ¾ × ¢ £
#	# = Accepts an entry (only required if two letters on the same key are needed - ex: T**OM**). Pressing # again = Space. (In UX5000 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.
CLEAR	Clear all the entries from the point of the flashing cursor and to the right.

Using Soft Keys For Programming

Each UX5000 display terminal provides interactive soft keys for intuitive feature access. The options for these keys will automatically change depending on where you are in the UX5000 programming. Simply press the Soft Key located below the option you wish and the display will change accordingly.

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

What the Soft Key Display Prompts Mean

When using a display terminal in programming mode, you will see various Soft Key options displayed. These keys will allow you to easily select, scan, or move through the programs.

Soft key Display Prompts	
If you press this Soft Key . . .	**The UX5000 will. . .**
back	Go back one step in the program display. You can press VOLUME ▲ or VOLUME ▼ to scroll forwards or backwards 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.

Number Plan/Capacities

Table 1: System Number Plan/Capacities

System Type:	UX5000 Capacity	
System		
Analog Caller ID Detector	64	
Classes of Service	15	
Conference Bridge Groups	4	
Day/Night Mode Numbers	8	
Day/Night Service Patterns	32	
Dial Tone Detector DTMF Receiver	48 or 64 w/EXIFU-B1 Mounted	
Network Nodes: • CygniLink • AspireNet	 16 50	
System Ports (trunks and analog/digital/IP extensions)	200 trunks and 512 extensions * Chassis must be networked to reach max.	
Toll Restriction Classes	15	
Verifiable Account Code Table	2000	
Trunk		
Trunk Port Number	1-200 * A CCPU without a MEMDB, the trunks count toward the total number of allowed hardware ports (64).	
Trunk Ports (Total) • Analog Trunks • BRI Trunk Ports • T1/PRI Trunk Ports • E&M Analog Trunk Ports • DID Analog Trunk Ports • VoIP Trunk Ports	**19" Chassis x 4** 184 184 200 92 92 128	**Networked Chassis** 200 200 200 200 200 128
BRIU Logical Ports	T-Bus: 1-200 S-Bus: 1-256	
COIU: • Physical Ports • Logical Ports	 01-08 0-200	
DIOPU: • Physical Ports • Logical Ports	 01-04 LD Trunk: 0-200 OPX: 0-256	
PRIU Logical Ports	T-Bus: 1-200 S-Bus: 1-256	

Table 1: System Number Plan/Capacities	
System Type:	**UX5000 Capacity**
TLIU: • Physical Ports • Logical Ports	 01-04 0-200
VOIPDB: • Physical Ports • Logical Ports	 001-128 0-200
DID Translation Tables	20
DID Translation Table Entries	2000
DISA • Classes of Service • Users	 15 1-15
Ring Groups	1-100
Tie Line Classes of Service	15
Tie Line Toll Restriction Classes	15
Trunk Access Maps	1-200
Trunk Group Numbers	1-100
Trunk Routes	1-100
Extension	
Telephone Extension Port Numbers • Keysets • Single Line Phones/Analog Devices • VoIP Extensions • IP DECT	1-384 (1-384) (1-384) (1-512) [5] 001-512 (manual select) [5] 385-512 (auto select) [5]
	* A CCPU without a MEMDB, the trunks count toward the total number of allowed hardware ports (64).
ESIU • Physical Ports • Logical Ports -Tone Ringer (2PGDAD) -Door Box (2PGDAD) -Analog I/F (2PGDAD) -ACI (2PGDAD) -APR for B2 Mode	 01-16 1-8 1-8 1-96 1-96 193-512 (descending order)
SLIU • Physical Ports • Logical Ports	 01-16 1-256
Telephone Extension Number Range	301-499 5000-5312

Table 1: System Number Plan/Capacities	
System Type:	**UX5000 Capacity**
Virtual Extension Ports	256
Virtual Extension Port Numbers	001-256
Virtual Extension Number Range	Undefined
2PGDAD Modules	512
ADA (Recording Jack) Adapters	512 (104 max. with digital terminals/ 512 max with IP terminals)
Door Boxes	8
Door Box Numbers	1-8
DSS Consoles Numbers • 16-Button DLS Consoles, Maximum Installed • 60-Button DSS Consoles, Maximum Installed	8 512 (384 max. with digital terminals / 512 max. with IP terminals) 32
Operator Access Number	0
Operator Extension	1-8
Ringdown Assignments	512
SLT Adapters	• 32 (9.5” Chassis) • 80 (19” Chassis) • 96 (19” Chassis x 2) • 368 (19” Chassis x 4) • 512 (Networked)
Voice Mail Master Numbers	301-499, 5000-5312

Table 1: System Number Plan/Capacities	
System Type:	**UX5000 Capacity**
Abbreviated Dialing	
Abbreviated Dialing Groups	64
Abbreviated Dialing Bins	0-1999
Abbreviated 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
Bluetooth Adapters	
BCH - Bluetooth Cordless Handset	16
BHA - Bluetooth Hub Adapter	16
Conference	
Conference Circuits	64 - maximum (32 Parties Per Conference)
Data Communication Interfaces	
APR Software Port Numbers	193-512
APA Adapters-Aspire Version	192 (only on Aspire phones)
APR Adapters-UX5000 Version	32
CTA or CTU Adapters-Aspire Version	128 (only on Aspire phones)
CTE	128
Module Extension Number Range	301-499, 5000-5312
Department and Pickup Groups	
Department (Extension) Group Numbers	1-64
Department (Extension) Group Number Range	301-499, 5000-5312
Call Pickup Group Numbers	1-64

Table 1: System Number Plan/Capacities	
System Type:	**UX5000 Capacity**
Hotline	
Internal Hotline	512
External Hotline	512
Paging and Park	
Internal Page Group Numbers	0, 1-9 or 01-64
External Page Group Numbers	0, 1-8
External Speakers • CCPU • PGDAD Module	9 (1) (1-8)
Park Group Numbers	1-64
Park Orbits	1-64
Power Failure Adapters	
PSA (Power Failure) Adapters	• 16 (9.5” Chassis) • 40 (19” Chassis) • 88 (19” Chassis x 2) • 184 (19” Chassis x 4) • 200 (Networked)
SMDR	
SMDR Ports	1-8
VRS	
VRS (on DSP Daughter Board)	1
VRS Channels	16 (shared with IntraMail voice mail)
VRS Attendant Messages	3
VRS Recordable Messages	100
Voice Mail	
Ports for UX IntraMail	4-16
Ports for UX Mail	4-16

Table 1: System Number Plan/Capacities	
System Type:	**UX5000 Capacity**
VoIP	
VoIP Extensions	512
Gigabit Adapters	512
IP Phones	512
RAS Unicast Ports	0-65535
Call Signaling Ports	0-65535
NGT Signal Receive Ports	0-65535
IP Call Procedure Port	0-65535
H.323 Alias Addresses	1-6
Note:	
Extension numbers can be three or four digits long. See Flexible System Numbering.	

Table1: UX5000 Password	
Passwords	
User Password for setting Toll Restriction Override and Changing Class of Service using a service code	0000
Programming Passwords	
Level 2 (IN) PCPro/WebPro User Name:	12345678 UX5000
Level 3 (SA) PCPro/WebPro User Name:	0000 ADMIN1
Level 4 (SB) PCPro/WebPro User Name:	9999 ADMIN2
Level 5 (UA) UserPro UA Level User Name:	1111 USER1
Level 6 (UB) UserPro UB Level User Name:	1111 xxxxxxxx (Ext. Number)
Programming Password Users	8

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-01 : Time and Date** to change the UX5000 Time and Date through UX5000 programming. Extension users can also dial Service Code 828 to change the Time if allowed by an extension's Class of Service.

Input Data

Item No.	Item	Input data	Default	Description
01	Year	00-99	No setting	Enter two digits for year (00-99).
02	Month	01-12	No setting	Enter two digits (01-12) for the month.
03	Day	01-31	No setting	Enter two 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 two digits for the hour (00-23).
06	Minute	00-59	No setting	Enter two digits for the minute (00-59).
07	Second	00-59	No setting	Enter two digits for the second (00-59).

Conditions

None

Feature Cross Reference

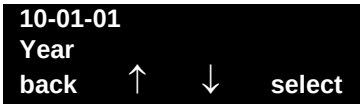
- Time and Date

Program 10 : System Configuration Setup
10-01 : Time and Date

Terminal Programming Instructions

To enter data for Program 10-01 (Time and Date):

1. Enter the programming mode.
2. 10 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-02 : Location Setup** to define the location of the installed UX5000.

Input Data

Item No.	Item	Input data	Default	Description
01	Country Code	Dial (up to 4 digits): 0-9, *, #	1	Enter the country code.
02	International Access Code	Dial (up to 4 digits): 0-9, *, #	-	Enter the international access code.
03	Other Area Access Code	Dial (up to 2 digits): 0-9, *, #	9	Enter the other area access code
04	Area Code	Dial (up to 6 digits): 0-9, *, #	-	Enter the local area code.
05	Trunk Access Code	Dial (up to 8 digits): 0-9, *, #	-	Enter the trunk access code digits required to place an outgoing call. This is the code which will be added to the Caller ID information for incoming trunk calls to allow the call to dial out if allowed in 20-19-03.

Conditions

None

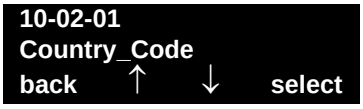
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 10-02 (Location Setup):

1. Enter the programming mode.
2. 10 02



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-03 : Blade 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 UX5000 automatically define it or you may have to reseat the blade.

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

Input Data

For ESIU Blade

Physical Port Number	01-16

B-Channel 1

Item No.	Item	Input Data	Default
01	Terminal Type	0 = Not set 1 = Keyset/DSLT 2 = SLT Adapter 3 = -- Not used -- 4 = -- Not used -- 5 = -- Not used -- 6 = PGD (Paging) 7 = PGD (Tone Ringer) 8 = PGD (Door Box) 9 = PGD (ACI) 10 = DSS Console 11 = -- Not used --	0
02	Logical Port Number	0 = Not set 1 = Keyset (1-256) 2 = SLT Adapter (1-256) 3 = Not used 4 = Not used 5 = Not used 6 = PGD (Paging) (1-8) 7 = PGD (for Tone Ringer) (1-8) 8 = PGD (for Door Box) (1-8) 9 = PGD (for Analog I/F) (1-96) 10 = DSS (1-32) 11 = Not used	0

03	Additional Data	***This option is reserved for future use.*** 3 = Not used 4 = Not used 01-16 (port number) A port number is automatically set as the order which the terminal started.	0
04	Optional Installed Unit 1 ***(with Aspire keysets only - used 10-03-10 for UX5000 keysets)***	0 = none 1 = APR Module 2 = APA Module 3 = ADA Module 4 = CTA Module 5 = CTU Module	0
05	Optional Installed Unit 2 ***(with Aspire keysets only - used 10-03-10 for UX5000 keysets)***	0- none 1 = APR Module 2 = APA Module 3 = ADA Module 4 = CTA Module 5 = CTU Module	0
08	Multi-Line Terminal Type	0 = Dterm3** (UX5000 Keyset) 1 = Dterm8* (Aspire Keyset)	0
09	Side Option (For SIP keysets, refer to program 15-05-19.)	0 = No Option 1 = 8LK Unit 2 = 16LK Unit 3 = 24ADM ***(not yet released)***	0
10	Bottom Option (For UX5000 keysets. For Aspire keysets, use 10-03-04. For SIP keysets, refer to program 15-05-20.)	0 = No Option 1 = APR 2 = ADA 3 = BHA	0
11	Handset Option (For SIP keysets, refer to program 15-05-21.)	0 = No Option 1 = PSA/PSD 2 = BCH	0

B-Channel 2			
Item No.	**Item**	**Input Data**	**Default**
06	Terminal Type	0 = Not set 1 = -- Not used -- 2 = -- Not used -- 3 = -- Not used -- 4 = -- Not used -- 5 = -- Not used -- 6 = PGD (Paging) 7 = PGD (Tone Ringer) 8 = PGD (Door Box) 9 = PGD (ACI) 10 = -- Not used -- 11 = -- Not used -- 12 = APR ***(with Aspire keysets only)***	0
07	Logical Port Number	0 = Not set 6 = PGD (External Speaker/Paging) (1-8) 7 = PGD (for Tone Ringer) (1-8) 8 = PGD (for Door Box) (1-8) 9 = PGD (for ACI) (1-96) 12 = APR (for B2 mode) (193-512)	0

For SLIU Blade

Physical Port Number	01-16

Item No.	Item	Input Data	Default
01	Logical Port Number	0-256	0
02	Not used		
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 082U Digital/SLT Combination Blade

Physical Port Number	01-14

Program Data:
Refer to the ESIU, SLIU, COIU, or BRIU descriptions.

For COIU Blade

Physical Port Number	1-8

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

For DIOPU Blade

Physical Port Number	01-04

Item No.	Item	Input Data	Default
01	LD/OPX Assignment	0 = LD Trunk 1 = OPX Trunk	0
02	Logical Port Number	0 = For LD Trunk 0-200 1 = For OPX 0-256	0

For TLIU Blade

Physical Port Number	01-04

Item No.	Item	Input Data	Default
01	Logical Port Number	0-200	0
02	2/4Wire	0 = 2Wire 1 = 4Wire	1
03	**E&M Line Control Method** M-Lead Type	0 = Type I 1 = Type V	1

For BRIU Blade

ISDN Line Number	01-04

Item No.	Item	Input Data	Default
01	ISDN Line Mode	0 = No Setting 1 = T-Bus 2 = S-Bus *Options 3-5 determines the clock source for the networked connection.* 3 = Network Mode (Leased Line) *Telco sends the clock to the Master System* *Telco sends the clock to the Slave System* 4 = Network Mode (Interconnected Line) *Master System sends the clock to the Telco (or direct connection without telco) which then sends the clock to the Slave System* 5 = Network Mode (Interconnected Line, Fixed layer 1=NT) *Master System sends the clock to the Telco* *Slave System sends the clock to the Telco* 6 = S-Point (Leased Line)	1
02	Logical Port Number (see Note 1)	0 = No Setting 1 = For T-Bus (1-200) 2 = For S-Bus (1-512) 3 = Network Mode 4 = Network Mode 5 = Network Mode 6 = For S-Bus (Leased Line) (1-512)	0
03	Connection Type	0 = Point-to-Multipoint (not available for CygniLink) 1 = Point-to-Point	0
04	Layer 3 Timer Type (see Note 2)	1-5	1

05	**CLIP Information Announcement** Based on this setting, the UX5000 will include 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 a ‘1’ if this option is enabled.	0 = Disable 1 = Enable	1
06	Connection Bus Mode (S-point only)	0 = Extended Passive Bus 1 = Short Passive Bus	0
07	S-Bus DID Digits	0-4	0
08	Dial Sending Mode	0 = Enblock sending 1 = Overlap sending	1
09	Dial Information Element (Only for Overlap Sending Mode)	0 = Keypad Facility 1 = Called Party Number	0
10	Master/Slave System (NW mode only)	0 = Slave System 1 = Master System	0
11	Networking System Number (NW mode only)	0-50	0
12	**- Not Currently Used -**		**0**
13	**- Not Currently Used -**		**0**
14	Service Protocol for S-Point	0 = Keypad Facility 1 = Specified Protocol for UX5000	0
15	**Alert Tone When S-Bus Terminal Calls Busy Extension** This option determines for S-Bus terminals what a user on an S-Bus terminal will hear when a busy extension is called. If this option is set to "0", the user will hear an alert tone. If this option is set to "1", the user will be disconnected.	0 = Alert Tone 1 = Disconnected	0
16	**- Not Currently Used -**		**0**
17	**Ringback Tone to Telco** This option can be used to determine whether or not the UX5000 sends ringback tone to the telco.	0 = Disable 1 = Enable	0

18	**Type of Number** Use this option to define the ISDN numbering plan to allow the calling party information to be passed to some telcos. Within QSIG networks, a private number plan may be used and announced in the Called Party Number and Calling Party Number information elements by the Number Plan Indicator 9 (binary 1001). This can be set in Programs 10-03-18 and 10-03-19.	0 = Unknown 1 = International number 2 = National number 3 = Network Specific number 4 = Subscriber number 5 = Abbreviated number	2
19	**Numbering Plan Identification** Set the type of information passed to some telcos. Within QSIG networks, a private number plan may be used and announced in the Called Party Number and Calling Party Number information elements by the Number Plan Indicator 9 (binary 1001). This can be set in Programs 10-03-18 and 10-03-19.	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	**- Not Currently Used -**		**0**
21	**- Not Currently Used -**		**0**
22	**QSIG Operation Mode** If the UX5000 is attached to a QSIG network, enable this option. The ISDN lines will be marked in the UX5000 data by a new flag to indicate the length of the call reference value.	0 = Disable 1 = Enable	0
23	**Straight Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0
24	**Power feeding for S-Bus**	0 = Disable 1 = Enable	0

Note 1. The start port number of a BRI line is displayed. Two logic ports are automatically assigned to a BRI line.

Note 2. Each timer value of Layer3 are set up for every type of Program 81-06 (T-Bus) and Program 82-06 (S-Bus).

For PRIU Blade

Item No.	Item	Input Data	Default
01	ISDN Line Mode	0 = Not set 1 = T-Bus 2 = S-Bus 3 = Network Mode (Leased Line) 4 = Network Mode (Interconnected Line) 5 = Network Mode (Interconnected Line, Fixed Layer 1=NT) 6 = S-Bus (Leased Line)	1
02	Logical Port Number (see Note 1)	0 = No Setting 1 = For T-Bus (1-200) 2 = For S-Bus (1-512) 3 = Network Mode 4 = Network Mode 5 = Network Mode 6 = For S-Bus (Leased Line) (1-512)	0
03	CRC Multi-frame(CRC4) (Only E1[30B+D] Mode)	0 = off 1 = on	1
04	Layer 3 Timer Type (see Note 2)	1-5	1
05	**CLIP Information** Based on this setting, the UX5000 will include 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 a ‘1’ if this option is enabled.	0 = Disable 1 = Enable	1
06	**Transmit Pulse Shape (Outboud Pulse)** Leave at the defualt entry of “2”.	0 = Level 1 1 = Level 2 2 = Level 3 3 = Level 4 4 = Level 5	2
07	S-Bus DID Digits	0-4	0
08	Dial Sending Mode	0 = Enblock Sending 1 = Overlap Sending	0
09	Dial Information Element (Only for Overlap Sending Mode)	0 = Keypad Facility 1 = Called Party Number	0
10	Master/Slave System (Network Mode only)	0 = Slave System 1 = Master System	0
11	Networking System Number (Network Mode only)	0-50	0
12	Short / Long-Haul	0 = short-haul 1 = long-haul	0

Item No.	Item	Input Data	Default
13	Loss-Of-Signal Detection Limit	0 = Level 0 (Lowest Sensitivity) 1 = Level 1 2 = Level 2 3 = Level 3 4 = Level 4 5 = Level 5 6 = Level 6 7 = Level 7 (Highest Sensitivity)	2
14	Service Protocol for S-Bus	0 = Keypad Facility 1 = Specified Protocol for UX5000	0
15	**Alert Tone When S-Bus Terminal Calls Busy Extension** This option determines for S-Bus terminals what a user on an S-Bus terminal will hear when a busy extension is called. If this option is set to "0", the user will hear an alert tone. If this option is set to "1", the user will be disconnected.	0 = Alert Tone 1 = Disconnected	0
16	**ISDN 2 B-Channel Transfer** Enable or disable the 2 B-Channel Transfer function for a PRI blade.	0 = Off/Disable 1 = On/Enable	0
17	**ISDN Line ringback Tone**	0 = Disable 1 = Enable	0
18	**Type of Number** Use this option to define the ISDN numbering plan to allow the calling party information to be passed to some telcos. Within QSIG networks, a private number plan may be used and announced in the Called Party Number and Calling Party Number information elements by the Number Plan Indicator 9 (binary 1001). This can be set in Programs 10-03-18 and 10-03-19.	0 = Unknown 1 = International number 2 = National number 3 = Network Specific number 4 = Subscriber number 5 = Abbreviated number	3
19	**Numbering Plan Identification** Set the type of information passed to some telcos. Within QSIG networks, a private number plan may be used and announced in the Called Party Number and Calling Party Number information elements by the Number Plan Indicator 9 (binary 1001). This can be set in Programs 10-03-18 and 10-03-19.	0 = Unknown 1 = ISDN numbering plan 2 = Data numbering plan 3 = Telex numbering plan 4 = National standard numbering plan 5 = Private numbering plan	1

Item No.	Item	Input Data	Default
21	**Number of Ports**	0 = Auto 1 = 4 Ports 2 = 8 Ports 3 = 12 Ports 4 = 16 Ports 5 = 20 Ports	0
22	**QSIG Operation Mode** If the UX5000 is attached to a QSIG network, enable this option. The ISDN lines will be marked in the UX5000 data by a new flag to indicate the length of the call reference value.	0 = Disable 1 = Enable	0
23	**Straight Wiring**	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0

Note 1. The start port number of a PRI line is displayed. Thirty logic ports are automatically assigned to a PRI line.

Note 2. Each timer value of Layer3 is set up for each type in Program 81-06 (T-Bus) and Program 82-06 (S-Bus).

For T1 Blade

Item No.	Item	Input Data	Default
01	Logical Port Number	0-200	0
02	Frame Type Setup	0 = D4 (12 Multi Frame) 1 = ESF (24 Multi Frame)	0
03	Zero Code Suppression Setup ZCS_B8ZS	0 = B8ZS 1 = AMI/ZCS	0
04	Distance Betwen Blade and CSU	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 Wiring	0 = Auto 1 = Manual (Cross) 2 = Manual (Straight)	0

For VMSU Blade

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Physical Port Number	01-16

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

For VOIPDB

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Physical Port Number	001-200

Item No.	Item	Input Data	Default
01	Trunk Logical Port Number	0-200	0
02	**H.323 or SIP Trunk** Determine the IP trunk type setup. If SIP trunking is used, this reduces the number of ports on the VOIPDB card which can be used for UX5000 IP terminals or IP CygniLink. With SIP trunking, some ports must be defined for SIP.	0 = H.323 1 = SIP	1

Conditions

- When changing a defined terminal type, first set the type to '0' and then plug the new device in to have the UX5000 automatically define it or redefine the type manually.
- The UX5000 must have a blade installed in order to view/change the options for that type of blade.

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 10-03 (Blade Setup):

1. Enter the programming mode.
2. 10 03

3. Enter the number of the item you want to program.

4. Select the slot number to be programmed or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-04 : Music on Hold Setup** to set the Music on Hold selection. For MOH, the UX5000 can provide silence to callers on Hold or one of eleven synthesized selections.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Music on Hold Source Selection** The Music on Hold source can be internal (synthesized), from a customer-provided music source, a service tone provided by the UX5000, or a music file from the VRS. The customer-provided source can connect to a 2PGDAD or the connector on the CPU. Trunk MOH and Extension MOH music source use the same Music on Hold source. If set to '1', Program 14-08-01 must be set to '0' or '1'.	0 = Internal MOH source 1 = External MOH source 2 = Service Tone (Program 80-01-01 Tone 64) 3 = VMDB	2	80-01-01 - Tone 64
02	**Music Selection for Internal Source** If Program 10-04-01 is set to 0, select the music which will be heard by users on hold. If Program 10-04-01 is set to 1, select the VRS message number to be played.	If 10-04-01 = 0: • 0 = Silence (no sound) • 1 = Download File 1 • 2 = Download File 2 • 3 = Download File 3 If 10-04-01 = 3: • 1-100 = VRS Message 1-100	1	10-04-01
03	**Audio Gain Setup** Adjust the audio gain used by the internal MOH if required. External MOH is adjusted at the MOH source.	1-63 (-15.5 +15.5dB)	32 (0dB)	

Conditions

None

Feature Cross Reference

- Music on Hold

Terminal Programming Instructions

To enter data for Program 10-04 (Music on Hold Setup):

1. Enter the programming mode.
2. 10 04

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-05 : General Purpose Relay Setup** to define which Relay circuits (5-8) on 2PGDAD Adapter are used for General Purpose Relay.

Refer to Program 10-21-05 for the CCPU relay.

Input Data

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General Purpose Relay No.	1-8

Item No.	Item	Input Data	Default
01	Slot No Physical Port of ESIU Sensor Circuit Number	Slot No: 0-24 ESIU Port: 0-16 Relay No: 0, 5-8	0 - 0 - 0

Conditions

None

Feature Cross Reference

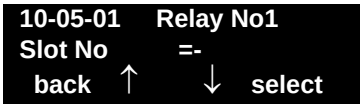
- Music on Hold

Program 10 : System Configuration Setup
10-05 : General Purpose Relay Setup

Terminal Programming Instructions

To enter data for Program 10-05 (General Purpose Relay Setup):

1. Enter the programming mode.
2. 10 05



3. Enter the number of the item you want to program.

4. Select the relay number to be programmed or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.

Description

Use **Program 10-06 : ISDN BRI Setup** to define the TEI selection and DID mode for DID callers when the BRI feature is used.

Enter the SPID (Service Profile ID) assigned to each of the UX5000's BRI ISDN lines. Each BRI blade has a maximum of two lines and each line can have a maximum of two SPIDs. To use both channels of a BRI ISDN line, two directory numbers must be ordered from telco. A SPID is assigned for each directory number.

Input Data

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Slot Number	01-24

- INDEX-2 -

ISDN Line Number	1-4

Item No.	Item	Input Data	Default
01	**TEI Selection** Set the method the UX5000 will use 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

Program 10 : System Configuration Setup
10-06 : ISDN BRI Setup

Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 10-06 (ISDN BRI Setup):

1. Enter the programming mode.
2. 10 06

3. Enter the number of the item you want to program.

4. Select the slot number to be programmed or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 64 channels (on the CPU) maximum.

Description

Use **Program 10-07 : Conversation Record Circuits** to select the number of Conference circuits to be used for Conversation Recording.

Note: Even if this program is set to '0', the telephone conversation recording function can be used. In this case, 64 (32 x 2) circuits will be shared by conference and conversation recording. The number of the conference circuits occupied by a conversation recording is two.

Input Data

Item No.	Number of Conversation Recording	Default
01	0-16 0:not set, 2 to 32 conference circuits	0

Conditions

None

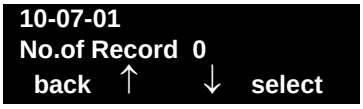
Feature Cross Reference

- Automatic Call Distribution (ACD)
- Conference

Terminal Programming Instructions

To enter data for Program 10-07 (Conversation Record Circuits):

1. Enter the programming mode.
2. 10 07



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 terminal. With pre-ringing, a burst of ringing occurs as soon as the trunk's 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 Setup	0 = disable 1 = enable	0

Conditions

None

Feature Cross Reference

- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 10-08 (Pre-Ringing Setup):

1. Enter the programming mode.
2. 10 08

   10-08-01
   Pre-ringing 0:No
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   10-08-nn
   nnnnn
   ← −1 +1 →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-09 : DTMF and Dial Tone Circuit Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-09 : DTMF and Dial Tone Circuit Setup** to allocate the circuits on the CPU blades for either DTMF receiving or dial tone detection. The CCPU blade has 32 circuits initially. On the UX5000, with an EXIFU installed, an additional 64 circuits are provided. These are used as follows:

- Extension — DTMF receiver for SLT
- 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 (Extension only) Circuit/Resource 09-32: 2 (Trunk only) Circuit/Resource 97-160: 0 (Common use) [requires EXIFU] (Resources 33-96 are not used/dummy ports.)

Conditions

- An EXIFU blade must be installed to access resources 97-160.
- Refer to the DSP Resource section of the CCPU description within the UX5000 Hardware Manual (P/N 0913100) for details on the DSP assignment.

Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 10-09 (DTMF and Dial Tone Circuit Setup):

1. Enter the programming mode.
2. 10 09

3. Enter the number of the item you want to program.

4. Enter the resource number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-12 : CCPU Network Setup

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-12 : CCPU Network Setup** to setup the IP Address, Subnet-Mask, and Default Gateway addresses of the CCPU and EXIFU.

Input Data

Item No.	Item	Input Data	Default
01	**IP Address** Set the IP address for the CCPU.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 -191.255.255.254 192.0.0.1 ~ 223.255.255.254	Slot 1: 192.168.0.10 Slot 4: 192.168.0.13
02	**Subnet Mask** The setting of Subnet Mask errors 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 errors.	128.0.0.0 192.0.0.0 224.0.0.0 240.0.0.0 248.0.0.0 252.0.0.0 254.0.0.0 255.0.0.0 255.128.0.0 255.192.0.0 255.224.0.0 255.240.0.0 255.248.0.0 255.252.0.0 255.254.0.0 255.255.0.0 255.255.128.0 255.255.192.0 255.255.224.0 255.255.240.0 255.255.248.0 255.255.252.0 255.255.254.0 255.255.255.0 255.255.255.128 255.255.255.192 255.255.255.224 255.255.255.240 255.255.255.248 255.255.255.252 255.255.255.254 255.255.255.255	255.255.255.0
03	**Default Gateway** IP Address for Router	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	**Time Zone** Enter the difference for standard time.	0 ~ 24 (-12 thru +12 Hours)	7 Hours
05	**NIC** NIC Auto Negotiate	0 = Auto Detect 1 = 100Mbps, Full Duplex 2 = 100Mbps, Half Duplex 3 = 10Mbps, Full Duplex 4 = 10Mbps, Half Duplex	0
06	**NAT Router Setup** Enable or disable the NAPT Router Setup. With SIP trunking behind a NAPT router, this must be set to enabled.	0=Disable, 1=Enable	0

07	**Default Gateway (WAN Side) IP Address** Set the Default Gateway's IP Address. With SIP trunking, the IP address of the WAN side of the router must be entered.	0.0.0.0 - 126.255.255.254 128.0.0.1 - 191.255.255.254 192.0.0.1 - 223.225.225.254	0.0.0.0
08	**ICMP Redirect** When the UX5000 receives the ICMP REDIRECT message, determine whether the IP routing table is automatically updated.	0=Enable (Update Automatically) 1=Disable (No Automatic Update)	0
09	**VoIP Daughter Board IP Address** Set the LAN IP address for the 32, 64 and 128 channel VoIP daughter boards. The IP number increases by one for each increase in the slot number.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 -191.255.255.254 192.0.0.1 ~ 223.255.255.254	172.16.0.10
10	**VoIP Daughter Board Subnet Mask** Define the subnet mask for the 32, 64 and 128 channel VoIP daughter boards. The setting of Subnet Mask errors 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 errors.	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
11	**VoIP Daughter Board NIC** Define the NIC setting for the VoIP daughter board. With auto negotiate, the destination sets the ability (from 1-4) based on the ability of the connected device.	0 = Auto Detect 1 = 100Mbps, Full Duplex 2 = 100Mbps, Half Duplex 3 = 10Mbps, Full Duplex 4 = 10Mbps, Half Duplex	0
12	**VoIP Daughter Board ICMP Redirect** When the UX5000 receives the ICMP REDIRECT message, determine whether the IP routing table is automatically updated for the 32, 64 and 128 channel VoIP daughter boards.	0=Enable (Update Automatically) 1=Disable (No Automatic Update)	0

Conditions

The UX5000 must be reset in order for these changes to take affect.

Program 10 : System Configuration Setup
10-12 : CCPU Network Setup

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-12 (CPU Network Setup):

1. Enter the programming mode.
2. 10 12

3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-13 : In-DHCP Server Setup** to setup the DHCP Server built into the CPU.

Input Data

Item No.	Item	Input Data	Default	Description
01	DHCP Server Mode	0 = Disabled 1 = Enabled	0	Enable or disable the use of the built-in DHCP Server.
02	**Lease Time** PCPro/WebPro provides a maintenance function to display the extension number, MAC address, IP address and expiration date of a lease. If an extension is not available, this column will only display "-".	Days 0-255	0 day	Lease Time of the IP address to a client.
		Hour 0-23	0 hour	
		Minutes 0-59	30 minutes	
03	Not used			
04	Not used			
05	Last DHCP Data	0 = Disabled 1 = Enabled	1	Determine whether DHCP lease information that has previously been set was successful.

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-13 (In-DHCP Server Setup):

1. Enter the programming mode.
2. 10 13

   10-13-01
   DCHP-Serv_Mode0:Off
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   10-13-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

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

Input Data

Item No.	Description	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.	Minimum: 0.0.0.0 ~ 126.255.255.254 128.0.0.0 ~ 191.255.255.254 192.0.0.0 ~ 223.255.255.254	172.16.0.100	10-13-04
		Maximum: 0.0.0.0 ~ 126.255.255.254 128.0.0.0 ~ 191.255.255.254 192.0.0.0 ~ 223.255.255.254	172.16.5.254	

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-14 (Managed Network Setup):

1. Enter the programming mode.
2. 10 14

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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.	Description	Input Data	Default
01	**MAC Address** The IP address should be assigned out of the scope range set up in Program 10-14.	00-00-00-00-00-00 ~ FF-FF-FF-FF-FF-FF	00-00-00-00-00-00
02	**IP Address** The IP address should be assigned out of the scope range set up in Program 10-14.	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

- VoIP

Terminal Programming Instructions

To enter data for Program 10-15 (Client Information Setup):

1. Enter the programming mode.
2. 10 15

3. Enter the number of the item you want to program.

4. Enter the client number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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	**Code number 0-255**	**3 (Fixed)**
		IP address 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
02	DNS Server	**Code number 0-255**	**6 (Fixed)**
		IP address 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
03	TFTP Server Name	**Code number 0-255**	**66 (Fixed)**
		64 Characters Maximum	-
04	DRS	**Code number 0-255**	**161 (Fixed)**
		IP address 1.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	172.16.0.10
05	Not Used		
06	Client Host Name	**Code number 0-255**	**12 (Fixed)**
		64 Characters Maximum	-
07	DNS Domain Name	**Code number 0-255**	**15 (Fixed)**
		20 Characters Maximum	-
08	**Download Protocol** Set the download protocol used with AutoConfig.	**Code number 0-255**	**43 (Fixed)**
		Sub Code number	**163 (Fixed)**
		1 = FTP 2 = HTTP	1

09	**Encryption Account Information** Set the encryption account information used with AutoConfig.	**Code number 0-255**	**43 (Fixed)**
		Sub Code number 164 characters (fixed)	**164 (Fixed)**
		128 character string maximum	1
10	**FTP Server Address** Set the FTP server address used with AutoConfig. Without the Config file and a proper FTP server, a Chinese character terminal cannot be registered. Set to 0.0.0.0 when you are not registerng a Chinese character terminal with the FTP server.	**Code number 0-255**	**43 (Fixed)**
		Sub Code number	**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	
11	**Configuration File Name** Set the file name used with Auto-Config. When a setting in the Config file is improper, a Chinese character terminal cannot be registered. Do not input the file name when you are not registereing a Chinese character terminal with the FTP server.	**Code number 0-255**	**43 (Fixed)**
		Sub Code number	**151 (Fixed)**
		15 character string maximum	1
12	**Vender Class** Identification information on the particular vendor hardware which passes on the ID.	**Code number 0-255**	**60 (Fixed)**
		256 character string maximum	NEC DT700
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
17	**SIP Server (Domain Name)** The domain specification is invalid because addressing is given priority when the value is set in Program 10-16-16.	**Code number 0-255 (20 characters max)**	**120 (Fixed)**
		20 character string maximum	

18	**External FTP Server for IPterm85** Set the FTP server address used with AutoConf (ITR-32K).	**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** Enter the File Name used for Auto-Config.	**Code number 0-255 (15 characters max)**	**151 (Fixed)**
		15 character string maximum	
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
25	Presence Server ***- Future Item -***	**Code number 0-255** **Sub Code number**	**43 (Fixed)** **166 (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

26	XML Server ***- Future Item -***	**Code number 0-255** **Sub Code number**	**43 (Fixed)** **167 (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
27	**SIP Server Receive Port**	**Code number 0-255**	**168 (Fixed)**
		Port: 1-65535	5080

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-16 (Option Information Setup):

1. Enter the programming mode.
2. 10 16

   10-16-01
   Router_Code_No3
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   10-16-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

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

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	Gatekeeper mode	0:No GK 1:Automatic 2:Manual	0	An external gatekeeper uses proprietary set up. **1 = No GK:** A gatekeeper is not used **2 = Automatic:** A gatekeeper is searched and assigned **3 = Manual:** A gatekeeper's IP address is used (assigned in 10-17-02).	10-17-02 10-17-04
02	Gatekeeper IP address	IP address 1.0.0.1 ~ 126.255.255.254 128.1.0.1 -191.254.255.254 192.0.1.1 ~ 223.255.254.254	0.0.0.0	Unicast IP address of the External GK.	This item is effective only when Program 10-17-01 is set to **Manual (2)**.
03	Not used				
04	Preferred Gatekeeper	Character line (Max 124)	No Setting	When registering with an external gatekeeper using gatekeeper search, two or more GRQ(s) may be assigned. In this case, if this ID is set up, it will register with a gate-keeper with this ID.	This item is effective only when Program 10-17-01 is set to **Automatic (1)**.

Conditions

None

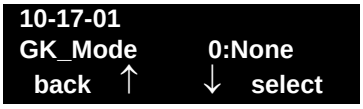
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-17 (H.323 Gatekeeper Setup):

1. Enter the programming mode.
2. 10 17



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-18 : H.323 Alias Address Setup** to set up the Alias Address registered into the External Gatekeeper.

Input Data

The number of alias	1 - 6

Item No.	Item	Input Data	Default	Description
01	Alias Address	Maximum 12 digits (0-9, *, #)	No setup	Define the Alias Address of the UX5000 registered into the External Gatekeeper. At this time, it is only the telephone number which can be registered as an Alias Address. In the future, other types of addresses will be available.
02	Type of Alias Address	0 = E164	0	Define the type of Alias Address registered into the external gatekeeper. Currently the only type is E.164. However, in the future, other types will also be available.

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-18 (H.323 Alias Address Setup):

1. Enter the programming mode.
2. 10 18

3. Enter the number of the item you want to program.

4. Enter the Alias number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-19 : VOIPDB DSP Resource Selection** to specify the operating mode of the DSP resource on the VOIPDB daughter board. This program setting has no affect on the terminal/ trunk port assignments or usage.

Input Data

- INDEX-1 -

Slot Number	1, 4

- INDEX-2 -

Physical Port Number	001-128

Item No.	DSP Resource Number	Input Data	Default
01	01-128	0 = common use - for both IP extensions and trunks 1 = IP extension only 2 = IP trunk only 3 = Networking (network)/Telco 4 = CygniLink 5 = Blocked	0 1-Only 1 DSP Channel 0-Excluding 1 DSP Channel

Conditions

One DSP resource can handle four IP channels.

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-19 (VOIPDB DSP Resource Selection):

1. Enter the programming mode.
2. 10 19

3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.
• External Equipment type 14 requires software 2.g0+.

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 = - Reserve - 4 = Network Listener 5 = SMDR 6 = DIM Access 7 = - Reserve - 8 = - Reserve - 9 = CTE/1st-Party TAPI 10 = ACD Agent ControlNot Used in U.S. 11 = O&M Server 12 = Traffic Report Output 13 = Room Data output for Hotel Service 14 = IP DECT Directory Access

Item No.	Item	Input Data	Default
01	**TCP Port** When using External Device 6 for DIM access, the port ***cannot*** be set to 5963.	0-65535	External Device 1 = 0 External Device 2 = 0 External Device 3 = 0 External Device 4 = 30,000 External Device 5 = 0 External Device 6 = 0 External Device 9 = 0 External Device 10 = 0 External Device 11 = 8010 External Device 12 = 60030 External Device 13 = 0 External Device 14 = 0
02	Not used		
03	Keep Alive Time	1-255 (Seconds)	30

Conditions

None

Program 10 : System Configuration Setup
10-20 : LAN Setup for External Equipment

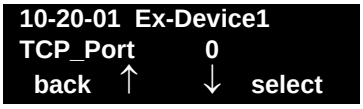
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 10-20 (LAN Setup for External Equipment):

1. Enter the programming mode.
2. 10 20



3. Enter the number of the item you want to program.

4. Enter the device number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-21 : CCPU Hardware Setup** to set up various hardware, such as the external speaker, BGM, and the switch for control on CCPU.

Input Data

Item No.	Item	Input Data	Default
01	***- Not Used -***	-	-
02	***- Not Used -***	-	-
03	***- Not Used -***	-	-
04	**External Source Input/Output Selection on CCPU** Select the functions of the CCPU's I/O terminals (CN8 and CN9) for external music source.	0=External Speaker (CN8) / External MOH (CN9) 1=External Speaker (CN8) / BGM (CN9) 2=BGM (CN8) / External MOH (CN9) **Note:** CN8 = Relay 2, CN9 = Relay 1	
05	**General Purpose Relay on CCPU** Select which relay is to be used for the general purpose relay on the CCPU (CN10).	0 = Off 1 = Relay 1 on CCPU 2 = Relay 2 on CCPU	0

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 10-21 (CCPU Hardware Setup):

1. Enter the programming mode.
2. 10 21

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-22 : Setting the Wake On LAN for APSU** to set up the data required to start the APSU unit (server) from a key terminal.

Input Data

SLOT Number	01-24

Item No.	Item	Input Data	Default	Description	Related Program
01	Server MAC Address	00-00-00-00-00-00 FF-FF-FF-FF-FF-FF	00-00-00-00-00-00	Set up MAC address for the APSU unit (server).	11-15-06
02	Broadcast address	0.0.0.0 255.255.255.255	0.0.0.0	Set up the Broadcast address for the APSU unit (server).	

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 10-22 (Setting the Wake On LAN for APSU):

1. Enter the programming mode.
2. 10 22

3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-23 : H.323 System Interconnection** to define the IP address of another system, call control port number and alias address for UX5000 inter-connection. This program is activated when Program 10-17-01 and 10-18 are registered. The UX5000 allows for up to 1000 systems to be registered.

Input Data

Index 1

System Number	0001-1000

Item No.	Item	Input Data	Default	Related Program
01	System Interconnection	0 = No 1 = Yes	0	
02	IP Address	1.0.0.1_126.255.255.254 128.1.0.1 _191.254.255.254 192.0.1.1 _223.255.254.254	0.0.0.0	Activated when 10-23-01=1
03	Call Control Port	1-65535	1720	Activated when 10-23-01=1
04	**Alias Address** If Program 10-28-04 is used, its entry must be numeric as 10-23-04 does not permit text entry - only numeric entries.	Max 12 addresses	No Setting	Activated when 10-23-01=1 10-28-04

Conditions

None

Feature Cross Reference

None

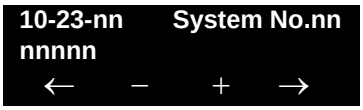
Program 10 : System Configuration Setup
10-23 : H.323 System Interconnection

Terminal Programming Instructions

To enter data for Program 10-23 (H.323 System Interconnection):

1. Enter the programming mode.
2. 10 23

3. Enter the number of the item you want to program.



4. Enter the system number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-24 : Daylight Savings Setup** to set the options for daylight savings. As the UX5000 is used globally, these settings define when the UX5000 should automatically adjust for daylight savings as it applies to the region in which the UX5000 is installed.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Daylight Savings Mode** Enable (1) or disable (0) the UX5000's 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 the UX5000 should adjust for daylight savings time.	0000-2359	0200	
03	**Start of Month (Summer Time)** Enter the month of UX5000 should adjust the time for daylight savings time (01 - 12).	1-12	3	
04	**Start of Week** Enter the week of the month the UX5000 should adjust the time for daylight savings time (0 = last week of the month or 1-5).	0 = Last Week of Month 1-5	2	
05	**Start of Week Day** Enter the day of the week the UX5000 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 of UX5000 should adjust the time for standard time (01 - 12).	1-12	11	
07	**End of Week** Enter the week of the month the UX5000 should adjust the time for standard time (0 = last week of the month or 1-5).	0 = Last Week of Month 1-5	1	

08	**End of Week Day** Enter the day of the week the UX5000 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

Time and Date

Terminal Programming Instructions

To enter data for Program 10-24 (Daylight Savings Setup):

1. Enter the programming mode.
2. 10 24

   10-24-01
   Daylight Saving 1:On
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   10-24-nn
   nnnnn
   ← –1 +1 →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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	Related Program
01	**Gateway Prefix Registration** Determine whether the Gateway Prefix is registered in an external Gatekeeper.	0=Disabled, 1=Enabled	0	
02	**Gateway Prefix** Set the value of the Gateway Prefix which is registered in the external Gatekeeper. This option is ignored if 10-25-01 is set to "0".	Up to 12 Digits (0-9, *, #)	No Setting	10-24-01

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 10-25 (H.323 Gateway Prefix Setup):

1. Enter the programming mode.
2. 10 25

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.
• Option 4, SIP-MLT Peer-to-Peer requires software 2.0+.

Description

Use **Program 10-26 : IP System Operation Setup** to set the operation mode of the IP communications server.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**IP Peer-to-Peer** This options allows a IP terminal to call another IP terminal user without using DSP resources on the VOIPDB daughter board.	0 = Disabled 1 = Enabled	1	
02	**RTP Forwarding** Enable or disable RTP Forwarding for the UX5000. If this option is disabled, the DSP is used from the VOIPDB which low load channel. If this option is enabled, the DSP is used from the same VOIPDB channel.	0 = Disabled 1 = Enabled	0	
03	**SIP Peer-to-Peer** This options allows a standard SIP terminal and the SIP MLT terminal to use Peer-to-Peer when calling another standard SIP terminal or SIP MLT terminal. This allows the DSP resources on the VOIPDB daughter board to be used for other calls.	0 = Disabled 1 = Enabled	1	
04	**SIP-MLT Peer-to-Peer Mode** Enable or disable whether SIP multi-line terminal calls are Peer-to-Peer	0 = Disabled 1 = Enabled	1	

Conditions

None

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-26 (IP System Operation Setup):

1. Enter the programming mode.
2. 10 26

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

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

Input Data

System ID	01-50

Item No.	Item	Input Data	Default	Related Program
01	**IP Address** System ID is related with the System ID in the Numbering Plan (Program 11-01-03). When the digits are analyzed and the system ID is determined from the UX5000 data set in the Numbering Plan, the networking call will be sent to the IP Address set in this program. The IP Address should be the IP Address of the peer CPU (Program 10-12-01).	1.0.0.1_126.255.255.254 128.1.0.1 _191.254.255.254 192.0.1.1 _223.255.254.254	0.0.0.0	11-01-01 10-12-01
02	**Call Procedure Port** The Port Number should be set with the same value as the H.225 setup port in Program 84-02-33.	1-65535	1730	84-02-33

Conditions

None

Feature Cross Reference

None

Program 10 : System Configuration Setup
10-27 : IP System ID

Terminal Programming Instructions

To enter data for Program 10-27 (IP System ID):

1. Enter the programming mode.
2. 10 27

3. Enter the number of the item you want to program.

4. Enter the system ID number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-28 : SIP Trunk Basic Setup** to set the basic options used for SIP trunks.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Domain Name** Define the Domain name. This information is generally provided by the SIP carrier.	64 characters maximum	None	
02	**Host Name** Define the Host name. This information is generally provided by the SIP carrier.	48 characters maximum	None	
03	**Transport Protocol** Define the Transport type. This option will always be set to UDP.	0 = UDP 1 = TCP	0	
04	**User ID** Define the User ID. Note: If Program 10-23-04 for UX5000 interconnection, this entry must be numeric as 10-23-04 does not allow text entry - only numeric. This information is generally provided by the SIP carrier.	32 characters maximum	No Entry	21-17 21-19
05	**Domain Assignment** Define the Domain Assignment. This entry is determined by what information the SIP carrier provides. If the SIP carrier provides a server name: **SIPconnect-sca.atL0.cbeyond.net**, then the domain would be: **atL0.cbeyond.net** and the host name would be **SIPconnect-sca**.	0 = IP Address 1 = Domain name	0	
06	**IP Trunk Port Binding** If this entry is set to 0 (Disable), an incoming call uses the lowest port. If the entry is set to 1 (Enable), the incoming call uses the port assigned in 10-36. This could be required if a carrier provides more than one registration (one for each telephone number provided).	0 = Disable 1 = Enable	0	10-36-01

Conditions

None

Program 10 : System Configuration Setup
10-28 : SIP Trunk Basic Setup

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-28 (SIP Trunk Basic Setup):

1. Enter the programming mode.
2. 10 28

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
SA

Feature Availability
• Available.
• Option 16 requires software 2.0+.

Description

Use **Program 10-29 : SIP Proxy Setup** to set the proxy options for SIP trunks.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**SIP Proxy Setup - Default Outbound Proxy** Define the SIP Proxy setup, Default Proxy (Outbound). When SIP trunking is used, this must be on. ***Note; If entries are made in Program 10-29-xx for a SIP Server and the SIP Server is then removed or not used, the entries in Program 10-29-xx must be set back to their default settings. Even if 10-29-01 is set to "0" (off), the UX5000 will still check the settings in the remaining 10-29 programs.***	0=off, 1=on	0	
02	**SIP Proxy Setup - Default Inbound Proxy** Define the Default Proxy (inbound).	0=off, 1=on	0	
03	**Default Proxy IP Address** Enter the default Proxy IP Address if the SIP carrier is using an IP address for the proxy. In most cases, this will be left at the default entry as the domain name is used.	0.0.0.1-126.255.255.254 128.0.0.1 - 191.255.255.254 192.0.0.1 - 223.225.255.254	0.0.0.0	10-29-01 10-29-02
04	**Default Proxy Trans. Port** Define the Proxy Trans. port.	0-65535	5060	10-29-01 10-29-02
05	**Registration Mode** Define the mode for the registration server. This should always be set to manual when using SIP trunking.	0=None 1=Manual	0	
06	**Registration IP Address** Define the Registration IP Address. The carrier may provide an IP address. In most cases, a domain name will be used so this entry will be left at the default. This item is only used when Program 10-29-05 is set to "Manual".	0.0.0.1-126.255.255.254 128.0.0.1 - 191.255.255.254 192.0.0.1 - 223.225.255.254	0.0.0.0	10-29-05

Program 10 : System Configuration Setup
10-29 : SIP Proxy Setup

Item No.	Item	Input Data	Default	Related Program
07	**Registration Server Trans Port** Define the Registration Trans. port. This item is only used when Program 10-29-05 is set to “Manual”.	0-65535	5060	10-29-05
08	**DNS Server Mode** Define the DNS Mode. If the SIP carrier provides a domain name, turn this option on.	0=off, 1=on	0	
09	**DNS IP Address** If Program 10-29-08 is enabled, define the DNS IP Address (normally provided by the SIP carrier). Enter the carrier-provided information or enter a valid DNS server IP address.	0.0.0.1 - 126.255.255.254 128.0.0.1 - 191.255.255.254 192.0.0.1 - 223.225.255.254	0.0.0.0	10-29-08
10	**DNS Trans. Port** If Program 10-29-08 is enabled, define the DNS Trans. port.	0-65535	53	10-29-08
11	**Registrar Domain Name** Define the Registrar Domain Name (normally provided by the SIP carrier). Example: SIPconnect-sca.atL0.cbeyond.net	128 characters maximum	No Entry	
12	**Proxy Domain Name** Define the Proxy Domain Name (UX5000 domain name).	64 characters maximum	No Entry	
13	**Proxy Host Name** Define the Proxy Host name (UX5000 proxy name).	48 characters maximum	No Entry	
14	**SIP Carrier Choice** Define the SIP Carrier Choice.	0=Default, 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 Time** Define the Registration Expiry time - the time allowed to register with the SIP carrier. This should stay at the default entry.	120-65535 seconds	3600 seconds	
16	**Register Sub Mode** This option is used for the prevention of a DoS attack related to a SIP "INVITE" message. With this option disabled, the software always receives any INVITE message from any source. This could cause a system slow down or possibly a reset issue.	0 = off 1 = on	0	

Item No.	Item	Input Data	Default	Related Program
17	**DNS Src Port** Set the source port number of the DNS. When 10-29-08 is enabled, this port number is used.	0-65535	53	

Conditions

None

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-29 (SIP Proxy Setup):

1. Enter the programming mode.
2. 10 29

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**- Not Used -**			
02	**User ID** Define the authentication User name provided by the SIP carrier.	64 characters max	None	
03	**Password** Enter the authentication password provided by the SIP carrier. When the UX5000 registers its own ID with the carrier SIP server or makes an outgoing call via the carrier SIP server, the SIP server requests the authentication. This data is used as "Register ID 0".	32 characters max	None	
04	**Authorization Trial** Define the Authorization trial. When a call tries to register with the SIP carrier and they refuse, this entry determines how many times the UX5000 will send authorization.	1-9	1 time	

Conditions

None

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-30 (SIP Authentication Information):

1. Enter the programming mode.
2. 10 30

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

The keep alive message is automatically responded to by the destination UX5000, if the response is not received the retry count will start. If a response is not received within the number of retries the networking link will be taken out of service. When the link is taken out of service:

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

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

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Keep Alive Interval** This program is used to set the interval of Keep Alive. The UX5000 does not send Keep alive when this item is set to "0". If this entry is greater than “0”, networked PRI spans which are using Kentrox DSUs will not re-sync when removed from service then returned to service.	0-65535 seconds	0	
02	**Keep Alive Retry Timer** Set how many times the UX5000 resends Keep Alive.	1-255	5	
03	**Time Synchronization** The time signal is transmitted at 0:00 to all UX5000s every day when this option is set. When the signal is received, the slave or master (depending on the programmed option) of the same period of time corrects its time to 0:00.	0 = No Time Synchronization 1 = Synchronization Master 2 = Synchronization Slave	0	

Conditions

The keep alive message must be sent and a response not received for the retry count, for the link to be taken out of service and the calls in progress and Park Hold orbits to be released.

For example: If an ISDN CygniLink connection is disconnected at Layer 1 then the keep alive message can not be sent, therefore the keep alive operation will not occur.

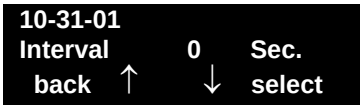
Feature Cross Reference

Networking - AspireNet

Terminal Programming Instructions

To enter data for Program 10-31 (Networking Keep Alive Setup):

1. Enter the programming mode.
2. 10 31



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

The setting is for each slot within the UX5000; ensure that you select the correct slot before making any changes.

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

Input Data

Slot Number	1 - 24

Item No.	Item	Input Data	Default	Related Program
01	**Maximum Channels** Set the maximum number of channels which can be used with PRI CygniLink.	1 - 23	23	

Conditions

None

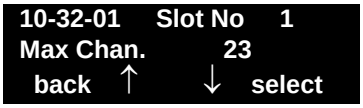
Feature Cross Reference

Networking - AspireNet

Terminal Programming Instructions

To enter data for Program 10-32 (PRI Networking Channel Limitation):

1. Enter the programming mode.
2. 10 32



3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Registration Expire Time** This timer sets the interval Keep Alive time is checked, unless provided by the SIP terminals.	60-65535 seconds	3600 seconds	
02	**Authentication Mode** Enable or disable the Authentication Mode. If the authentication mode is enabled, the SIP extension needs a password and user ID.	0=Disable, 1=Enable	0	15-05-16
03	**Registrar/Proxy Domain** If Program 10-33-02 is enabled, set the Registrar/Proxy Domain name (domain/host name or IP address of the UX5000 CPU.	64 characters maximum	None	15-05-16
04	**Registrar/Proxy Host Name** Set the Registrar/Proxy Host name.	48 characters maximum	None	

Conditions

None

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-33 (SIP Registrar/Proxy Setup):

1. Enter the programming mode.
2. 10 33

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-36 : SIP Trunk Registration Information Setup** to set the SIP trunk registration information. The UX5000 can keep 31 Registrations. Data in programs 10-28-04, 10-30-02 and 10-30-03 are recognized as ID 0. This UX5000 data is for register ID 1 - ID 31.

If Program 10-28-06 is enabled, the UX5000 refers to this program.

Input Data

Register ID	1 - 31

Item No.	Item	Input Data	Default	Related Program
01	**Registration** Enable or disable the SIP trunk registration.	0 = Disable 1 = Enable	0	
02	**User ID** Define the user ID.	32 characters max	None	
03	**Authentication User ID** Define the authentication user ID.	64 characters max	None	
04	**Authentication Password** Define the authentication password.	32 characters max	None	

Conditions

None

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-36 (SIP Trunk Registration Information Setup):

1. Enter the programming mode.
2. 10 36

3. Enter the number of the item you want to program.

4. Enter the register ID number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-37 : UPnP Setup** to set the UPnP options for SIP trunks.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**UPnP Mode** Use this option to determine whether UPnP task starts. If UPnP task starts, it obtains a NAPT router WAN IP Address by using NAT traversal and saves it in 10-12-07 automatically.	0 = Disable 1 = Enable	0	10-12-07
02	**UPnP Interval** UPnP task will try to obtain the WAN IP Address of NAPT router at the interval defined in this option.	0, 60-3600	60	

Conditions

None

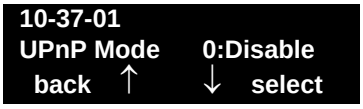
Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-37 (UPnP Setup):

1. Enter the programming mode.
2. 10 37



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-39 : T1/PRI Fractional Setup** to determine if the T1/PRI should allow the use fractional ports.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Fractional Use** Use this option to determine whether the UX5000 should allow fractional use of T1/PRI trunks.	0 = Disable 1 = Enable	0	

Conditions

None

Feature Cross Reference

T1 Trunking (with ANI/DNIS Compatibility)

Terminal Programming Instructions

To enter data for Program 10-39 (T1/PRI Fractional Setup):

1. Enter the programming mode.
2. 10 39

   10-39-01
   Fractional 0:Disable
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   10-39-nn
   nnnnn
   ← −1 +1 →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-40 : IP Trunk Availability

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-40 : IP Trunk Availability** to determine whether SIP trunks are enabled.

Input Data

Slot Number	1

Item No.	Item	Input Data	Default	Related Program
01	**IP Trunk Availability** Select whether to enable or disable the use of IP trunks.	0 = Disable 1 = Enable	0	84-26
02	**Number of Ports** Define the number of IP trunks.	0 = None 4 ~ 200 in increments of 4 (ex: 4, 8, 12, 16, etc.)	0	

Conditions

None

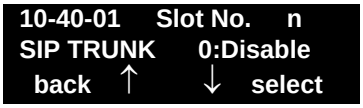
Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 10-40 (IP Trunk Availability):

1. Enter the programming mode.
2. 10 40



3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-41 : General Purpose Contact Detector Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-41 : General Purpose Contact Detector Setup** to specify the circuit number used on a 2PGDAD as a contact detection circuit.

Input Data

General Purpose Contact Detector Number	1-8

Item No.	Item	Input Data	Default	Related Program
01	**Slot Number** Define the slot number of the ESIU to which the 2PGDAD is connected	0 = No Setting 1-24 = Slots 1-24	0	
02	**Physical Port Number** Select the port number on the ESIU to which the 2PGDAD is connected.	0 = No Setting 1-16 = Ports 1-16	0	
03	**Relay Circuit Number** Select the relay circuit on the 2PGDAD module.	0, 5-8	0	

Conditions

None

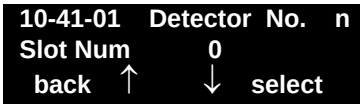
Feature Cross Reference

Analog Communications Interface (ACI)

Terminal Programming Instructions

To enter data for Program 10-41 (General Purpose Contact Detector Setup):

1. Enter the programming mode.
2. 10 41



3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-42 : Virtual Loop Back Port Setting

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-42 : Virtual Loop Back Port Setting** to define the parameters of the Virtual Loop Back port as used with ISDN.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Number of Loop Back Ports** Define the number of Virtual Loop Back ports.	0-23 (0=No setting)	0	
02	**Logical Trunk Port Number** **This item is view-only and displays the beginning trunk port used for Virtual Loop Back.**	**0-168**	**0**	
03	**Logical Extension Port Number** **This item is view-only and displays the beginning extension port used for Virtual Loop Back.**	**0-480**	**0**	
04	**Layer 3 Timer Type** This is the same as Program 10-03-04 (for PRI). Each timer value of Layer3 is set up for each type in Program 81-06 (T-Bus) and Program 82-06 (S-Bus).	1-5	1	Same as Program 10-03-04 (for PRI)
05	**Calling Party Number** This is the same as Program 10-03-05 (for PRI). Based on this setting, the UX5000 will include 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 a ‘1’ if this option is enabled.	0 = Disable 1 = Enable	1	Same as Program 10-03-05 (for PRI)
06	**S-Bus DID Digits** This is the same as Program 10-03-07 (for PRI).	0-4	0	Same as Program 10-03-07 (for PRI)
07	**Call Busy Mode for S-Bus**	0 = Alerting Message 1 = Disconnect Message	0	Same as Program 10-03-15 (for PRI)

Conditions

None

Feature Cross Reference

ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 10-42 (Virtual Loop Back Port Setting):

1. Enter the programming mode.
2. 10 42

   ```
   10-42-01
   Loopback Port    0
    back  ↑     ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   10-42-nn
   nnnnn
    ←              →
   ```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-45 : IP Routing Table Setup

Level:	Feature Availability
SA	• Available.

Description

Use **Program 10-45 : IP Routing Table Setup** to setup the IP routing table with IP Addresses, Subnet-Masks, and Gateway addresses.

Input Data

Routing Table Number	001-100

Item No.	Item	Input Data	Default
01	**Network IP Address** Set the network IP address for routing the packets sent by LAN to the CCPU.	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	**Subnet Mask** Define the subnet of the network where routing is sent. Errors are masked when all Host Addresses are 0.	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	0.0.0.0
03	**Gateway** Set the destination gateway address.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0

Conditions

The UX5000 must be reset in order for these changes to take affect.

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-45 (IP Routing Table Setup):

1. Enter the programming mode.
2. 10 45

3. Enter the number of the item you want to program.

4. Enter the Route Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-46 : SIP MLT Server Information Setup

Level:
IN

Feature Availability
• Available.
• Item 13 requires software 2.0+.
• Item 14 requires software 2.g0+.

Description

Use **Program 10-46 : SIP MLT Server Information Setup** to define the settings for the SIP MLT Server.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Register Mode** Set the type of terminal registration mode of the SIP MLT.	0 = Plug and Play 1 = Auto 2 = Manual	0	
02	***- Not Used -***	-	-	
03	***- Not Used -***	-	-	
04	**Server Name** Set the User ID of SIP-URL of the UX5000. Example: UserID@HostName.DomainName	Max. 32 Characters (only alphanumeric characters)	sipphd	
05	***- Not Used -***	-	-	
06	**Registrar Port** Set the SIP message reception port number. This entry should not overlap with the TCP/UDP receive port used by other IP functions.	0 - 65535	5080	10-29-04 84-20-01
07	**Encryption Mode** Set the Encryption Mode for SIP Message. Selecting "All" will encrypt all the data of the signaling message (SIP and SDP are encrypted). **If you change the encryption mode, you must reset the UX5000.**	0 = Off 1 = All Codes	0	
08	**Encryption Type** ***This is is view-only.*** **The encryption type of the SIP message is displayed.**	**0 = Mode 1**	**0**	

Item No.	Item	Input Data	Default	Related Program
09	**One Time Password** This program sets the one time password for SIP Message encryption. With signal encryption, the UX5000 gives the encryption key to the terminal. This option is used to confirm that it was actually the UX5000 that gave the key to the terminal. *This is effective only when Program 10-46-07 is set to "All".*	Max. 10 Characters (only alphanumeric characters)	None	10-46-07
10	**Registration Start Port** Define the beginning number of the logical port allocated when the SIP MLT is registered. *This is effective only when Program 10-46-01 is set to "Plug and Play".*	1 - 512	1	10-46-01
11	**Multicast IP Address** Set the internet protocol address used by the Multicast. Multicast IP address cannot overlap when two or more main devices are set up in the same network communications server or if multicast is used by other IP services.	224.0.0.0 - 239.255.255.255	224.0.0.10	
12	**Beginning Multicast Port** Set the beginning port number used by the multicast.	0 - 65535	30000	
13	**Session Subscription Port** This program is used to set the session subscription port number.	0 - 65535	5081	
14	**NAT Mode** When the UX5000 controls the WAN/ NAT SIP multi-line terminal using the NAT router, the option must be set to "ON" (1)..	0 = Off 1 = On	0	

Conditions

None

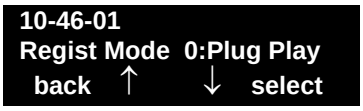
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-46 (SIP Multi-Line Server Information Setup):

1. Enter the programming mode.
2. 10 46



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-47 : Terminal License Server Information Setup** to define the settings for the Terminal License Server.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Reception Port for TCP I/F** Set the TCP message reception port number.	0-65535	6080	
02	**TCP Keep Alive Time** Define the TCP keep alive time.	1-255 Seconds	5	

Conditions

None

Feature Cross Reference

- Maintenance

Terminal Programming Instructions

To enter data for Program 10-47 (Terminal License Server Information Setup):

1. Enter the programming mode.
2. 10 47

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-48 : License Activation

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-48 : License Activation** to enable the license from the License Server.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	Software Code	20 Digits Max.		
02	Activation Code	8 Hexadecimal Digits		
03	Feature Code	7 Digits Max.		

Conditions

None

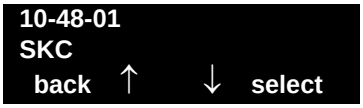
Feature Cross Reference

- Licensing

Terminal Programming Instructions

To enter data for Program 10-48 (License Activation):

1. Enter the programming mode.
2. 10 48



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-49 : License File Activation** to preserve the file issued from the license server in the USB thumb drive, and turns on a formal license from the USB thumb drive.

Input Data

Item No.	Item	Input Data
01	Load Data	Dial 1 + Hold Key (To cancel, press hold key without dialing 1)

Conditions

None

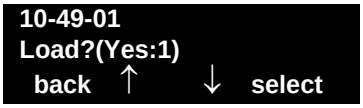
Feature Cross Reference

- Licensing

Terminal Programming Instructions

To enter data for Program 10-49 (License File Activation):

1. Enter the programming mode.
2. 10 49



3. Enter the number of the item you want to program.

4. Press 1 to load the data or press MIC to cancel and exit the step.
5. Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-50 : License Information

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-50 : License Information** to display the License Server information. This program is read-only.

Input Data

Feature Code Number	0001-9999

Item No.	Item	Displayed Data
01	Feature Code Name	Characters
02	Feature Code License Quantity	0-32767
03	Number of Campaign Licenses	0-32767
04	Remaining Days for Campaign License	0-9999

Conditions

None

Feature Cross Reference

- Licensing

Terminal Programming Instructions

To enter data for Program 10-50 (License Information):

1. Enter the programming mode.
2. 10 50

3. Enter the number of the item you want to program.

4. Enter the license number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-51 : PRI/T1 Selection for 1PRIU Blade

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-51 : PRI/T1 Selection for 1PRIU Blade** is used to selection the function of an installed 1PRIU blade - PRI or T1.

Input Data

System ID	0-50
Slot Number	01-24

Item No.	Item	Input Data	Default	Related Program
01	**PRI/T1 Selection** Select if the 1PRIU blade is to be used for PRI (0) or T1 (1).	0 = PRI 1 = T1	0	

Conditions

None

Feature Cross Reference

- ISDN
- T1 Compatibility

Terminal Programming Instructions

To enter data for Program 10-51 (PRI/T1 Selection of PRIU Blade):

1. Enter the programming mode.
2. 10 51

3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 10 : System Configuration Setup
10-52 : Free/Demo License Information

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-52 : Free/Demo License Information** is used to display the remaining number of days available for free/demo licenses. This program is read-only.

Input Data

Item No.	Item	Input Data	Related Program
01	Free/Demo License Days Remaining This option will display the number of days remaining on a free/demo license.	0-9999	10-50

Conditions

None

Feature Cross Reference

- Maintenance

Terminal Programming Instructions

To enter data for Program 10-52 (Free/Demo License Information):

1. Enter the programming mode.
2. 10 52

3. Enter the number of the item you want to program.

4. Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-54 : License Configuration for Blades** to set the licensing details for each blade.

Input Data

Slot Number	01-24
License Index Number	01-32

Item No.	Item	Input Data	Default	Related Program
01	License Code	0000-9999	-	
02	Number of Licenses	0-255	-	

Conditions

Licenses must be enabled in Program 10-48 or 10-49 to actually enable the licensed function.

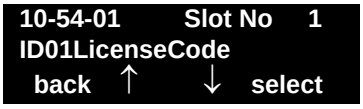
Feature Cross Reference

- Maintenance

Terminal Programming Instructions

To enter data for Program 10-54 (License Configuration for Blades):

1. Enter the programming mode.
2. 10 54



3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter the License Index number to be defined or press FLASH to use the displayed entry.
6. Enter data for the item you selected + HOLD.
7. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to set the SPOE (single point of entry) for each blade.

Input Data

Slot Number	01-24

Item No.	Item	Input Data	Default
01	**IP Address** Enter an IP address for each blade in the UX5000.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 -191.255.255.254 192.0.0.1 ~ 223.255.255.254	Slot 1 = 172.16.1.100 Slot 2 = 172.16.1.101 Slot 3 = 172.16.1.102 Slot 4 = 172.16.1.103 Slot 5 = 172.16.1.104 Slot 6 = 172.16.1.105
02	**- Not Used -**	-	-
03	**Main/Add-On** The GSWU of the first UX5000 automatically becomes the main unit.	0 = Main 1 = Add-On	1
04	**Subnet Mask** The the subnet mask for each blade.	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** Set the default gateway address.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0

Conditions

None

Program 10 : System Configuration Setup
10-55 : UX5000 Blade Network Setup

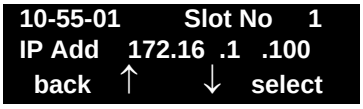
Feature Cross Reference

- Networking - AspireNet

Terminal Programming Instructions

To enter data for Program 10-55 (UX5000 Blade Network Setup):

1. Enter the programming mode.
2. 10 55



3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter the IP address number to be defined or press FLASH to use the displayed entry.
6. Enter data for the item you selected + HOLD.
7. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-56 : XML Portal Page for IP Terminal** to set the licensing content of the XML portal page offered to the IP terminals. Up to 5 URLs can be defined.

With the XML setup, instead of the 4 services provided by the default XML applications (which also provides clock, photo album, alarm, etc), this program can be used to allow a link to up to 5 different XML applications (ex: Conference Server screen saver). The default XML application can be defined as one of the paths. (ex: http://192.168.1.125/xmlphone/phonelogin.ashx). The "Home URL" setting in the IP terminal setup must be changed to: http://xxx.xxx.xxx.xxx/apps.html (the xxx.xxx.xxx.xxx = the UX50000 IP address).

Input Data

XML Application URL Link	1-5

Item No.	Item	Input Data	Default	Related Program
01	**XML Application Name** Use this option to set the XML application name.	Up to 40 Characters Max.	-	
02	**URL** Set the URL for the XML application.	Up to 256 Characters Max.	-	

Conditions

None.

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-56 (XML Portal Page for IP Terminal):

1. Enter the programming mode.
2. 10 56

3. Enter the number of the item you want to program.

4. Enter the URL number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 10-58 : SIP MLT Local Network Area Setup** to define the IP information for the software NAT Traversal feature.

Input Data

Area Table	1-8

Item No.	Item	Input Data	Default
01	**Network Address** If a SIP MLT connects to the UX5000 via local router as allowed by Program 10-46-14, this data sets the local network address. This entry is required when both a NAT router and local router are used in order for the UX5000 to recognize the location of the SIP MLT.	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	**Subnet Mask** If a SIP MLT connects to the UX5000 via local router as allowed by Program 10-46-14, this data sets the local subnet mask. This entry is required when both a NAT router and local router are used in order for the UX5000 to recognize the location of the SIP MLT.	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	0.0.0.0

Conditions

None.

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 10-58 (SIP MLT Local Network Area Setup):

1. Enter the programming mode.
2. 10 58

3. Enter the number of the item you want to program.

4. Enter the table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 11 : System Numbering
11-01 : System Numbering

Level:	Feature Availability
IN	• Available.

Description

Use **Program 11-01 : System Numbering** to set the UX5000's internal (Intercom) 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 UX5000 operation. Make sure you thoroughly understand the default numbering plan before proceeding. If you must change the standard numbering, use the chart for **System Numbering** (page 125) to keep careful and accurate records of your changes.

Before changing your numbering plan, use the PC Program or Program 90-03 to make a backup copy of your UX5000's data.

Changing the numbering plan consists of three steps:

1. Enter the digits you want to change.
2. Specify the length of the code you select to change.
3. Assign a function to the code selected.

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 **System Numbering** (page 125) 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 would be 600-699. If you enter 4 in step 2 below, the entries affected would be 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 two-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.

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 UX5000 how many digits comprise the code. This is the ***Number of Digits Required*** column in the **System Numbering** (page 125) table. In the default program, all codes from 100-999 are three digits long. Codes beginning with 0 are one digit long. Codes beginning with * are 3 digits long and codes beginning with # are 4 digits long.

- If you are programming two digit codes in the PC Program, make sure the nX entry for ***Number of Digits Required*** is the maximum allowed by any of the two digit codes in the range. This is why the default ***Number of Digits Required*** entry for #X is four digits long. Even though #1-#9, #0 and ## entries require only two digits, #* requires four. If you inadvertently change #* to 2, you will no longer be able to enter #*#* to enter the programming mode.

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 **System Numbering** (page 125) 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 Registration) 11-12 : Service Code Setup (for Service Access) 11-13 : Service Code Setup (for ACD) 11-14 : Service Code Setup (for Hotel/Motel) 11-15 : Service Code Setup (Special access)
2	Extension Number	11-02 : Extension Numbers 11-04 : Virtual Extension Numbers 11-06 : 2PGDAD (ACI) Extension Numbers 11-07 : Department Calling Group Numbers 11-08 : 2PGDAD (ACI) Group Pilot Numbers
3	Trunk Access Code	11-09 : Trunk Access Code
4	Special Trunk Access	11-09 : Trunk Access Code
5	Operator Access	20-17 : Operator’s Extension
6	ARS/F-Route Access	44-xx
8	CygniLink	10-03 : Blade Setup 10-12 : CPU (FEC 1) Network Setup 10-20 : LAN Setup for External Equipment 10-27 : IP System ID 10-44 : CPU (FEC 2) Network Setup

- Changing the ***Dial Type*** for a range of codes can have a dramatic affect on how your UX5000 operates. Assume, for example, the site is a hotel that has room numbers from 100-399. In order to make extension numbers correspond to room numbers, you should:
  - Change the Dial Type for the digit 1 from 1 (Service Code) to 2 (extension number).
  - Change the Dial Type for the digit 7 from 2 (extension number) to 1 (Service Code).
  - In Program 11-02, reassign extension numbers on each floor from 100 to 399.
  - In Programs 11-10 through 11-15, reassign the Service Codes from the 100 series (e.g., 116) to the 700 series (e.g., 716). (Other applications might also require you to change entries in Program 11-10 through 11-15.)
  - Check Program 11-16 to be sure that the Single Digit Service Code 04 (digit 7) does not affect any post dial Service Codes codes in Programs 11-10 through 11-15. (Unless you changed codes from their default assignments, this would not be the case.)
  - In Program 45-01-03, enter "0" to disable Voice Mail Call Screening. If you left screening enabled, Voice Mail ports could call the wrong extensions. For example, a Voice Mail port trying to call screen extension 130 would outdial 1130. This would call extension 113 instead.

  Extension numbers now will correspond to room numbers, and all the Service Codes in the 100 series will be in the 700 series.

Default

See the following tables.

System Numbering					
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Individual Trunk Access, 5=Operator Access, 6=Flexible Routing, 8=Networking, 0=Not Used					
Dialed Number	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] - 0-50**
	Default	**New**	**Default**	**New**	
1X	3		1		
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		
27	0		0		
28	0		0		
29	0		0		
20	0		0		
2*	0		0		
2#	0		0		

System Numbering					
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Individual Trunk Access, 5=Operator Access, 6=Flexible Routing, 8=Networking, 0=Not Used					
Dialed Number	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] - 0-50**
	Default	**New**	**Default**	**New**	
3X	3		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		2		
41	0		0		
42	0		0		
43	0		0		
44	0		0		
45	0		0		
46	0		0		
47	0		0		
48	0		0		
49	0		0		
40	0		0		
4*	0		0		
4#	0		0		

System Numbering					
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Individual Trunk Access, 5=Operator Access, 6=Flexible Routing, 8=Networking, 0=Not Used					
Dialed Number	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] - 0-50**
	Default	**New**	**Default**	**New**	
5X	4		2		
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		2		
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		

System Numbering					
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Individual Trunk Access, 5=Operator Access, 6=Flexible Routing, 8=Networking, 0=Not Used					
Dialed Number	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] - 0-50**
	Default	**New**	**Default**	**New**	
7X	3		2		
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	3		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		

System Numbering					
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Individual Trunk Access, 5=Operator Access, 6=Flexible Routing, 8=Networking, 0=Not Used					
Dialed Number	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] - 0-50**
	Default	**New**	**Default**	**New**	
9X	1		3		
91	0		0		
92	0		0		
93	0		0		
94	0		0		
95	0		0		
96	0		0		
97	0		0		
98	0		0		
99	0		0		
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		

System Numbering					
Dial Types: 1=Service Code, 2=Extension Number, 3=Trunk Access, 4=Individual Trunk Access, 5=Operator Access, 6=Flexible Routing, 8=Networking, 0=Not Used					
Dialed Number	**Number of Digits Required**		**Dial Type**		**Network System ID [if type 8] - 0-50**
	Default	**New**	**Default**	**New**	
*X	2		1		
*1	0		0		
*2	0		0		
*3	0		0		
*4	0		0		
*5	0		0		
*6	0		0		
*7	0		0		
*8	0		0		
*9	0		0		
*0	0		0		
**	0		0		
*#	0		0		
#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

Terminal Programming Instructions

To enter data for Program 11-01 (System Numbering):

1. Enter the programming mode.
2. 11 01

3. Enter the number of the item you want to program.

4. Enter the dial number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 11 : System Numbering
11-02 : Extension Numbering

Level:	Feature Availability
IN	• Available.

Description

Use **Program 11-02 : Extension Numbering** to set the extension number. The extension number can be up to eight digits long. The first/second digit(s) of the number should be assigned in Program 11-01. This lets an employee 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 Key Terminals, Single Line Terminals (Including SLT and APR Adapters), and IP Terminals. • Extension number assignments cannot be duplicated.

Default

Extension Port Number	Extension Number
1-199	301-499
200-512	5000-5312

Conditions

None

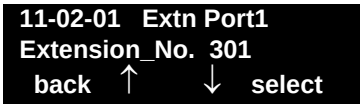
Feature Cross Reference

- Department Calling
- Flexible System Numbering
- Intercom

Terminal Programming Instructions

To enter data for Program 11-02 (Extension Numbering):

1. Enter the programming mode.
2. 11 02



3. Enter the number of the item you want to program.

4. Enter the extension port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 11 : System Numbering
11-04 : Virtual Extension Numbering

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Virtual Extension Port 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 and 11-08.

Default

Virtual Extension Numbers : No setting

Conditions

None

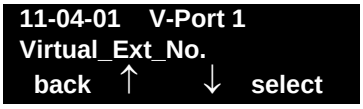
Feature Cross Reference

- Flexible System Numbering
- Multiple Directory Numbers / Call Coverage

Terminal Programming Instructions

To enter data for Program 11-04 (Virtual Extension Numbering):

1. Enter the programming mode.
2. 11 04



3. Enter the number of the item you want to program.

4. Enter the virtual port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 11 : System Numbering
11-06 : ACI Extension Numbering

Level:	Feature Availability
IN	• Available.

Description

Use **Program 11-06 : ACI Extension Numbering** to define the virtual extension number to be used for the ACI. The extension number can be up to eight digits long. The first/second digit(s) of the number should be assigned in Program 11-01.

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 and 11-08.	• 10-03 : Basic Configuration for Each Blades

Default

ACI Port Numbers have no extension number set.

Conditions

None

Feature Cross Reference

- Analog Communications Interface (ACI)
- Flexible System Numbering

Terminal Programming Instructions

To enter data for Program 11-06 (ACI Extension Numbering):

1. Enter the programming mode.
2. 11 06

   11-06-01 ACI Port1
   ACI_Ext_No.
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   11-06-nn ACI Portnnn
   nnnnn
   ← – + →

4. Enter the ACI port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 11 : System Numbering
11-07 : Department Group Pilot Numbers

Level:	Feature Availability
IN	• Available.

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 be up to eight digits long. The first/second digit(s) of the number should be assigned in Program 11-01 as type 2.

Input Data

Department (Extension) Group Number	01-64

Item No.	Department (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 and 11-08.	• 16-01 : Department (Extension) Group Basic Data Setup • 16-02 : Department Group Assignment for Extensions • 16-03 : Secondary Department Group

Default

- Group Numbers 01-64: No setting

Conditions

None

Feature Cross Reference

- Department Calling
- Department Step Calling

Terminal Programming Instructions

To enter data for Program 11-07 (Department Group Pilot Numbers):

1. Enter the programming mode.
2. 11 07

   11-07-01 TEL Group1
   Pilot_Call_No.
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   11-07-nn TEL Groupnnn
   nnnnn
   ← – + →

4. Enter the telephone group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 11 : System Numbering
11-08 : ACI Group Pilot Number

Level:	Feature Availability
IN	• Available.

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 be up to four digits long. The first/second digit(s) of the number should be assigned in Program 11-01 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 and 11-07.	33-07

Default

Group Numbers have no pilot numbers defined.

Conditions

None

Feature Cross Reference

- Analog Communications Interface (ACI)

Terminal Programming Instructions

To enter data for Program 11-08 (ACI Group Pilot Number):

1. Enter the programming mode.
2. 11 08

   11-08-01 ACI Group1
   ACI_Pilot_No.
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   11-08-nn ACI Groupnnn
   nnnnn
   ← − + →

4. Enter the ACI group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 11 : System Numbering
11-09 : Trunk Access Code

Level:	Feature Availability
IN	• Available.

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 to 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.	Item	Input Data	Default	Related Program
01	**Trunk Access Code** Use this program to assign the trunk access code (normally 9). This is the code extension users dial to access Automatic Route Selection.	Dial (Up to 4 digits)	9	• 11-01 : System Numbering • 14-01 : Trunk Basic Data Setup • 14-05 : Trunk Group • 14-06 : Trunk Group Routing
02	**Alternate Trunk Route Access Code** Use this program to define additional trunk access codes. When a user dials the Alternate Trunk Route Access Code, the UX5000 routes their call to the Alternate Trunk Route.	Dial (Up to 4 digits)	No setting	• 11-01 : System Numbering • 14-01 : Trunk Basic Data Setup • 14-05 : Trunk Group • 14-06 : Trunk Group Routing • 21-02 : Trunk Group Routing for Extensions • 21-15 : Alternate Trunk Group Routing for Extensions

Conditions

None

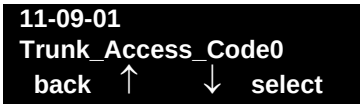
Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 11-09 (Trunk Access Code):

1. Enter the programming mode.
2. 11 09



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
IN	• Available.

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 through 11-16. The following chart shows:

- The number of each code (01-27)
- The function of the Service Code.
- What type of terminals can use the Service Code
- The code's default entry. For example, dialing *3 (item 26) allows users to force a trunk line to disconnect.
- Programs that may be affected with the changing the code.

If you change a Service Code, be sure to record your entry in the "New" column.

Input Data

Item No.	Item	Terminals	Default	New	Related Program
01	Day / Night Mode Switching	KTS, SLT	818		12-xx 20-07-01
02	Changing the Music on Hold Tone	KTS	881		10-04
03	Setting the UX5000 Time	KTS	828		
04	Storing Common Abbreviated Dialing Numbers	KTS	853		
05	Storing Group Abbreviated Dialing Numbers	KTS	854		
06	Setting the Automatic Forwarding for Each Trunk Line	KTS	833		24-04-01
07	Canceling the Automatic Forwarding for Each Trunk Line	KTS	834		24-04-01
08	Setting the Destination for Automatic Trunk Forwarding	KTS	835		24-04-01
09	Not Used		No Setting		
10	Not Used	-	-	-	-
11	Entry of Credit for Toll Restriction - Not Used		No Setting		
12	Night Mode Switching for Other Group	KTS	118		12-xx 20-07-01
13	Not Used	-	-	-	-
14	Not Used	-	-	-	-

Item No.	Item	Terminals	Default	New	Related Program
15	Not Used	-	-	-	-
16	Leaving Message Waiting	KTS	126		11-11-09
17	Dial Block by Supervisor	KTS	101		90-19
18	Off-Premise Call Forward by Door Box	KTS	822		13-05
19	Not Used	-	-		-
20	VRS - Record/Erase Message	KTS	116		20-07-13
21	VRS - General Message Playback	KTS	111		20-07-14
22	VRS - Record or Erase General Message	KTS	112		20-07-15
23	SMDR - Extension Accumulated Printout Code	KTS	121		20-07-18
24	SMDR - Group Accumulated Printout Code	KTS	122		20-07-19
25	Account Code Accumulated Printout Code	KTS	123		20-07-20
26	Forced Trunk Disconnect	KTS, SLT	*3		20-07-11
27	**Trunk Port Disable for Outgoing Calls** Define the service code to be used to block/release a trunk.	KTS	145		20-07-12
28	Not Used	-	-		-
29	Not Used	-	-		-
30	Not Used	-	-		-
31	Not Used	-	-		-
32	**Set Private Call Refuse** Define the service code to be used to set the “Private” call refusal for the trunks which are programmed in Program 14-01-27 to 1.	KTS, SLT	No Setting		14-01-27
33	**Enter Caller ID Refuse** For keysets only, define the service code to be used to add or delete the Caller ID numbers to be refused.	KTS, SLT	No Setting		14-01-27
34	**Set Caller ID Refuse** Define the service code to be used to enable/disable the Caller ID call refusal for the trunks which are programmed in Program 14-01-27 to 1.		No Setting		14-01-27
35	**DID Mode Switching** Assign the service code to be used to manually change the time pattern for a DID number.	KST, SLT	No Setting		
36	**- Not Used -**	-	-		
37	**- Not Used -**	-	-		

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

Item No.	Item	Terminals	Default	New	Related Program
38	**- Not Used -**	-	-		
39	**- Not Used -**	-	-		
40	**- Not Used -**	-	-		
41	**Date Setting** Define the service code used to manually change the date for the UX5000 (service code + YY/MM/DD/W [W is the day of the week: Sun=1, Mon=2, Sat=7).	KST	No Setting		20-07-30
42	**Maintenance Service** Define the service code used to execute maintenance functions.	KST	No Setting		

Conditions

None

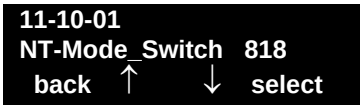
Feature Cross Reference

Refer to chart above.

Terminal Programming Instructions

To enter data for Program 11-10 (Service Code Setup (for System Administrator)):

1. Enter the programming mode.
2. 11 10



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 through 11-16. The following chart shows:

- The item number of each code.
- The function of the Service Code.
- What type of terminals can use the Service Code
- The code's default entry. For example, dialing 825 (item 18) allows users to turn on or turn off Background Music.
- Programs that may be affected with the changing the code.

If you change a Service Code, be sure to record your entry in the "New" column.

Input Data

Item No.	Item	Terminals	Default	New	Related Program
01	Call Forward - Immediate	KTS, SLT	No Setting		
02	Call Forward - Busy	KTS, SLT	No Setting		
03	Call Forward - No Answer	KTS, SLT	No Setting		
04	Call Forward - Busy/No Answer	KTS, SLT	No Setting		
05	Call Forward - Both Ring	KTS, SLT	No Setting		
06	Call Forwarding - Select Option	KTS, SLT	*2		
07	Call Forwarding - Follow-Me	KTS, SLT	No Setting		
08	Do Not Disturb	KTS, SLT	847		
09	Answer Message Waiting	KTS, SLT	*0		11-10-16
10	Cancel All Messages Waiting	KTS, SLT	873		
11	Cancel Message Waiting	KTS, SLT	871		
12	Alarm Clock	KTS, SLT	827		20-01-06
13	Display Language Selection for Keyset	KTS	178		15-02
14	Text Message Setting	KTS	No Setting		
15	Enable Handsfree Incoming Intercom Calls	KTS	821		20-09-05 20-02-12
16	Force Ringing of Incoming Intercom Calls	KTS	823		20-09-05 20-02-12

Item No.	Item	Terminals	Default	New	Related Program
17	Programmable Function Key Programming (Dialing 851 Service Code)	KTS	851		15-07 11-11-38
18	BGM On/Off	KTS	825		
19	Key Touch Tone On/Off	KTS	824		
20	Change Incoming CO and ICM Ring Tones	KTS	820		15-02
21	Check Incoming Ring Tones	KTS	811		
22	Extension Name Programming	KTS	800		15-01
23	Second Call for DID/DISA/DIL	KTS	179		20-09-01
24	**Change Extension Class of Service** Allows an extension user to change the COS of another extension. Must be allowed in Program 20-13-28.	KTS	177		20-13-28
25	Automatic Transfer Setup for Each Department Group	KTS, SLT	102		20-11-17 24-05
26	Automatic Transfer Cancellation for Each Department Group	KTS, SLT	103		
27	Destination of Automatic Transfer Each Department Group	KTS	104		20-11-17 24-05
28	Delayed Transfer for Every Department Group	KTS, SLT	105		20-11-17 24-05 24-02-08
29	Delayed Transfer Cancellation for Each Department Group	KTS, SLT	106		20-11-17
30	DND Setup for Each Department Group	KTS, SLT	107		
31	DND Cancellation for Each Department Group	KTS, SLT	108		
32	Not Used	-	No Setting	-	-
33	Dial Block	KTS, SLT	100		
34	Temporary Toll Restriction Override	KTS, SLT	875		21-07
35	Pilot Group Withdrawing	KTS, SLT	150		
36	Toll Restriction Override	KTS, SLT	163		21-14
37	Adjusting Ring Volume	KTS	829		
38	Programmable Function Key Programming (Dialing 852 Service Code)	KTS	852		15-07 11-11-17
39	One Touch Dial Number Entry	KTS	855		

Item No.	Item	Terminals	Default	New	Related Program
40	Off-Premise Call Forwarding	KTS, SLT	*4		
41	Tandem Ringing	KTS, SLT	No Setting		15-07 30-03
42	Not Used	-	-		-
43	**Headset Mode Switching** This option determines how long after the hookswitch is released the SLT will hear dial tone before the terminal goes into headset mode.	SLT	188		
44	Automated Attendant (DSPDB) - Not Used in U.S. -	KTS	No Setting	-	-
56	**Telephone Book Lock Service** Using the service code defined in this option, users can change the Telephone Book lock status.	KTS	No Setting		15-19-06
59	**Call Attendant, Busy** Define the service code (up to 8 digits) to be used by a user when setting up the Call Attendant feature for busy calls.	KTS, SLT	No Setting		15-01-08 40-10-08
60	**Call Attendant, No Answer** Define the service code (up to 8 digits) to be used by a user when setting up the Call Attendant feature for calls not answered.	KTS, SLT	No Setting		15-01-09 40-10-09
61	**Set/Cancel Call Forward with Centrex** Assign the service code to be used to set or cancel each Call Forward type for Centrex. Up to 8 digits can be assigned.	KTS, SLT	No Setting		
62	**Adjustment for Headset Ring Volume** Define the service code (up to 8 digits) to be used to adjust the volume of the ring tone heard in the headset	UX5000 KTS Only	874		11-11-37 15-02-12 15-02-41 15-02-42
63	**Double Height Character Indication** Define the service code to be used to set the double height characters for a UX5000 keyset. The user will dial this service code plus 0 to turn off the double-height character, 1 for the clock line as double-height, or 2 for the extension number line as double-height.	UX5000 KTS Only	No Setting		15-02-45
64	**Reverse Display Indication** Define the service code (up to 8 digits) to be used to reverse the display coloring.	UX5000 KTS Only	No Setting		15-02-44

Item No.	Item	Terminals	Default	New	Related Program
65	**Headset Mode Switching** Define the service code (up to 8 digits) to be used to set the headset mode for the following terminals: Dterm 8* (Aspire keysets), DT3** (UX5000 digital keysets), and DT7** (UX5000 IP keysets). With this option set, the speaker button is used to answer/hang up calls.	KTS	No Setting		

Conditions

None

Feature Cross Reference

Refer to chart above.

Terminal Programming Instructions

To enter data for Program 11-11 (Service Code Setup (for Setup/Entry Operation)):

1. Enter the programming mode.
2. 11 11

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 (01-48)
- The function of the Service Code.
- What type of terminals can use the Service Code
- The code's default entry. For example, dialing 805 (code 05) will cancel a previously set Camp-On.
- Programs that may be affected with the changing the code.

If you change a Service Code, be sure to record your entry in the "New" column.

For "8xx" service codes used after dialing an extension (post-dialing), Program 11-16-09 (Single Digit Voice Mail code) must be deleted or changed from the default entry of "8" for the service codes to work.

Input Data

Item No.	Item	Terminals	Default	New	Related Program
01	**Call Forwarding / Do Not Disturb Override** Activating Call Forwarding/Do Not Disturb Override. This code is only available if you disable the voice mail Single Digit dialing code in Program 11-16-09.	KTS, SLT	807		11-16-09
02	Conference	KTS, SLT	#1		
03	Override (Off-Hook Signaling)	KTS, SLT	809		
04	Set Camp-On	KTS, SLT	850		
05	Cancel Camp-On	KTS, SLT	870		
06	**Switching of Voice Call and Signal Call** Used to toggle an ICM call between Handsfree Answerback and Forced Intercom Ringing for outgoing Intercom calls.	KTS, SLT	812		
07	Step Call	KTS, SLT	808		
08	Barge-In	KTS, SLT	810		
09	Change Extension Group to All Ring	KTS, SLT	No Setting		16-02
10	Common/Extension Abbreviated Dialing	KTS, SLT	#2		
11	Group Abbreviated Dialing	KTS, SLT	#4		

Program 11 : System Numbering
11-12 : Service Code Setup (for Service Access)

Item No.	Item	Terminals	Default	New	Related Program
12	Last Number Dial	KTS, SLT	#5		
13	Saved Number Dial	KTS, SLT	815		
14	Trunk Group Access	KTS, SLT	804		
15	Specified Trunk Access	KTS, SLT	#9		
16	Trunk Access Via CygniLink	KTS	No Setting		
17	Clear Last Number Dialing Data	KTS, SLT	876		
18	Clear Saved Number Dialing Data	KTS, SLT	885		
19	Internal Group Paging	KTS, SLT	801		31-01-01
20	External Paging	KTS, SLT	803		
21	Meet Me Answer to Specified Internal Paging Group	KTS, SLT	864		
22	Meet Me Answer to External Paging	KTS, SLT	865		
23	Meet Me Answer in Same Paging Group	KTS, SLT	863		
24	Combined Paging	KTS, SLT	*1		31-07
25	Direct Call Pickup - Own Group	KTS, SLT	856		
26	Call Pickup for Specified Group	KTS, SLT	868		
27	Call Pickup	KTS, SLT	*#		
28	Call Pickup for Another Group	KTS, SLT	869		
29	Direct Extension Call Pickup	KTS, SLT	**		
30	Specified Trunk Answer	KTS, SLT	172		
31	Park	KTS, SLT	#6		24-03
32	Answer for Park	KTS, SLT	*6		24-03
33	Group Hold	KTS, SLT	832		
34	Answer for Group Hold	KTS, SLT	862		
35	Personal (Extension) Park	KTS, SLT	857		
36	Door Box Access	KTS, SLT	802		
37	Common Canceling Service Code	KTS, SLT	120		
38	General Purpose Indication	-	883		
39	VRS Access - Not Used in U.S. -	KTS, SLT	884		
40	Personal Abbreviated Dialing	KTS, SLT	#7		

Item No.	Item	Terminals	Default	New	Related Program
41	Voice Over	KTS	890		11-16-08
42	Flash on Trunk lines	SLT	#3		
43	Universal Answer	SLT	#0		14-05 14-06
44	Callback Test for SLT	SLT	899		
45	Enabled On Hook When Holding (SLT)	SLT	849		15-03-07
46	Answer On Hook When Holding (SLT)	SLT	859		15-03-08
47	**Call Waiting Answer / Split Answer** Splitting (switching) between calls	KST/SLT	894		11-12-03
48	Account Code	SLT	##		
49	Not Used	-	-	-	-
50	General Purpose Relay	KST	880		
51	Call Own Mailbox		*8		
52	Call Screening		No Setting		
53	Live Recording at SLT	SLT	154		
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.		882		
56	**E911 Alarm Shut Off** Enter the Service Code that an extension user can dial to shut off the E911 Alarm Ring.		886	-	20-08-16 21-01-13
57	**Unsupervised Conference/Tandem Trunking**	KST/SLT	#8		
58	**Transfer Into Conference** Assign the Service Code users dial to Transfer a call into a Conference call.	KST/SLT	124		20-13-10 20-13-15 20-13-16

Conditions

For “8xx” service codes used after dialing an extension (post-dialing), Program 11-16-09 (Single Digit Voice Mail code) must be deleted or changed from the default entry of “8” for the service codes to work.

Feature Cross Reference

Refer to chart above.

Program 11 : System Numbering
11-12 : Service Code Setup (for Service Access)

Terminal Programming Instructions

To enter data for Program 11-12 (Service Code Setup (for Service Access)):

1. Enter the programming mode.
2. 11 12

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 through 11-12 and 11-14 through 11-16. The following chart shows:

- The number of each code (01-09)
- The function of the Service Code.
- What type of terminals can use the Service Code
- The code's default entry.

If you change a Service Code, be sure to record your entry in the "New" column.

Input Data

Item No.	Item	Terminals	Default	New
01	ACD Log In / Log Out (for KTS)	KTS, SLT	*5	
02	ACD Log Out (for SLT)	SLT	155	
03	Set ACD Wrap-Up Time (for SLT)	SLT	156	
04	Cancel ACD Wrap-Up Time (for SLT)	SLT	157	
05	Set ACD Off Duty (for SLT)	SLT	158	
06	Cancel ACD Off Duty (for SLT)	SLT	159	
07	ACD Conversation Recording (for SLT)	SLT	160	
08	**ACD AIC Login** Allows an AIC Agent to log into a group.	KTS	No setting	
09	**ACD AIC Logout** Allows an AIC Agent to log out of a group.	KTS	No setting	
10	**ACD Agent Login by Supervisor** Allows an ACD Supervisor to log into a group.	KTS	167	
11	**ACD Agent Logout by Supervisor** Allows an ACD Supervisor to log out of a group.	KTS	168	
12	**Change Agent ACD Group by Supervisor** When using service code 169 to change an agent's 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 '169 04'.	KTS	169	

Program 11 : System Numbering
11-13 : Service Code Setup (for ACD)

Item No.	Item	Terminals	Default	New
13	**ACD Agent Changing Own ACD Group** Using this service code, an ACD Agent can reassign themselves to another ACD Group.	KTS	170	

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 11-13 (Service Code Setup (for ACD)):

1. Enter the programming mode.
2. 11 13

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 through 11-13, 11-15 and 11-16. The Service Codes can only be used at terminals registered as hotel terminals in Program 42-02. The following chart shows:

- The number of each code (01-17)
- The function of the Service Code.
- What type of terminals can use the Service Code
- The code's default entry.

If you change a Service Code, be sure to record your entry in the "New" column.

Input Data

Item No.	Item	Terminals	Default
01	Set DND for Own Extension	KTS, SLT	127
02	Cancel DND for Own Extension	KTS, SLT	128
03	Set DND for Other Extension	KTS, SLT	129
04	Cancel DND for Other Extension	KTS, SLT	130
05	Set Wake Up Call for Own Extension	KTS, SLT	131
06	Cancel Wake Up Call for Own Extension	KTS, SLT	132
07	Set Wake Up Call for Other Extension	KTS, SLT	133
08	Cancel Wake Up Call for Other Extension	KTS, SLT	134
09	Set Room to Room Call Restriction	KTS, SLT	135
10	Cancel Room to Room Call Restriction (Hotel)	KTS, SLT	136
11	Change Toll Restriction Class for Other Extension	KTS, SLT	137
12	Check-In	KTS, SLT	138
13	Check-Out	KTS, SLT	139
14	Room Status Change for Own Extension	KTS, SLT	140

Item No.	Item	Terminals	Default
15	Room Status Change for Other Extension	KTS, SLT	141
16	Room Status Output	KTS, SLT	142
17	Hotel Room Monitor	KTS, SLT	175
18	Hotel PMS Toll Restriction Set	KTS	166
19	Hotel Room Data Set ***- Not Used -***	KTS	-

Conditions

None

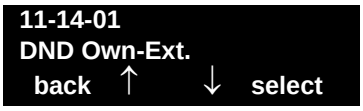
Feature Cross Reference

- Hotel/Motel

Terminal Programming Instructions

To enter data for Program 11-14 (Service Code Setup (for Hotel)):

1. Enter the programming mode.
2. 11 14



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 through 11-14 and 11-16. The following chart shows:

- The number of each code.
- The function of the Service Code.
- What type of terminals can use the Service Code.
- The code's default entry.
- Programs that may be affected with the changing the code.

If you change a Service Code, be sure to record your entry in the "New" column.

Input Data

Item No.	Item	Terminals	Default	New	Related Program
01	**Remote Maintenance** Set the service code used in the dial-up number when using the serial or USB port for PCPro or WebPro		830		
02	ACD Access in Dial-In Conversion Table		860		22-04 22-11
03	**Backup Data Save** This option will save the user's soft key settings (extension's programmed Call Forwards, DND, etc.). It is recommended to use this feature before upgrading the UX5000 software.	KTS	#*#9		
04	Not Used				
05	UX5000 Programming Mode, Log-On	KTS	#*#*		11-01
06	Wake on LAN to APSU Unit	KTS	No Setting		10-22
07	***- Not Used -*** Recording Destination in Dial-In Conversion Table		No Setting		
08	Network Message Lamp Control		866		
09	**Transfer to Trunk Ring Group Code** Allows a call to be transferred to a trunk ring group or External Paging zones.	KTS, SLT	No Setting		22-05-01 25-06-02 31-05-01
10	***- Not Used -***	-	-		
11	Ethernet Port Reset		No Setting		

Item No.	Item	Terminals	Default	New	Related Program
12	**Extension Data Swap** Define the service code (up to 8 digits) to be used with the Extension Data Swap feature. • When swapping IP extensions, the terminals will automatically reset after the swap.	KTS, SLT	No Setting		92-04-01
13	**Function Setting via DISA** Define the service code an outside caller dials when on a DISA line in order to access certain UX5000 features. (8 Digits Max)	KTS, SLT	No Setting		
14	**Modem Access** When PCPro connects with an analog modem on the CCPU, the PC side application similarly sets the special show set here.		No Setting		

Conditions

None

Feature Cross Reference

- Hotel/Motel
- Maintenance

Terminal Programming Instructions

To enter data for Program 11-15 (Service Code Setup, Administrative (for Hotel)):

1. Enter the programming mode.
2. 11 15

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 through 11-15. The following chart shows:

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

If you change a Service Code, be sure to record your entry in the "New" column.

Entries can be digits 0-9, # and *. Be sure any changes do not conflict with other service codes. For example, setting an option in this program to * will affect the default entry for the Forced Trunk Disconnect service code, *3 (Program 11-10-26).

Input Data

Item No.	Item	Default	New	Related Program
01	Step Call	#		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	7		11-12-03
05	Camp-On	2		11-12-04
06	DND/Call Forward Override	No Setting		11-12-01
07	Message Waiting	0		11-11-09
08	Voice Over	6		11-12-41
09	Access to Voice Mail	8		11-12-51
10	STG All Ring Mode	No Setting		16-01-05, 11-12-09
11	Personal Park	No Setting		11-12-35

Conditions

None

Program 11 : System Numbering
11-16 : Single Digit Service Code Setup

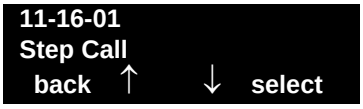
Feature Cross Reference

Refer to chart above.

Terminal Programming Instructions

To enter data for Program 11-16 (Single Digit Service Code Setup):

1. Enter the programming mode.
2. 11 16



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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., 600) for the master number. If you want to use an extension number which, by default, has a port number assigned (for example: in the 301-499, 5000-5312), first remove the default assignment. For example, to use extension number 325 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 8 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

Terminal Programming Instructions

To enter data for Program 11-17 (ACD Group Pilot Number):

1. Enter the programming mode.
2. 11 17

3. Enter the number of the item you want to program.

4. Enter the ACD group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 11-19 : Remote Conference Pilot Number Setup** to assign the pilot number to be used for the Remote Conference. This is the number that outside parties will call in order to connect to a conference.

Input Data

Conference Group Number	1-4

Item No.	Remote Conference Group Pilot Number	Related Program
01	Dial (Up to 8 digits)	20-13-46 20-34

Default

No Remote Conference Pilot Numbers assigned to any Conference Group (1-4).

Conditions

None

Feature Cross Reference

- Conference, Remote

Terminal Programming Instructions

To enter data for Program 11-19 (Remote Conference Group Pilot Number):

1. Enter the programming mode.
2. 11 19

3. Enter the number of the item you want to program.

4. Enter the Conference group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 12 : Night Mode Setup
12-01 : Night Mode Function Setup

Level:	Feature Availability
IN	• Available.

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 Service Enable	0-off 1-on	1	Allows/prevents users from activating Night Service by dialing a service code.	11-10-01
02	Automatic Night Service	0-off 1-on	0	According to a preset schedule, enable or disable Automatic Night Service for the UX5000.	12-02 12-03 12-04
03	Night Mode Switch Operating Mode (Sensor switch on CPU only)	0-disable 1-8 (operation mode)	0	Use this option to set the operation mode of the CPU Night Service mode switch sensors (external Night Mode Selector Switch). The Night Service mode affects trunk inbound and out-bound routing. Note: Function keys 1-8 can be used to select the input data 0-Mode 7, but to select Mode 8, the digit '8' on the dial pad must be pressed instead.	
04	General Purpose Contact Detector	0=Not Used 1-1=Detector Number	0	Set the detection circuit of the general purpose relay of the 2PGDAD when switching night mode (Program 10-41).	10-41

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

Conditions

None

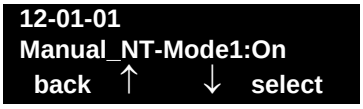
Feature Cross Reference

- Night Service

Terminal Programming Instructions

To enter data for Program 12-01 (Night Mode Function Setup):

1. Enter the programming mode.
2. 12 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 12 : Night Mode Setup
12-02 : Automatic Night Service Patterns

Level:	Feature Availability
SA	• Available.

Description

Use **Program 12-02 : Automatic Night Service Patterns** to define the daily pattern of the auto night switch setting. Each Night 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 (midnight)	Mode 1 (day)	Mode 4 (rest)	Mode 1 (day)	Mode 4 (rest)	Mode 2 (night)	Mode 3 (midnight)	

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

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

Time Pattern 2

0:00	0:00
Mode 2 (night)	

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

Default

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

Time Pattern 1

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

Time Pattern 2

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

Time Pattern 3

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

Conditions

None

Feature Cross Reference

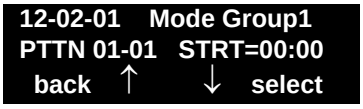
- Night Service

Program 12 : Night Mode Setup
12-02 : Automatic Night Service Patterns

Terminal Programming Instructions

To enter data for Program 12-02 (Automatic Night Service Patterns):

1. Enter the programming mode.
2. 12 02



3. Enter the number of the item you want to program.

4. Enter the Night Mode Service Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

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

Input Data

Night Mode Service Group Number	01-32

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

Default

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

Conditions

None

Program 12 : Night Mode Setup
12-03 : Weekly Night Service Switching

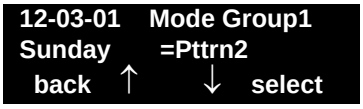
Feature Cross Reference

- Night Service

Terminal Programming Instructions

To enter data for Program 12-03 (Weekly Night Serv ice Switching):

1. Enter the programming mode.
2. 12 03



3. Enter the number of the item you want to program.

4. Enter the Night Mode Service Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

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

Input Data

Night Mode Service Group Number	01-32

Item No.	Days and Months	Time Pattern Number
01	0101 ~ 1231 (ex: 0101 = Jan. 1, 1231 = Dec. 31)	0-10 (0 = no setting)

Default

No setting

Conditions

None

Feature Cross Reference

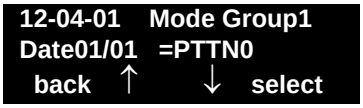
- Night Service

Program 12 : Night Mode Setup
12-04 : Holiday Night Service Switching

Terminal Programming Instructions

To enter data for Program 12-04 (Holiday Night Service Switching):

1. Enter the programming mode.
2. 12 04



3. Enter the number of the item you want to program.

4. Enter the Night Mode Service Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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	Max. 8 Digits

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

Conditions

None

Feature Cross Reference

- Night Service

Terminal Programming Instructions

To enter data for Program 12-05 (Night Mode Group Assignment for Extensions):

1. Enter the programming mode.
2. 12 05

   ```
   12-05-01    TEL301
   Night Mode Group    1
    back  ↑     ↓  select
   ```

3. Enter the number of the item you want to program.

   ```
   12-05-nn    TEL301
   nnnnn
     ←     –     +     →
   ```

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 12 : Night Mode Setup
12-06 : Night Mode Group Assignment for Trunks

Level:	Feature Availability
IN	• Available.

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	1-200

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

Conditions

None

Feature Cross Reference

- Night Service

Terminal Programming Instructions

To enter data for Program 12-06 (Night Mode Group Assignment for Trunks):

1. Enter the programming mode.
2. 12 06

3. Enter the number of the item you want to program.

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 12-07 : Text Data for Night Mode** to make an original text message which is displayed on an LCD of keyset terminal in each Night 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 = <Mid-night>
Mode 4 = <Rest>
Mode 5 = <Day2>
Mode 6 = <Night2>
Mode 7 = <Midnight2>
Mode 8 = <Rest2>

Conditions

None

Feature Cross Reference

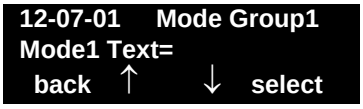
- Night Service

Program 12 : Night Mode Setup
12-07 : Text Data for Night Mode

Terminal Programming Instructions

To enter data for Program 12-07 (Text Data for Night Mode):

1. Enter the programming mode.
2. 12 07

3. Enter the number of the item you want to program.

4. Enter the Night Mode Service Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 12-08 : Night Mode Service Range** to set the number of modes a user will toggle through when using the Night Mode Programmable Function Key to toggle night modes.

The UX5000 provides 8 day/nights modes.

Input Data

Night Mode Service Group Number	01-32

Item No.	Item	Input Data	Default	Related Program
01	**Night Mode Service Range** For each night mode group, determine how many night modes a user will toggle through when the Night Mode key is pressed.	2-8	2	15-07-01

Default

Users will toggle through 2 Night Modes.

Conditions

The Programmable Function key (PGM 15-07-01 or SC 851: 09) must have the additional data defined as “0” for the toggle function to work.

Feature Cross Reference

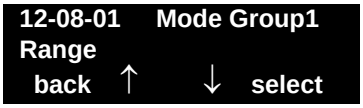
- Night Service

Program 12 : Night Mode Setup
12-08 : Night Mode Service Range

Terminal Programming Instructions

To enter data for Program 12-08 (Night Mode Service Range):

1. Enter the programming mode.
2. 12 08



3. Enter the number of the item you want to program.

4. Enter the Night Mode Service Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 13 : Abbreviated Dialing
13-01 : Abbreviated Dialing Function Setup

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Item No.	Item	Input Data	Default	Related Program
01	Abbreviated Dialing Auto Outgoing Call Mode	0 = Trunk outgoing mode 1 = Extension outgoing mode	0	13-05
02	Not Used			
03	Number of Common Abbreviated Dialing Bins	0-2000 0 = No Common Abbreviated Dialing 100 bins per 1 unit	1000	13-04

Conditions

None

Feature Cross Reference

- Abbreviated Dialing

Terminal Programming Instructions

To enter data for Program 13-01 (Abbreviated Dialing Function Setup):

1. Enter the programming mode.
2. 13 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-02 : Group Abbreviated Dialing Bins

Level:	Feature Availability
IN	• Available.

Description

Use **Program 13-02 : Group Abbreviated Dialing Bins** to define the range of bin numbers to be used by each Abbreviated Dialing group (refer to Program 13-03).

Input Data

Item No.	Abbreviated Dialing Group Number	Start Address of Abbreviated Dialing Bin	End Address of Abbreviated Dialing Bin
01	01-64	0-1990	0, 9 - 1999

Default

No setting

Conditions

None

Feature Cross Reference

- Abbreviated Dialing

Terminal Programming Instructions

To enter data for Program 13-02 (Group Abbreviated Dialing Bins):

1. Enter the programming mode.
2. 13 02

3. Enter the number of the item you want to program.

4. Enter the Abbreviated Dialing group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-03 : Abbreviated Dialing Group Assignment for Extensions

Level:	Feature Availability
IN	• Available - 64 Abbreviated Dialing Groups.

Description

Use **Program 13-03 : Abbreviated Dialing Group Assignment for Extensions** to assign Abbreviated Dialing Group for each extension.

Input Data

Extension Number	Up to 8 digits

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

Conditions

None

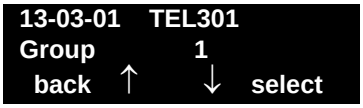
Feature Cross Reference

- Abbreviated Dialing

Terminal Programming Instructions

To enter data for Program 13-03 (Abbreviated Dialing Group Assignment for Extensions):

1. Enter the programming mode.
2. 13 03



3. Enter the number of the item you want to program.

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-04 : Abbreviated Dialing Number and Name

Level:
SB

Feature Availability
• Available.

Description

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

Input Data

Abbreviated Dialing Bin Number	0-1999

Item No.	Item	Input Data	Default	Related Program
01	Abbreviated Dialing Data	1-9, 0, *, #, **P**ause (Press line key 1), **R**ecall/Flash (Press line key 2), @ for Additional Digit for ISDN Functionality (Press line key 3) (max. 24 digits)	No Setting	
02	Name	Max. 12 Characters	No Setting	
03	Transfer Mode	0 = Not defined 1 = Internal dial 2 = Incoming Ring Group (IRG)	0	
04	Destination Number	**If the Transfer mode is;** 1 (Internal Dial Mode) = 1-9, 0, *, #, P, R, @ (Max 24 Characters) **If the Transfer mode is;** 2:IRG 0-100 (IRG Number)	No Setting	
05	**Incoming Ring Pattern** The definition of the tone pattern is the same as Program 22-03.	Incoming Ring Pattern (0-9) 0 = normal pattern 1-4 = tone pattern(1-4) 5-9 = scale pattern(1-5)	0	14-01-27 15-08-01 22-03
06	**-Not Used -**	-	-	-

Conditions

None

Feature Cross Reference

- Abbreviated Dialing

Terminal Programming Instructions

To enter data for Program 13-04 (Abbreviated Dialing Number and Name):

1. Enter the programming mode.
2. 13 04

3. Enter the number of the item you want to program.

4. Enter the Abbreviated Dialing group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-05 : Abbreviated Dialing Trunk Group

Level:	Feature Availability
SB	• Available.

Description

Use **Program 13-05 : Abbreviated Dialing Trunk Group** to define the trunk group to be seized for each Abbreviated Dialing number (refer to Program 13-01).

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 only available in External Abbreviated Dialing Mode (Program 13-01-01).

Input Data

Abbreviated Dialing Bin Number	0-1999

Item No.	Trunk Group Number
01	0-100

Default

No Setting

Conditions

None

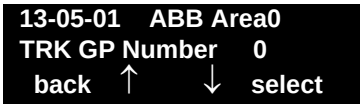
Feature Cross Reference

- Abbreviated Dialing

Terminal Programming Instructions

To enter data for Program 13-05 (Abbreviated Dialing Trunk Group):

1. Enter the programming mode.
2. 13 05



3. Enter the number of the item you want to program.

4. Enter the Abbreviated Dialing Area number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-07 : Telephone Book Number and Name

Level:	Feature Availability
IN	• Available.

Description

Use **Program 13-07 : Telephone Book Number and Name** to define the Telephone Books.

Input Data

Telephone Books	1-100

Memory Number	0-299

Item No.	Item	Entries	Default
01	**Dial Data** Use this program to store the dialing data for each Telephone Book. Up to 300 entries can be made in each Telephone Book.	Telephone Books: 1-100, Memory Number: 0-299	No Setting
02	**Name** Use this program to store a name to a memory number assigned in each Telephone Book. A maximum of 12 characters is allowed (permitted entries: 1-9, 0, *, #, P,R,@). Up to 300 entries can be made in each Telephone Book.	Telephone Books: 1-100, Memory Number: 0-299	No Setting
03	**- Not Used -**	1-20	1
04	**Group Number** Use this program to assign each Telephone Book to a group number.	1-20	1

Conditions

None

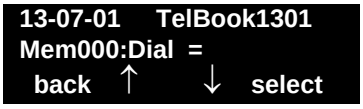
Feature Cross Reference

- Central Telephone Book

Terminal Programming Instructions

To enter data for Program 13-07 (Telephone Book Number and Name):

1. Enter the programming mode.
2. 13 07

3. Enter the number of the item you want to program.

4. Enter the Telephone Book number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-08 : Telephone Book System Name

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Telephone Books	1-100

Item No.	Item	Entries	Default
01	**Name** Define the name of the Telephone Book.	6 characters	No Entry

Conditions

None

Feature Cross Reference

- Central Telephone Book

Terminal Programming Instructions

To enter data for Program 13-08 (Telephone Book Name):

1. Enter the programming mode.
2. 13 08

3. Enter the number of the item you want to program.

4. Enter the Telephone Book number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-09 : Telephone Book Group Name

Level:	Feature Availability
IN	• Available.

Description

Use **Program 13-09 : Telephone Book Group Name** to define the name for the Telephone book Group.

Input Data

Telephone Books	1-100

Group Number	1-20

Item No.	Item	Entries	Default
01	**Group Name** Use this program to define the name of the Telephone Book group.	alphanumeric characters	01 = Group 01 02 = Group 02 : 20 = Group 20

Conditions

None

Feature Cross Reference

- Central Telephone Book

Terminal Programming Instructions

To enter data for Program 13-09 (Telephone Book Group Name):

1. Enter the programming mode.
2. 13 09

   13-09-01 TelBook1301
   Group01 = Group 01
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   13-09-nn TelBook1301
   Groupnn - nnnnnnnn
   ← – + →

4. Enter the Telephone Book number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 13 : Abbreviated Dialing
13-10 : Telephone Book Routing

Level:	Feature Availability
IN	• Available.

Description

Use **Program 13-10 : Telephone Book Routing** to define the routing for the Telephone book Group.

Input Data

Telephone Books	1-100

Item No.	Item	Entries	Default
01	**Routing** This program defines the dial routing of the Telephone Book group. When an outside call is placed, the UX5000 follows Program 14-06-01.	Telephone Books: 1-100, Outgoing Mode: 0 = External Outgoing, 1 = Internal Outgoing	0

Conditions

None

Feature Cross Reference

- Central Telephone Book

Terminal Programming Instructions

To enter data for Program 13-10 (Telephone Book Routing):

1. Enter the programming mode.
2. 13 10

3. Enter the number of the item you want to program.

4. Enter the Telephone Book number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-01 : Basic Trunk Data Setup

Level:
IN

Feature Availability
• Available.
• Item 33 requires software 2.0+.
• Item 35 requires software 2.g0+.

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	1-200

Item No.	Item	Input Data	Default	Related Program
01	**Trunk Name** Set the names for trunks. The trunk name displays at display keysets for incoming and outgoing calls.	Up to 12 characters	1 = Line 001 | Line 200 = Line 200	
02	**Transmit Codec Gain Type** Use this option to select the codec gain for the trunk. The option sets the amount of gain (signal amplification) for the trunk you are programming.	1~63 (-15.5 ~ +15.5dB in .5dB intervals)	32 (0dB)	
03	**Receive Codec Gain Type** Use this option to select the codec gain for the trunk. The option sets the amount of gain (signal amplification) for the trunk you are programming.	1~63 (-15.5 ~ +15.5dB in .5dB intervals)	32 (0dB)	
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 (-15.5 ~ +15.5dB in .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 or Remote Conference.	1~63 (-15.5 ~ +15.5dB in .5dB intervals)	16 (-8dB)	

Item No.	Item	Input Data	Default	Related Program
06	**SMDR Print Out** Use this option to have the UX5000 include/exclude the trunk you are programming from the SMDR printout. See Program 35-01 and 35-02 for SMDR printout options.	0 = No print out 1 = Prints out	0	
07	**Outgoing Calls** Use this option to allow/prevent outgoing calls on the trunk you are programming.	0 = Prevented 1 = Allowed	1	
08	**Toll Restriction** Use this option to enable/disable Toll Restriction for the trunk. If enabled, the trunk follows Toll Restriction programming (ex: Programs 21-05, 21-06). If disabled, the trunk is a toll free line.	0 = Restriction disable 1 = Restriction enable	1	21-04 21-05 21-06
09	**Private Line** Use this option to enable/disable a trunk's ability to be used as a Private Line.	0 = Disable 1 = Enable	0	
10	**DTMF Tones for Outgoing Calls** Use this option to enable (1) or disable (0) DTMF tones for outgoing trunk calls.	0 = Disable 1 = Enable	0	
11	**Account Code Required** Use this option to enable (1) or disable (0) Forced Account Codes.	0 = Disable 1 = Enable	1	
12	**- Not Used -**		1	
13	**Trunk-to-Trunk Transfer/Loop Disconnect Supervision** Use this option to enable (1) or disable (0) trunk-to-trunk transfer with loop supervision for the trunk. This option is required for Call Forwarding Off-Premise and Tandem Trunking (including 2 B-Channel Transfer with PRI) only.	0 = Disable 1 = Enable	1	
14	**Long Conversation Cutoff** Use this option to enable or disable the Long Conversation Cutoff feature for each trunk.	0 = Disable 1 = Enable	0	20-21-03 20-21-04
15	**Long Conversation Alarm Before Cut Off** Use this option to enable or disable the Long Conversation Alarm for each trunk.	0 = Disable 1 = Enable	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 UX5000 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 1 = Enable	0	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 1 = Enable	0	
18	**Warning Tone For Incoming Calls** This option can be used to enable the Warning Tone for Long Conversations for incoming calls only.	0 = Disable 1 = Enable	0	20-18-09
19	**Privacy Mode Toggle Option** Use this option to enable or disable a trunk's ability to be switched from private to non-private mode by pressing the line key or Privacy Release function key.	0 = Disable 1 = Enable	0	
20	**Block Outgoing Caller ID** Allow (1) or prevent (0) the UX5000 from automatically blocking outgoing Caller ID information when a user places a call. If allowed (i.e. block, enabled), the UX5000 automatically inserts the Caller ID block code *67 (defined in 14-01-21) before the user dialed digits.	0 = Allow 1 = Block	0	
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 8 digits)	*67	
22	**Caller ID to Voice Mail** Enable or disable the UX5000's ability to send the Caller ID digits (Remote Log-On Protocol) to voice mail.	0 = Disable 1 = Enable	0	
23	**LCR - *Not Used in U.S.***		0	

Item No.	Item	Input Data	Default	Related Program
24	**Trunk-to-Trunk Outgoing Caller ID Through Mode** Enable or disable the Trunk-to-Trunk Outgoing Caller ID Through Mode. This option allows Caller ID from the original outside caller to be displayed when a trunk is forwarded off premise. This option can only be used with PRI and SIP trunks.	0 = Disable 1 = Enable	0	
25	**Continue/Disconnect Trunk-to-Trunk Conversation** When Program 24-02-10 is set to disconnect a trunk after the defined time, determine whether or not a user should have the ability to use the continue/disconnect code.	0 = Disable 1 = Enable	0	24-02-10
26	**Automatic Trunk to Trunk Transfer Mode** For each trunk, enable (1) or disable (0) the Step Transfer function when using the Automatic Trunk-to-Trunk Transfer feature. If this option is disabled, the call will be forwarded to the first specified destination only.	0 = Disable 1 = Enable	0	24-04-01
27	**Caller ID Refuse Setup** This program defines if the UX5000 rejects a trunk call and plays a VRS message based on the Caller ID information received. This option is set on a per trunk basis.	0 = Does not reject the call 1 = Rejects the call	0	
28	**-- Not Used --**			
29	**-- Not Used --**			
30	**Flexible Ringing by Caller ID** This option can be used to block the Flexible Ringing by Caller ID feature on a per trunk basis. Setting this option to "1" enables the feature for the trunk, while "0" disables the feature.	0 = Disable 1 = Enable	1	14-01-27 22-18
31	**-- Not Used --**	0 = Disable 1 = Enable	0	13-04 20-09-10

Program 14 : Trunk, Basic Setup
14-01 : Basic Trunk Data Setup

Item No.	Item	Input Data	Default	Related Program
32	**Anti-Trombone** With networked H.323 trunks, enable or disable the UX5000's ability to release the external H.323 trunks when a call is placed across the network to an extension which is forwarded back to the originating UX5000. If enabled, in this situtation, the call is changed from an external trunk call to an internal call and the H.323 trunks are released for other calls.	0 = Disable 1 = Enable	0	
33	**APSU Receive Gain** If needed, adjust the separate receive gain control trunks answered by the UX Mail.	1-63 (-15.5 ~ +15.5dB)	32	
35	**IP Terminal MW LED Illumination for Incoming Trunk Call** For each trunk (001-200) select the color to be used when an incoming call trunk is received (1-9). This applies to incoming trunk calls and forwarded trunk calls (Call Forward: All, Busy, No Answer, Busy/No Answer, Both Ring, Follow Me). Trunk calls via AspireNet do not follow this setting. The LED for this type of call will be red.	1 = Do Not Use 2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Sky Blue 8 = White 9 = Rotation	2	15-05-37 15-23-01

Default

Trunk Port Number	Name
001	LINE 001
002	LINE 002
:	:
200	LINE 200

Conditions

None

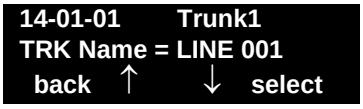
Feature Cross Reference

Refer to features in above chart.

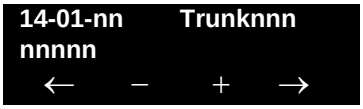
Terminal Programming Instructions

To enter data for Program 14-01 (Basic Trunk Data Setup):

1. Enter the programming mode.
2. 14 01



3. Enter the number of the item you want to program.



4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-02 : Analog Trunk Data Setup

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Trunk Port Number	1-200

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' in order for the trunks to ring and lamp correctly.	0 = Normal/delayed 1 = Immediate ringing	0	
03	**Flash Types** This option to select the flash type (open loop flash or ground). Always set this option for open loop flash.	0 = Open Loop Flash 1 = Ground	0	
04	**Flash For Timed Flash or Disconnect** 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	0	81-01-14 81-01-15
05	**Dial Tone Detection for Directly Accessed Trunks** Use this option to enable/disable dial tone detection for directly accessed trunks. If disabled, the UX5000 outdials on the trunks without monitoring for dial tone. ***If there are no DSP resources, this program will be ignored.***	0 = Dial Tone Detection not used 1 = Dial Tone Detection used	0	21-01-04
06	**Pause at 1st Digit After Line Seize in Manual Dial Mode** Use this option to enable/disable a pause before the UX5000 outdials a manually dialed call on the trunk. If enabled, the UX5000 will wait before outdialing the dialed digits. If disabled, the UX5000 outdials the digits as the user dials them. Set the pause interval timer in Program 21-01-06.	0 = No Pause 1 = Pause	1	21-01-06

Item No.	Item	Input Data	Default	Related Program
07	**DP to DTMF Conversion Options** Determine how a user can convert a Dial Pulse (DP) call to a DTMF call. For each trunk, set the type of DP to DTMF conversion required. There are three conversion options: Automatic (0), Automatic and Manual (1), or Manual (2). **Automatic:** DP to DTMF conversion occurs automatically if the extension user waits more than 10 seconds before dialing the next digit. **Automatic and Manual:** DP to DTMF conversion occurs automatically if the extension user waits more than 10 seconds before dialing the next digit. In addition, the user can dial # to switch a DP trunk to DTMF dialing. **Manual:** User 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** Determine the detection of the other party's response for an outside line.	0 = Polarity reversing 1 = Polarity reversing or timer	1	21-01-03
09	**Busy Tone Detection** If this option is enabled (1) for a trunk, if there is no DSP resource available, the Multiple Trunk Conference cannot be completed.	0 = disable 1 = enable	0	
10	**Caller ID** Enable or disable a trunk's ability to receive Caller ID information.	0 = disable 1 = enable	0	
11	**Next Trunk in Rotary if No Dial Tone** Use this option to enable/disable the UX5000's ability to skip over a trunk if dial tone is not detected. This option pertains to calls placed using Loop Keys, Speed Dial, ARS, Last Number Redial or Save Number dialed. It does not pertain to line key or Direct Trunk Access calls. ***If there are no DSP resources, this program will be ignored.***	0 = disable 1 = enable	0	
12	**Detect Network Disconnect Signal** **- Not Used in U.S. -**	0 = disable 1 = enable	1	
13	**Trunk-to-Trunk Limitation** **- Not Used in U.S. -**	0 = disable 1 = enable	0	
14	**Loop Start/Ground Start**	0 = Loop Start 1 = Ground Start	0	

Item No.	Item	Input Data	Default	Related Program
16	**Caller ID Type** ***- Not Used in U.S. -*** Select the type of Caller ID signal from an analog trunk - FSK or DTMF.	0 = FSK 1 = DTMF	0	15-03-11
17	**Synchronous Ringing** Enable or disable the Synchronous Ringing feature.	0 = Disable 1 = Enable	0	
18	**Busy Tone Detection on Talking** Enable or disable if busy tone is detected when a DIL or DID/DISA is received.	0 = Disable 1 = Enable	0	
19	**Busy Tone Detection Frequency** Set the detection frequency of a busy tone when Program 14-02-18 is set to “1”.	1-255	1	14-02-18
20	**Busy Tone Detection Interval** Set the detection interval of a busy tone when Program 14-02-18 is set to “1”. The UX5000 detection for busy tone is continuous during this timer.	0-64800(x100ms)	0	14-02-18

Conditions

None

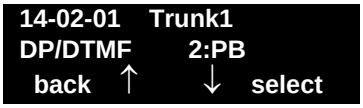
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 14-02 (Analog Trunk Data Setup):

1. Enter the programming mode.
2. 14 02



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-04 : Behind PBX Setup

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Trunk Port Number	1-200

Item No.	Day/Night Mode	Type of Connection	Default	Related Program
01	1-8	0 = Stand alone 1 = Behind PBX	0	22-02

Conditions

None

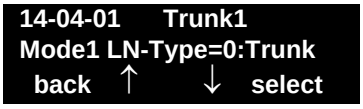
Feature Cross Reference

- Central Office Calls, Placing

Terminal Programming Instructions

To enter data for Program 14-04 (Behind PBX Setup):

1. Enter the programming mode.
2. 14 04



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-05 : Trunk Group

Level:	Feature Availability
IN	• Available.

Description

Use **Program 14-05 : Trunk Groups** 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	1-200

Item No.	Trunk Group Number	Order Number
01	0-100	1-200

Default

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

Conditions

None

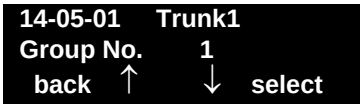
Feature Cross Reference

- Trunk Groups

Terminal Programming Instructions

To enter data for Program 14-05 (Trunk Group):

1. Enter the programming mode.
2. 14 05



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-06 : Trunk Group Routing

Level:	Feature Availability
IN	• Available - 100 Trunk Group Numbers.

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 UX5000 routes their calls in the order (priority) you specify. For example, if a user dials 9 and all calls in the first group are busy, the UX5000 may route the call to another group. Trunk Access Map programming (Programs 14-07) may limit this option. The UX5000 contains 100 routing tables for trunk access. Each table has four priority orders for trunk access.

Example for setting:

With less than 4 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 UX5000 searches for an idle line in trunk group 2.

With more than 4 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 group 1, 2 and 3 are busy, the UX5000 searches for an idle line in trunk group 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 001-100 : (Trunk Group Number) 101-150 : (100 + Network System 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

Terminal Programming Instructions

To enter data for Program 14-06 (Trunk Group Routing):

1. Enter the programming mode.
2. 14 06

3. Enter the number of the item you want to program.

4. Enter the Trunk Group Routing Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-07 : Trunk Access Map Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 14-07 : Trunk Access Map Setup** to set up the Trunk Access Maps. This sets an extension's 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.

Input Data

Access Map Number	001-200

Item No.	Trunk Port Number	Input Data
01	1-200	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 Map 1 = Trunk Ports 1-200 assigned with option '7' access (incoming and outgoing access and access when trunk is on Hold).
- Access Maps 2-200 - Trunk Ports 1-200 assigned with option '0' access (no access).

Conditions

None

Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 14-07 (Trunk Access Map Setup):

1. Enter the programming mode.
2. 14 07

   14-07-01 Access Map1
   TRK_ 001=7:OTG/INC/Hold
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   14-07-nn Access Mapnnn
   nnnnn
   ← – + →

4. Enter the Access Map number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-08 : Music on Hold Source for Trunks

Level:	Feature Availability
IN	• Available.

Description

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

Note: 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	1-200

Item No.	Item	Input Data	Default
01	**MOH Type** Select a trunk's Music on Hold source.	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

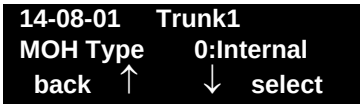
Feature Cross Reference

- Music on Hold

Terminal Programming Instructions

To enter data for Program 14-08 (Music on Hold Source for Trunks):

1. Enter the programming mode.
2. 14 08



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup
14-09 : ACI Conversation Recording Destination for Trunks

Level:	Feature Availability
IN	• Available.

Description

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

Note: If both Programs 14-09 and 15-12 define a destination, the destination in Program 15-12 will be followed.

Input Data

Trunk Port Number	1-200

Item No.	Item	Input Data	Default
01	**ACI Recording Destination Extension Number** Enter the ACI's extension number to which the trunk calls should be recorded.	Max. 8 digits	No setting
02	**ACI Automatic Recording for Incoming Calls** Determine if a trunk's incoming calls should be automatically recorded to the ACI.	0 = off 1 = on	0
03	**Recording Contents Storing Method (DSPDB)** **- Not Used in U.S. -**	0 = specifies by dialing 1 = own mailbox	0
04	**ACI Automatic Recording for Outgoing Call** Determine if a trunk's outgoing calls should be automatically recorded to the ACI.	0 = off 1 = on	0

Conditions

None

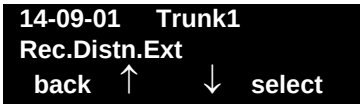
Feature Cross Reference

- Analog Communications Interface (ACI)

Terminal Programming Instructions

To enter data for Program 14-09 (ACI Conversation Recording Destination for Trunks):

1. Enter the programming mode.
2. 14 09



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 14 : Trunk, Basic Setup

14-10 : Power Failure Terminal for Trunks

Level:	Feature Availability
IN	• Not Available in U:S.

Description

This program is not used in U.S. software.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 14-11 : ID Setup for IP Trunk** to set the H.323 IP trunk ID. This option is for H.323 trunks only - it is not used for SIP trunks.

Input Data

Trunk Port Number	1-200

Item No.	Item	Input Data	Default	Related Program
01	**IP Setup for IP Trunk** Set the ID for each H.323 IP trunk in each networked system. This data is referred to for incoming and outgoing IP trunks. Incoming calls arrive to the trunk port of the same ID as the ID notified from the partner system. For example, trunk 5 in Site A is assigned ID 2 and trunk 7 in Site B is assigned ID 2. A call is placed from Site A (on trunk 5) to Site B. The call will come into Site B on trunk 7 because it has the same ID number as the incoming call (ID 2).	0 = not notified, 1-65535	0	

Conditions

None

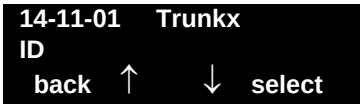
Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 14-11 (ID Setup for IP Trunk):

1. Enter the programming mode.
2. 14 11



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 14-12 : SIP Register ID Setup for IP Trunk** to set the Register ID options for SIP trunks.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Register ID** This program sets the SIP Register ID for each trunk. If both 14-12 and 15-16 are assigned, then the UX5000 uses the data in Program 15-16. Register ID 0 is associated with Program 10-28 and 10-29 data. Other registered IDs (1-31) are associated with Program 10-36 data.	0-31	0	10-28 10-29 10-36 14-12 15-16
02	**Pilot Register ID** This program sets the SIP Pilot Register ID for each trunk. If both 14-12 and 15-16 are assigned, then the UX5000 uses the data in Program 15-16.	0-31	0	14-12 15-16

Conditions

None

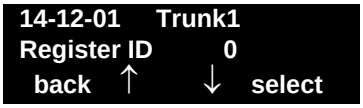
Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 14-12 (SIP Register ID Setup for IP Trunk):

1. Enter the programming mode.
2. 14 12



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

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

Note: The item numbers indicated below are different when using PCPro/WebPro. Refer to the program within the PCPro/WebPro application to determine the correct item number.

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Input Data	Default	Related Program
01	**Extension Name** Set the extension/virtual extension name. When entering names for use the IntraMail's Directory Dialing, ***do not use non-alpha characters.*** To separate a first name from a last name, enter a space as a delimiter. By default, there are no extension names entered. You can enter names in any of the following formats: • First • Last • First (space) Last • Last (space) First	Up to 12 Characters (A-Z, upper and lower case letters available)	301 = STA 301 302 = STA 302 | 499 = STA 499 5000 = STA 5000 | 5312 = STA 5312	
02	**Outgoing Trunk Line Preference** Use this option to set the extension's outgoing Trunk Line Preference. If enabled, the extension user get 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 you are programming in the SMDR report.	0 = Do not print on SMDR report 1 = Include on SMDR report	1	

04	**ISDN Caller ID** If both Program 15-01-04 and 10-03-05 are enabled, the UX5000 includes Caller ID in the Setup message as “Presentation Allowed”. If these options are disabled, it will be “Presentation Restricted”.	0 = Disable 1 = Enable	1	10-03-05
05	**Restriction for Outgoing Disable on Incoming Line** Enable or disable supervised dial detection for an extension.	0 = Disable 1 = Enable	0	21-01-15 21-01-16 21-01-17 80-03-01
06	**- Not Used -**	-	-	
07	**- Not Used -**	-	-	
08	**Busy Call Attendant Message for Extension** For each extension set the message number to be played for the Call Attendant feature when the extension is busy. When this option is used, Program 40-10-08 must be set to "0" (system-wide option).	0 = No Message 001-100 = VRS Messages 001 - 100	0	11-11-59 40-10-08
09	**No Answer Call Attendant Message for Station** For each extension set the message number to be played for the Call Attendant feature when the extension does not answer. When this option is used, Program 40-10-09 must be set to "0" (system-wide option).	0 = No Message 001-100 = VRS Messages 001 - 100	0	11-11-60 40-10-09

Conditions

None

Feature Cross Reference

Refer to chart above.

Terminal Programming Instructions

To enter data for Program 15-01 (Basic Extension Data Setup):

1. Enter the programming mode.
2. 15 01

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-02 : Multi-Line Terminal Basic Setup

Level:
IN

Feature Availability
• Available.
• Item 51, 52 and 54 require software 2.0 or higher.

Description

Use **Program 15-02 : Multi-Line Terminal Basic Setup** to set up various keyset options.

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Input Data	Default	Related Program
01	Display Language Selection *(Use line keys 1-5 to select 00-05. To select options 6-11, press CALL2, then press line keys 1-6. Key 1 is option 6, Key 2 is option 7, etc. To select options 12-14, press CALL2, then press line keys 1-3.)* After entering a 2-digit code (for example: 12), if you wish to reenter a single digit code (for example: 1), you must press the Left Arrow Soft Key in order to move the cursor back one position.	00 = Japanese 01 = English 02 = German 03 = French 04 = Italian 05 = Spanish 06 = Dutch 07 = Portuguese 08 = Norwegian 09 = 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.	1 = High 2 = Mid range 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 82-01
03	**Extension Ring Tone (Pitch)** Use this option to set the tone (pitch) of the incoming extension call ring for the extension port you are programming. Also see program 15-08.	1 = High 2 = Mid range 3 = Low 4 = Ring Tone 1 5 = Ring Tone 2 6 = Ring Tone 3 7 = Ring Tone 4 8 = Ring Tone 5	8	15-08 15-10 82-01

Item No.	Item	Input Data	Default	Related Program
04	**Abbreviated Dialing DIAL Key Control** Use this option to control the function of the extension's DIAL key when used with Abbreviated Dialing. The DIAL key can access either the Common or Group Abbreviated Dialing numbers.	0 = Common and Individual Abbreviated Dialing 1 = Group Abbreviated Dialing	0	
05	**Transfer Key Operation Mode** Use this option to set the operating mode of the extension's 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 = Series call 2 = Flash	0	
06	**Hold Key Operating Mode** Use this option to set the function of the keyset Hold key. The Hold key can activate normal Hold, Exclusive Hold or Park.	0 = Normal Hold 1 = Exclusive Hold 2 = Park	0	
07	**Automatic Hold for CO Lines** Determine whether an extension will use Automatic Hold for CO calls or if the call should disconnect.	0 = Enable (Hold) 1 = Disable (Disconnect)	1	
08	**Automatic Handsfree** Use this option to set whether pressing a key accesses a One-Touch Key or if it pre-selects the key.	0 = Pre-select 1 = One-touch (Automatic Handsfree)	1	20-09-02
09	**Ringing Line Preference for Intercom Calls** Use this option to select between Idle and Ringing Line Preference for Intercom calls.	0 = Idle (off) 1 = Ringing (on)	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	
11	**Callback Automatic Answer** Use this option to enable or disable automatic answer for Callbacks. If enabled, extension automatically answers Callback ring when user lifts the handset. If disabled, use must press line appearance key to answer Callback.	0 = off 1 = on	1	

Item No.	Item	Input Data	Default	Related Program
12	**Off Hook Ringing** Use this option to set the keyset's off hook signaling. Off hook signaling occurs when a keyset user receives a second call while busy on a handset call. DID, DNIS and DIL trunks can use any of the 4 options - normal/ring group trunks can only use options "0" or "1". To enable/disable Off Hook Signaling for an extension's Class of Service, use Program 20-13-06.	0 = Muted Off Hook Ringing 1 = No Off Hook Ringing 2 = Not Used 3 = One Beep in Speaker 4 = One Beep in Handset	0	
13	**Redial List Mode** Select whether the Redial List feature should store internal and external numbers (0), or only external numbers (1).	0 = Extension/Trunk Mode 1 = Trunk Mode	1	
14	**-- Not Used --**		0	
15	**Storage of Caller ID for Answered Call** Select whether an answered call should be included in the Call History Log. If a call ringing multiple extensions is answered by any one of the extensions, the other extensions will not log the call - only the extension which answered the call will log it.	0 = Disable 1 = Enable	1	
16	**Handsfree Operation** Enable or disable an extensions ability to use the speakerphone on **outside** calls. Users can hear the conversation, but cannot respond handsfree.	0 = Disable 1 = Enable	1	
17	**-- Not Used --**			
18	**Power Saving Mode** Enable or disable the power saving mode for the keyset or IP terminal.	0 = Normal mode 1 = Power-saving mode	1	20-02-10
19	**CTA/CTU Data Communication Mode** Select '0' if the dip switch settings on the CTA/CTU 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/SMDR mode	0	15-02-20
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

Item No.	Item	Input Data	Default	Related Program
21	**Virtual Extension Access Mode (when idle Virtual Extension key pressed)** Determine whether an extension's Virtual Extension/Call Coverage Key should be as a DSS key to the extension and for receiving calls (0), for placing and receiving calls (1),or just receiving incoming calls (2). If setting Trunk Toll Restriction Level for a virtual extension, this option must be set to '1' to allow the extension the ability to place outgoing ICM or CO calls.	0 = DSS (Inbound/Outbound) 1 = Outgoing 2 = Ignore Key (Inbound)	2	15-02-30 21-21-01
22	**Multiple Incoming From Intercom and Trunk** If enabled, this affects how a Hotline key lamps, based on the setting in Program 22-01-01. If set to 1 for trunk priority, the Hotline key will lamp solid when a trunk call rings in. If set to 0 for intercom priority, the Hotline key will not lamp for incoming trunk calls, but will lamp solid for intercom calls. If this option is disabled, Hotline keys will lamp solid for any incoming calls regardless of the setting in Program 22-01-01.	0 = Disable 1 = Enable	1	22-01-01
23	**Abbreviated Dialing Preview Mode** When an abbreviated number is dialed, determine whether it should be previewed or dialed immediately.	0 = Preview 1 = Immediately Sent	0	
24	**Conference Key Mode** This option allows an extension's 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, the 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. In order for Cordless II and Cordless Lite II users to use a Flash key, this option must be set to "1" for those extensions.	0 = Conference 1 = Transfer	0	15-02-05

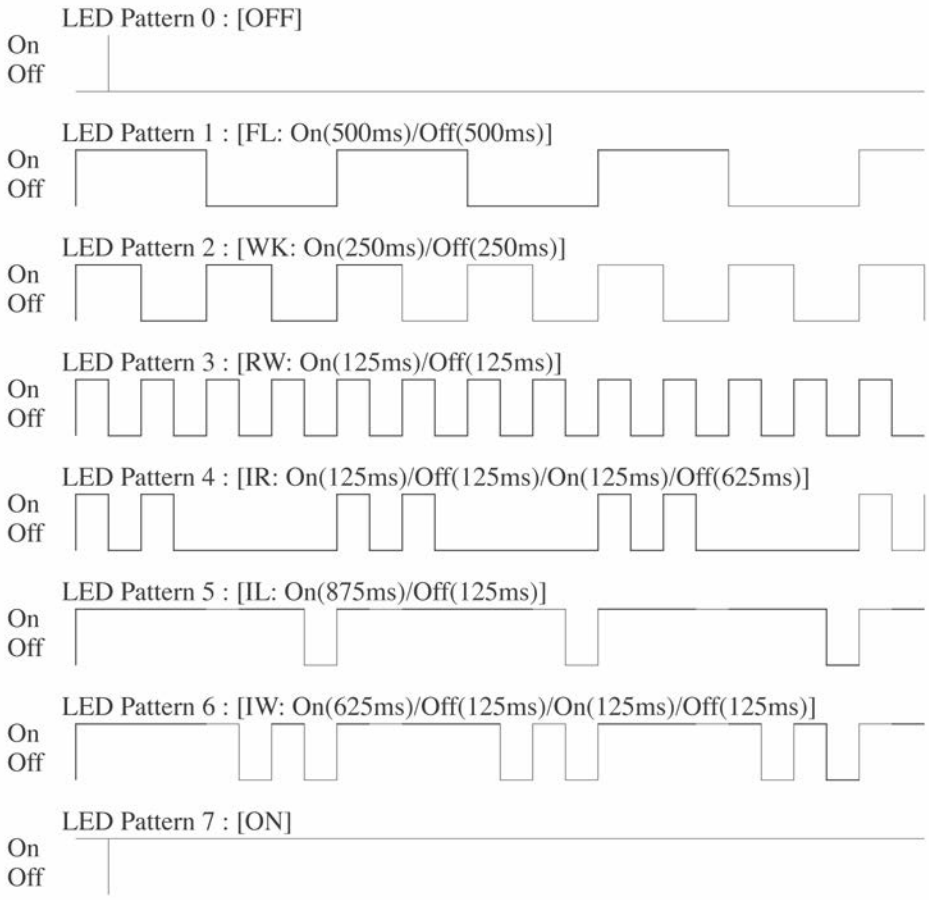
Item No.	Item	Input Data	Default	Related Program
25	**-- Not Used --**	-	-	
26	**MSG Key Operation Mode** Determine whether an extension's MSG key should function as a Message key or Voice Mail key. If set as a Message key, the user will be able to press the key to call the voice mail only when they have new messages.	0 = Message Key 1 = Voice Mail Key	0	
27	**Volume Level Retention** This option determines whether a keyset's handset volume will change back to the UX5000 default (0) or whether it will be retained at the user's setting (1) after hanging up the handset. With software 5.91+, this option will also affect the volume retention for the speakerphone as well.	0 = Revert to Default Volume 1 = Retain User's Setting	1	
28	**Message Waiting LED Color** This option allows you to select whether the Message Wait LED located at the top of the keyset will flash green (0) or red (1) when a Message Wait indication is flashing. By default, this option is set to "1" (red). Note that if this LED is also used for voice mail indications (no Programmable Function Key programmed for voice mail), if there are both voice mail messages and Message Wait indications, the color set for Message Wait will override the color used for voice mail indications (red).	0 = Flashes Green 1 = Flashes Red	1	
29	**ISDN Back Tone** This program option can be used to adjust the PB Back Tone level when calling an ISDN line.	1-63 (-15.5 to +15.5 db in 0.5 dB steps)	32	
30	**Toll Restriction Class -Virtual Extension or Real Extension** Use this program to define which Toll Restriction class which should be followed when placing a call on a virtual/ Multiple Directory Number/Call Coverage key - the keyset's or the virtual extension's.	0 = Virtual Extension Restriction Class 1 = Actual/Physical Extension Restriction Class	1	15-02-21 21-21-01
31	**-- Not Used --**	-	-	-

Item No.	Item	Input Data	Default	Related Program
32	**-- Not Used --**	-	-	
33	**-- Not Used --**	-	-	-
34	**Call History Log Mode** Determine if a user's Call History Log key will indicate missed trunk calls only (0) or both missed extension and trunk calls (1).	0 = Trunk Mode 1 = Extension/Trunk Mode	0	
35	**Message Waiting Lamp Cycle for Calling Extension** This program can select the MW lamp LED cycle when you send a Message Wait to an extension. *Refer to the graphic below for the lamp cycle differences.*	1 = Cycle 1 2 = Cycle 2 3 = Cycle 3 4 = Cycle 4 5 = Cycle 5 6 = Cycle 6 7 = Cycle 7	7	
36	**Message Waiting Lamp Cycle for Called Extension** This program can select the MW lamp LED cycle when you receive a Message Wait indication. *Refer to the graphic below for the lamp cycle differences.*	1 = Cycle 1 2 = Cycle 2 3 = Cycle 3 4 = Cycle 4 5 = Cycle 5 6 = Cycle 6 7 = Cycle 7	3	
38	**Voice Mail Message Waiting Lamp Cycle** This program selects the MW lamp LED cycle when you have new voice mail messages. *Refer to the graphic below for the lamp cycle differences.*	1 = Cycle 1 2 = Cycle 2 3 = Cycle 3 4 = Cycle 4 5 = Cycle 5 6 = Cycle 6 7 = Cycle 7	3	
39	**-- Not Used -**	-	-	
40	- Not Used -	-	-	
41	**Incoming Ring Setup with Headset** ***For UX5000 keyset only:*** When using a headset on a UX5000 keyset, determine if the ringing should be heard through the terminal speaker (0) or the headset (1).	0 = Speaker Normal Ring 1 = Headset Ring	0	11-11-37 11-11-62 15-02-12 15-02-42 20-13-06
42	**Off-Hook Ring Setup with Headset** ***For UX5000 keyset only:*** When using a headset on a UX5000 keyset, determine if the off-hook ringing should be heard through the terminal speaker (0) or the headset (1). When this setting is 0, Program 15-02-12 is followed.	0 = Speaker Off-Hook Ring 1 = Headset Off-Hook Ring	0	11-11-37 11-11-62 15-02-12 15-02-41

Item No.	Item	Input Data	Default	Related Program
43	**Headset Ring Duration** ***For UX5000 keyset only:*** Determine how long a call will ring the headset beofre changing to a key-sest ring.	0 = Not Switched to Speaker Ring 1 = 10 seconds 2 = 20 seconds 3 = 30 seconds 4 = 40 seconds 5 = 50 seconds 6 = 1 minute	0	11-11-62 15-02-41 15-02-42
44	**Reversing Display Indication** ***For UX5000 keyset only:*** For the UX5000 keysets, determine if the display should indicate as black text on a light background (normal) or reversed with light text on a black background (1).	0 = Normal Indication (black character display) 1 = Reversing Indication (white character display)	0	11-11-64
45	**Double Height Character Indication** ***For UX5000 keyset only:*** Determine if the height of a line on the LCD display should be doubled.	0 = Normal Display 1 = Double Height Character Indication of Calendar (Date/Time) Line 2 = Double Height Character Indication of Status/Extension Display Line.	0	11-11-63
46	**Backlight Duration** ***For UX5000 keyset only:*** Determine how long the backlight will be displayed on the UX5000 terminal once the terminal is in an active state.	0 = Always On 1 = 5 Seconds 2 = 10 Seconds 3 = 15 Seconds 4 = 30 Seconds 5 = 60 Seconds	2	
47	**DESI-Less Icon Display** ***For UX5000 keyset only:*** Enable or disable the ability to display icons on a DESI-Less terminal's display or a UX5000 terminal with a ADM option. *This option does not apply to IP-CTS terminals.*	0 = Off 1 = On	0	11-11-17 15-07-01 15-20-01
48	**Short Ring Setup** ***For UX5000 keyset only:*** Enable or disable the ability to use the short ring over the UX5000 terminal.	0 = Disable 1 = Enable	0	80-09-01 80-09-02 80-09-03
49	**Button Kit for Multibutton Keyset** ***For UX5000 keyset only:*** For UX5000 keysets, set the type of button kit used on the terminal.	• 0 = No Setting • 1-2 = Not Used • 3 = Type B with Cursor Key • 4-10 = Not Used • 11 = Type B without Cursor Key (retrofit)	0	90-48-01

Item No.	Item	Input Data	Default	Related Program
51	**Multi-Line Terminal Basic Setup, E911 Alarm** Determine if an E911 alarm should be displayed when from the user's own system (0) or from all systems (1).	0 = From the user's own system 1 = From all systems	1	20-08-16 51-02-01
52	**Voice Mail Message Waiting LED** Determine which lamping option of the Voice Mail Programmable Function key and Message Waiting LED will be used.	• 1 = Light the Voice Mail Programmable Function Key only • 2 = Light the Message Waiting LED only • 3 = Light both the Voice Mail Programmable Function Key and the Message Waiting LED	0	
54	**Menu Mode** Use this option to determine how the Navigation Pad and Menu keys respond when a user changes the state of the terminal while viewing the menu. Selecting "0" (Automatic) will automatically exit the menu display when the terminal changes state from an idle condition. Selecting "1" (Manual) will require that the user presses the "Back" Soft Key in order to exit the display.	0 = Automatic 1 = Manual	0	

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 Modulation 16Hz Modulation 16Hz Modulation
External Incoming Signal Frequency (Pattern 2)	High Middle Low	1100 660 520	1400 760 660	8Hz Modulation 8Hz Modulation 8Hz Modulation
External Incoming Signal Frequency (Pattern 3)	High Middle Low	2000 1400 1100	760 660 540	16Hz Modulation 16Hz Modulation 16Hz Modulation
External Incoming Signal Frequency (Pattern 4)	High Middle Low	2000 1400 1100	760 660 540	8Hz Modulation 8Hz Modulation 8Hz Modulation
Internal Incoming Signal Frequency	High Middle Low	1100 660 520	1400 760 660	8Hz Modulation 8Hz Modulation 8Hz Modulation



Conditions

None

Feature Cross Reference

Refer to above chart.

Terminal Programming Instructions

To enter data for Program 15-02 (Multi-Line Terminal Basic Data Setup):

1. Enter the programming mode.
2. 15 02

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-03 : Single Line Terminal Basic Data Setup

Level:	Feature Availability
IN	• Available.

Description

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

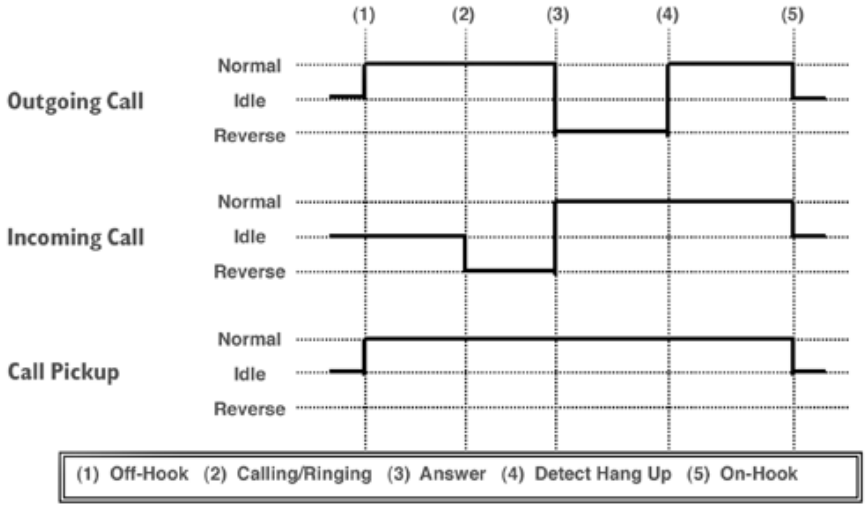
Input Data

Extension Number	Max. 8 digits

Item No.	Item	Input Data	Default	Related Program
01	**SLT Signaling Type** Use this option to tell the UX5000 the type of dialing the connected terminal uses. For each UX5000 Mail extension, this option must be set to "0". In order for the IP DECT terminals 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 UX5000 will not dial any additional digits. This program change is automatically performed when the IP DECT terminal is registered.	0 = DP 1 = DTMF	1	
02	**Loop Current** **- Not Used in U.S. -**	0 = 20mA 1 = 35mA	0	
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	1	
04	**Flashing** Enables/disables Flash for single line (500/2500 type) terminals	0 = Disable 1 = Enable	1	
05	**External Reverse** ***Not Used in U.S. - Do Not Change Default Entry*** as DTMF issues may arise with voice mail.	0 = Disable 1 = Enable	0	
06	**Extension Reverse** ***Not Used in U.S. - Do Not Change Default Entry*** as DTMF issues may arise with voice mail.	0 = Disable 1 = Enable	0	

07	**On Hook When Holding (SLT)** After placing a call on hold, determine if the SLT should be able to place the handset back on hook.	0 = Disable 1 = Enable	1	
08	Answer on hook when holding (SLT)	0 = Disable 1 = 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 phone with Caller ID display. With the Caller ID Sender Queueing feature, set this option to "1" for the extension. *Important:* If voice mail is used, this setting must be disabled or the UX5000 integration codes for disconnect will be incorrect. Note: With some earlier software, if a 2500 set (no Caller ID) is installed, this must be set to "0" or else incoming callers will not have a talkpath.	0 = Disable 1 = Enable	0	
10	**Caller ID Name** Determine if an extension user's terminal should display the Caller ID name.	0 = Disable 1 = Enable	1	14-02-10 20-09-02
11	**Caller ID Type** ***- Not Used in U.S. -*** This option allows you to select either FSK or DTMF as the Caller ID type to be received by a single line terminal.	0 = FSK 1 = DTMF	0	14-02-16
12	**- Not Available -**			
13	**MW Signal Type** For analog single line terminals which provide a display, when a user leaves a Message Waiting for a SLT which has a display, this option is used to determine whether the SLT user will see a MW LED indication or if the Caller ID will be used to display the call.	0 = Lamp Indication (-112 VDC +-3 VDC) 1 = Caller ID Indication (FSK)	0	
14	**Forwarded Caller ID Display Mode** When transferring a CO call to an analog SLT, set this option to "1" if Caller ID from the CO should be displayed on the transferred terminal's display. Selecting "0" will display the transferring extension information.	0 = Calling 1 = Forward	0	
15	**Disconnect Without Dial After Hooking Hold** ***Not Used in U.S. - Do Not Change Default Entry***	-	0	
16	**Special DTMF Protocol Send** For each analog port, enable (1) or disable (0) the ability to send the extension number of the terminal that forwarded to it when not assigned a voice mail port. This setting is ignored if a voice mail department group number is defined in Program 45-01-01.	0=No 1=Yes	0	45-01-16

17	**Dial Tone Select** When an SLT user has received a Message Waiting or Voice Mail message, this option allows the UX5000 to provide an initial stutter dial tone (three beeps then normal dial tone) when the SLT handset is lifted.	0 = Normal Dial Tone 1 = New Dial Tone	0	



Conditions

None

Feature Cross Reference

- Single Line Terminal, Analog
- Single Line Terminal, Digital

Terminal Programming Instructions

To enter data for Program 15-03 (Single Line Terminal Basic Data Setup):

1. Enter the programming mode.
2. 15 03

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-05 : IP Terminal Basic Data Setup

Level:
IN

Feature Availability
• Available.
• Items 35 and 36 require software 2.0+.
• Item 37 requires software 2.g0+.

Description

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

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Input Data	Default	Related Program
01	**Terminal Type for Each Extension Viewing Only - No changes permitted**	**0 = NGT 1 = H.323 2 = SIP 3 = MEGACO 4 = SIP MLT**	**0**	
02	**NGT Fixed Port Assignment** For any Dterm IP terminal, the MAC Address as indicated on the terminal's label to assign a specific extension number. *Use caution when entering in the MAC Address as the UX5000 will allow duplicate entries to be made. If there are two duplicate entries, the lowest matching extension will be assigned to the MAC Address.* **This option does not apply to standard SIP terminals.**	MAC address 00-00-00-00-00-00 to FF-FF-FF-FF-FF-FF	00-00-00-00-00-00	15-05-01
03	**Default URL address** The default URL address for Smart Phone	URL address - 192 Characters Max.	No setting	15-05-01
04	**Nickname** Define the nickname for the IP, H.323/SIP terminal. Each alias address must be unique in the UX5000.	Up to 48 Character Length	No setting	15-05-01
05-11	For viewing only - These items should not be changed.			
05	**H.323 Terminal Type**	**1=Standard H.323 Terminal 2=Net Meeting**	**0**	
06	**NGT Terminal Type**	**1=IP70 2=IP80 3=Smart Phone**	**0**	

Item No.	Item	Input Data	Default	Related Program
07	**Using IP Address**	**0.0.0.0 ~ 255.255.255.255**	**0.0.0.0**	
08	**H.323 RAS Port**	**0-65535**	**0**	
09	**Call Control Port**	**0-65535**	**0**	
10	**NGT Voice Path Port**	**0-65535**	**0**	
11	**Dterm IP Call Procedure Port**	**0-65535**	**0**	**Effective only for NGT and SIP MLT IP terminal, 15-05-01.**
12	**- Not Used -**			
13	**- Not Used -**			
14	**- Not Used -**			
15	**Codec Type** Set the basic CODEC to be used by the terminal. This option is only used when 15-05-01 is set to 0 or 4. UX5000 CODEC is set in 84-11 and 84-24.	1-Type 1 2-Type 2 3-Type 3 4-Type 4 5-Type 5	1	15-05-01 84-11 84-24
16	**Authentication Password** Define the Authentication Password. This option is only used for SIP.	Maximum 24 characters	None	15-05-01
17	**Calling Party Display Information** Set the Calling Party Display Information. Non-SIP terminals only use options 0 and 3. SIP terminals can use settings 0-3. (Nickname used only between Softphone and Application Gateway Server. SIP MLT follows 15-05-04 for nickname.)	0=nickname, 1=display, 2=user part, 3=extension	Nickname	

Item No.	Item	Input Data	Default	Related Program
18	**IP Duplication Allowed in Group** Some SIP equipment allows multiple Register messages to be sent from the same IP address to different extension numbers. This program allows the UX5000 to avoid an IP address conflict. The SIP TA can connect two SLTs to allow those terminals to work as SIP extensions. These extension numbers need to be programmed in the same group in 15-05-18 to use the same IP address. No other extension numbers should be in this same group. Without this program entry, the second Register message from an "already registered" IP address will be ignored. With Abbreviated Dial Share for the IP DECT G955 handset, when several IP DECTs are registered in one DAP, the UX5000 needs to be set with the same group.	0=not used, 1-10=Groups 1-10	0	15-05-01
19	**Side Option Information** Set the side option adapter to be used with an IP terminal.	0=No Option 1=8LK Unit 2=16LK Unit 3=24 ADM	0	10-03-09 15-05-22
20	**Bottom Option Information** Set the bottom option adapter to be used with an IP terminal.	0=No Option 1=ADA 2=BHA	0	10-03-10
21	**Handset Option Information** Select the handset option used with an IP terminal.	0 = Normal Handset 1 = Handset for power failure (PSA/PSD) 2 = BCH (Bluetooth Cordless Handset)	0	10-03-11 15-05-23
22	**DSS Console Assignment** When an IP terminal is to use a DSS Console, assign the console number using this option.	0-32 (0 = None, 1-32 = DSS Console Number)	0	15-05-19 30-01 30-02 30-03 30-04 30-05 30-06
23	**Handset Option Additional Data** Additional data for the BCH handset option.	0 = No Setting 1-16 = TEN number for BCH Bluetooth cordless Handset	0	10-03-03 15-05-21
24	**Protection Service** Enable or disable the use of the protection button for UX5000 IP terminals.	0 = Not used 1 = Used	0	90-49-01 90-49-02
25	**- Not Used -**	-	-	

Item No.	Item	Input Data	Default	Related Program
26	**SIP MLT Type**	0 = Unassigned 1 = Type 1 (2- or 6-Button Value Terminal) 2 = Type 2 (8/2/24 Enhanced Terminal) 3 = Type 3 (8/12/24 DESI-Less Enhanced Terminal) 4 = Type 4 (IP-CTS) 5 = Type 5 (Softphone-phone mode (1st-party)) 6 = Type 6 (CTI Softphone (3rd-party)) 7 = Type 7 (Application Gateway) 8 = Type 8 (MH240 Wireless)	0	
27	**Personal ID Index** Define the personal ID index number applied to the extension number.	0 - 512	0	84-22
28	**Addition Information Setup** Determine whether additional information is enabled.	0 = Disable 1 = Enable	0	15-01-01 15-02-13 15-02-15 15-02-34
29	**WAN Side IP Address for Terminal - View Only - This displays the router IP address.**	**0.0.0.0 ~ 255.255.255.255**	**0.0.0.0**	
30	**DTMF While Talking** Determine if DTMF is sent while active on a call.	0 = Disable 1 = Enable	0	
31	**Warning Sound While Talking** Determine if a warning tone is allowed while active on a call.	0 = Disable 1 = Enable	1	
32	**Key Reading Out Function** Determine if this feature is enabled.	0 = Disable 1 = Enable	0	
33	**LAN Side IP Address - View Only -**	**0.0.0.0 ~ 255.255.255.255**	**0.0.0.0**	
34	**Touch Panel On/Off** Determine if the touch panels on the IP CTS terminals are enabled for an extension user.	0 = Disabled 1 = Enabled	1	
35	**Encryption Mode This program is used to display the Encryption Mode status for an extension. This option is view only and cannot be edited. This entry is based on the Encryption setting within the terminal's setup.**	**0 = Off 1 = On**	**0**	

Program 15 : Extension, Basic Setup
15-05 : IP Terminal Basic Data Setup

Item No.	Item	Input Data	Default	Related Program
36	**SIP IP Firmware Version** **This program is used to display the IP terminal's firmware version. This option is view only and cannot be edited.**	**0.0.0.0 ~ 255.255.255.255**	**00.00.00.00**	
37	**MW LED Illumination for Intercom Call** For each extension, select the color to be used when an incoming call trunk is received (1-9). This applies to incoming Intercom calls, forwarded Intercom calls (Call Forward: All, Busy, No Answer, Busy/No Answer, Both Ring,), and incoming Intercom calls via AspireNet.	1 = Do Not Use 2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Sky Blue 8 = White 9 = Rotation	3	14-01-35 15-23-01

Conditions

None

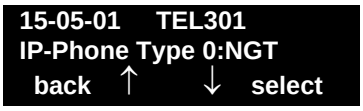
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 15-05 (IP Terminal Basic Data Setup):

1. Enter the programming mode.
2. 15 05

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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	Max. 8 digits

Day/Night Mode	1-8

Item No.	Trunk Access Map No.	Default	Related Program
01	1-200	1	14-07

Conditions

None

Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 15-06 (Trunk Access Map for Extensions):

1. Enter the programming mode.
2. 15 06

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
SA

Feature Availability
• Available.
• Key 91 requires software 2.a5+.

Description

Use **Program 15-07 : Programmable Function Keys** to set the functions of an extension's Programmable Function Key.

For certain functions, you can append data to the key's 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.

In order to clear any previously programmed key, press the CLEAR key to erase any displayed code.

Input Data

Extension Number	Max. 8 digits

Item No.	Line Key Number	Function Number	Additional Data
01	1-48	0-99 (General Function Level) (Service Code 851 by default) * 00-* 99 (Appearance Function Level) (Service Code 852 by default)	Refer to the function number list.

Default

Programmable keys 1-8 are line keys (key 1 = line 1, key 2 = line 2, etc.). All other programmable keys are undefined.

Function Number List

[1] General Function Level (00 – 99) (Service Code 851)

Function Number	Function	Additional Data	LED Indication	DESI-Less Displayed Names
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	XXXXXXXX (8 digits max. displayed)
02	Microphone Key (ON/OFF)		**Red On:** Mic Off **Off:** Mic On	MIC
03	DND Key		**Red On:** DND	DND
04	BGM (ON/OFF)		**Red On:** BGM On **Off:** BGM Off	BGM
05	Headset		**Red On:** Headset in use	HSET
06	Transfer Key		None	-
07	Conference Key		**Red On:** Conference call setup occurring	CONF
08	Call History / Incoming Call Log		**Rapid Blink (Red):** New call log **Red On:** Call log **Off:** No call log	-
09	Day/Night Mode Switch	Mode number: • 0=toggles night mode [Program 12-08-01], • 1–8=modes night 1-8	**Red On:** Mode active	-
10	Call Forward - Immediate		**Slow Blink (Red):** Forwarded	CFA
11	Call Forward - Busy		**Slow Blink (Red):** Forwarded	CFB
12	Call Forward - No Answer		**Slow Blink (Red):** Forwarded	CFNA
13	Call Forward - Busy/No Answer		**Slow Blink (Red):** Forwarded	CFBNA
14	Call Forward – Both Ring		**Slow Blink (Red):** Forwarded	CFBOTH

Function Number	Function	Additional Data	LED Indication	DESI-Less Displayed Names
15	Follow Me		**Rapid Blink (Red):** Forwarded	FLWME
16	Call Forward to Station		**Slow Blink (Red):** Forwarded **Rapid Blink (Red):** Forwarded with Follow Me	-
17	Call Forward to Device		**Slow 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	Abbreviated Dial – Common/Private	Abbreviated dial number (Common / Private)	None	-
28	Abbreviated Dial - Group	Abbreviated dial number (Group)	None	-
29	Repeat Redial		**Red On:** Waiting to redial	-
30	Saved Number Redial		None	-
31	Memo Dial		None	-
32	Meet – Me Conference		None	-
33	Override (Off-Hook Signaling)		None	-
34	Barge - In		None	-
35	Camp On/Callback		**Red On:** While camp-on activated	-
36	Department Step Call		None	-

Function Number	Function	Additional Data	LED Indication	DESI-Less Displayed Names
37	DND / Call 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	Secretary Call (Buzzer)	Extension Number	**Red On:** Transmission side **Rapid Blink (Red):** Receiver side	-
42	Secretary Call Pickup (Boss)	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	VRS Waiting Message Setup	Incoming Group Number	**Red On:** Under setting	-
53	VRS Waiting Message Starting		**Red On:** Active	-

Function Number	Function	Additional Data	LED Indication	DESI-Less Displayed Names
54	External Call Forward by Door Box		**Red On:** Active	-
55	Extension Name Edit		None	-
56	General Purpose LED Operation	001-100	**Red On:** Active	-
		101-200	**Green On:** Active	-
		201-300	**Press Once = Red On:** Active *or* **Press Twice = Green On:** Active	-
57	General Purpose LED Indication	001-100	**Red On:** Active	-
		101-200	**Green On:** Active	-
		201-300	**Press Once = Red On:** Active *or* **Press Twice = Green On:** Active	-
58	Department Incoming Call - Immediate	Department Group Number (01-64)	**Blink (Red):** Active	-
59	Department Incoming Call - Delay	Department Group Number (01-64)	**Blink (Red):** Active	-
60	Department Incoming Call - DND	Department Group Number (01-64)	**Blink (Red):** Active	-
61	ID Entry - Not Used -			-
62	- Not Used -			-
63	Outgoing Call Without Caller ID (ISDN)		**Red On:** Active	-
64	Key Pad Facility		**Red On:** Active	-
65	Not Used			-
66	CTI		**Red On:** CTI active	-
67	Mail Box	Extension Number or Department Group Number	**Rapid Blink (Green):** New message received **Red On:** Listening to messages.	-

Function Number	Function	Additional Data	LED Indication	DESI-Less Displayed Names
68	Voice Mail Service (DSPDB) ***- Not Used in the U.S. -***	0 = Skip 1 = Back Skip 2 = Auto Attendant Monitor	**Slow Flash:** New Message Restrict Mode *With Option 2 (Monitor Mode)* **Slow Blink (Red):** Monitor setting - Automatic **Red On:** Monitor setting - Manual	-
69	Conversation Record - ACI	0 = ACI as Record Destination 1 = Not Used in U.S. 2 = Not Used in U.S. 3 = Not Used in U.S.	**Red On:** Recording call.	-
70	Automated Attendant for Extension	Extension Number or Department Group Number	None	-
71	Message Change for Voice Attendant	Extension Number or Department Group Number	None	-
72	Keypad Facility			-
73	Keypad Hold			-
74	Keypad Retrieve			-
75	Keypad Conference			-
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	-
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	Extension Number to Tandem Ring	**Red On:** Active	-
81	Automatic Transfer-to-Transfer	Trunk # (001-200)	**Red On:** Active	-
82	Dterm IP Call Log			-

Function Number	Function	Additional Data	LED Indication	DESI-Less Displayed Names
85	Directory Dialing			
86	**Set Private Call Refuse** This key enables/disables the "Private" call refusal for the trunks set to "1" in Program 14-01-27.		**Slow Blink (Red):** Active	-
87	**Set Caller ID Refuse** This key enables/disables the Caller ID number refusal for the trunks set to "1" in Program 14-01-27.		**Slow Blink (Red):** Active	-
88	**DID Mode Switching** Assign a key for DID Mode Switching. This key can be used to manually change the time pattern for a DID number.	Program 22-17 Table Number (1-100)	Pattern 1 = LED off Pattern 2 = LED on Pattern 3 = slow flash Pattern 4 = fast flash Patterns 5-8 = off	-
91	**Live Call Screening** Call Screening allows an extension user to listen to (screen) a voice mail message as it is being left in their mailbox. A user must have a key defined in order to use the feature.		**Slow Blink (Green):** Active	-
94	**VRS Call Attendant** This allows a user to set the feature as needed. After the key is defined, press it once for Busy and the LED will flash slowly. Press the key a second time for No Answer Call Attendant and the LED will flash fast. Press the key a third time for Busy/No Answer Call Attendant and the LED will remain solid. Pressing the key a fourth time will turn the function off.		Busy = stutter flash No Answer = fast flash Busy/No Answer = LED on	-
95	**Page Switching**			
97	**Door Box** Assign the Door Box number to be called when this key is pressed.	Door Box Number (1-8)	**Red On:** Extension in use **Flashing:** Ringing **Off:** Extension idle	-
98	**Message Wait Indication**			-
99	**Alternate Key**			-

[2] Appearance Function Level (*00 - *99) (Service Code 852)

Function Number	Function	Additional Data	LED Indication	DESI-Less Names Displayed
*00	Not Used			-
*01	Trunk Key	Trunk Number (001-200)	**Red On:** Trunk busy by another user **Green On:** Trunk busy by extension	LINE XXX
*02	Trunk Group/Loop Key	Trunk Group Number (001-100)	**Red On:** Trunk busy by another user **Green On:** Trunk busy by extension	TKGPXXX
*03	Virtual Extension Key / Call Coverage	Extension Number or Department Group Number	**Red On:** Trunk busy by another user **Slow Blink (Red):** Incoming call	EXTXXXX
*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	PARKXX
*05	Loop Keys *Use Programs 15-13-01 or 15-13-02 to assign the loop key to a trunk group.*	• 0=Incoming • 1=Outgoing • 2=Both	**Green On:** Extension on an active call	-
*06	Trunk Access Via CygniLink	Network System Number (01-50)		-
*07	Personal Park		**Slow Blink (Green):** Parked call recalling extension user **Fast Blink (Green):** Extension placed call in Personal Park	-
*10	ACD Log – In / Log – Out		**Red On:** Under log-on **Off:** Under log-off	LOG
*11	-Not Used -			-
*12	ACD Emergency Call		**Red On:** Under monitor, Override, Standby **Fast Blink (Red):** Supervisor phone receiving Emergency Call	-
*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 - Terminal		**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 Check			-
*30	CALL1 Key			
*31	CALL2 Key			

Conditions

When a key is programmed using service code 852, that key cannot be programmed with a function using the 851 code until the key is undefined (000). For example with a Park Key programmed by dialing 852 + *04 must be undefined by dialing 852 + 000 before it can be programmed as a Voice Over key by dialing 851 + 48.

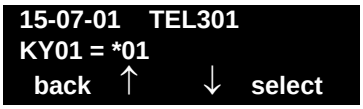
Feature Cross Reference

Refer to chart above.

Terminal Programming Instructions

To enter data for Program 15-07 (Programmable Function Keys):

1. Enter the programming mode.
2. 15 07



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-08 : Incoming Virtual Extension Ring Tone Setup

Level:
IN

Feature Availability
• Available - 256 virtual extension ports.

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.

Input Data

Extension Number	Max. 8 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 extension ring tone	0: Tone pattern 1	When an extension or a virtual extension is assigned to the function key on the key terminal, select the ring tone when receiving a call on that key. (Note that program 13-04-05 takes priority over this setting.) For ACD Call Coverage Keys, only tone pattern 1 (entry 0) can be used. The remaining patterns are not checked with this feature.

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	1100 660 520	1100 660 520	Envelope Envelope Envelope
Pattern 4	High Middle Low	1100 660 520	1100 660 520	No modulation No modulation No modulation
Internal Incoming Signal Frequency	High Middle Low	1100 660 520	1400 760 660	8Hz 8Hz 8Hz

Conditions

- Program 82-01 can be used to change the tone, however, Programs 22-03 and 15-02 are also affected.

Feature Cross Reference

- Multiple Directory Number / Call Coverage

Terminal Programming Instructions

To enter data for Program 15-08 (Incoming Virtual Extension Ring Tone Setup):

1. Enter the programming mode.
2. 15 08

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-09 : Virtual Extension Ring Assignment

Level:
SA

Feature Availability
• Available - 256 virtual extension ports.

Description

Use **Program 15-09 : Virtual Extension Ring Assignment** to assign the ringing options for an extension's Virtual Extension Key or Virtual Department 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).

Input Data

Extension Number	Up to 8 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 a keyset's programming.

Feature Cross Reference

- Multiple Directory Number / Call Coverage

Terminal Programming Instructions

To enter data for Program 15-09 (Virtual Extension Ring Assignment):

1. Enter the programming mode.
2. 15 09

   ```
   15-09-01    TEL301
   KY01 Mode1   =0:No
     ←              →
   ```

3. Enter the number of the item you want to program.

   ```
   15-09-nn    TELnnn
   nnnnn
     ←     –     +     →
   ```

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup

15-10 : Incoming Virtual Extension Ring Tone Order Setup

Level:	Feature Availability
SA	• Available - 256 virtual extension ports.

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 just flash.

Input Data

Extension Number	Up to 8 digits

Item No.	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	In the case where two or more virtual extensions are defined on a function key on a keyset, use this option to set the priority and tone of each key.	15-08

Default

By default, Virtual Extension ring tones have the following order.

Order	Ring Tone (Set in Program 15-08)
1	0
2	1
3	2
4	3

Conditions

None

Feature Cross Reference

- Multiple Directory Number / Call Coverage

Terminal Programming Instructions

To enter data for Program 15-10 (Incoming Virtual Extension Ring Tone Order Setup):

1. Enter the programming mode.
2. 15 10

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-11 : Virtual Extension Delayed Ring Assignment

Level:
SA

Feature Availability
• Available - 256 virtual extension ports.

Description

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

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	Max. 8 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

Conditions

Program the Multiple Directory Number keys NOT to ring before removing the key from a keyset's programming.

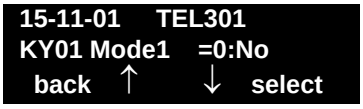
Feature Cross Reference

- Multiple Directory Number / Call Coverage

Terminal Programming Instructions

To enter data for Program 15-11 (Virtual Extension Delayed Ring Assignment):

1. Enter the programming mode.
2. 15 11



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-12 : Conversation Recording Destination for Extensions

Level:	Feature Availability
IN	• Available.

Description

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

Note: If both Programs 14-09 and 15-12 define a destination, the destination in Program 15-12 will be followed.

Input Data

Extension Number	Max. 8 digits

Item Number	Item	Input Data	Default
01	**ACI Recording Destination Extension Number** Enter the ACI's extension number to which the trunk calls should be recorded.	Max. 8 digits	No setting
02	**ACI Automatic Recording for Incoming Calls** Determine if an extension's incoming calls should be automatically recorded to the ACI.	0 = Disable 1 = Enable	0
03	**Recording Contents Storing Method (DSPDB)** **- Not Used in U.S. -**	0 = Specified 1 = Own box	0
04	**ACI Automatic Recording for Outgoing Call** Determine if an extension's outgoing calls should be automatically recorded to the ACI.	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

- Analog Communications Interface (ACI)

Terminal Programming Instructions

To enter data for Program 15-12 (Conversation Recording Destination for Extensions):

1. Enter the programming mode.
2. 15 12

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-13 : Loop Keys

Level:	Feature Availability
IN	• Available.

Description

Use **Program 15-13 : Loop Keys** to assign the Loop Key data for each keyset terminal. Loop Keys can be incoming, outgoing or both ways. Outgoing Loop Keys use the entry in item 1. Incoming Loop Keys use the entry in item 2. Both Way Loop Keys follow the entries in both item 1 and 2.

Input Data

Extension Number	Max. 8 digits

Key Number	01-48

Item Number	Item	Input Data
01	Outgoing Option	0-8 or 0-100 (0 = Assigns the Loop Key for ARS, 1-100 = Assigns the Loop Key to the trunk group specified)
02	Incoming Option	0-8 or 0-100 (0 = Assigns the Loop Key to all trunk groups, 1-100 = Assigns the Loop key to the trunk group specified)

Default

Programmable Function Key No. - 01-32
Outgoing Option - 0 (Assigns the Loop Key for ARS)
Incoming Options - 0 (Assigns the Loop Key to all trunk groups)

Conditions

None

Feature Cross Reference

- Loop Key

Terminal Programming Instructions

To enter data for Program 15-13 (Loop Keys):

1. Enter the programming mode.
2. 15 13

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-14 : Programmable One-Touch Keys

Level:	Feature Availability
SA	• Available.

Description

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

Input Data

Extension Number	Max. 8 digits

Key Number	01-10

Item No.	Dial Data	Name
01	0-9, *, #, Pause [press Line Key 1], Hookflash [press Line Key 2], @ (Code for Answer-Wait) [press Line Key 3] Up to 24 digits	Up to 12 Characters

Default

No entries for any extension.

Conditions

None

Feature Cross Reference

- One-Touch Keys

Terminal Programming Instructions

To enter data for Program 15-14 (Programmable One-Touch Keys):

1. Enter the programming mode.
2. 15 14

   15-14-01 TEL301
   KY01 Dial=
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   15-14-nn TELnnn
   nnnnn
   ← – + →

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-16 : SIP Register ID Setup for Extension

Level:	Feature Availability
IN	• Available.

Description

Use **Program 15-16 : SIP Register ID Setup for Extension** to set the SIP Register ID to an extension port. If both 14-12 and 15-16 are assigned, then the UX5000 uses the data in Program 15-16. Register ID 0 is associated with Program 10-28 and 10-29 data. Other registered IDs (1-31) are associated with Program 10-36 data.

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Entries	Default	Related Program
01	**SIP Register ID Setup for Extension** Set the SIP Register ID to an extension port.	0-31	0	10-28 10-29 10-36 14-12

Conditions

None

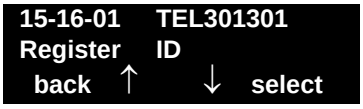
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 15-16 (SIP Register ID Setup for Extension):

1. Enter the programming mode.
2. 15 16



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-18 : Virtual Extension Key Enhanced Options

Level:	Feature Availability
IN	• Available.

Description

Use **Program 15-18 : Virtual Extension Key Enhanced Options** to set the operation of the virtual key for each extension.

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Entries	Default	Related Program
01	**Operation Mode** Determine whether an extension should release or retain the LED display when answering a virtual extension call. With an entry of "0", once the incoming call is picked up, the call comes off the virtual extension key and appears on the CALL key, line key or loop key. This programming is based on each extension, while Program 20-04-01 is system-wide (20-04-01 must be set to "0" to use this option). Extension numbers can include keysets, SLTs and virtual extension numbers.	0 = Release to CALL, Line, or Loop key 1 = Retain on Virtual Key	0	20-04-01
02	**Key Display** Determine the extension number a virtual extension should display when it places an intercom call to another extension user. Selecting (0) will display the virtual extension number, while selecting (1) will display the extension number of the actual terminal placing the call.	0 = Virtual Extension 1 = Physical Extension	0	20-04-01

Conditions

None

Feature Cross Reference

- Multiple Directory Numbers/Call Coverage

Terminal Programming Instructions

To enter data for Program 15-18 (Virtual Extension Key Enhanced Options):

1. Enter the programming mode.
2. 15 18

   15-18-01 TEL301301
   VE Key Mode 0:Released
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   15-18-nn TELnnn
   nnnnn
   ← – + →

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-19 : System Telephone Book Setup for Extension

Level:	Feature Availability
IN	• Available.

Description

Use **Program 15-19 : System Telephone Book Setup for Extension** to assign the Telephone Books to each extension and the options for them.

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Entries	Default	Related Program
01	**Telephone Book Number 1** Assign the first Telephone Book to each extension. The UX5000 allows multiple extensions to be assigned the same telephone book - this allows users to share commonly used numbers.	0-100	Telephone Books 1-100 assigned to Extensions 301-400	
02	**Telephone Book Number 2** Assign the second Telephone Book to each extension. The UX5000 allows multiple extensions to be assigned the same telephone book - this allows users to share commonly used numbers.	0-100	No Telephone Books assigned	
03	**- Not Used -**	-	-	
04	**- Not Used -**	-	-	
05	**- Not Used -**	-	-	
06	**Locking Telephone Book** For each extension, determine if the Telephone Book should be locked by default. A user can unlock the Telephone Book using the service code defined in Program 11-11-56.	0 = Unlocked 1 = Locked	01	11-11-56
07	**Telephone Book Password** For each extension, assign the 4-digit Telephone Book password.	0000-9999 (must be 4 digits)	0000	

Conditions

None

Feature Cross Reference

- Central Telephone Book

Terminal Programming Instructions

To enter data for Program 15-19 (System Telephone Book Setup for Extension):

1. Enter the programming mode.
2. 15 19

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-20 : LCD Line Key Name Assignment

Level:	Feature Availability
IN	• Available.

Description

Use **Program 15-20 : LCD Line Key Name Assignment** to assign the key names (up to 13 characters maximum per name) for the DESI-Less keysets, DESI-Less Line Key Units and IP-CTS terminals.

Input Data

Extension Number	Max. 8 digits
Line Key Number	01-48

Item No.	Item	Entries	Default	Related Program
01	**Key Name Assignment** Assign the key names for the DESI-Less keysets and DESI-Less Line Key Units. After defining a key in this program, the data will be cleared for a key when using Program 15-07 or service codes 851 or 852. ***Be sure to define a key first in 15-07 or with service codes 851 or 852 before entering a name in 15-20-01.***	13 characters maximum 6 characters or less with EM-size	Line Key 1: LINE 1 Line Key 2: LINE 2 Line Key 3: LINE 3 Line Key 4: LINE 4 Line Key 5: LINE 5 Line Key 6: LINE 6 Line Keys 7-48: Blank	15-07 90-38-33

Conditions

None

Feature Cross Reference

- Alphanumeric Display
- Maintenance - UserPro

Terminal Programming Instructions

To enter data for Program 15-20 (LCD Line Key Name Assignment):

1. Enter the programming mode.
2. 15 20

3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-22 : Mobile Extension Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 15-22 : Mobile Extension Setup** to define required UX5000 data for the Mobile Extension feature.

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Entries	Default	Related Program
01	**Mobile Extension Target Setup** Define the Abbreviated Dial bin which will be the target destination for the Mobile Extension.	0-1999 (0: No setting / 1-1999: target of mobile extension)	0	
02	**Connect Confirmation** Determine when DTMF confirmation will be required on trunks.	0 = DTMF confirmation always required on all lines 1 = DTMF Confirmation required only on analog lines 2 = DTMF Convifrmation never required	0	
03	**Trunk Access Code** Select the trunk access code to be used.	0 = Use normal trunk access code (Program 11-09-01) 1: Use individual trunk access code (Program 11-09-02)	0	11-09-01 11-09-02

Conditions

None

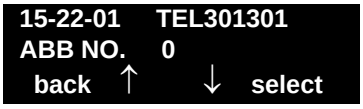
Feature Cross Reference

- Mobile Extension

Terminal Programming Instructions

To enter data for Program 15-22 (Mobile Extension Setup):

1. Enter the programming mode.
2. 15 22



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-23 : MW LED Illumination for Call Coverage/Virtual Extensions

Level:
IN

Feature Availability
• Available with software 2.g0+.

Description

Use **Program 15-23 : MW LED Illumination for Call Coverage/Virtual Extensions** to assign the color to be used when an incoming call is received for each call coverage/virtual extension key.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Entries	Default
01	**MW LED Illumination for Call Coverage/Virtual Extensions** Assign the color to be used when an incoming call is received for each call coverage/virtual extension key. This applies to any incoming call - trunk, Intercom, AspireNet. This setting is based on the extension number which is assigned to the key. Hold Recall to a Call Coverage/Virtual Extension key will appear as red.	1 = Do Not Use 2 = Red 3 = Green 4 = Blue 5 = Yellow 6 = Purple 7 = Sky Blue 8 = White 9 = Rotation	3

Conditions

This feature applies to IP terminals only (IP-CTS, DESI-less, Enhanced) using IP firmware 1.3.0.0 or higher. Value IP terminals, UX Soft Phone, and digital terminals do not support this feature (their indication is always "red").

Feature Cross Reference

- Multiple Directory Number / Call Coverage

Terminal Programming Instructions

To enter data for Program 15-23 (MW Illumination for Call Coverage/Virtual Extensions):

1. Enter the programming mode.
2. 15 23

   15-23-01 TEL301
   Illumination nnnnnnn
   ← →

3. Enter the number of the item you want to program.

   15-23-nn TELnnn
   nnnnn
   ← – + →

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 15 : Extension, Basic Setup
15-25 : DESI-Less Screen Scroll Functions

Level:
IN

Feature Availability
• Available with software 2.g0+.

Description

Use **Program 15-25 : DESI-Less Screen Scroll Functions** to assign the functions for the DESI-Less terminals.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Entries	Default
01	**Incoming Call Screen Alert** Use this setting for DESI-Less terminals to determine whether the screen number icon should flash to indicate the page which has the incoming call. Program 15-07 must be programmed with function keys which, when ringing, can be answered by going off-hook for this option.	0 = Disable 1 = Enable	1
02	**Automatic Screen Switching for Incoming Calls** This option is used to determine on an idle DESI-Less terminal when an incoming call rings in, if the screen which has the incoming call should automatically be displayed. If a call rings in to a terminal in a non-idle state, the screen will wait until the terminal is idle before switching. Program 15-25-01 does not need to be set for this option to work. This function will also work with recalling calls. This option has priority over 15-25-03 when terminating the first call with a second call ringing in.	0 = Disable 1 = Enable	1
03	**Idle Default Screen** Use this setting for DESI-Less terminals to determine if a particular screen number should be displayed when the terminal is idle. Program 15-25-02 has priority over 15-25-03 when terminating the first call with a second call ringing in.	0 = Disable 1-4 = Screen Number 1-4	0

04	**Active Call Default Screen** Use this setting for DESI-Less terminals to determine if a particular screen number should be displayed after the terminal answers a call.	0 = Disable 1-4 = Screen Number 1-4	0

Conditions

None

Feature Cross Reference

- Alphanumeric Display

Terminal Programming Instructions

To enter data for Program 15-25 (DESI-Less Screen Scroll Functions):

1. Enter the programming mode.
2. 15 25

```
15-25-01    TEL301
Notify Event  1:Enable
  ←                →
```

3. Enter the number of the item you want to program.

```
15-25-nn    TELnnn
nnnnn
  ←     –     +     →
```

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 16 : Department Group Setup
16-01 : Department Group Basic Data Setup

Level:	Feature Availability
IN	• Available - 64 Department Groups.

Description

Use **Program 16-01 : Department Group Basic Data Setup** to set the function mode for each department group.

Input Data

Department Group Number	01-64

Item No.	Item	Input Data	Default	Related Program
01	**Department Name** Enter the Department Group name to be displayed when the group number is called.	Max. 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 terminals in group) or priority (cycles to highest priority extensions first).	0 = Priority Routing 1 = Circular Routing	0	16-02
03	**Department Routing When Busy** Use this option to set how the UX5000 routes an Intercom call to a busy Department Group member. Intercom callers to the extension can either hear busy or route to the first available department number. This only occurs for calls to the extension directly, not the department number assigned in Program 11-07	0 = Normal (Intercom caller to busy department member hears busy) 1 = Circular (Intercom callers to busy department member routes to idle member)	0	16-02
04	**Hunting Mode** 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	

Item No.	Item	Input Data	Default	Related Program
05	**Department 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. This option does not apply to secondary department groups (16-01-03).	0 = Manual 1 = Automatic	0	11-16-10
06	**STG Withdraw Mode** - Not Used -	0 = Disable (Camp On) 1 = Enable (Overflow Mode)	0	
07	**Call Recall Restriction for STG** Determine whether a 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	**Queuing for Department Group Call** To have Department Group calls queue when busy, set this entry to “1” for an extension or voice mail group.	0 = No Queuing 1 = Queuing (This program allows entries of 1-32, however, the UX5000 accepts any entry other than “0” as to allow queuing.)	0	
09	**Department Hunting No Answer Time** Set how long a call will ring a Department group extension before hunting occurs.	0-64800 seconds	15	
10	**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

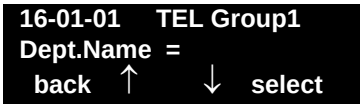
- Department Calling

Program 16 : Department Group Setup
16-01 : Department Group Basic Data Setup

Terminal Programming Instructions

To enter data for Program 16-01 (Department Group Basic Data Setup):

1. Enter the programming mode.
2. 16 01



3. Enter the number of the item you want to program.

4. Enter the Department Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 64 Department Groups.

Description

Use **Program 16-02 : Department Group Assignment for Extensions** to assign each extension to a Department Group and to assign the extension's priority in the group. When a call comes into the group, it may ring the extensions in order of their priority. The UX5000 uses these groups for Department Calling. Assign pilot numbers to Department Groups in Program 11-07. This lets UX5000 users place calls to the departments.

For voice mail, assign the voice mail ports to the same group. With IntraMail, these ports are defined in Program 47-01-17.

Input Data

Extension Number	Max. 8 digits

Item No.	Group Number	Priority	Default	Description	Related Program
01	1-64	1-999	1 – xxx (See Note Below)	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

Note: The initial value of a priority becomes the ports numerical order assigned in Program 11-02 and 11-04. (Extension ports are 1-512 (depending on port licensing). Virtual extension ports are 1-256.)

Conditions

None

Feature Cross Reference

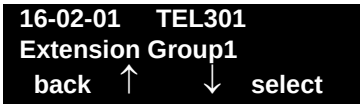
- Department Calling

Program 16 : Department Group Setup
16-02 : Department Group Assignment for Extensions

Terminal Programming Instructions

To enter data for Program 16-02 (Department Group Assignment for Extensions):

1. Enter the programming mode.
2. 16 02



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 64 Department Groups.

Description

Use **Program 16-03 : Secondary Department Group** to set a second Department Group for extensions. Each secondary Department Group can have up to 16 extensions assigned.

Input Data

Secondary Department (Extension) Group Number	01-64

Item No.	Extension Entry	Extension Number	Priority Order	Description
01	01-16 (16 extensions numbers can be assigned per Secondary Department Group)	Max. 8 digits	0-999	This program is set up when placing extensions into two or more groups.

Default

All Department Groups : No setting

Conditions

Department Group All Ring (Program 16-01-05) will not include any extensions assigned in this program. It will only include those extensions which have the Department Group as their primary group (assigned in Program 16-02-01).

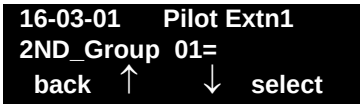
Feature Cross Reference

- Department Calling

Terminal Programming Instructions

To enter data for Program 16-03 (Secondary Department Group):

1. Enter the programming mode.
2. 16 03



3. Enter the number of the item you want to program.

4. Enter the pilot extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 64 Department Groups.

Description

Use **Program 16-04 : Call Restriction Between Department Groups** to prevent calling between certain Department Groups. This restricts calls to the extension numbers as well as the Department Group number.

An extension user in one Department Group, however, can use an extension in a restricted Department Group as the destination extension when using the Call Forwarding feature.

This restriction option does not apply to secondary Department Groups (defined in Program 16-03-01).

Input Data

Department (Extension) Group Number	01-64
Call Restricted Group	1-8

Item No.	Restricted Department Group	Description
01	01-64	For each Department Group (01-64), enter the Department Group numbers which should be restricted. Up to 8 different groups can be defined for each Department Group. This restriction will apply to any extension within the Department Group (including the operator).

Default

All Department Groups : No setting

Conditions

This restriction option does not apply to secondary Department Groups (defined in Program 16-03-01).

Feature Cross Reference

- Department Calling

Terminal Programming Instructions

To enter data for Program 16-04 (Call Restriction Between Department Groups):

1. Enter the programming mode.
2. 16 04

3. Enter the number of the item you want to program.

4. Enter the pilot extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 20 : System Option Setup
20-01 : System Options

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-01 : System Options** to set various UX5000 options.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Operator Access Mode** When more than one operator is used, set the type of ringing priority used when an extension calls the operator terminal.	0 = Step 1 = Circular	0	20-17
02	**Selectable Text Message Mode** Use this program to select the mode when calling the terminal which has enabled a Selectable Text Message. **Note:** Any extensions previously set with Selectable Display Messaging must cancel the feature and reactivate in order for a change in this option to take affect.	0 = Call mode 1 = No Answer/ Busy mode	1	11-11-14 15-07-08
03	**DSP Sender Resource Selection** With the Caller ID Sender Queuing feature, set the DSP Sender Resource Selection to "1" (Caller ID Sender).	0 = Conference 1 = Caller ID 2 = MFC	0	
04	**Network BLF Indication** Used to determine how often the UX5000 updates the DSS key BLF indications. For CygniLink, the entry should be “30” in all UX5000s.	0-64800 in 100 ms increments	0	30-05
05	**DTMF Receive Active Time** For OPXs, analog terminals and certain analog trunks (like DISA), the UX5000 attaches a DTMF receiver to the port for this interval. The UX5000 releases the receiver after the interval expires.	0-64800 seconds	10	25-07-01
06	**Alarm Duration** This interval sets the duration of the alarm signal.	0-64800 seconds	30	
07	**Callback Ring Duration Time** Callback rings an extension for this interval.	0-64800 seconds	15	11-12-05 15-07-35
08	**Trunk Queuing Callback Time** Trunk Queuing callback rings an extension for this interval.	0-64800 seconds	15	11-12-05 15-07-35 20-31-01
09	**Callback/Trunk Queuing Cancel Time** The UX5000 cancels an extension’s Callback or Trunk Queueing request after this interval.	0-64800 seconds	64800	11-12-05 15-07-35 20-31-02
10	**Trunk Guard Timer** When a trunk is released, the line can be seized again after this timer expires.	0-64800 seconds	1	
11	**- Not Used -**			

Item No.	Item	Input Data	Default	Related Program
12	**TelPro/WebPro Automatic Logout Timer** For each extension, determine how long the UX5000 waits (1-86400 seconds) with no communication between the user and the UX5000 before logging the user out of programming. [900 = 15 minutes, 86400 = 24 hours]. This setting applies to all networked systems.	0-86400 seconds	900	90-02-01 90-26-01
13	**- Not Used -**	-	-	-

Conditions

None

Feature Cross Reference

Refer to above chart.

Terminal Programming Instructions

To enter data for Program 20-01 (System Options):

1. Enter the programming mode.
2. 20 01

   ```
   20-01-01
   Operator_Access0:Step
    back  ↑     ↓  select
   ```

3. Enter the number of the item you want to program.

   ```
   20-01-nn
   nnnnn
     ←          →
   ```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-02 : System Options for Multi-Line Terminals

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-02 : System Options for Multi-Line Terminals** to set various UX5000 options for Multi-Line Terminals.

Input Data

Item No.	Item	Input Data	Default
01	Trunk Loop Key Operation Mode	0 = Indicate Using Loop Trunk 1 = Not indicated	0
		Mode / *0 = Keep Lamp* / *1 = LED Off* *Incoming:* *300 IPM Red blink* *Talking:* *Green Lighting (on Talking TEL)* / *LED Off* *Holding:* *60 IPM Green blink (on holding TEL)* / *LED Off*	
02	**Trunk Loop Access Key Operating Mode** Use this option to set the operating mode of the extension's trunk group keys. The keys can be for incoming access, outgoing access or both.	0 = Outgoing / Incoming 1 = Outgoing 2 = Incoming	0
03	**BLF Control** Set the conditions under which a Hotline, Reverse Voice Over or DSS Console key indicates that an extension is busy. Refer to the Reverse Voice Over feature for more information.	0 = Idle / Busy (ON/OFF) 1 = Busy / Idle (ON/OFF)	1
04	**Retrieve the Line After Transfer** Enable (1) or disable (0) an extension's ability to answer a call after it's been transferred, but before it's answered.	0 = Not Holding 1 = Holding	1

Item No.	Item	Input Data	Default
05	**Headset Busy Mode** Set the conditions under which a headset extension is busy to incoming callers. When Call Queuing (Program 20-09-07) is turned off, this setting is followed.	0=Headset busy with one CALL key busy 1=Headset busy with both CALL keys busy	0
06	**Preselection Time** When a keyset user preselects a line key, the UX5000 remembers the preselection for this interval.	0-64800 seconds	5
07	**Time and Date Display Mode** Set how the Time and Date appear on display terminals. 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** This timer determines how long a user's display will show Caller ID for a second incoming call.	0-64800 seconds	5
09	**Disconnect Supervision** Use this option to enable or disable disconnect supervision for the UX5000 trunks.	0 = Disable 1 = Enable	1
10	**Time Before Shifting to Power-Saving Mode** When the Power Saving Mode is enabled for an extension in Program 15-02-18, use this option to determine when the mode is activated.	0 = Power-Saving Mode Off 1 = 1 minutes 2 = 2 minutes 3 = 4 minutes 4 = 8 minutes 5 = 16 minutes 6 = 32 minutes 7 = 64 minutes	0
11	**Handsfree Microphone Control** Use this option to set the default setting for a keyset's Handsfree microphone on UX5000 start up. If set to 0, a user can place a call Handsfree without lifting the handset. If set to 1, a user can initially place a call Handsfree but must lift the handset to talk or press their MIC key. ***Changes to this option will take affect when the UX5000 is reset.***	0 = Off 1 = On	1

Item No.	Item	Input Data	Default
12	**Forced Intercom Ringing** Use this option to set voice-announce or Forced Intercom Ringing by default. Once this option is changed by a user with service codees 821/823, this setting is ignored for that extension.	0 = Voice 1 = Ring	0
13	**- Not Used -**		
14	**- Not Used -**	-	-
15	**- Not Used for UX5000 -** **Caller ID Display Mode** Determine how the Caller ID should be displayed for all i-Series terminals when an incoming call is received. Once the call is answered, the first line will indicate the trunk number and caller timer (if enabled).	0 = Displays the line number on line one and the Caller ID name and number on line 2. 1 = Line 1 displays Caller ID number, Line 2 displays Caller ID name 2 = Line 1 displays Caller ID name, Line 2 displays Caller ID number	0
18	**Caller ID Display Time** Use this option to determine how long a Caller ID record will be displayed on the terminal's display when reviewing the Caller ID calls. This is separate from the pre-selection timer set in Program 20-02-06.	0-64800 seconds	30
19	Select how the virtual extension displays when pressed. If enabled, it displays as the virtual extension.	0 = Disabled 1 = Enabled	0

Conditions

None

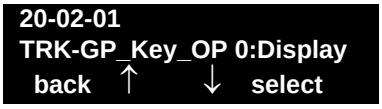
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 20-02 (System Options for Multi-Line Terminals):

1. Enter the programming mode.
2. 20 02



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-03 : System Options for Single Line Terminals

Level:
IN

Feature Availability
• Available.

Description

Use **Program 20-03 : System Options for Single Line Terminals** to set up various options for Single Line Terminals.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**SLT Call Waiting Answer Mode** For a busy single line (500/2500 type) terminal, set the mode used to answer a camped-on trunk call. For ESL sets, enabling this option (1) allows the user to dial Service Code 154 for Voice Mail Conversation Record.	0 = Hook Flash 1 = Hook Flash + Service code (894)	0	11-12-47
02	**Ignore Received DP Dial on DTMF SLT Port** Use this option to define whether the UX5000 should receive dial pulse and DTMF signals (0) or ignore dial pulse and only accept DTMF signals (1).	0 = Do Not Ignore 1 = Ignore	0	15-03-01
03	**SLT DTMF Dial to Trunk Lines** • **Type 0 :** The UX5000 keeps the digits dialed by the SLT on a trunk in a buffer. After all the digits have been received, the UX5000 sends all the digits to the trunk. If the time space between digits is longer than the timer in Item 4, the UX5000 considers all digits received. • **Type 1 :** The UX5000 passes the received digits from the SLT to the trunk immediately. If the SLT 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 3rd-party external paging device, set this option to “1”. In addition, set Program 20-03-04 to “1”. These programs must be set in order for IP DECT users to be able to break dial tone on an analog trunk that is used for paging. ***If an UX5000 is used as a PBX/Centrex system with Centrex Call Forwarding feature:*** When a UX5000 is connected to a PBX system and it uses a trunk defined as "Behind PBX" in Program 14-04-01 to place the Call Forward, it is strongly recommended that the PBX/Centrex system have immediate dial enabled (set to 1) and not store and forward.	0 = Receive all dialed data, before sending. 1 = Direct through out	0	20-03-04

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 UX5000 waits this interval before outdialing the first digit. The timer will restart when a user dials another digit. When using a 3rd-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 20-03-07
05	SLT Operation Mode	0 = Normal Mode 1 = Extended Mode 1 2 = Extended Mode 2	0	
06	**Headset Ringing Start Time** Define the headset ringing start time. After this timer expires from the time when a SLT is off hook, the UX5000 will set the SLT to headset ringing mode.	0-64800 seconds	5	20-13-38
07	**Forced Dial Sending Start Time** This option is used for SLT DTMF dialing. When **Program 20-03-03 (SLT DTMF Dial to Trunk Lines)** is set to "0" (receive all digits before sending), the UX5000 will following the timers in Program 20-03-04 and 23-03-07. The timer in **Program 20-03-04 : System Options for Single Line Terminals - Dial Sending Start Time for SLT or ARS** will reset when the user dials another digit. This timer will not reset when a digit is dialed. The user must finish dialing all the digits before this timer expires.	0-64800 seconds	0	20-03-03 20-03-04

Conditions

None

Feature Cross Reference

- Call Forward, Centrex
- Single Line Terminals, Analog
- Single Line Terminals, Digital

Terminal Programming Instructions

To enter data for Program 20-03 (System Options for Single Line Terminals):

1. Enter the programming mode.
2. 20 03

   20-03-01
   Call_Wait_Ans 0:Hooking
   ← →

3. Enter the number of the item you want to program.

   20-03-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 256 virtual extension ports.

Description

Use **Program 20-04 : System Options for Virtual Extensions** to set up various UX5000 options for Virtual Extensions.

Input Data

Item No.	Item	Input Data	Default	Related Programs
01	**Virtual Extension Key Operation Mode** With an entry of "0", after answering a call on a virtual extension key, once the call is picked up, the call comes off the virtual extension key and appears on the line or loop key. With an entry of "1", after answering a call on a virtual extension key, once the call is picked up, the call will remain on the virtual extension key.	0 = Release Virtual Extension Key 1 = Hold Virtual Extension Key	0	
02	- Not Available -		-	
03	**Call Coverage Delay Interval** Multiple Directory Number/Call Coverage Keys set for Delayed Ringing (see Program 15-11) ring the covering extension after this interval.	0-64800 (Sec.)	10	15-11 20-31-03
04	**Virtual Extension Busy LED Status** Determine whether virtual extensions should display busy LED status for ICM and trunk calls (0) or if the enhanced setting should be used (1) which does not provide busy LED status for trunk calls.	0 = ICM and Trunk Status Displayed 1 = Enhanced Setting	0	

Conditions

None

Feature Cross Reference

- Multiple Directory Number / Call Coverage

Terminal Programming Instructions

To enter data for Program 20-04 (System Options for Virtual Extensions):

1. Enter the programming mode.
2. 20 04

   ```
   20-04-01
   V-Ext.Answer   1:Keep
     ←              →
   ```

3. Enter the number of the item you want to program.

   ```
   20-04-nn
   nnnnn
     ←              →
   ```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

This program is not used.

Program 20 : System Option Setup
20-06 : Class of Service for Extensions

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-06 : Class of Service for Extensions** to assign a Class of Service to an extension. There are15 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	Max. 8 digits

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

Default

- Extension number 301 is set as Class 15.
- All other extension numbers are set as Class 1.

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-06 (Class of Service for Extensions):

1. Enter the programming mode.
2. 20 06

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-07 : Class of Service Options (Administrator Level)

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Class of Service Number	01-15

Class of Service Options (Administrator Level), Program 20-07

Item No.	Item	Input Data	Default		Related Program
			COS 01-14	COS 15	
01	**Manual Night Service Enabled** Turn off or on an extension's ability to use manual Night Service Switching	0 = Off 1 = On	0	1	11-10-01
02	**Changing the Music on Hold Tone** Turn off or on an extension's ability to change the Music on Hold tone	0 = Off 1 = On	0	1	11-10-02
03	**Time Setting** Turn off or on an extension's ability to set the Time via Service Code 828.	0 = Off 1 = On	1	1	11-10-03
04	**Storing Abbreviated Dialing Entries** Turn off or on an extension's ability to store Common or Group Abbreviated Dialing numbers.	0 = Off 1 = On	1	1	11-10-04
05	**Set/Cancel Automatic Trunk-to-Trunk Forwarding** Turn off or on an extension's 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 -				
10	**Programmable Function Key Programming (Appearance Level)** Turn off or on an extension's ability to program their Appearance function keys using Service Code 852 (by default).	0 = Off 1 = On	1	1	20-13-18

Class of Service Options (Administrator Level), Program 20-07					
Item No.	Item	Input Data	Default		Related Program
			COS 01-14	COS 15	
11	**Forced Trunk Disconnect (analog trunk only)** Turn off or on an extension's ability to use Forced Trunk Disconnect.	0 = Off 1 = On	0	1	
12	**Trunk Port Disable** Turn off or on an extension's ability to busy out a trunk. using Service Code 145. The user which busied out the trunk will still have access to the trunk for placing outgoing calls. All other users will be blocked from seizing the trunk to place an outgoing call. The trunk, however, can still be answered by any users programmed with the trunk access.	0 = Off 1 = On	0	1	11-10-27
13	**VRS Record** Turn off or on an extension's ability to record, erase and listen to VRS messages.	0 = Off 1 = On	0	1	
14	**VRS General Message Listen** Turn off or on an extension's ability to dial 4 or Service Code 111 and listen to the General Message	0 = Off 1 = On	0	1	11-10-21
15	**VRS General Message Record** Turn off or on an extension's ability to dial Service Code 112 and record, listen to or erase the General Message	0 = Off 1 = On	0	1	11-10-22
16	- Not Used -				
17	- Not Used -				
18	SMDR printout accumulated extension data	0 = Off 1 = On	0	1	11-10-23
19	SMDR printout accumulated 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 -				
24	**Set/Cancel Private Call Refuse** Turn on (1) or off (0) an extension's ability to use the Private Call Refuse service code or function key.	0 = Off 1 = On	0	0	11-10-32
25	**Set/Cancel Caller ID Refuse** Turn on (1) or off (0) an extension's ability to use the Caller ID Refuse service code or function key.	0 = Off 1 = On	0	0	11-10-33 11-10-34
26	**DID Mode Switching** Turn on (1) or off (0) an extension's ability to manually change the time pattern for a DID Conversion Table.	0 = Off 1 = On	0	0	11-10-35

Class of Service Options (Administrator Level), Program 20-07					
Item No.	Item	Input Data	Default		Related Program
			COS 01-14	COS 15	
27	**- Not Used -**				
30	**Date Setting**	0 = Off 1 = On			11-10-41

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-07 (Class of Service Options (Administrator Level)):

1. Enter the programming mode.
2. 20 07

   ```
   20-07-01   FCTN Cls1
   NT_Service_SW        1:On
     ←                  →
   ```

3. Enter the number of the item you want to program.

   ```
   20-07-nn   FCTN Clsnn
   nnnnn
     ←     –     +     →
   ```

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Class of Service Number	01-15

Class of Service Options (Outgoing Call Service), Program 20-08

Item No.	Item	Input Data	Default		Related Program
			COS 01-14	COS 15	
01	**Intercom Calls** Turn off or on Intercom calling for the extension.	0 = Off 1 = On	1	1	
02	**Trunk Calls** Turn off or on outgoing trunk calling for the extension.	0 = Off 1 = On	1	1	
03	**Common Abbreviated Dialing** Turn off or on the ability for an extension to dial Common Abbreviated Dialing numbers.	0 = Off 1 = On	1	1	
04	**Group Abbreviated Dialing** Turn off or on the ability for an extension to dial Group Abbreviated Dialing numbers.	0 = Off 1 = On	1	1	
05	**Dial Number Preview** Turn off or on an extension's ability to use Dial Number Preview.	0 = Off 1 = On	1	1	
06	**Toll Restriction Override** Turn off or on Toll Restricting Override (Service Code 875).	0 = Off 1 = On	0	0	21-01-07, 21-07
07	**Repeat Redial** Turn off or on an extension's ability to use Repeat Redial.	0 = Off 1 = On	1	1	
08	**Toll Restriction Dial Block** Turn off or on an extension's ability to use Dial Block.	0 = Off 1 = On	0	0	
09	**Hotline/Extension Ringdown** Turn off or on Ringdown Extension for extensions with this COS.	0 = Off 1 = On	0	0	

Class of Service Options (Outgoing Call Service), Program 20-08					
Item No.	Item	Input Data	Default		Related Program
			COS 01-14	COS 15	
10	**Switching from Handsfree Answerback to Forced Intercom Ringing** Turn off or on an extension's ability to force Handsfree Answerback or Forced Intercom Ringing for outgoing Intercom calls.	0 = Off 1 = On	1	1	
11	**Protect ICM Call Mode Switching by Caller** When an extension is set to ring mode for ICM calls, enabling this option prevents callers from changing the call to voice announce mode.	0 = Off 1 = On	0	0	
12	**Department Group Step Calling** Turn off or on an extension's ability to use Department Group Step Calling	0 = Off 1 = On	1	1	
13	**ISDN CLIP** Determine if the ISDN calling line identity presentation and screening indicators are to be allowed.	0 = Off 1 = On	0	0	10-03-05 15-01-04
14	Call Sub-Address Information	0 = Off 1 = On	0	0	
15	**Block Outgoing Caller ID** Turn off or on the UX5000's ability to automatically block outgoing Caller ID information when a user places a call. If this option is on, the UX5000 automatically inserts the Caller ID block code *67 (defined in Program 14-01-21) before the user's dialed digits.	0 = Off 1 = On	0	0	14-01-20 14-01-21
16	**Display E911 Dialed Extension Name and Number** Turn off or on an extension's ability 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** Turn off or on an extension's ability to override the trunk access map programming for outgoing calls.	0 = Off 1 = On	0	0	
20	**Hot Keypad** Turn off or on an extension's ability to use the Hot Keypad feature which allows a user to start dialing a number on the keypad without having to press the SPK key.	0 = Off 1 = On	0	0	

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-08 (Class of Service Options (Outgoing Call Service)):

1. Enter the programming mode.
2. 20 08

   20-08-01 FCTN Cls1
   Intercom_Call 1:On
   ← →
3. Enter the number of the item you want to program.

   20-08-nn FCTN Clsnn
   nnnnn
   ← – + →
4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-09 : Class of Service Options (Incoming Call Service)

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Class of Service Number	01-15

Class of Service Options (Outgoing Call Service), Program 20-09

Item No.	Item	Input data	Default		Related Program
			COS 01-14	COS 15	
01	**Second Call for DID/ DISA/ DIL/ E&M** Turn off or on the extension's ability to receive a second call from a DID, DISA, DIL, or tie line caller. ***Note:*** With this option set to '1', the destination extension must be busy in order for a second DNIS caller to ring through. If the destination extension does not have a line or loop key available for the second call and a previous call is ringing the extension but has not yet been answered, the second caller will hear busy regardless of this program's setting.	0 = Off 1 = On	0	0	
02	**Caller ID Display** Turn off or on the Caller ID display at an extension.	0 = Off 1 = On	0	0	15-02-08
03	**Sub Address Identification** Define whether an extension displays the Caller Sub-Address.	0 = Off 1 = On	0	0	
04	**Notification for Incoming Call List Existence** Determine whether an extension's display will show "Check List" when an incoming call has been missed by a user.	0 = Off 1 = On	0	0	20-09-02
05	**Setting Handsfree Answerback or Forced Intercom Ringing** Turn off or on an extension's 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 Information Display** ***- Not Used in U.S. -*** If this option is set to "1", the Incoming Call Time is displayed on the keyset's LCD while the terminal is ringing.	0 = Off 1 = On	0	0	

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-09 (Class of Service Options (Incoming Call Service)):

1. Enter the programming mode.
2. 20 09

   ```
   20-09-01   FCTN Cls1
   2nd_Call_DDI-Ovrride0:Of
    back  ↑     ↓  select
   ```

3. Enter the number of the item you want to program.

   ```
   20-09-nn   FCTN Clsnn
   nnnnn
     ←     –     +     →
   ```

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-10 : Class of Service Options (Answer Service)

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Class of Service Number	01-15

Class of Service Options (Answer Service), Program 20-10

Item No.	Item	Input Data	Default	
			COS 01-14	COS 15
01	**Group Call Pickup (Within Group)** Turn off or on Group Call Pickup for calls ringing an extension's own Pickup Group as well as ring group calls (Service Code *#).	0 = Off 1 = On	1	1
02	**Group Call Pickup (Another Group)** Turn off or on Group Call Pickup for calls ringing outside a group (Service Code 869).	0 = Off 1 = On	1	1
03	**Group Call Pickup for Specific Group** Turn off or on Group Call Pickup for a specific group using service code 868.	0 = Off 1 = On	1	1
04	**Group Call Pickup** Turn off or on an extension's ability to pick up a call ringing into a Pickup Group (Service Codes *# and 856).	0 = Off 1 = On	1	1
05	**Directed Call Pickup for Own Group** Turn off or on Directed Call Pickup for calls ringing an extension's own Pickup Group (Service Code 856).	0 = Off 1 = On	1	1
06	**Meet Me Conference and Paging** Turn off or on an extension's ability to use Meet Me Conference and Paging.	0 = Off 1 = On	1	1
07	**Automatic Answer of Universal Calls** Turn off or on an extension's ability to use Universal Auto Answer (no service code required).	0 = Off 1 = On	0	0
08	**Auto Off-Hook Answer for Call Coverage Keys** Turn off or on an extension's ability to answer an incoming call on a Call Coverage Key simply by lifting the handset.	0 = Off 1 = On	0	0

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-10 (Class of Service Options (Answer Service)):

1. Enter the programming mode.
2. 20 10

   ```
   20-10-01   FCTN Cls1
   Call_Pickup              1:On
    back   ↑      ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   20-10-nn   FCTN Clsnn
   nnnnn
     ←      –      +      →
   ```

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-11 : Class of Service Options (Hold/Transfer Service)

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Class of Service Number	01-15

Class of Service Options (Answer Service), Program 20-11

Item No.	Item	Input Data	Default	
			COS 01-14	COS 15
01	**Call Forward Immediate** Turn off or on an extension's ability to initiate Call Forwarding Immediate.	0 = Off 1 = On	1	1
02	**Call Forward When Busy** Turn off or on an extension's ability to use Call Forward When Busy.	0 = Off 1 = On	1	1
03	**Call Forwarding When Unanswered** Turn off or on an extension's ability to use Call Forward When Unanswered.	0 = Off 1 = On	1	1
04	**Call Forwarding (Both Ringing)** Turn off or on an extension's ability to activate Call Forwarding with Both Ringing.	0 = Off 1 = On	1	1
05	**Call Forwarding with Follow Me** Turn off or on an extension's ability to initiate Call Forwarding with Follow Me.	0 = Off 1 = On	1	1
06	**Unscreened Transfer** Turn off or on an extension's ability to use Unscreened Transfer.	0 = Off 1 = On	1	1
07	**Transfer Without Holding** Turn off or on an extension's ability to use Transfer Without Holding.	0 = Off 1 = On	0	0
08	**Transfer Information Display** Turn off or on an extension's incoming Transfer pre-answer display.	0 = Off 1 = On	1	1
09	**Group Hold Initiate** Turn off or on an extension's ability to initiate a Group Hold.	0 = Off 1 = On	1	1
10	**Group Hold Answer** Turn off or on an extension's ability to pick up a call on Group Hold	0 = Off 1 = On	1	1

Class of Service Options (Answer Service), Program 20-11				
Item No.	**Item**	**Input Data**	**Default**	
			COS 01-14	**COS 15**
11	**Automatic On Hook Transfer** Turn off or on an extension's ability to use Automatic On Hook Transfer	0 = Off 1 = On	1	1
12	**Call Forwarding Off-Premise** Turn off or on an extension's ability to set up Call Forwarding Off-Premise for their terminal.	0 = Off 1 = On	0	0
13	**Operator Transfer After Hold Callback** Turn off or on an extension's 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** Turn off or on the Trunk-to-Trunk Transfer Restriction option. If enabled, trunk-to-trunk transfer is not possible.	0 = Off 1 = On	0	0
15	**VRS Personal Greeting** Turn off or on an extension's ability to dial Service Code *4 713 7 to record, listen to or erase the Personal Greeting Message.	0 = Off 1 = On	1	1
16	**Call Redirect** Turn off or on a keyset user's ability to transfer a call to a pre-defined destination (such as an operator, voice mail, or another extension) without answering the call.	0 = Off 1 = On	0	0
17	**Set/Cancel Department Group Trunk-to-Trunk Forwarding** Turn off or on an extension user's ability to set Trunk-to-Trunk Forwarding for a Department Group.	0 = Off 1 = On	1	1
18	**No Recall** Allow (0) or deny (1) answered Transferred calls from recalling the originating extension.	0 = Allow 1 = Deny	0	0
19	**Normal/Extended Park** Determine if an extension's Class of Service should allow either a normal or extended Park.	0 = Normal 1 = Extended	0	0
20	**No Callback** Turn off or on an extension's ability to receive Callbacks. *This feature does not applie to virtual extension.*	0 = Off 1 = On	0	0
21	**Restriction for Tandem Trunking on Hang Up** Allow (0) or deny (1) an extension users's ability to set up a tandem/ conference call automatically when they hang up.	0 = Allow 1 = Deny	0	0
26	**Personal Park at Another Extension** Turn off or on an extension's ability to place a call at a co-worker's extension using Personal Park .	0 = Off 1 = On	0	0
27	**Automatic Park Search** Turn off or on an extension's ability to automatically Park a call in the first available orbit.	0 = Off 1 = On	1	1

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-11 (Class of Service Options (Hold/Transfer Service)):

1. Enter the programming mode.
2. 20 11

3. Enter the number of the item you want to program.

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Not Available.

Description

This program is not used.

Program 20 : System Option Setup
20-13 : Class of Service Options (Supplementary Service)

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Class of Service Number	01-15

Class of Service Options (Supplementary Service), Program 20-13

Item No.	Item	Input Data	Default		Related Programs
			COS 01-14	COS 15	
01	**Long Conversation Alarm** Turn off or on the Warning Tone for Long Conversation (not for SLTs)	0 = Off 1 = On	0	0	
02	**Long Conversation Cutoff (Incoming)** Turn off or on an extension's ability to use Long Conversation Cutoff for incoming calls.	0 = Off 1 = On	0	0	
03	**Long Conversation Cutoff (Outgoing)** Turn off or on an extension's ability to use Long Conversation Cutoff for outgoing calls.	0 = Off 1 = On	0	0	
04	**Call Forwarding/DND Override** Turn off or on an extension's ability to use Call Forwarding/ DND Override.	0 = Off 1 = On	1	1	
05	**Intercom Off Hook Signaling** Turn off or on an extension's ability to receive off hook signals.	0 = Off 1 = On	1	1	
06	**Automatic Off Hook Signaling** Allows a busy extension to manually (0) or automatically (1) receive off hook signals.	0= Manually 1= Automatically	1	1	
07	**Message Waiting** Turn off or on an extension's ability to leave Message Waiting.	0 = Off 1 = On	1	1	
08	**Conference** Turn off or on an extension's ability to initiate a conference or Meet Me Conference	0 = Off 1 = On	1	1	

Class of Service Options (Supplementary Service), Program 20-13					
Item No.	**Item**	**Input Data**	**Default**		**Related Programs**
			COS 01-14	**COS 15**	
09	**Privacy Release** Turn off or on an extension's ability to initiate a Voice Call Conference	0 = Off 1 = On	1	1	
10	**Barge In Mode** Enables the extension's Barge In to be speech mode (0) or Monitor mode (1).	0=Speech 1=Monitor	0	0	
11	**Room Monitor, Initiating Extension** Turn off or on an extension's ability to initiate Room Monitor	0 = Off 1 = On	0	0	
12	**Room Monitor, Extension Being Monitored** Turn off or on an extension's ability to be monitored	0 = Off 1 = On	0	0	
13	**Continued Dialing** Turn off or on an extension's ability to use Continued Dialing which allows DTMF signal sending while talking on extension.	0 = Off 1 = On	1	1	
14	**Department Calling** Turn off or on an extension's ability to call a Department Group.	0 = Off 1 = On	1	1	
15	**Barge In, Initiate** Turn off or on Barge In at the initiating extension.	0 = Off 1 = On	0	0	
16	**Barge In, Receive** Turn off or on Barge In at the receiving extension.	0 = Off 1 = On	0	0	
17	**Barge In Tone/Display** Use this option to turn off or on the Barge In tone. If on, callers hear an alert tone and their display indicates the Barge In when another extension barges into their conversation. If off, there is no alert tone or display indication.	0 = Off 1 = On	1	1	
18	**Programmable Function Key Programming (General Level)** Turn off or on an extension's ability to program their General function keys using Service Code 851 (by default). (Refer to Program 20-07-10 for Service Code 852.)	0 = Off 1 = On	1	1	
19	**Selectable Display Messaging** Turn off or on an extension's ability to use Selectable Display Messaging.	0 = Off 1 = On	1	1	
20	**Account Code/Toll Restriction Operator Alert** Turn off or on operator alert when an extension improperly enters an Account Code or violates Toll Restriction.	0 = Off 1 = On	0	0	

Program 20 : System Option Setup
20-13 : Class of Service Options (Supplementary Service)

Class of Service Options (Supplementary Service), Program 20-13					
Item No.	Item	Input Data	Default		Related Programs
			COS 01-14	COS 15	
21	**Extension Name** Turn off or on an extension's ability to program its name.	0 = Off 1 = On	1	1	
22	**Busy Status Display** Turn off or on the ability to display the detail state of called party.	0 = Off 1 = On	0	0	
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** Turn off or on a user's 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 -	-	0	0	
26	**Group Listen** Turn off or on an extension's 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** Turn off or on the ability of an extension's COS to be changed via Service Code 177.	0 = Off 1 = On	0	0	
29	**Paging Display** Turn off or on an extension's ability to display paging information.	0 = Off 1 = On	1	1	
30	**Background Music** In an extension's Class of Service, turn off or on an extension from turning Background Music on and off.	0 = Off 1 = On	1	1	
31	Connected Line Identification (COLP)	0 = Off 1 = On	0	0	
32	**Deny Multiple Barge Ins** Turn off or on the extension's ability to have multiple user's Barge In to their conversation.	0 = Off 1 = On	0	0	
33	**ACD Supervisor's Position Enhancement** This option must be on in order for the operator to use service codes in Program 11-13-10 through 11-13-13.	0 = Off 1 = On	0	0	11-13-10 ~ 11-13-13

Class of Service Options (Supplementary Service), Program 20-13					
Item No.	Item	Input Data	Default		Related Programs
			COS 01-14	COS 15	
34	**Block Manual Off Hook Signaling** Turn off or on an extension's ability to block off-hook signals manually sent from a co-worker.	0 = Off 1 = On	0	0	
35	**Block Camp On** Turn off or on an extension's ability to block callers from dialing 2 to Camp On.	0 = Off 1 = On	0	0	
36	**Call Duration Timer** In an extension's Class of Service, turn off or on an extension's Call Timer. The UX5000 waits until the interdigit timer (Program 21-01-01) expires before beginning this timer.	0 = Off 1 = On	0	0	
37	- Not Used -	-	0	0	
38	**Headset Ringing for SLT** In an extension's Class of Service, turn off or on a SLT extension's ability to use the Headset ringing.	0 = Off 1 = On	0	0	
39	**ACD Queue Status Display** Turn off or on the ACD Queue Status Display for an extension's Class of Service. Any extension which has this option enabled will also hear the queue alarm.	0 = Off 1 = On	0	0	
40	**Do Not Disturb** This option will allow or prevent the user from being able to use the Do Not Disturb feature.	0 = Off 1 = On	1	1	11-11-08 15-07-03
42	**Extension Data Swap** Determine if the Extension Data Swap feature is allowed for a user with the defined service code and password.	0 = Off 1 = On	1	1	11-15-12 92-05-01
44	**Call Screening** Determine if the Call Screening feature is allowed for a user using the defined service code.	0 = Off 1 = On	1	1	11-12-52 15-07-01, code 91
46	**Remote Conference** Enable (1) or disable (0) an extension's ability to place an intercom call to join a Remote Conference call.	0 = Off 1 = On	1	1	11-19 20-34

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-13 (Class of Service Options (Supplementary Service)):

1. Enter the programming mode.
2. 20 13

3. Enter the number of the item you want to program.

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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.

Note: 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

Class of Service Options (DISA/E&M Service), Program 20-14

Item No.	Item	Input Data	Default	
			COS 01-14	COS 15
01	**First Digit Absorption** 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	0
02	**Trunk Group Routing/ARS Access** This option enables or disables a DISA or tie trunk caller's ability to dial 9 for Trunk Group Routing or Automatic Route Selection (ARS).	0 = Off 1 = On	0	0
03	**Trunk Group Access** This option enables or disables a DISA or tie trunk caller's ability to access trunk groups for outside calls (Service Code 814).	0 = Off 1 = On	0	0
04	**Common Abbreviated Dialing** This option enables or disables a DISA or tie trunk caller's ability to use the UX5000's Common Abbreviated Dialing.	0 = Off 1 = On	0	0
05	**Operator Calling** This option enables or disables a DISA or tie trunk caller's ability to dial 0 for the UX5000 operator.	0 = Off 1 = On	0	0
06	**Internal Paging** This option enables or disables a DISA or tie trunk caller's ability to use the UX5000's Internal Paging.	0 = Off 1 = On	0	0
07	**External Paging** This option enables or disables a DISA or tie trunk caller's ability to use the UX5000's External Paging.	0 = Off 1 = On	0	0

Class of Service Options (DISA/E&M Service), Program 20-14				
Item No.	**Item**	**Input Data**	**Default**	
			COS 01-14	**COS 15**
08	**Direct Trunk Access** This option enables or disables a DISA or tie trunk caller's ability to use Direct Trunk Access (Service Code 815).	0 = Off 1 = On	0	0
09	**Forced Trunk Disconnect** <Not for ISDN T-point> This option enables or disables a tie trunk caller's ability to use Forced Trunk Disconnect (Service Code *26). This option is not available to DISA callers.	0 = Off 1 = On	0	0
10	**Call Forward Setting by Remote Via DISA** Enable or disable a DISA callers ability to use the Call Forward service codes (Programs 11-11-01 through 11-11-05).	0 = Off 1 = On	0	0
11	**DISA/Tie Trunk Barge In** This option enables or disables a DISA or tie trunk caller's ability to use the Barge In feature.	0 = Off 1 = On	0	0

Conditions

None

Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 20-14 (Class of Service Options for DISA/E&M):

1. Enter the programming mode.
2. 20 14

3. Enter the number of the item you want to program.

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-15 : Ring Cycle Setup

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

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

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

Number	Ringing Cycle
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

Terminal Programming Instructions

To enter data for Program 20-15 (Ring Cycle Setup):

1. Enter the programming mode.
2. 20 15

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-16 : Selectable Display Messages

Level:	Feature Availability
SA	• Available.

Description

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

Key for Entering Names	
When entering names in the procedures below, refer to this chart. Names can be up to 12 digits long.	
Use this keypad digit . . .	**When you want to. . .**
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Æ Ç É Ê ì ó 0
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 å ä ö ü α ε θ
*	Enter characters: * + , - . / : ; < = > ? ¼ ² σ ¾ × ¢ £
#	# = Accepts an entry (only required if two letters on the same key are needed - ex: T**OM**). Pressing # again = Space. (In UX5000 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.
CLEAR	Clear all the entries from the point of the flashing cursor and to the right.

Input Data

Selectable Display Message Number	01-20

Item No.	Text 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.

Program 20 : System Option Setup
20-16 : Selectable Display Messages

Feature Cross Reference

- Selectable Display Messages

Terminal Programming Instructions

To enter data for Program 20-16 (Selectable Display Messages):

1. Enter the programming mode.
2. 20 16

3. Enter the number of the item you want to program.

4. Enter the Text Message number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use Program **20-17 : Operator's 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 don't assign an extension in Program 90-11-01, UX5000 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 as operators.	Up to 8 digits	301	11-01 20-01-01
02	**Operator Console Mode** Determine if the operator's keyset will act as a normal keyset (0) or if keys 13-24 will be used for Personal Park of outside calls (1). With this option, an operator may not need a DSS Console.	0 = Normal keyset 1 = Special Operator Console	0	

Conditions

None

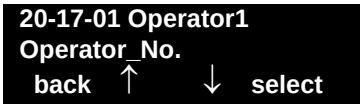
Feature Cross Reference

- Intercom

Terminal Programming Instructions

To enter data for Program 20-17 (Operator's Extension):

1. Enter the programming mode.
2. 20 17

3. Enter the number of the item you want to program.

4. Enter the operator number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-18 : Service Tone Timer** to set the values for the UX5000 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 keyset user has this interval 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 UX5000 resources run short. (such as DTMF receiver resources)	
04	Call Waiting Tone Timer	0-64800 seconds	10	This option sets the interval between Call Waiting tones. This timer also sets the interval between Off Hook Signaling alerts.	
05	Keyset Confirmation Tone	0-64800 seconds	10		
06	Interval of call waiting tone	0-64800 seconds	10	Determine the interval between Call Waiting tones. If set to “0”, the tone will only be heard once.	
07	Intrusion Tone Repeat Time	0-64800 seconds	0	After a call is interrupted (such as Barge In, Voice Mail Conversation Recording, Voice Over, etc), the UX5000 repeats the Intrusion Tone after this interval. Normally, you should enter 0 to disable this interval.	
08	Conference Tone Interval	0-64800 seconds	0		

09	Incoming Warning Beep Tone Signaling Interval	0-64800 seconds	60	When an incoming trunk is set to use the warning tone, define the interval between the tones. The warning tones continue, spaced by this interval, until the user hangs up.	14-01-18

Conditions

None

Feature Cross Reference

- Distinctive Ringing, Tones, and Flash Patterns

Terminal Programming Instructions

To enter data for Program 20-18 (Service Tone Timers):

1. Enter the programming mode.
2. 20 18

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-19 : System Options for Caller ID** to define the UX5000 options for the Caller ID feature.

Input Data

Item No.	Item	Input Data	Default	Related Programs
01	**Caller ID Displaying Format if Displaying Digits are more than 12 digits.** When Caller ID has more than 12 digits, determine which digits should be shown - the first 10 (0) or the last 10 (1).	0 = First 10 digits 1 = Last 10 digits	0	
02	**Caller ID Wait Timer** When an incoming CO call is received, the UX5000 starts the timer. It will wait the programmed time for Caller ID information from telco before connecting the CO call.	0-30 seconds	5	
03	**Caller ID Edit Mode** If Caller ID Edit Mode is disabled (0), no trunk access code will be added to the Caller ID. If this option is enabled (1), the trunk access code entered in Program 10-02-05 will be added to the beginning of the Caller ID.	0 = off 1 = on	0	
04	**Wait Facility IE Timer** This timer is used with ISDN trunks to determine how long the UX5000 will wait for the Caller ID name from the telco.	0-64800 seconds	10	
05	**Caller ID Sender Queuing Timer** With the Caller ID Sender Queuing feature, determine how long an incoming call will wait in queue for a DSP resource to become available. If a resource becomes available during this time, the call will immediately ring the SLT with Caller ID. If the timer expires before a resource becomes available, then UX5000 rings the single line terminal without Caller ID (until the timer expires, the SLT will not ring). If the queuing timer is set to "0", the UX5000 does not queue the incoming call.	0-64800 seconds	0	
06	**- Not Used -**	-	-	
07	**Long Distance Code** With the Caller ID feature, use this option to define the digit(s) to be added which are required for dialing a long distance number. For example in the number "1-203-926-5400", "1" is the long distance code.	2 Digits (0-9)	1	15-02-15 20-09-02 15-07-01

08	**Area Code** With the Caller ID feature, use this option to define the area code which will be deleted when using the Edit Caller ID List feature to edit a number.	6 Digits (0-9)	-	15-02-15 20-09-02 15-07-01

Conditions

None

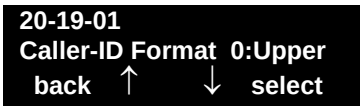
Feature Cross Reference

- Caller ID

Terminal Programming Instructions

To enter data for Program 20-19 (System Options for Caller ID):

1. Enter the programming mode.
2. 20 19



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-20 : Message Setup for Non-Caller ID Data** to define the messages which will be 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 CALL INFO

Conditions

None

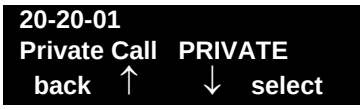
Feature Cross Reference

- Caller ID

Terminal Programming Instructions

To enter data for Program 20-20 (Message Setup for Non-Caller ID Data):

1. Enter the programming mode.
2. 20 20



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-21 : System Options for Long Conversation

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-21 : System Options for Long Conversation** to define the UX5000 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 interval.	0-64800 seconds	170	14-01-15
02	**Long Conversation Alarm 2** After the initial long toll call warning tone, additional warning tones sound after this interval.	0-64800 seconds	180	14-01-15
03	**Long Conversation Cutoff for Incoming Call** This timer determines how long the UX5000 will wait before disconnecting an incoming call.	0-64800 seconds	0	14-01-14
04	**Long Conversation Cutoff for Outgoing Call** This timer determines how long the UX5000 will wait before disconnecting an outgoing call.	0-64800 seconds	0	14-01-14

Conditions

None

Feature Cross Reference

- Long Conversation Cutoff

Terminal Programming Instructions

To enter data for Program 20-21 (System Options for Long Conversation):

1. Enter the programming mode.
2. 20 21

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-22 : System Options for IP DECT Service

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-22 : System Options for IP DECT Service** to define the time the UX5000 waits before determining the IP DECT terminal is out of range. For incoming calls, the timer begins when the call is received. If the time defined here expires before the IP DECT terminal starts to ring, the UX5000 determines the terminal 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.	Description	Input Data	Default	Related Program
05	- Not Used -			
06	**Out of Area Talkie Setting** Use this option to determine which VRS message is played when the IP DECT terminal is out or range.	0-100	0	

Conditions

None

Feature Cross Reference

- IP DECT

Terminal Programming Instructions

To enter data for Program 20-22 (System Options for IP DECT Service):

1. Enter the programming mode.
2. 20 22

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-23 : System Options for CTI

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-23 : System Options for CTI** to define the UX5000 options for the CTI feature.

Input Data

Item No.	Item	Input Data	Default
01	**Delayed Ring Timer for CTI** TRK PORT is an effective timer according to demand (lineDevSpecific) by TAPI at Trunk-Start. The outside line PORT on the TAPI application maintains state (OFFERING) of arrival of a message, and waits for the demand from the CTI server with the outside line arrival of a message. However, if the time-out is done though there is no demand, it becomes general arrival of a message.	0-64800 seconds	30
02	**ALERT Replay Time (CTI)** TRK PORT is an effective timer according to demand (lineDevSpecific) by TAPI at Trunk-Start. The outside line PORT on the TAPI application maintains state (OFFERING) of arrival of a message at the ISDN arrival of a message, and ALERT is returned to the net after the time-out when there is no demand from the CTI server.	0-64800 seconds	8
03	**Trunk Virtual Bridge - TSP Driver** Enable or disable the UX5000's ability to send trunk or virtual extension information to the TSP driver.	0 = Disable 1 = Enable	0
04	**Off-Hook Ring for SLT** Set the timer which waits for an off-hook for SLT (lineMakeCall) using TAPI.	0-64800 seconds	30

Conditions

None

Feature Cross Reference

- Computer Telephony Integration (CTI) Applications

Terminal Programming Instructions

To enter data for Program 20-23 (System Options for CTI Service):

1. Enter the programming mode.
2. 20 23

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-25 : ISDN Options

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-25 : ISDN Options** to define the ISDN UX5000 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 the First Digit (Overlap Sending Mode)** With Overlap Sending Mode, if the network side stops dial tone when CLI is included in the SETUP message, the UX5000 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 Low Layer Compatibility (LLC)	0 = Disable 1 = Enable	1
09	Use of High Layer Compatibility (HLC) Sending	0 = Disable 1 = Enable	1
10	S-Point Terminal Seizes Analog Trunk	0 = Disable 1 = Enable	1
11	Automatic Changing UX5000 Clock When Date/Time Information Element Received	0 = Disable 1 = Enable	0
12	Incoming Calls Forwarded Out Automatically Return Connect Message When Outgoing Call Receives Alerting Message	0 = Disable 1 = Enable	0

13	Busy Tone Mode	0 = Disable 1 = Enable	0
14	**Operation Mode When Second T303 Timer Expires** This option can be used to determine whether or not a release message is sent when the second T303 timer expires.	0 = Normal 1 = Send Release Message	0

Conditions

None

Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 20-25 (ISDN Options):

1. Enter the programming mode.
2. 20 25

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-28 : System Option for Trunk to Trunk Conversations

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-28 : System Option for Trunk to Trunk Conversations** to define the conversation continue/disconnection options.

Input Data

Item No.	Item	Input Data	Default	Related Programs
01	**Conversation Continue Code** When Program 14-01-25 is enabled, determine the 1-digit code the user should dial to extend the conversation length for the time defined in 20-28-03. If the Continue and Disconnect codes are programmed the same (e.g., #), the UX5000 will follow the "Continue" operation. Using the Continue code before the warning tone is heard has no action.	0 - 9, *, #	No Setting	14-01-25 20-28-03 24-02-07 24-02-10 25-07-07 25-07-08
02	**Conversation Disconnect Code** When Program 14-01-25 is enabled, determine the 1-digit code the user should dial to immediately disconnect their call. Using the Disconnect code before the warning tone is heard will disconnect the call.	0 - 9, *, #	No Setting	14-01-25 24-02-07 24-02-10 25-07-07 25-07-08
03	**Conversation Extend Time** When Program 14-01-25 is enabled, determine the length of time a call will be extended when the user dials the Continue code (defined in 20-28-01).	0 - 64800 (seconds)	0	14-01-25 20-28-01 24-02-07 24-02-10 25-07-07 25-07-08

Conditions

None

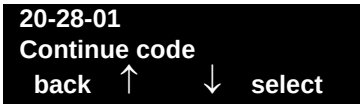
Feature Cross Reference

- Direct Inward System Access (DISA)
- Tandem Trunking (Unsupervised Conference)

Terminal Programming Instructions

To enter data for Program 20-28 (System Option for Trunk to Trunk Conversations):

1. Enter the programming mode.
2. 20 28



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-29 : Timer Class for Extensions

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-29 : Timer Class for Extensions** to assign a Timer Class of Service to an extension. You make 8 entries for this program - one for each Night Service Mode. This entry can also be used for virtual extension numbers.

Input Data

Extension Number	Max. 8 digits

Item No.	Day/Night Mode	Class Number	Default	Related Program
01	1-8	0-15 (0=Uses system-wide timer)	0	20-30-01 20-31

Conditions

None

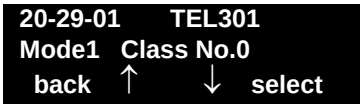
Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-29 (Timer Class for Extensions):

1. Enter the programming mode.
2. 20 29



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-30 : Timer Class for Trunks

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-30 : Timer Class for Trunks** to assign a Timer Class of Service to a trunk. You make 8 entries for this program - one for each Night Service Mode.

Input Data

Trunk Numbers	001-200

Item No.	Day/Night Mode	Class Number	Default	Related Program
01	1-8	0-15 (0=Uses system-wide timer)	0	20-29-01 20-31

Conditions

None

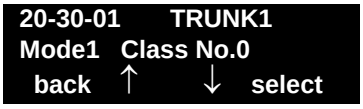
Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-30 (Timer Class for Trunks):

1. Enter the programming mode.
2. 20 30



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-31 : Timer Data

Level:	Feature Availability
IN	• Available.

Description

Use **Program 20-31 : Timer Data** to assign the time entry for each timer. These timers are used when a class is set with an entry from 1 to 15 in Program 20-28-01 and 20-29-01. When the timer class is set to 0, the system-wide timer is used instead.

Input Data

Timer Class of Service	1-15

Class of Service Timer Data, Program 20-31

Item	Default: Class 0 Follows Program	Type	Timer	Default	Input Data
01	20-01-08	Extension Timer Class of Service	**Trunk Queuing Callback Duration Time** Trunk Queuing callback rings an extension for this interval.	15	0-64800
02	20-01-09	Extension Timer Class of Service	**Callback / Trunk Queuing Cancel Time** The UX5000 cancels an extension's Callback or Trunk Queuing request after this interval.	64800	0-64800
03	20-04-03	Extension Timer Class of Service	**Call Coverage Delay Interval Time** (Virtual Extension Key) If Call Coverage Keys are set for Delayed Ringing (Program 15-11), the call rings the covering extension after this interval.	10	0-64800
04	21-01-02	Extension Timer Class of Service and Trunk Timer Class of Service	**Intercom Interdigit Time** When placing Intercom calls, users must dial each digit within this interval.	10	0-64800
05	21-01-03	Extension Timer Class of Service and Trunk Timer Class of Service	**Trunk Interdigit Time** When placing CO calls, users must dial each digit within this interval.	5	0-64800
06	21-01-09	Extension Timer Class of Service	**Hotline Time Start Time** A Ringdown extension automatically calls its programmed destination after this interval.	5	0-64800

Class of Service Timer Data, Program 20-31					
Item	**Default: Class 0 Follows Program**	**Type**	**Timer**	**Default**	**Input Data**
07	22-01-03	Trunk Timer Class of Service	**Ring No Answer Alarm Time** If a trunk rings a key terminal longer than this interval, the UX5000 changes the ring cadence. This indicates to the user that the call has been ringing too long.	60	0-64800
08	22-01-04	Trunk Timer Class of Service	**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	0-64800
09	22-01-06	Trunk Timer Class of Service	**DID Ring-No-Answer Time** In UX5000s 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.	20	0-64800
10	24-01-01	Extension Timer Class of Service and Extension's Class of Service	**Hold Recall Time (Non exclusive Hold)** A call on Hold recalls the extension that placed it on Hold after this interval.	90	0-64800
11	24-01-02	Extension's Class of Service	**Hold Recall CallBack Time (Non exclusive Hold)** A trunk recalling from Hold an extension for this interval.	30	0-64800
12	24-01-03	Extension Timer Class of Service and Extension's Class of Service	**Exclusive Hold Recall Time** A call on Hold recalls the extension that placed it on Hold after this interval.	90	0-64800
13	24-01-04	Extension's Class of Service	**Exclusive Hold Recall Callback Time** An Exclusive Hold Recall rings an extension for this interval. If not picked up, the call goes back on non-exclusive Hold.	30	0-64800
14	24-01-06	Extension Timer Class of Service and Extension's Class of Service	**Park Hold Time – Normal** A call left parked longer than this interval recalls the extension that initially parked it.	90	0-64800
15	24-02-03	Extension Timer Class of Service	**Delayed Call Forwarding Time** If activated at an extension, No Answer Call Forwarding occurs after this interval.	10	0-64800

Class of Service Timer Data, Program 20-31					
Item	**Default: Class 0 Follows Program**	**Type**	**Timer**	**Default**	**Input Data**
16	24-02-04	Extension Timer Class of Service and Extension's Class of Service which performed the blind transfer	**Transfer Recall Time** A blind transferred call recalls to the extension that initially transferred it after this interval.	30	0-64800
17	25-07-02	Trunk Timer Class of Service	**DID/DISA No Answer Time (Disconnect or IRG or VM)** After this interval expires, the call follows the programmed Ring No Answer routing (set in Program 25-04).	30	0-64800
18	25-07-03	Trunk Timer Class of Service	**Disconnect after Re-transfer to IRG** Disconnect after re-transfer to Incoming Ring Group.	60	0-64800
19	25-07-07	Trunk Timer Class of Service	**Long Conversation Warning Tone Time (Trunk to Trunk)** Determine the length of time trunk-to-trunk conversation can talk before the Long Conversation tone is heard.	180	0-64800
20	25-07-08	Trunk Timer Class of Service	**Long Conversation Disconnect (Trunk to Trunk)** This timer determines how long the UX5000 will wait before disconnecting a trunk-to-trunk conversation call after the Long Conversation tone is heard.	10	0-64800
21	25-07-09	Trunk Timer Class of Service	**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 interval, the UX5000 terminates the DISA call. Use for analog trunks only.	30	0-64800
22	25-07-10	Trunk Timer Class of Service	**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 interval, the UX5000 terminates the DISA call. Use for analog trunks only.	30	0-64800
23	31-01-02	Extension Timer Class of Service and Trunk Timer Class of Service	**Page Announcement Duration** This timer sets the maximum length of External Page announcements. *Not used for analog trunks (use item 22 above instead).*	1200	0-64800

Conditions

None

Feature Cross Reference

- Class of Service

Terminal Programming Instructions

To enter data for Program 20-31 (Timer Data):

1. Enter the programming mode.
2. 20 31

   20-31-01 TImer Class1
   nnnnn
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   20-31-nn TImer Classx
   nnnnn
   ← – + →

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 20 : System Option Setup
20-34 : Remote Conference Group Setup

Level:	Feature Availability
SA	• Available.

Description

Use **Program 20-34 : Remote Conference Group Setup** to define the Remote Conference options.

Input Data

Item No.	Item	Input Data	Default
01	**Conference Name** Enter the name displayed at the time of a Remote Conference. This entry will display on the keyset LCD.	Up to 12 characters	Group 1 = Conf 1 Group 2 = Conf 2 Group 3 = Conf 3 Group 4 = Conf 4
02	**Password** Define the password of a Remote Conference.	4 (fixed) (0-9,@=wild character)	Group 1 = 1111 Group 2 = 2222 Group 3 = 3333 Group 4 = 4444
03	**Max Participants** Define the maximum number of participants of a Remote Conference.	0-32	8
04	**Max Conference Duration** Define the maximum duration of a Remote Conference. When this time passes, the conference is disconnected by the UX5000.	0-64800 seconds	7200
05	**End Tone Alert Time** Determine how long prior disconnecting a Remote Conference call (based on the maximum conference duration above) the UX5000 should send out a beep. This is used to warn the conference participants of the pending disconnect.	0-64800 seconds	300

Conditions

None

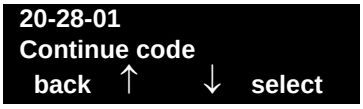
Feature Cross Reference

- Conference, Remote

Terminal Programming Instructions

To enter data for Program 20-28 (System Option for Trunk to Trunk Conversations):

1. Enter the programming mode.
2. 20 28



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 21 : Outgoing Call Setup
21-01 : System Options for Outgoing Calls

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-01 : System Options for Outgoing Calls** to set the UX5000 options for Outgoing Call Service.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Seizure Trunk Line Mode** Determine if trunks are seized based on priority (set in Program 14-05/14-06) or if by next available (longest free).	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 within this interval.	0-64800 Seconds	10	20-31-04
03	**Trunk Interdigit Time (External)** The UX5000 waits for this timer to expire before placing the call in a talk state (Call Timer starts after timer expires, Voice Over and Barge-In are not allowed until after timer expires). If set to "0", Voice Over and Barge In will not work for external calls. This timer affects CO and PRI outdialing.	0 = Disabled 1-64800 Seconds	5	14-02-08 20-31-05
04	**Dial Tone Detection Time** If dial tone detection is enabled, the UX5000 will wait this interval for the Telco to return dial tone. When the interval expires, the UX5000 assumes dial tone is not present. To disable this timer (and have the UX5000 wait continuously), enter 0. This timer is also used to determine the time allowed between Account Code digit entry.	0-64800 Seconds	5	14-02-05 35-05-01
05	**Disconnect Time** The UX5000 waits for this timer to expire before disconnecting a call when dial tone is not detected.	0-64800 Seconds	3	
06	**Dial Pause at First Digit** Before outdialing the first digit, the UX5000 waits this interval before outdialing a user's first manually-dialed digit. Additional digits outdial without delay.	0-64800 Seconds	1	14-02-06

Item No.	Item	Input Data	Default	Related Program
07	**Toll Restriction Override Time** After dialing the Toll Restriction Override codes, the UX5000 removes Toll Restriction from the extension for this interval.	0-64800 Seconds	10	20-08-06 21-07
08	Preset dial display hold time	0-64800 Seconds	10	20-08-09 21-11
09	**Ringdown Extension Timer** A Ringdown extension automatically calls its programmed destination after this interval.	0-64800 Seconds	5	20-08-09 20-31-06 21-11
10	**Dial Digits for Toll Restriction Path** If this option is programmed with an entry other than "0", a call will not have a talk path for the time defined in 21-01-11 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 will cause a problem when dialing 911. Since it is only a 3-digit number, the call will not have a talk path, preventing the emergency dispatcher from hearing the caller. It is recommended that this option be kept at its default setting of "0" to prevent any problems with dialing 911.	0-24	0	21-01-11
11	**Inter-Digit Time for Toll Restriction Path Control** For analog trunks only, if a user does not dial the minimum number of digits for an outgoing call (as defined in 21-01-10), determine how long the talk path will be delayed for the call. The transmit speech path is disconnected to prevent a user from placing a DTMF tone dialler to the mic and bypassing Toll Restriction and SMDR.	0-60	0	21-01-10
12	**Dial 911 Routing Without Trunk Access** If enabled (1), an extension user can dial 911 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.	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 will ring for 60 seconds.	0, 1-64800 Seconds (0 = 60 Seconds)	0	11-12-56 20-08-16
14	**Forced Account Code Inter-digit Timer** The UX5000 waits this interval for a user to enter a Forced Account code.	0-64800 Seconds	3	

Program 21 : Outgoing Call Setup
21-01 : System Options for Outgoing Calls

Item No.	Item	Input Data	Default	Related Program
15	**Outgoing Disable on Incoming Line** Enable or disable the Outgoing Disable on Incoming Line feature.	0 = Disable 1 = Enable	0	15-01-05 21-01-16 21-01-17 80-03-01
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 UX5000 determines the call is unable to complete and releases the DTMF receiver.	0-64800 Seconds	20	15-01-05 21-01-15 21-01-17 80-03-01
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 80-03-01

Conditions

None

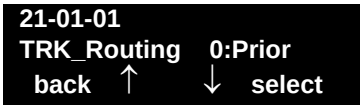
Feature Cross Reference

- Central Office Calls, Placing

Terminal Programming Instructions

To enter data for Program 21-01 (System Options for Outgoing Service):

1. Enter the programming mode.
2. 21 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Extension Number	Max. 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

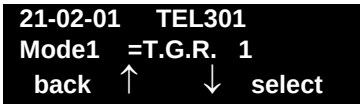
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 21-02 (Trunk Group Routing for Extensions):

1. Enter the programming mode.
2. 21 02



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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	1-200

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

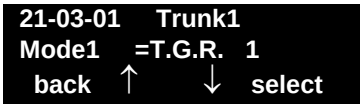
Feature Cross Reference

- Trunk Group Routing

Terminal Programming Instructions

To enter data for Program 21-03 (Trunk Group Routing for Trunks):

1. Enter the programming mode.
2. 21 03



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Extension Number	Max. 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

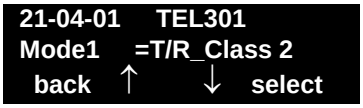
Feature Cross Reference

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 21-04 (Toll Restriction Class for Extensions):

1. Enter the programming mode.
2. 21 04



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-05 : Toll Restriction Class** to set the UX5000's Toll Restriction classes (1-15).

Input Data

Toll Restriction Class Number	1-15

Item No.	Item	Input Data	Description	Related Program
01	International call restriction table	0 = Unassigned 1 = Assigned	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 1 = Assigned	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	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 1 = Assigned	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 1 = Assigned	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	Set the tables 1-4 when referring to the table set up by 21-06-06.	21-06-06
08	Restriction table	1-4 = Table 0 = Disable	Set the tables 1-4 when referring to the table set up by 21-06-07.	21-06-07
09	Restriction for common abbreviated dials	0 = Does not restrict 1 = Following restriction check	Use this option to enable/disable Toll Restriction for Common Abbreviated Dialing numbers. If enabled, Common Abbreviated Dialing numbers have the same restrictions as manually dialed numbers.	
10	Restriction for group abbreviated dials	0 = Does not restrict 1 = Following restriction check	Use this option to enable/disable Toll Restriction for Group Abbreviated Dialing numbers. If enabled, Group Abbreviated Dialing numbers have the same restrictions as manually dialed numbers.	

Program 21 : Outgoing Call Setup
21-05 : Toll Restriction Class

Item No.	Item	Input Data	Description	Related Program
11	Intercom Call Restriction	0 = Disable 1 = Enable	This option determines whether an ICM incoming call is restricted.	
12	PBX Call Restriction	0 = Disable 1 = Enable	Use this option to set how the UX5000 Toll Restricts calls over PBX trunks. If you enable PBX Toll Restriction, the UX5000 begins Toll Restriction after the PBX access code. The user cannot dial a PBX extension. If you disable PBX Toll Restriction, the UX5000 only restricts calls that contain the PBX access code. The UX5000 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 1 = Enable	It chooses whether the toll restriction of the dial set up by 34-08 is enabled or disabled.	34-08
14	Restrict Trunk Transfer for Incomplete Dial	-	***- Not Used in U.S. -***	
15	Restrict Common Hold for Incomplete Dial	-	***- Not Used in U.S. -***	

Default

	Item No														
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Class No. 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Class No. 2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
Class No. 3	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0
Class No. 4	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0
Class No. 5	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0
Class No. 6	1	1	1	0	1	1	0	0	1	1	0	0	0	0	0
Class No. 7	1	1	1	0	1	1	0	0	1	1	1	0	0	0	0
Class No. 8	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
:	:	:	:	:	:	:	:	:	:	:	:	:	:	0	0
Class No. 15	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0

Conditions

None

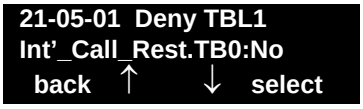
Feature Cross Reference

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 21-05 (Toll Restriction Class):

1. Enter the programming mode.
2. 21 05



3. Enter the number of the item you want to program.

4. Enter the Deny Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 21 : Outgoing Call Setup
21-06 : Toll Restriction Table Data Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-06 : Toll Restriction Table Data Setup** to set the UX5000's Toll Restriction data. Dial 1-9, 0, *, # can be entered in each table.

Note: The item numbers indicated below are different when using PCPro/WebPro due to the window layout of the applications. Refer to the program within the PCPro/WebPro application to determine the correct item number.

Input Data

Item No.	Item	Table	Input Data	Default
01	**International Call Restriction Table** This option lets you program the Restrict Table for international calls. The UX5000 has 10 International Call Restrict Tables. Each entry can be up to four digits long.	1-10	Dial (Up to 4 digits)	Table 1-10 = No Setting
02	**International Call Permit Code Table** This option lets you program the Permit Table for international calls. The UX5000 has 20 International Call Permit Table. Each entry can be up to six digits long, using.	1-20	Dial (Up to 6 digits)	No Setting
03	**Maximum Number Digits Table Assignment** This option selects the maximum number of digits allowed in outgoing calls for each table.	1-4	4-30	Tables 1 - 4 = 30
04	**Common Permit Code Table** This option lets you program the Common Permit Code Table. This table contains up to 10 codes you commonly allow users to dial.	1-10	Dial (Up to 4 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
05	**Common Restriction Table** This option lets you program the Common Restrict Code Table. This table contains up to 10 codes you commonly prevent users from dialing.	1-10	Dial (Up to 12 digits)	Table 1 = 900 Table 2 = 1900 Table 3 = 976 Tables 4 = 10 = No Setting

Item No.	Item	Table	Input Data	Default
06	**Permit Code Table** This option lets you program the Permit Code Tables. If the UX5000 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 UX5000 permits calls exactly as you enter the code.	1-4 (table) 1-60 (Entry)	Dial (Up to 12 digits)	Table 1 - 4 = No Setting
07	**Restriction Table** This option lets you program the Restrict Code Tables (21-06-05). If the UX5000 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 UX5000 restricts calls exactly as you enter the code.	1-4 (table) 1-60 (Entry)	Dial (Up to 12 digits)	Table 1 - 4 = No Setting
08	**PBX Access Code** Use this option to enter the PBX Access Code. When the UX5000 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 UX5000 only Toll Restricts calls that contain the access code. Always program this option when the UX5000 is behind a PBX, even if you don't want to use Toll Restriction. PBX Access Codes can be up to 2 digits, using 0-9, #, * and LINE KEY 1 (don't care). When using Account Codes, do not use an asterisk within a PBX access code. Otherwise, after the *, the trunk would stop sending digits to the central office. Entries 1-4 correspond to the 4 PBX Access Codes. Each code can have up to 2 digits.	1-4	Dial (Up to 2 digits)	Table 1 - 4 = No Setting
09	**Specific Dial Outgoing Code** This option can be used to exempt digits from toll restriction. The digits entered in this option will bypass the toll restriction programming. The digits to be exempt can be positioned before or after the entry in Program 21-06-10.	1-20	Dial (Up to 8 digits)	No Setting
10	**Outgoing Call Code Setup** This option can be used to exempt digits from toll restriction. The digits entered in this option will bypass the toll restriction programming. This is similar to Program 21-06-09, however, these digits must be first. For example, if a UX5000 restricts international dialing (011), it could be possible to allow the UX5000 to dial 1010XXX + 011 or *67 + 011. In order to dial *67 + 1010XXX + 011, *67 would be entered in Program 21-06-10 and 1010XXX would be entered in Program 21-06-09.	1-20	Dial (Up to 4 digits)	No Setting

Conditions

None

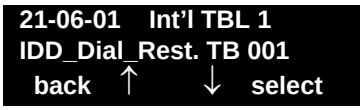
Feature Cross Reference

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 21-06 (Toll Restriction Table Data Setup):

1. Enter the programming mode.
2. 21 06

3. Enter the number of the item you want to program.

4. Enter the International Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
SA

Feature Availability
• Available.

Description

Use **Program 21-07 : Toll Restriction Override Password Setup** to assign Toll Restriction Override codes to extensions. Each code must be four digits long, 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	Max. 8 digits

Item No.	Password	Default	Related Program
01	4 digits fixed	No setting	11-11-34 21-01-07 20-08-06

Conditions

None

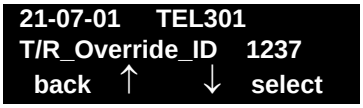
Feature Cross Reference

- Toll Restriction Override

Terminal Programming Instructions

To enter data for Program 21-07 (Toll Restriction Override Password Setup):

1. Enter the programming mode.
2. 21 07



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Repeat Redial Count** Set how many times a Repeat Redial will automatically repeat if the call does not go through.	0-255	3	
02	**Repeat Redial Interval Time** This timer sets the interval between Repeat Redial attempts.	0-64800	60	
03	**Repeat Dial Calling Timer** After dialing the trunk call, Repeat Redial maintains the call after this interval. After this interval, the UX5000 terminates the call, waits the Repeat Redial Time (Timer 02) and tries again.	0-64800	30	
04	**Time for Send Busy Tone for ISDN Trunk** Set the timer (sec) to send out Busy Tone with an ISDN line, when called party is in busy.	0-64800	0	

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 21-08 (Repeat Dial Setup):

1. Enter the programming mode.
2. 21 08

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 21-09 (Dial Block Setup):

1. Enter the programming mode.
2. 21 09

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-10 : Dial Block Restriction Class Per Extensions** 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	Max. 8 digit

Item No.	Toll Restriction Class	Default
01	0,1-15 (0:No Setting)	0 (No Setting)

Conditions

None

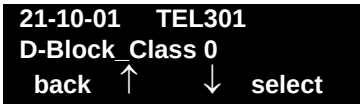
Feature Cross Reference

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 21-10 (Dial Block Restriction Class Per Extensions):

1. Enter the programming mode.
2. 21 10



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Extension Number	Max. 8 digits

Item No.	Description	Hotline Destination Number	Default	Related Program
01	When Hotline is used, define the destination to ring when the handset is lifted. With outside numbers, be sure to include any required trunk access codes.	0, *, #, Pause, Hook Flash, @ (Code to wait for a response) (Max. 24 digits)	No setting	20-08-09 21-01-09

Conditions

None

Feature Cross Reference

- Ringdown Extension

Terminal Programming Instructions

To enter data for Program 21-11 (Extension Ringdown (Hotline) Assignment):

1. Enter the programming mode.
2. 21 11

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 UX5000 sends the calling number for the ISDN trunk defined in 21-12.

Note: If the Calling Party Number is assigned in both Programs 21-12 and 21-13, the UX5000 sends the data in Program 21-13.

Input Data

Trunk Port Number	1-200

Item No.	Calling Party Number Data	Default
01	1-0, *, # (Max. 16 digits)	No setting

Conditions

None

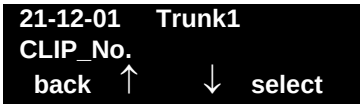
Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 21-12 (ISDN Calling Party Number Setup for Trunks):

1. Enter the programming mode.
2. 21 12



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 21-12), the UX5000 sends the calling number for the ISDN trunk defined in Program 21-13.

Note: If a Calling Party Number is assigned in both Programs 21-12 and 21-13, the UX5000 sends the data in Program 21-13.

Input Data

Extension Number	Max. 8 digits

Item No.	Calling Party Number Data	Default
01	1-0, *, # (Max. 16 digits)	No setting

Conditions

None

Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 21-13 (ISDN Calling Party Number Setup for Extensions):

1. Enter the programming mode.
2. 21 13

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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 (6 digits)	No setting
02	Walking Toll Restriction Class Number	1-15	1

Conditions

None

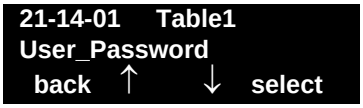
Feature Cross Reference

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 21-14 (Walking Toll Restriction Password Setup):

1. Enter the programming mode.
2. 21 14



3. Enter the number of the item you want to program.

4. Enter the ID Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-15 : Individual Trunk Group Route for Extensions** to designate the alternate trunk access route accessed when a user dials the Alternate Trunk Route Access Code. Refer to Program 11-09-02 : Alternate Trunk Access Code when setting up alternate trunk codes. Turn to Program 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	Max. 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

Terminal Programming Instructions

To enter data for Program 21-15 (Individual Trunk Group Routing for Extensions):

1. Enter the programming mode.
2. 21 15

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

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

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

Input Data

System ID	01-50

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

Conditions

None

Feature Cross Reference

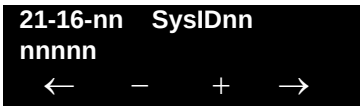
- Central Office Calls, Placing
- Networking - CygniLink
- Networking - AspireNet

Terminal Programming Instructions

To enter data for Program 21-16 (Trunk Group Routing for Networks):

1. Enter the programming mode.
2. 21 16

3. Enter the number of the item you want to program.



4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

21-17 : IP (H.323/SIP) Trunk Calling Party Number Setup for Trunks

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-17 : IP (H.323/SIP) Trunk Calling Party Number Setup for Trunks** to allow for the Calling Party Number to be displayed for IP trunks when the VoIP feature is used:

Input Data

Trunks	1-200

Item	Description	Input Data	Default	Related Program
01	**Party Number** Enter the Calling Party Number to be displayed for each IP trunk used. The assigned number is sent to the central office when the caller places an outgoing call. If the calling Party Number is assigned by both 21-17 and 21-18/21-19, then the UX5000 uses the entry in 21-18/21-19.	16 digits maximum (1-9, *, #)	No Entry	21-18 21-19

Conditions

None

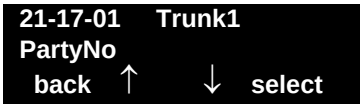
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 21-17 (IP (H.323/SIP) Trunk Calling Party Number Setup for Trunks):

1. Enter the programming mode.
2. 21 17



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-18 : IP Trunk Calling Party Number Setup for Extensions** to allow for the Calling Party Number to be displayed for IP extensions when the VoIP feature is used:

Input Data

Extensions	301 - 5312 (Up to 8 digits)

Item	Description	Input Data	Default	Related Program
01	**Party Number** Enter the Calling Party Number to be displayed for each IP extension used. If the calling Party Number is assigned by both 21-17 and 21-18/21-19, then the UX5000 uses the entry in 21-18/ 21-19.	16 digits maximum	No Entry	21-17 21-19

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 21-18 : IP (H.323) Trunk Calling Party Number Setup for Extensions):

1. Enter the programming mode.
2. 21 18

3. Enter the number of the item you want to program.

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-19 : IP (SIP) Trunk Calling Party Number Setup for Extensions** to allow for the Calling Party Number to be displayed for IP extensions when the VoIP feature is used:

Input Data

Extensions	301 - 5312 (Up to 8 digits)

Item	Description	Input Data	Default	Related Program
01	**Party Number** Enter the Calling Party Number to be displayed for each IP extension used. The assigned number is sent to the central office when the caller places an outgoing call. If the Calling Party Number is assigned by both Program 21-17 and 21-18/ 21-19, then the UX5000 uses the data in Program 21-18/21-19.	16 digits maximum	No Entry	20-08-13 21-17 21-18

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 21-19 : IP (SIP) Trunk Calling Party Number Setup for Extensions):

1. Enter the programming mode.
2. 21 19

3. Enter the number of the item you want to program.

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 21-21 : Toll Restriction Class for Trunks** to assign a Toll Restriction level to each trunk.

When both an extension (21-04-01) and a trunk (25-11-04 / 34-04-01) have a Toll Restriction level assigned, the higher class will apply for outgoing calls. For example:

- When a trunk is set to class 1 and an extension is class 02, Toll Restriction class 02 is applied to the outgoing call.
- When a trunk is set to class 15 and an extension is class 03, Toll Restriction class 15 is applied to the outgoing call.

This feature can be used for any type of extension (real or virtual) and using any type of terminal (keyset, SLT, etc.). When virtual extensions are to be used, Program 15-02-21 must be set to "1" to allow outgoing calls on a virtual/Call Coverage key.

The details of the trunk toll restriction are defined in Program 21-05 and 21-06.

Input Data

Trunk Port Number	001-200
Night Mode	1-9 Nine (Power failure mode at power failure mode)

Item	Description	Input Data	Default	Related Program
01	**Toll Restriction Class** For each trunk, assign a Toll Restriction Class (1-15) for each Day/Night Service mode. *When Program 14-01-08 is set to "0", the toll restriction class is not followed.*	01-15	1	14-01-08 21-05

Conditions

- For DISA and Tie Line Trunks are used, the restriction class for the incoming trunk is compared to the restriction class of the outgoing trunk.
  When a trunk makes an outgoing call, the restriction class of the incoming trunk (Program 21-21-01) is compared to the restriction class of the outgoing trunk. The higher class will be used for outgoing calls.
  DISA Trunk (22-02-01 is set to "2") - Program 25-11-01 is compared to 21-21-01.
  Tie Line Trunk (22-02-01 is set to "5") - Program 34-04-01 is compared to 21-21-01.

Program 21 : Outgoing Call Setup
21-21 : Toll Restriction Class for Trunks

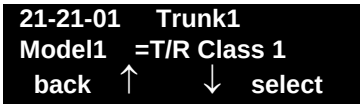
Feature Cross Reference

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 21-21 : Toll Restrction Class for Trunks:

1. Enter the programming mode.
2. 21 21



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 22 : Incoming Call Setup
22-01 : System Options for Incoming Calls

Level:	Feature Availability
IN	• Available.

Description

Use **Program 22-01 : System Options for Incoming Calls** to define the UX5000 options for incoming calls.

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	Incoming Call Priority	0 = Intercom Call Priority 1 = Trunk Call Priority	1	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 1 = Enable	0	If enabled, an incoming call that rings longer than the Ring No Answer Alarm interval (22-01-03), will change to a unique ring cadence to indicate that the call has been ringing too long. If disabled, this will not occur.	22-01-03 22-01-04
03	Ring No Answer Alarm Time	0-64800 (Sec.)	60	If a trunk rings a key terminal longer than this interval, the UX5000 changes the ring cadence. This indicates to the user that the call has been ringing too long.	20-31-07 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).	20-31-08
05	- Not Used -	-	-	-	
06	DID Ring-No-Answer Time	0-64800 (Sec.)	20	In UX5000s 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.	20-31-09 22-12
07	DID Incoming Ring Group no answer timer	0-64800 (Sec.)	20		
08	DID Pilot Call No answer timer	0-64800 (Sec.)	60		
09	DID to Trunk to Trunk no answer timer	0-64800 (Sec.)	20		

Item No.	Item	Input Data	Default	Description	Related Program
10	VRS Waiting Message Operation	0=Automatic 1=Change by manual operation	0	This program sets up the operation mode for Auto Attendant and Queuing Message. If there is no response during the fixed time for a call, the waiting message is sent to the caller until a response is received.	15-07 20-15-11 22-01-04 22-04 22-08 22-14 22-15
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. A ringback, internal tone or external holding tone is heard between the messages.	22-14-06 22-15-06 41-11-06

Conditions

None

Feature Cross Reference

- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 22-01 (System Options for Incoming Call Service):

1. Enter the programming mode.
2. 22 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-02 : Incoming Call Trunk Setup

Level:	Feature Availability
IN	• Available.

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	1-200

Item No.	Day/Night Mode	Incoming Type	Default	Description	Related Program
01	1-8	0 = Normal 1 = VRS (Second dial tone if no VRS installed) 2 = DISA 3 = DID 4 = DIL 5 = E&M Tie line 6 = Delayed DID 7 = ANI/DNIS 8 = DID Call by Time Schedule	0	Use this option to set the feature type for the trunk you are programming. If the VRS Call Attendant feature is used, the trunk must be set to VRS or DISA.	14-04

Conditions

- When connecting to T1 trunks, after changing Program 22-02-01 to match the telco's 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.

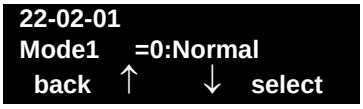
Feature Cross Reference

- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 22-02 (Incoming Service Type Setup):

1. Enter the programming mode.
2. 22 02



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-03 : Trunk Ring Tone Range

Level:
IN

Feature Availability
• Available.

Description

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

Input Data

Trunk Port Number	1-200

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 within the range selected when it rings an extension. There are four ring tones available.	15-02 15-08 82-01

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

Conditions

None

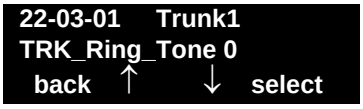
Feature Cross Reference

- Selectable Ring Tones

Terminal Programming Instructions

To enter data for Program 22-03 (Trunk Ring Tone Range):

1. Enter the programming mode.
2. 22 03



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-04 : Incoming Extension Ring Group Assignment

Level:
SA

Feature Availability
• Available - 100 Ring Groups.

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 ring for the terminals. IRG can have up to 32 extension numbers assigned.

Input Data

Incoming Ring Group Number	1-100

Item No.	Extension Number	Description	Related Program
01	Max. 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

Extension 301rings for incoming Ring Group 1 calls. All other extensions do not ring for incoming Ring Group 1 calls.

Conditions

None

Feature Cross Reference

- Ring Groups

Terminal Programming Instructions

To enter data for Program 22-04 (Incoming Extension Ring Group Assignment):

1. Enter the programming mode.
2. 22 04

   22-04-01 INC Group1
   IRG 01=301
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   22-04-nn INC Groupnnn
   nnnnn
   ← – + →

4. Enter the Incoming Ring Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-05 : Incoming Trunk Ring Group Assignment

Level:	Feature Availability
IN	• Available - 100 Ring Groups.

Description

Use **Program 22-05 : Incoming Trunk Ring Group Assignment** to assign trunks to incoming Ring Groups.

Input Data

Trunk Port Number	1-200

Item No.	Day/Night Mode	Incoming Group Number	Default	Description	Related Program
01	1-8	• 0 (No setting) • 1-8 or 001-100 (Incoming Group) • 102 (In-Skin/ External Voice Mail) • 103 (Centralized Voice Mail)	1	Use this program to assign Normal Ring Trunks (22-02) to Incoming Ring Groups (22-04).	22-04 22-06

Conditions

None

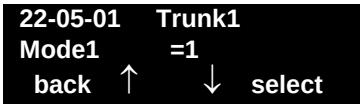
Feature Cross Reference

- Ring Groups

Terminal Programming Instructions

To enter data for Program 22-05 (Incoming Trunk Ring Group Assignment):

1. Enter the programming mode.
2. 22 05



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-06 : Normal Incoming Ring Mode

Level:	Feature Availability
IN	• Available.

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	Max. 8 digits

Item No.	Day/Night Mode	Incoming Group Number	Default	Related Program
01	1-8	0 = No Ring 1 = Ring	1	22-04 22-05

Conditions

None

Feature Cross Reference

- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 22-06 (Normal Incoming Ring Mode):

1. Enter the programming mode.
2. 22 06

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-07 : DIL Assignment

Level:	Feature Availability
IN	• Available.

Description

Use **Program 22-07 : DIL Assignment** to assign the destination extension or Department Calling Group pilot # (as assigned in Program 11-07) 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 loop keys (if programmed) or one of the CALL keys (CALL keys will always ring). Use Program 22-02 to designate a trunk as a DIL). You can make eight DIL assignments, one for each Night Service mode:

If trunks should be answered by the voice mail, enter the master/pilot number of the voice mail group defined in Program 11-07-01.

Input Data

Trunk Port Number	1-200

Item No.	Day/Night Mode	Number of Transferring Destination	Default
01	1-8	Extension number (Max. 8 digits) Pilot number	No setting

Conditions

Program 22-02 must be set to ‘4’ for the trunk.

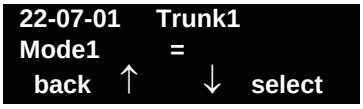
Feature Cross Reference

- Direct Inward Line (DIL)

Terminal Programming Instructions

To enter data for Program 22-07 (DIL Assignment):

1. Enter the programming mode.
2. 22 07



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-08 : DIL/IRG No Answer Destination

Level:	Feature Availability
IN	• Available.

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.

You make eight assignments, one for each Night Service mode.

Input Data

Trunk Port Number	1-200

Item No.	Day/Night Mode	Incoming Group Number	Default
01	1-8	0 (No setting) 1-8 or 001-100 (Incoming Group) 102 (In-Skin/External Voice Mail) 103 (Centralized Voice Mail)	1

Conditions

None

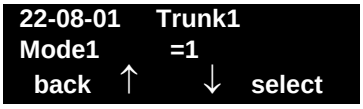
Feature Cross Reference

- Direct Inward Line (DIL)
- Ring Group

Terminal Programming Instructions

To enter data for Program 22-08 (DIL/IRG No Answer Destination):

1. Enter the programming mode.
2. 22 08



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-09 : DID Basic Data Setup

Level:	Feature Availability
IN	• Available.

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 UX5000 compatible with three- and four-digit DID service.	1-8	4
02	**Received Vacant Number Operation** Use this option to enable or disable Vacant Number Intercept.	0 = Disconnect 1 = Transfer (Program 22-12)	0
03	Sub-addressing Mode	0 = Extension number specify 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 (Max. 16 digits)	No setting
07	Pilot Code (Only Overlap Receiving Mode)	Dial (1 digit : 0-9)	No setting
08	T302 Time-out Operation (Only Overlap Receiving Mode)	0 = Disconnect 1 = Transfer (Program 22-12) 2 = Search	0

Conditions

None

Feature Cross Reference

- Direct Inward Dialing (DID)

Terminal Programming Instructions

To enter data for Program 22-09 (DID Basic Data Setup):

1. Enter the programming mode.
2. 22 09

3. Enter the number of the item you want to program.

4. Enter the trunk group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-10 : DID Translation Table Setup

Level:	Feature Availability
IN	• Available.

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.

Conditions

None

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)	
	2nd Area Setup (Start Address)	
	2nd Area Setup (End Address)	

Default

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)

Terminal Programming Instructions

To enter data for Program 22-10 (DID Translation Table Setup):

1. Enter the programming mode.
2. 22 10

   22-10-01 Conv Area1
   No.1_Start_Add1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   22-10-nn Conv Areann
   nnnnn
   ← – + →

4. Enter the Conversion Table Area number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 22 : Incoming Call Setup
22-11 : DID Translation Number Conversion

Level:	Feature Availability
SA	• Available.

Description

Use **Program 22-11 : DID Translation Table Number Conversion** to specify for each Translation Table entry (2000):

- The digits received by the UX5000 (eight max.)
- The extension the UX5000 dials after translation (24 digits max.)
- The name that should show on the dialed extension's display when it rings (twelve characters max.)
- 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 be up to 12 digits long.	
Use this keypad digit . . .	**When you want to. . .**
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Æ Ç É Ê ì ó 0
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 å ä ö ü α ε θ
*	Enter characters: * + , - . / : ; < = > ? ¼ ² σ ¾ × ¢ £
#	# = Accepts an entry (only required if two letters on the same key are needed - ex: T**OM**). Pressing # again = Space. (In UX5000 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.
CLEAR	Clear all the entries from the point of the flashing cursor and to the right.

Note: The item numbers indicated below are different when using PCPro/WebPro. Refer to the program within the PCPro/WebPro application to determine the correct item number.

Input Data

Conversion Table Number	1-2000

Item No.	Item	Input Data	Default
01	Received Number	Max. 8 digits	No setting
02	Target Number	Max. 24 digits	No setting
03	DID Name	Max. 12 characters	No setting
04	Transfer Operation Mode	0 = No transfer 1 = Busy 2 = No answer 3 = Busy / No answer	0
05	Transfer Destination Number -1	0 = No setting 1-100 = Incoming Group 102 = In-Skin/External Voice Mail 103 = Centralized Voice Mail 201-264 = Department Group (01-64) 400 = DID 401 = DISA 1000-1999 = Abbreviated Number (000-999)	0
06	Transfer Destination Number -2 Input Data Details: • **400** = Allows the outside party to dial a different DID 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 DID #). • **401** = Provides the caller with DISA dialing options (requires the use of the DISA password).		0
07	Call Waiting	0 = Disable 1 = Enabled	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 will be in this order: Program 22-11-05 then Program 22-11-06 then if Program 2-11-11 is enabled, Program 22-12-01.	0 = Disable 1 = Enabled	1

Conditions

None

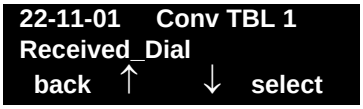
Feature Cross Reference

- Direct Inward Dialing (DID)

Terminal Programming Instructions

To enter data for Program 22-11 (DID Translation Number Conversion):

1. Enter the programming mode.
2. 22 11



3. Enter the number of the item you want to program.

4. Enter the Conversion Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 will route to the first destination group by the following:

- Vacant number intercept (vacant number means that there is no terminal connected, no station card 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 will be forwarded to the trunk ring group defined in Program 22-11 based on the table assigned to the DID trunk.

Note: If Program 22-11-05 and 22-11-06 are set, the priority of transferring will be 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 (as defined in Program 22-12).

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 Group) 102 (In-Skin/External Voice Mail) 103 (Centralized Voice Mail)	1

Conditions

None

Feature Cross Reference

- Direct Inward Dialing (DID)

Terminal Programming Instructions

To enter data for Program 22-12 (DID Intercept Ring Group):

1. Enter the programming mode.
2. 22 12

   ```
   22-12-01  Conv Area1
   Mode1        =1
    back   ↑     ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   22-12-nn  Conv Areann
   nnnnn
     ←      –      +      →
   ```

4. Enter the Conversion Table Area number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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

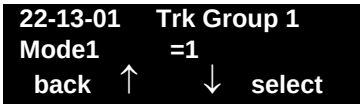
Feature Cross Reference

- Direct Inward Dialing (DID)

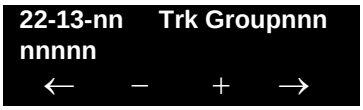
Terminal Programming Instructions

To enter data for Program 22-13 (DID Trunk Group to Translation Table Assignment):

1. Enter the programming mode.
2. 22 13



3. Enter the number of the item you want to program.



4. Enter the trunk Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 22-14 : VRS Delayed Message for IRG** to define for each incoming ring group the timers, VRS message number and tone kind for VRS Waiting Message.

Input Data

Incoming Ring Group Number	1-100

Item No.	Item	Input Data	Default
01	1st Waiting Message Start Timing	0-64800 Seconds	0
02	1st Waiting Message Number	0-101 (0 = No message, 1-100=Message number, 101 = Fixed message)	0
03	1st Waiting Message Sending Count	0-255	0
04	2nd Waiting Message Number	0-101 (0 = No message, 1-100=Message number, 101 = Fixed message)	0
05	2nd Waiting Message Sending Count	0-255	0
06	Tone Kind at Message Interval	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0
07	Disconnect Time After the End of VRS Waiting Message	0 = No Disconnect 1-64800 Seconds	60

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 22-14 (VRS Delayed Message for IRG):

1. Enter the programming mode.
2. 22 14

3. Enter the number of the item you want to program.

4. Enter the Incoming Ring Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 64 Department Groups.

Description

Use **Program 22-15 : VRS Waiting Message for Department Group** to define for each Department (Extension) Group the timers, VRS message number and tone kind for VRS Waiting Message.

Input Data

Extension (Department) Group Number	01-64

Item No.	Item	Input Data	Default
01	1st Waiting Message Start Timing	0-64800 Seconds	0
02	1st Waiting Message Number	0-101 (0 = No message, 1-100=Message number, 101 = Fixed message)	0
03	1st Waiting Message Sending Count	0-255	0
04	2nd Waiting Message Number	0-101 (0 = No message, 1-100=Message number, 101 = Fixed message)	0
05	2nd Waiting Message Sending Count	0-255	0
06	Tone Kind at Message Interval	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0
07	Disconnect Time After the End of VRS Waiting Message	0 = No Disconnect 1-64800 Seconds	60

Conditions

None

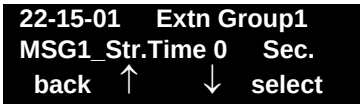
Feature Cross Reference

- Department Group

Terminal Programming Instructions

To enter data for Program 22-15 (VRS Waiting Message for Department Group):

1. Enter the programming mode.
2. 22 15

3. Enter the number of the item you want to program.

4. Enter the Department Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 22-16 : Private Call Refuse Target Area Setup** to define the ABB group number for Private Call Refuse.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Abbreviated Dial Group Number** Define the ABB group number for Private Call Refuse.	0 = No Setting or ABB Group Number 1 – 64	0	14-01-27 13-04-03 40-10-06

Conditions

None

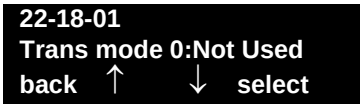
Feature Cross Reference

- Caller ID
- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 22-18 (Private Call Assignment):

1. Enter the programming mode.
2. 22 18



3. Enter the number of the item you want to program.

4. Enter the Department Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 22-17 : DID Conversion Table Area Setup for Time Pattern Mode** to define the times and DID Conversion Table (Program 22-11) for each DID time pattern (1-8).

Input Data

Conversion Table:	001-100
Received Number:	8 Digits

Item No.	Item	Input Data	Default	Related Program
01	This program is used to define the times and DID Conversion Table (Program 22-11) for each DID time pattern (1-8). Start from 00:00 and be sure to set up the input so the last entry of the time pattern is set to end at 00:00.	Start Time = 0000 - 2359 End Time = 0000 - 2359 DID Conversion Table Number: 0 - 2000	Start Time: 0000 End Time: 0000 DID Conversation Table Number: 0	22-11

Conditions

None

Feature Cross Reference

- Direct Inward Dial (DID)

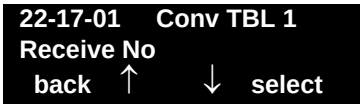
Program 22 : Incoming Call Setup

22-17 : DID Conversion Table Area Setup for Time Pattern Mode

Terminal Programming Instructions

To enter data for Program 22-17 (DID Conversion Table Area Setup for Time Pattern Mode):

1. Enter the programming mode.
2. 22 17



3. Enter the number of the item you want to program.

4. Enter the Conversion Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 22-18 : Private Call Assignment** to defines assignments and incoming ring patterns for a Private Call.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**Transfer Mode** If this program is set to 0, the VRS message is played.	0 = Not defined 1 = Internal dial 2 = Incoming Ring Group (IRG)	0	14-01-27 15-02-02 40-10-06
02	**Destination Number** If option 01 is set to "1" or "2", define the destination in this option.	If Transfer Mode is set to: **1: Internal Dial** Dial Data (up to 24 digits) 0-9, *, #, P,R,@ **2: Incoming Ring Group** 0-100	No Setting	
03	**Incoming Ring Pattern** The definition of the tone pattern is the same as Program 22-03.	Incoming Ring Pattern (0-9) 0 = normal pattern 1-4 = tone pattern(1-4) 5-9 = scale pattern(1-5)	0	14-01-27 15-02-02 22-03

Conditions

None

Feature Cross Reference

- Caller ID
- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 22-18 (Private Call Assignment):

1. Enter the programming mode.
2. 22 18

   22-18-01
   Trans mode 0:Not Used
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   22-18-nn
   nnnnn
   ← →

4. Enter the Department Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 22-20 : Flexible Ringing by Caller ID Per Time Pattern** to set if the Flexible Ringing by Caller ID function is activated per time pattern mode.

Input Data

Trunk Port Number:	001-200
Day/Night Mode:	1-8

Item No.	Item	Input Data	Default	Related Program
01	**Flexible Ringing by Caller ID Per Time Pattern** Enable or disable the ability for the Flexible Ringing by Caller ID to work based on time modes.	0 = Disabled 1 = Enabled	1	13-04 14-01-30

Conditions

None

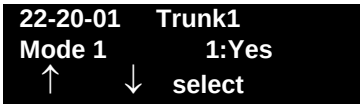
Feature Cross Reference

- Caller ID

Terminal Programming Instructions

To enter data for Program 22-20 (Flexible Ringing by Caller ID Per Time Pattern):

1. Enter the programming mode.
2. 22 20



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 23 : Answer Features Setup
23-02 : Call Pickup Groups

Level:	Feature Availability
IN	• Available - 64 Call Pickup Groups.

Description

Use **Program 23-02 : Call Pickup Groups** to assign extensions to Call Pickup Groups. This program also lets you assign an extension's 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.

Input Data

Extension Number	Max. 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 Department 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

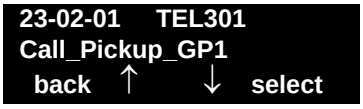
Feature Cross Reference

- Group Call Pickup

Terminal Programming Instructions

To enter data for Program 23-02 (Call Pickup Groups):

1. Enter the programming mode.
2. 23 02



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 23 : Answer Features Setup
23-03 : Universal Answer/Auto Answer

Level:	Feature Availability
IN	• Available.

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's assigned route, the user can dial the Universal Answer code (843) 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's own ringing calls, however, always have priority over calls ringing other co-worker's extensions. Refer to the Line Preference feature for more information.

You make one entry for each Night Service mode.

Input Data

Extension Number	Max. 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

Terminal Programming Instructions

To enter data for Program 23-03 (Universal Answer/Auto Answer):

1. Enter the programming mode.
2. 23 03

   ```
   23-03-01    TEL301
   Mode1    Route=0
    back   ↑      ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   23-03-nn    TELnnn
   nnnnn
     ←      –      +      →
   ```

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 23 : Answer Features Setup

23-04 : Ringing Line Preference for Virtual Extensions

Level:	Feature Availability
IN	• Available - 256 virtual extension ports.

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 terminal.

Input Data

Extension Number	Max. 8 digits

Item No.	Priority	Extension (Department) 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 will answer a ringing call from any group.	16-02 20-10-08

Conditions

None

Feature Cross Reference

- Multiple Directory Numbers / Call Coverage

Terminal Programming Instructions

To enter data for Program 23-04 (Ringing Line Preference for Virtual Extensions):

1. Enter the programming mode.
2. 23 04

3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 24 : Hold/Transfer Setup

24-01 : System Options for Hold

Level:	Feature Availability
IN	• Available.

Description

Use **Program 24-01 : System Options for Hold** to define the UX5000 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 interval. This timer works with the Hold Recall Callback Timer (Item 2).	0-64800 (Sec.)	90	20-31-10
02	**Hold Recall Callback Time** A trunk recalling from Hold or Park rings an extension for this interval. This timer works with timer 01 (Hold Recall Time) or timer 06 and 07 (Park Recall Time). After this interval, the UX5000 invokes the Hold recall time again. Cycling between timer 01 and 02 and 06 and 07 continues until a user answers the call.	0-64800 (Sec.)	30	20-31-11
03	**Exclusive Hold Recall Time** A call left on Exclusive Hold recalls the extension that placed it on Hold after this interval.	0-64800 (Sec.)	90	20-31-12
04	**Exclusive Hold Recall Callback Time** An Exclusive Hold Recall rings an extension for this interval. If not picked up, the call goes back on System Hold.	0-64800 (Sec.)	30	20-31-13
05	**Forced Release of Held Call** Depending on the setting of Program 14-01-16, the UX5000 disconnects calls on Hold longer than this interval.	0-64800 (Sec.)	1800	14-01-16
06	**Park Hold Time - Normal** A call left parked longer than this interval recalls the extension that initially parked it.	0-64800 (Sec.)	90	20-11-19 20-31-14
07	**Park Hold Time - Extended** A call left parked longer than this interval recalls the extension that initially parked it.	0-64800 (Sec.)	300	20-11-19

Conditions

None

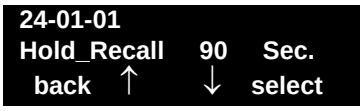
Feature Cross Reference

- Hold
- Park

Terminal Programming Instructions

To enter data for Program 24-01 (System Options for Hold):

1. Enter the programming mode.
2. 24 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 24 : Hold/Transfer Setup
24-02 : System Options for Transfer

Level:	Feature Availability
IN	• Available.

Description

Use **Program 24-02 : System Options for Transfer** to define the UX5000 options for 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.	0 = Disable 1 = Enable	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 interval. This also sets how long a Transferred call waits at an extension forwarded to Voice Mail before routing to the called extension's mailbox.	0-64800 (Seconds)	10	20-31-15
04	**Transfer Recall Time** An unanswered transferred call recalls to the extension that initially transferred it after this interval.	0-64800 (Seconds)	30	20-31-16
05	**Transfer to Busy Department Group Recall Timer** After a trunk is unscreen transferred to a busy Department Group, this timer will start. If the call is not answered, it will recall the originator.	0-64800 (Seconds)	30	
07	**Forced Release for Trunk-to-Trunk Transfer** This timer will start when a trunk begins talking with another trunk (for example: trunk-to-trunk transfer, outgoing from trunk, Tandem Trunking). When this timer expires, a warning tone is heard. If Program 24-02-10 is set, the conversation disconnects after that timer expires. This timer is set again when the external digit timer expires. One of the trunks used must be an analog trunk (or leased line)	0-64800 (Seconds) (0=disabled)	1800	14-01-25 20-28-01 20-28-02 20-28-03 24-02-10
08	**Delayed Transfer Timer for All Department Groups** This timer determines how long a call will ring the Department Groups before transferring a call.	0-64800 (Seconds)	10	11-11-28 11-11-29 15-07-01, Key 59

09	**ISDN Transfer Resend Timer** Determine how long the UX5000 should resend a Facility Message to the currently active PRI trunk when the 2 B-Channel Transfer feature is used. The UX5000 will resend the Facility timer based on this timer. If there is no response after the 3rd resend, the UX5000 considers the transfer as failed and stops resending.	1-30 seconds	10	10-03-16 (PRI)
10	**Trunk-to-Trunk Transfer Disconnect Timer** Determine how long a conversation will continue once the timer in Program 24-02-07 expires. If this option is set to "0", the conversation will be disconnected immediately. This program has no affect if Program 24-02-07 is set to "0". One of the trunks used must be an analog trunk (or leased line).	0 - 64800 seconds	0	14-01-25 20-28-01 20-28-02 20-28-03 24-02-07
11	**No Answer Timer for Step Transfer** Define the length of time the UX5000 will wait before Step Transferring a no-answer call to the next destination.	0 - 64800 seconds	10	14-01-26 24-04-01
12	**No Answer Timer for Automatic Trunk-to-Trunk Transfer** Define the length of time the UX5000 will wait before Automatic Trunk-to-Trunk Transfer occurs for a no-answer call.	0 - 64800 seconds	0	14-01-26 24-04-01

Conditions

None

Feature Cross Reference

- Call Forward
- Tandem Trunking
- Transfer

Terminal Programming Instructions

To enter data for Program 24-02 (System Options for Transfer):

1. Enter the programming mode.
2. 24 02

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 24-03 : Park Group** to assign an extension to a Park Group. The UX5000 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	Max. 8 digits

Item No.	Park Group Number	Default	Description	Related Program
01	1-64	1	Assign an extension to a Park Group. The UX5000 allows a total of 64 Park Groups.	15-07-01

Conditions

None

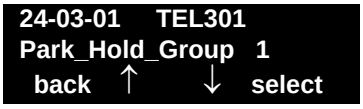
Feature Cross Reference

- Park

Terminal Programming Instructions

To enter data for Program 24-03 (Park Group):

1. Enter the programming mode.
2. 24 03



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 24-04 : Automatic Trunk-to-Trunk Transfer Target Setup** to assign the Abbreviated Dialing number bin which should be used as the destination of the Automatic Trunk-to-Trunk Transfer.

Input Data

Trunk Port Number	1-200

Item No.	Day/ Night Mode	Abbreviated 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 Abbreviated Dial. Use this program to setup the Abbreviated Dial area.	11-10-08 13-04 24-05

Conditions

None

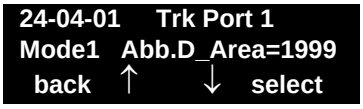
Feature Cross Reference

- Call Forwarding, Off-Premise

Terminal Programming Instructions

To enter data for Program 24-04 (Automatic Trunk-to-Trunk Transfer Target Setup):

1. Enter the programming mode.
2. 24 04



3. Enter the number of the item you want to program.

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 64 Department Groups.

Description

Use **Program 24-05 : Department Group Transfer Target Setup** to assign the Abbreviated Dialing bin which is used as the destination of the extension for the Department Group.

Input Data

Department Group Number	01-64

Item No.	Day/Night Mode	Abbreviated Dial Area Number	Default	Description	Related Program
01	1-8	0-1999	1999	The Abbreviated Dialing area is used to program the destination number of the transferred telephone number when a Department Group's call is transferred using the Trunk-to-Trunk Forwarding feature.	11-11-27 13-04 24-04

Conditions

None

Feature Cross Reference

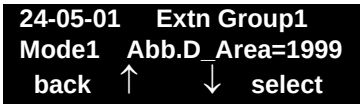
- Transfer

Program 24 : Hold/Transfer Setup
24-05 : Department Group Transfer Target Setup

Terminal Programming Instructions

To enter data for Program 24-05 (Department Group Transfer Target Setup):

1. Enter the programming mode.
2. 24 05



3. Enter the number of the item you want to program.

4. Enter the Extension (Department) Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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	Max. 8 digits

Item No.	Description	Input Data	Transferred Telephone Number	Default
01	Set the type of Fixed Call Fordwarding and specify the extension number transferred on originated terminal.	0 = No setting (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	Max. 8 digits	0

Conditions

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

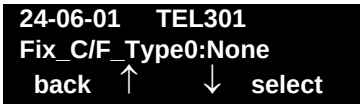
Feature Cross Reference

- Call Forwarding, Fixed

Terminal Programming Instructions

To enter data for Program 24-06 (Fixed Call Forwarding):

1. Enter the programming mode.
2. 24 06



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 24-07 : Fixed Call Forwarding Off Premise** to assign the Fixed Call Forwarding Off-Premise telephone number for each extension. The off-premise destination can be up to 24 digits long, using 0-9, *, # and P (pause). Be sure to include the trunk access code (e.g., 9) in the number.

Input Data

Extension Number	Max. 8 digits

Item No.	Off-Premise Destination Number	Default
01	1-9, 0, *, #, **P**ause (Press line key 1), **R**ecall/Flash (Press line key 2), @ (Press line key 3) (max. 24 digits)	No setting

Conditions

None

Feature Cross Reference

- Call Forwarding, Off-Premise

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

Terminal Programming Instructions

To enter data for Program 24-07 (Fixed Call Forwarding Off-Premise):

1. Enter the programming mode.
2. 24 07

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 24-08 : Call Forwarding with Centrex** to set the options for the feature.

Input Data

Extension Number	Max. 8 digits

Item No.	Off-Premise Destination Number	Input Data	Default
01	**Forwarding Type** Use this program to define the type of Call Forwarding for Centrex for each extension required.	0 = Call Forward off 1 = Call Forward No Answer 2 = Call Forward Immediate 3 = Call Forward Busy / No Answer 4 = Call Forward Busy	0
02	**Immediate/No Answer Destination** When Call Forward Immediate or No Answer is set, this program is used to store the destination number using the Centrex line. This program can also be used to set a Call Forward destination using a Centrex line for virtual extensions. A number can be entered in programming or a user can use the service code in Program 11-11-61 to enter a destination number.	1-9, 0, *, #, **P**ause (Press line key 1), **R**ecall/Flash (Press line key 2), @ (Press line key 3) (max. 24 digits)	No Setting
03	**Busy Destination** When Call Forward Busy is set, this program is used to store the destination number using the Centrex line. This program can also be used to set a Call Forward destination using a Centrex line for virtual extensions. To set Call Forwarding with Centrex, a number can be entered in programming or, for non-virtual extensions, a user can set up forwarding using the service code in Program 11-11-61.	1-9, 0, *, #, **P**ause (Press line key 1), **R**ecall/Flash (Press line key 2), @ (Press line key 3) (max. 24 digits)	No Setting

Conditions

None

Feature Cross Reference

- Call Forwarding, Centrex

Terminal Programming Instructions

To enter data for Program 24-08 (Call Forwarding with Centrex):

1. Enter the programming mode.
2. 24 08

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 25 : VRS/DISA Setup
25-01 : VRS/DISA Basic Data Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 25-01 : VRS/DISA Basic Data Setup** to define the basic setting of each VRS/DISA line.

Input Data

Trunk Port Number	1-200

Item No.	Item	Input Data	Default	Related Program
01	VRS/DISA Dial-In Mode	0 = Extension number/Service code specify 1 = Use DID conversion table	0	22-11
02	**DISA User ID** Determine if a DISA user ID is required.	0 = off 1 = on	1	25-08
03	**VRS/DISA Transfer Alarm**	0 = Normal 1 = Alarm	0	

Conditions

None

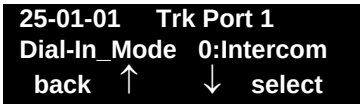
Feature Cross Reference

- Direct Inward System Access (DISA)

Terminal Programming Instructions

To enter data for Program 25-01 (VRS/DISA Line Basic Data Setup):

1. Enter the programming mode.
2. 25 01



3. Enter the number of the item you want to program.

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-02 : VRS/DISA VRS Message

Level:	Feature Availability
IN	• Available.

Description

Use **Program 25-02 : VRS/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	1-200

Item No.	Day/Night Mode	Message From	Additional Data	Default
01	1-8	0 = No Message 1 = VRS 2 = ACI 3 = SLT	In case of 1: 01-100 (VRS message number) In case of 2: 01-16 (ACI group number) In case of 3: 01-64 (Department Group number)	0

Conditions

None

Feature Cross Reference

- Direct Inward System Access (DISA)

Terminal Programming Instructions

To enter data for Program 25-02 (VRS/DISA VRS Message):

1. Enter the programming mode.
2. 25 02

3. Enter the number of the item you want to program.

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup

25-03 : VRS/DISA Transfer Ring Group With Incorrect Dialing

Level:	Feature Availability
IN	• Available.

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, you make an entry for each Night Service mode.

Input Data

Trunk Port Number	1-200

Item No.	Day/Night Mode	Incoming Group Number	Default	Related Program
01	1-8	0 (Disconnect) 1-100 (Incoming Group) 102 (In-Skin/External Voice Mail) 103 (Centralized Voice Mail)	0	22-04

Conditions

None

Feature Cross Reference

- Direct Inward System Access (DISA)

Terminal Programming Instructions

To enter data for Program 25-03 (VRS/DISA Transfer Ring Group With Incorrect Dialing):

1. Enter the programming mode.
2. 25 03

3. Enter the number of the item you want to program.

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup

25-04 : VRS/DISA Transfer Ring Group With No Answer/Busy

Level:	Feature Availability
IN	• Available.

Description

Use **Program 25-04 : VRS/DISA Transfer Ring Group With No Answer/Busy** to set the operating mode of each VRS/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, you make an entry for each Night Service mode.

Input Data

Trunk Port Number	1-200

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) 103 (Centralized Voice Mail)	0	22-04 25-06-01

Conditions

None

Feature Cross Reference

- Direct Inward System Access (DISA)

Terminal Programming Instructions

To enter data for Program 25-04 (VRS/DISA Transfer Ring Group With No Answer/ Busy):

1. Enter the programming mode.
2. 25 04

   ```
   25-04-01    Trk Port 1
   Mode1 Target_IRG=0
    back   ↑      ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   25-04-nn    Trk Portnnn
   nnnnn
     ←     –     +     →
   ```

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-05 : VRS/DISA Error Message Assignment

Level:	Feature Availability
IN	• Available.

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 will answer, 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, you make a separate entry for each Night Service mode.

Input Data

Trunk Port Number	1-200

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)

Terminal Programming Instructions

To enter data for Program 25-05 (VRS/DISA Error Message Assignment):

1. Enter the programming mode.
2. 25 05

   ```
   25-05-01    Trk Port 1
   Mode1  Error_MSG=0
    back   ↑      ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   25-05-nn    Trk Port nnn
   nnnnn
     ←     –     +     →
   ```

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-06 : VRS/DISA One-Digit Code Attendant Setup

Level:	Feature Availability
IN	• Available.

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 (see 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 1-7, outside callers may not be able to dial 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 UX5000 transfers the call to "399". This means that ext 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** A message number does not have to be entered - you can just define a destination number to ring. With the VRS Call Attendant feature, this option is enhanced to add additional destinations. ***Entries 101, 104, and 105 can only be used with the Call Attendant feature***. These options should be entered as the "MSG" number and no "Destination" entry is required.	0-100 (0 = no setting) - 101 = Voice Mail - 104 = Transfer to Ring Group (destination defined in Program 25-04-01) - 105 = Dial Another Extension	0
02	Destination Number	Up to 8 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)

Terminal Programming Instructions

To enter data for Program 25-06 (VRS/DISA One-Digit Code Attendant Setup):

1. Enter the programming mode.
2. 25 06

3. Enter the number of the item you want to program.

4. Enter the Guidance/Attendant number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-07 : System Timers for VRS/DISA

Level:	Feature Availability
IN	• Available.

Description

Use **Program 25-07 : System Timers for VRS/DISA** to set the value for the UX5000 timers which affect VRS, 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	**DISA Dial Tone Time** After answering a DISA trunk, the UX5000 waits this interval for the caller to dial the first digit of the DISA password. If the caller fails to dial within this interval, the the call follows the programmed Ring No Answer routing (set in Program 25-04).	0-64800 seconds	10	25-04
02	**VRS/DISA No Answer Time** A VRS/DISA caller can ring an extension for this interval before the UX5000 sets the call as a Ring No Answer. After this interval expires, the call follows the programmed Ring No Answer routing (set in Program 25-03 and 25-04).	0-64800 seconds	30	20-31-17 25-04
03	Disconnect after VRS/DISA re-transfer to IRG	0-64800 seconds	60	20-31-18
04	**Calling Time to Automatic Answering Terminal** Set the answering waiting time of the automatic answering extension when an incoming DID trunk call is received.	0-64800 seconds	10	
05	**Duration Time for Guidance Message by Automatic Answering Terminal** Set the announcement time of the automatic answering extension after which in incoming DID trunk caller is disconnected.	0-64800 seconds	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 seconds	10	
07	**Long Conversation Warning Tone Time** Determine the length of time a DISA caller or any trunk-to-trunk (such as Tandem Trunking) conversation can talk before the Long Conversation tone is heard. With software 4.0E+, if Program 25-07-08 is set to "0", the call is disconnected once the timer expires. This timer is set again when the external digit timer expires. Note: If this option is set to "0", the settings in Program 24-02-07 and 24-07-10 are followed - not 25-07-07 and 25-07-08.	0-64800 seconds	180	14-01-25 20-28-01 20-28-02 20-28-03 20-31-19 24-02-07 24-07-10 25-07-08

Item No.	Item	Input Data	Default	Related Program
08	**Long Conversation Disconnect** This timer determines how long the UX5000 will wait before disconnecting a DISA caller or any trunk-to-trunk (such as Tandem Trunking) conversation call after the Long Conversation tone is heard. This program has no affect if Program 25-07-07 is set to "0".	0-64800 seconds	10	14-01-25 20-28-01 20-28-02 20-28-03 20-31-20 25-07-07
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 interval, the UX5000 terminates the DISA call.	0-64800 seconds	30	20-31-21
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 interval, the UX5000 terminates the DISA call.	0-64800 seconds	30	20-31-22
11	**VRS/DISA Answer Delay Timer** Set up the interval time the UX5000 will wait after receiving an incoming VRS/DISA call until the UX5000 will automatically answer the call.	0-64800 seconds	0	
13	**VRS/DISA Busy Tone Interval** If a DISA caller dials a busy extension (and Program 25-04 = 0), the UX5000 plays busy tone for this interval before disconnecting.	0-64800 seconds	5	
14	**Delayed DID Answer Timer** Assign the delay time from switching from a normal incoming status to DID mode. If this time is set to ‘0’, the call will switch to DID mode immediately.	0-64800 seconds	10	

Conditions

None

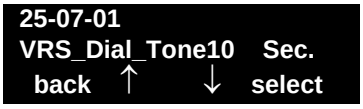
Feature Cross Reference

- Direct Inward System Access (DISA)

Terminal Programming Instructions

To enter data for Program 25-07 (System Timers for VRS/DISA):

1. Enter the programming mode.
2. 25 07

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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 Program
01	Dial (Six digits fixed)	No setting	49-10-11

Conditions

None

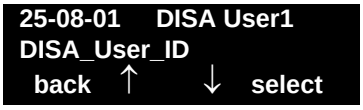
Feature Cross Reference

- Direct Inward System Access (DISA)

Terminal Programming Instructions

To enter data for Program 25-08 (DISA User ID Setup):

1. Enter the programming mode.
2. 25 08



3. Enter the number of the item you want to program.

4. Enter the DISA user name to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-09 : Class of Service for DISA Users

Level:	Feature Availability
IN	• Available.

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 UX5000 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, you 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

- The DISA Class of Service cannot be 0.
- You cannot use Program 20-06 to assign Class of Service to DISA trunks.

Feature Cross Reference

- Direct Inward System Access (DISA)

Terminal Programming Instructions

To enter data for Program 25-09 (Class of Service for DISA Users):

1. Enter the programming mode.
2. 25 09

   25-09-01 DISA User1
   Mode1 DISA_Class 1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   25-09-nn DISA Usernn
   nnnnn
   ← – + →

4. Enter the DISA user number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-10 : Trunk Group Routing for DISA

Level:	Feature Availability
IN	• Available.

Description

Use **Program 25-10 : Trunk Group Routing for DISA** to assign the Trunk Group route chosen when a user places a DISA call into the UX5000 and dials 9. Set Trunk Group Routing in Program 14-06. Enable or disable the DISA caller's ability to dial 9 in Program 20-14-02. You assign a route to each DISA Class of Service (1-15). The UX5000 assigns a DISA Class of Service to a call based on the password the DISA caller dials.

When programming, you 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)

Terminal Programming Instructions

To enter data for Program 25-10 (Trunk Group Routing for DISA):

1. Enter the programming mode.
2. 25 10

   25-10-01 DISA User1
   Mode1 DISA_Route No.1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   25-10-nn DISA Usernn
   nnnnn
   ← – + →

4. Enter the DISA user number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-11 : DISA Toll Restriction Class

Level:	Feature Availability
IN	• Available.

Description

For UX5000s 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 UX5000 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, you 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

You cannot use Program 21-05 to assign Toll Restriction to DISA trunks.

Feature Cross Reference

- Direct Inward System Access (DISA)
- Toll Restriction

Terminal Programming Instructions

To enter data for Program 25-11 (DISA Toll Restriction Class):

1. Enter the programming mode.
2. 25 11

   25-11-01 DISA User1
   Mode1 DISA_T/R_Class2
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   25-11-nn DISA Usernn
   nnnnn
   ← – + →

4. Enter the DISA user number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-12 : Alternate Trunk Group Routing for DISA

Level:	Feature Availability
IN	• Available.

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's Class of Service, which is in turn determined by the password the caller dials. When programming, you 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

Terminal Programming Instructions

To enter data for Program 25-12 (Individual Trunk Group Routing for DISA):

1. Enter the programming mode.
2. 25 12

3. Enter the number of the item you want to program.

4. Enter the DISA user number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 25 : VRS/DISA Setup
25-13 : System Option for DISA

Level:	Feature Availability
IN	• Available.

Description

Use **Program 25-13 : System Option for DISA** to enter the password DISA callers must dial before the UX5000 will allow 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 Password** Enter the password DISA callers must dial before the UX5000 will allow them to record, listen to and or erase the VAU messages.	1-9, 0, *, # 6 digits fixed	No setting

Conditions

None

Feature Cross Reference

- Direct Inward System Access (DISA)
- Voice Response System (VRS)

Terminal Programming Instructions

To enter data for Program 25-13 (System Option for DISA):

1. Enter the programming mode.
2. 25 13

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 26 : ARS Service

26-01 : Automatic Route Selection Service

Level:	Feature Availability
IN	• Available.

Description

Use **Program 26-01 : Automatic Route Selection Service** to define the UX5000 options for Automatic Route Selection (ARS).

Input Data

Item No.	Item	Input Data	Default	Related Programs
01	**ARS Service** Enable or disable ARS.	0 = Disable 1 = Enable	0	26-02 26-03 26-04
02	**Network Outgoing Inter-Digit ARS Timer** With CygniLink, this timer replaces 20-03-04 when determining if all network protocol digits have been received. If ARS is enabled at Site B, this timer can be programmed for 5 (500 msec) at Site A. If ARS is disabled and Site B is using F-Route for outbound dialing, this timer should be programmed for 30 (3 seconds) at Site A.	0-64800 (msec.)	30	20-03-04
03	**ARS Misdialed Number Handling** If a user dials a number not programmed in ARS Dial Analysis Table (Program 26-02), this option determines if the UX5000 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 26-02
04	**LCR Mode - *Not Used in the U.S.***		0	
05	**- Not Used -**			

06	**ARS COS Match Access** With the ARS Class of Service Match Access feature, you can determine whether the UX5000 should allow a call based on the COS assigned to the Dial Analysis Table (Program 26-02). This change can be used to create a tenant-like application. It will then use the trunk group defined in the Additional Entry in Program 26-02-03 to place the outgoing call. When this feature is enabled, the calls will be routed in sequential order, and will forward provided the Class of Service for the trunk groups match. Program 26-02-02 must be set for trunk groups. ARS COS Match does not work with F-Routing.	0 = Disabled (COS not compared) 1 = Enabled (COS Match Access)	0	26-02

Conditions

None

Feature Cross Reference

- Automatic Route Selection

Terminal Programming Instructions

To enter data for Program 26-01 (Automatic Route Selection Service):

1. Enter the programming mode.
2. 26 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 PRG
01	Dial	Dial Digits (16 digits maximum) 1-9, 0, *, #, or @ for wild character (Press line key 1)	No Setting	
02	Service Type	0 = No ARS 1 = Route to Trunk Group 2 = Select F-Route Access	0	
03	Additional Data / Service Number	In Service Type 1: Select Trunk Group Number (0-100, 0=no route) In Service Type 2: F-Route Time Schedule Not Used = 0-500 (F-Route Table Number). Refer to Program 44-05. F-Route Time Schedule Used = 0-500 (F-Route Selection Number). Refer to Program 44-04.	0	44-04 44-05
04	ARS Class of Service	0-16	10	
05	Dial Treatment	0-15	0	
06	**LCR Carrier Table** Select the Carrier Table to be used for dial edit. Table 1 is a special table - this table will be automatically used for all numbers that begin with “0” and which do not correspond with the entry in Program 26-02-01.	0-25	0	

Conditions

None

Feature Cross Reference

- Automatic Route Selection

Terminal Programming Instructions

To enter data for Program 26-02 (Dial Analysis Table for ARS/LCR):

1. Enter the programming mode.
2. 26 02

   ```
   26-02-01   Analysis Tbl1
   Dial
    back  ↑     ↓  select
   ```

3. Enter the number of the item you want to program.

   ```
   26-02-nn   Analysis Tbln
   nnnnn
     ←     –     +     →
   ```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 8 digits in the ARS table (Program 26-02-01).
- **2** - Delete the leading "1" if dialed as part of the initial call.
  Requires at least 8 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 8 digits in the ARS table (Program 26-02-01).
- **INPA** - Insert the NPA specified by NPA.
- **DNN** - Outdial the NN number of digits or execute the code that follows. For example, D041234 out-dials 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. This Dial Treatment can only be added from terminal programming.
- **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 in order for the UX5000 to output the extension number of the call's originator to the black box for the E911 feature.
- **An** - For Alternate Carrier Access (n = 1 ~ 4). The numeric digit instructs the UX5000 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.

Input Data

Dial Treatment Table Number	1-15

Item No.	Input Data	Default
01	24 characters maximum	No Setting

Conditions

None

Feature Cross Reference

- Automatic Route Selection

Terminal Programming Instructions

To enter data for Program 26-03 (ARS Dial Treatments):

1. Enter the programming mode.
2. 26 03

   26-03-01 ARS Treatment1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   26-03-nn ARS Treatmentn
   nnnnn
   ← – + →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 26-04 : ARS Class of Service** to set an extension's ARS Class of Service. Automatic Route Selection uses ARS Class of Service when determining how to route an extension's calls.

Input Data

Extension Number	Up to 8 digits

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

Conditions

None

Feature Cross Reference

- Automatic Route Selection

Terminal Programming Instructions

To enter data for Program 26-04 (ARS Class of Service):

1. Enter the programming mode.
2. 26 04

```
26-04-01     TEL301
Mode1:COS    0
 back  ↑      ↓  select
```

3. Enter the number of the item you want to program.

```
26-04-nn     TELnnn
nnnnn
  ←     –     +     →
```

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Not Available.

Description

This item is not currently used in the U.S.

Program 26 : ARS Service
26-06 : LCR Authorization Table

Level:	Feature Availability
IN	• Not Available.

Description

This item is not currently used in the U.S.

Level:	Feature Availability
IN	• Not Available.

Description

This item is not currently used in the U.S.

Program 26 : ARS Service

26-08 : LCR Manual Override Access Code Table

Level:	Feature Availability
IN	• Not Available.

Description

This item is not currently used in the U.S.

Level:	Feature Availability
IN	• Not Available.

Description

This item is not currently used in the U.S.

Program 26 : ARS Service
26-11 : Transit Network ID Table

Level:	Feature Availability
IN	• Available.

Description

Use **Program 26-11 : Transit Network ID Table** to enter up to four Transit Network ID Codes, each being 4 numbers long.

Input Data

Transit Network ID Codes	1-4

Item No.	Item	Input Data	Default	Related Program
01	**Carrier ID** Enter the Transit Network Selection information element to be added to an ARS call using an ISDN trunk. This information element identifies a requested transit network.	0-9 Maximum of 4 Digits	-	26-02-01 26-03-01

Conditions

None

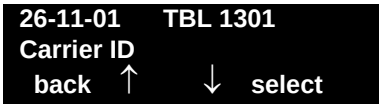
Feature Cross Reference

- Automatic Route Selection
- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 26-11 (Transit Network ID Table):

1. Enter the programming mode.
2. 26 11



3. Enter the number of the item you want to program.

4. Enter the table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 30 : DSS/DLS Console Setup
30-01 : DSS Console Operating Mode

Level:	Feature Availability
IN	• Available.

Description

Use **Program 30-01 : DSS Console Operating Mode** to set the mode of the UX5000's DSS Consoles. The entry you make in this option applies to all the UX5000's DSS Consoles. The available options are:

- Regular (Business) Mode (0)
  This option indicates the status of normal keysets (not ACD agents).
- Hotel Mode (1)
- ACD Monitor Mode (2)
  This option indicates the status of ACD agents (non-ACD agents are not included.
- Business/ACD Monitor Mode (3)
  This option allows a non-ACD DSS console to lamp indicating the status of both non-ACD agents as well as ACD agents.

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

The UX5000 60-Button DSS Console keys are defined as follows, by default, based on the operation mode selected in Program 30-01-01.

Operation Mode (Program 30-01)	Key Number	Function Indication	LED
Business Mode	1-60	ICM	Red
Hotel Motel	1-60	ICM	Red
ACD Mode	1-60	ACD Status	Red
Business/ACD Mode	1-60	ACD Status / ICM	Red

Conditions

None

Feature Cross Reference

- Direct Station Selection (DSS) Console
- Hotel/Motel

Terminal Programming Instructions

To enter data for Program 30-01 (DSS Console Operating Mode):

1. Enter the programming mode.
2. 30 01

   30-01-01
   Operation_Mode0:Business
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   30-01-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 30 : DSS/DLS Console Setup
30-02 : DSS Console Extension Assignment

Level:	Feature Availability
IN	• Available.

Description

Use **Program 30-02 : DSS Console Extension Assignment** to identify which extensions have DSS Consoles connected.

- You can have up to 32 different extensions with DSS Consoles. A single digital extension can have any number of 60-Button DSS Consoles (32 is the maximum allowed per system). Aspire 110-Button DSS Consoles can also be used staying within this system maximum. An IP terminal can only have 1 60-Button DSS Console attached (as with this terminal, the console is physically attached to the terminal.

When programming, each extension/DSS Console(s) combination is called a Console Number. There are 32 Console Numbers (1-32). You assign Console Numbers to extensions. When entering data, you normally make the assignment for Console Number 1 first.

Input Data

60-Button DSS Console Number or Aspire 110-Button DSS Console Number	01-32

Item No.	Description	Default
01	The extension number for the terminal connected with the DSS console (Up to 8 digits)	No setting

Conditions

None

Feature Cross Reference

- Direct Station Selection (DSS) Console

Terminal Programming Instructions

To enter data for Program 30-02 (DSS Console Extension Assignment):

1. Enter the programming mode.
2. 30 02

3. Enter the number of the item you want to program.

4. Enter the DSS number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 30 : DSS/DLS Console Setup
30-03 : DSS Console Key Assignment

Level:
SA

Feature Availability
• Available.

Description

Use **Program 30-03 : DSS Console Key Assignments** to customize the key assignments for 60-Button DSS Consoles. This program is also used to define Aspire 110-Button DSS Consoles if used on the UX5000. The DSS Console keys can be programmed using any of the function codes listed below. In addition, the key (when defined as a DSS/One-Touch key [code 01] can have any function up to four digits long (e.g., extension number or Service Code). The function information (such as extension number or Service Code) would then be entered as the additional data.

To prevent lamping problems when reassigning DSS Console keys, it is recommended that you clear an extension's programmed key before reassigning it (Enter key to be cleared + 00 or *00 [If using Web or PC Programming, delete the key assignments and upload the change to the UX5000 before proceeding]). Without clearing an extension's key first, your DSS Console may not show the correct lamping, although the DSS function will work correctly.

If you are programming the UX5000 from the extension to which the DSS Console is connected, either by terminal or using the Web or PC Program, you may need to unplug the DSS and plug it back in to reset the console's lamping.

Input Data

Index 1

DSS Console Number	01-32

Index 2

Item No.	Key Number	Function Number	Additional Data
01	001-200	0-99 (General functional level) * 00-* 99 (Appearance functional level)	Refer to functional number list

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	Operation 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		**Rapid Blink (Red):** Setting state **Slow Blink (Red):** Set-ed state
16	Call Forward to Station		**Slow Blink (Red):** Forwarding state **Rapid Blink (Red):** Forwarded state
17	Call Forward to Device		**Slow Blink (Red):** Forwarding state **Rapid Blink (Red):** Forwarded state

Program 30 : DSS/DLS Console Setup

30-03 : DSS Console Key Assignment

Function Number	Function	Additional Data	LED Indication
18	Text Message Setup	Message Numbers (01-20)	**Red On:** Feature active by Function Key
19	External Group Paging	External Paging Number (1-8)	**Red On:** Active
20	External All Call Paging		**Red On:** Active
21	Internal Group Paging	Internal Paging Number (01-64)	**Red On:** Active
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	Abbreviated Dial – Common/Private	Abbreviated dial number (Common / Private)	None
28	Abbreviated Dial - Group	Abbreviated 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	Break - In		None
35	Camp On		**Red On:** Under camp-on or reservation
36	Step Call		None
37	DND / FWD Override Call		None
38	Message Waiting		None
39	Room Monitoring		**Rapid Blink (Red):** Under monitored **Slow Blink (Red):** Under monitoring
40	Handset Transmission Cutoff		**Red On:** Transmission cut-off
41	Buzzer	Extension Number	**Red On:** Transmission side **Rapid Blink (Red):** Receiver side

Function Number	Function	Additional Data	LED Indication
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
48	Voice Over		Calling party - Slow Blink (Red): Under a call, Under a response Called party - Slow Blink (Red): Under a call, Under a response
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	Incoming Call Queuing Setup	Incoming Group Number	**Red On:** Under setting
53	Queuing 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 On:** Active
		101-200	**Green On:** Active
		201-300	**Press Once = Red On:** Active *or* **Press Twice = Green On:** Active
57	General Purpose LED Indication	001-100	**Red On:** Active
		101-200	**Green On:** Active
		201-300	**Press Once = Red On:** Active *or* **Press Twice = Green On:** Active
58	Department Incoming Call - Immediate	Department Group Number (01 – 64)	
59	Department Incoming Call - Delay	Department Group Number (01 – 64)	

Function Number	Function	Additional Data	LED Indication
60	Department Incoming Call - DND	Department Group Number (01 – 64)	
61	ID Entry - Not Used -		
63	Outgoing Call Without Caller ID (ISDN)		**Red On:** Active
64	Key Pad Facility		**Red On:** Active
65	Not Used		
66	CTI		**Red On:** CTI active
67	***- Not Used in the U.S. -***		
68	***- Not Used in the U.S. -***		
69	***- Not Used in the U.S. -***		
70	***- Not Used in the U.S. -***		
71	***- Not Used in the U.S. -***		
72	Keypad Facility		
73	Keypad Hold		
74	Keypad Retrieve		
75	Keypad Conference		
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
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	Extension Number to Tandem Ring	**Red On:** Active
81	Automatic Transfer-to-Transfer	Trunk # (001-200)	**Red On:** Active
82	Dterm IP Call Log		

Function Number	Function	Additional Data	LED Indication
85	Directory Dialing		
86	**Set Private Call Refuse** This key enables/disables the "Private" call refusal for the trunks set to "1" in Program 14-01-27.		**Slow Blink (Red):** Active
87	**Set Caller ID Refuse** This key enables/disables the Caller ID number refusal for the trunks set to "1" in Program 14-01-27.		**Slow Blink (Red):** Active
88	**DID Mode Switching** Assign a key for DID Mode Switching. This key can be used to manually change the time pattern for a DID number.	Program 22-17 Table Number (1-100)	Pattern 1 = LED off Pattern 2 = LED on Pattern 3 = slow flash Pattern 4 = fast flash Patterns 5-8 = off
94	**VRS Call Attendant** This allows a user to set the feature as needed. After the key is defined, press it once for Busy and the LED will flash slowly. Press the key a second time for No Answer Call Attendant and the LED will flash fast. Press the key a third time for Busy/No Answer Call Attendant and the LED will remain solid. Pressing the key a fourth time will turn the function off.		Busy = stutter flash No Answer = fast flash Busy/No Answer = LED on
95	**Page Switching** A console can have two ranges of keys. This key allows the operator to switch from Range1 to Range 2. ***This key can only be assigned to keys 55-60.***		**Red On:** Range 1 **Slow Blink (Red):** Range 2
97	**Intercom Key** Assign the extension to be called when this key is pressed.	Intercom Number (1-8)	**Red On:** Extension in use **Flashing:** Ringing **Off:** Extension idle
98	**Message Waiting Indication** This key allows the operator to view which extensions have Message Waiting indications.		**Red On:** Extension has Message Waiting **Off:** Extension has no message

Function Number	Function	Additional Data	LED Indication
99	**ALT (Alternate) Key** The ALT key allows the operator to quickly forward calls to a pre-assigned extension.		**Red On:** Active **Off:** Not active

[2] Appearance Function Level (*00 - *99) (Service Code 852)

Function Number	Function	Additional Data	LED Indication	DESI-Less Names Displayed
*00	Not Used			-
*01	Trunk Key	Trunk Number (001-200)	**Red On:** Trunk busy by another user **Green On:** Trunk busy by extension	LINE XXX
*02	Trunk Group/Loop Key	Trunk Group Number (001-100)	**Red On:** Trunk busy by another user **Green On:** Trunk busy by extension	TKGPXXX
*03	Virtual Extension Key / Call Coverage	Extension Number or Department Group Number	**Red On:** Trunk busy by another user **Slow Blink (Red):** Incoming call	EXTXXXX
*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	PARKXX
*05	Loop Keys *Use Programs 15-13-01 or 15-13-02 to assign the loop key to a trunk group.*	• 0=Incoming + Trunk Group Number (001-100) • 1=Outgoing + Trunk Group Number (001-100) • 2=Both + Trunk Group Number (001-100)	**Green On:** Extension on an active call	-
*06	Trunk Access Via CygniLink	Network System Number (01-50)		-
*07	Personal Park		**Slow Blink (Green):** Parked call recalling extension user **Fast Blink (Green):** Extension placed call in Personal Park	-
*10	ACD Log – In / Log – Out		**Red On:** Under log-on **Off:** Under log-off	LOG
*11	-Not Used -			-
*12	ACD Emergency Call		**Red On:** Under monitor, Override, Standby **Fast Blink (Red):** Supervisor phone receiving Emergency Call	-

*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 - Terminal		**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 Check			-

Default

The DSS keys 01-60 of all DSS consoles = DSS/One touch key 301-360.
The DSS keys 61-200 of all DSS consoles = No Setting

Conditions

None

Feature Cross Reference

- Direct Station Selection (DSS) Console

Terminal Programming Instructions

To enter data for Program 30-03 (DSS Console Key Assignment):

1. Enter the programming mode.
2. 30 03

```
30-03-01    DSS1
KY001= 01
 back  ↑     ↓  select
```

3. Enter the number of the item you want to program.

```
30-03-01    DSS1
KY01 = 01
 back  ↑     ↓  select
```

4. Enter the DSS number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 30 : DSS/DLS Console Setup
30-04 : Alternate DSS Console Extension Assignment

Level:
SA

Feature Availability
• Available.

Description

Use **Program 30-04 : Alternate DSS Console Extension Assignment** to identify the alternate DSS console extension use when in off-duty mode (by pressing ALT key on the DSS console).

Input Data

DSS Console Number	01-32

Item No.	Alternate DSS Number	Default
01	0-32 (0 = Not Specified)	0

Conditions

None

Feature Cross Reference

- Direct Station Selection (DSS) Console

Terminal Programming Instructions

To enter data for Program 30-04 (Alternate DSS Console Extension Assignment):

1. Enter the programming mode.
2. 30 04

3. Enter the number of the item you want to program.

4. Enter the DSS number to be programmed or press the FLASH key, then use the VOLUME ▲ or VOLUME ▼ keys.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 30 : DSS/DLS Console Setup
30-05 : DSS Console Lamp Table

Level:	Feature Availability
IN	• Available.

Description

Use **Program 30-05 : DSS Console Lamp Table** to define the LED patterns for functions on the DSS consoles. This program will also affect the lamping for DSS/Hotline keys on keysets.

Input Data

Item No.	Item	Lamp Pattern Data	Default
01	Idle Extension	0-7	0 (Off)
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)

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

Terminal Programming Instructions

To enter data for Program 30-05 (DSS Console Lamp Table):

1. Enter the programming mode.
2. 30 05

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 30-10 : DSS Console IP Terminal Setup** to display the MAC address of the terminal for the DSS console connected with the SIP multi-line terminal.

Input Data

DSS Console Number	01-32

Item No.	Item	Entries	Default
01	**MAC Address - View Only - Displays the MAC address of the SIP multi-line terminal with which the DSS console is connected is set.**	**00-00-00-00-00-00 ~ FF-FF-FF-FF-FF-FF**	**00-00-00-00-00-00**

Conditions

None

Feature Cross Reference

- Direct Station Selection (DSS) Console

Terminal Programming Instructions

To enter data for Program 30-10 (DSS Console IP Terminal Setup):

1. Enter the programming mode.
2. 30 10

3. Enter the number of the item you want to program.

4. Enter the DSS Console number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 31 : Paging Setup

31-01 : System Options for Internal/External Paging

Level:	Feature Availability
IN	• Available.

Description

Use **Program 31-01 : System Options for Internal/External Paging** to define the UX5000 options for Internal/External Paging.

The UX5000 shows the names you program on the terminal displays. 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 key "2" three times. Press the key six times display the lower case letter.

Key for Entering Names	
When entering names in the procedures below, refer to this chart. Names can be up to 12 digits long.	
Use this keypad digit . . .	**When you want to. . .**
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Æ Ç É Ê ì ó 0
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 å ä ö ü α ε θ
*	Enter characters: * + , - . / : ; < = > ? ¼ ² σ ¾ × ¢ £
#	# = Accepts an entry (only required if two letters on the same key are needed - ex: T**OM**). Pressing # again = Space. (In UX5000 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.
CLEAR	Clear all the entries from the point of the flashing cursor and to the right.

Input Data

Item No.	Item	Input Data	Default	Description	Related Program
01	All Call Paging Zone Name	Up to 12 Characters	Group all	Assign a name to each All Call Internal Paging zone. The name shows on the display of the terminal making the announcement.	11-12-19 31-02-02
02	Page Announcement Duration	0-64800 (Sec.)	1200	This timer sets the maximum length of Page announcements.	20-31-23
04	Privacy Release Time	0-64800 (Sec.)	90	Once the user initiates a Meet Me Conference or Voice Call Conference, the UX5000 waits this interval for the Paged party to join the call.	

Conditions

None

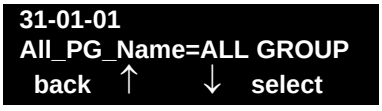
Feature Cross Reference

- Paging, External
- Paging, Internal

Terminal Programming Instructions

To enter data for Program 31-01 (System Options for Internal/External Paging):

1. Enter the programming mode.
2. 31 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 31 : Paging Setup
31-02 : Internal Paging Group Assignment

Level:	Feature Availability
IN	• Available.

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 UX5000 can have up to 64 paging groups. An extension can be in only one Internal Paging Group.

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Input Data	Default
01	**Internal Paging Group Number** Assign extensions to Internal Paging Groups (i.e., Page Zones). The UX5000 allows up to 64 Internal Paging Groups. An extension can be in only one Internal Paging Group.	0-64 (0 = no setting)	Extension 301-316 = Group 1 All Remaining Extensions = 0
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

Terminal Programming Instructions

To enter data for Program 31-02 (Internal Paging Group Assignment):

1. Enter the programming mode.
2. 31 02

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 31 : Paging Setup
31-03 : Internal Paging Group Settings

Level:	Feature Availability
IN	• Available.

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 UX5000 shows the names you program on the terminal displays. 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 key "2" three times. Press the key six times display the lower case letter.

Key for Entering Names	
When entering names in the procedures below, refer to this chart. Names can be up to 12 digits long.	
Use this keypad digit . . .	**When you want to. . .**
1	Enter characters: 1 @ [¥] ^ _ ` { | } → ← Á À Â Ã Æ Ç É Ê ì ó 0
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 å ä ö ü α ε θ
*	Enter characters: * + , - . / : ; < = > ? ¼ ² σ ¾ × ¢ £
#	# = Accepts an entry (only required if two letters on the same key are needed - ex: T**OM**). Pressing # again = Space. (In UX5000 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.
CLEAR	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	Description
01	Internal Paging Group Name	Up to 12 Characters		Assign names to Internal Paging Groups (i.e., Page Zones). The UX5000 shows the names you program on the terminal displays.
02	Internal Paging Splash Tone	0 = Ordinary volume 1 = Mute 2 = No tone	0	Allow an extension to have normal (0), muted (1) or no (2) Internal Paging alert beeps before a Paging announcement.

Default

Item 01 : Internal Paging Group Name

Extension Paging Group	Name
01	Group 1
02	Group 2
:	:
64	Group 64

Conditions

None

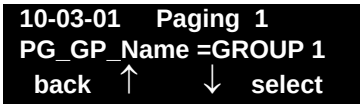
Feature Cross Reference

- Paging, Internal

Terminal Programming Instructions

To enter data for Program 31-03 (Internal Paging Group Settings):

1. Enter the programming mode.
2. 10 03



3. Enter the number of the item you want to program.

4. Enter the Internal Paging Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 PGDAD adapter are numbers 1-8. On the UX5000, the CCPU's 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 (PGDAD) = 1 (Group 1) Speaker 2 (PGDAD) = 2 (Group 2) Speaker 3 (PGDAD) = 3 (Group 3) Speaker 4 (PGDAD) = 4 (Group 4) Speaker 5 (PGDAD) = 5 (Group 5) Speaker 6 (PGDAD) = 6 (Group 6) Speaker 7 (PGDAD) = 7 (Group 7) Speaker 8 (PGDAD) = 8 (Group 8) Speaker 9 (CCPU) = 1 (Group 1)

Conditions

None

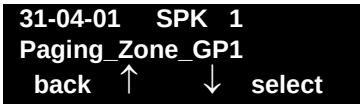
Feature Cross Reference

- Paging, External

Terminal Programming Instructions

To enter data for Program 31-04 (External Paging Zone Group):

1. Enter the programming mode.
2. 31 04



3. Enter the number of the item you want to program.

4. Enter the External Speaker number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 31-05 : Universal Night Answer** to assign Universal Night Answer ringing to each External Paging zone. For each trunk port, you make a separate entry for each External Paging zone. When programming, the zones on the PGDAD adapter are numbers 1-8. The CCPU's zone is number 9. For UNA ringing, you make a separate entry for each Night Service mode.

This program is also used for an external ringer connected to a 2PGDAD module.

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 1 = Ringing	0

Conditions

None

Feature Cross Reference

- Night Service
- Paging, External
- Transfer

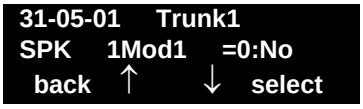
Program 31 : Paging Setup

31-05 : Universal Night Answer/Ring Over Page

Terminal Programming Instructions

To enter data for Program 31-05 (Universal Night Answer):

1. Enter the programming mode.
2. 31 05



3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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** Use this option to enabled or disable splash tone before Paging over an external zone. If enabled, the UX5000 broadcasts a splash tone before the External Paging announcement.	0 = No tone 1 = Splash tone 2 = Chime tone	2
02	**Broadcast Splash Tone After Paging** Use this option to enabled or disable splash tone after Paging over an external zone. If enabled, the UX5000 broadcasts a splash tone at the end of an External Paging announcement.	0 = No tone 1 = Splash tone 2 = Chime tone	2
03	**Speech Path** Determine if the external speaker will be used for talk-back (As this option is not available with the CCPU external page zone, speaker 9 should be left at “1”.	0 = Both way 1 = One way (PGD -> SPK)	1
04	**Codec Transmit Gain Setup**	1-63 (-15.5 ~ +15.5dB)	32
05	**Codec Transmit Gain Setup**	1-63 (-15.5 ~ +15.5dB)	32

Conditions

None

Program 31 : Paging Setup
31-06 : External Speaker Control

Feature Cross Reference

- Paging, External

Terminal Programming Instructions

To enter data for Program 31-06 (External Speaker Control):

1. Enter the programming mode.
2. 31 06

   31-06-01 SPK 1
   PG_Start_Tone 2:Chime
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   31-06-nn SPK n
   nnnnn
   ← – + →

4. Enter the External Speaker number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 Call [internal and external zones])	1

Conditions

None

Feature Cross Reference

- Paging, External
- Paging, Internal

Terminal Programming Instructions

To enter data for Program 31-07 (Combined Paging Assignments):

1. Enter the programming mode.
2. 31 07

3. Enter the number of the item you want to program.

4. Enter the Page Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 31-08 : BGM on External Paging** to set the Background Music option for each External Paging zone. If enabled, the UX5000 will play Background Music over the zone when it is idle.

When programming, the zones on the PGDAD adapter are numbers 1-8. For the UX5000, the CCPU's zone is number 9.

Input Data

External Speaker Number	1-9

Item No.	Description	Input Data	Default
01	Use this option to allow or prevent the External Paging zone you select from broadcasting Background Music when it is idle.	0 = Disable 1 = Enable	0

Conditions

None

Feature Cross Reference

- Background Music
- Paging, External

Terminal Programming Instructions

To enter data for Program 31-08 (BGM on External Paging):

1. Enter the programming mode.
2. 31 08

3. Enter the number of the item you want to program.

4. Enter the External Speaker number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 32 : Door Box and Sensor Setup
32-01 : Door Box Timers

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Item No.	Item	Input Data	Default
01	**Door Box Answer Time** A keyset user must answer Door Box chimes within this interval.	0-64800	30
02	**Door Lock Cancel Time** When a single line (2500 type) terminal user hook flashes or a keyset user presses the FLASH key while talking to a Door Box, the strike stays open for this interval.	0-64800	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 will hear busy tone for 3 seconds (fixed timer) and the call will then be disconnected.	0-64800	60

Conditions

None

Feature Cross Reference

- Door Box

Terminal Programming Instructions

To enter data for Program 32-01 (Door Box Timers):

1. Enter the programming mode.
2. 32 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 32 : Door Box and Sensor Setup
32-02 : Door Box Ring Assignment

Level:	Feature Availability
SA	• Available.

Description

Use **Program 32-02 : Door Box Ring Assignments** to assign the extension which will ring when a caller presses the associated Door Box's call button.

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	Max. 8 digits	No setting

Conditions

None

Feature Cross Reference

- Door Box

Terminal Programming Instructions

To enter data for Program 32-02 (Door Box Ring Assignment):

1. Enter the programming mode.
2. 32 02

3. Enter the number of the item you want to program.

4. Enter the Door Box number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 32 : Door Box and Sensor Setup

32-03 : Door Box Basic Setup

Level:	Feature Availability
IN	• Available.

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 Program 80-01.

Input Data

Door Box Number	1-8

Item No.	Item	Input Data	Default
01	**Chime Pattern**	0 = No ringing tone 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** (PGDAD to Door Box)	1-63 (-15.5 ~= +15.5dB)	32 (0dB)
03	**Codec Receive Gain Setup** (Door Box to PGDAD)	1-63 (-15.5 ~ +15.5dB)	32 (0dB)

Conditions

None

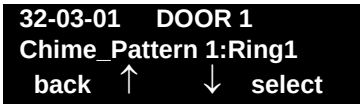
Feature Cross Reference

- Door Box

Terminal Programming Instructions

To enter data for Program 32-03 (Door Box Basic Setup):

1. Enter the programming mode.
2. 32 03



3. Enter the number of the item you want to program.

4. Enter the Door Box number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 32 : Door Box and Sensor Setup

32-04 : Door Box Name Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 32-04 : Door Box Name Setup** to select the name of each Door Box.

Input Data

Door Box Number	1-8

Item No.	Item	Input Data	Default
01	Door Box Name	Up to 12 characters	1 = Door- 1 2 = Door- 2 3 = Door- 3 4 = Door- 4 5 = Door- 5 6 = Door- 6 7 = Door- 7 8 = Door- 8

Conditions

None

Feature Cross Reference

- Door Box

Terminal Programming Instructions

To enter data for Program 32-04 (Door Box Name Setup):

1. Enter the programming mode.
2. 32 04

   32-04-01 DOOR 1
   Door Name -DOOR- 1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   32-04-nn DOOR n
   nnnnn
   ← – + →

4. Enter the Door Box number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 33 : CTA and ACI Setup
33-01 : ACI Port Type Setup

Level:	Feature Availability
IN	• Available.

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 = No Setting 1 = Input 2 = Input/Output	2

Conditions

None

Feature Cross Reference

- Analog Communications Interface (ACI)

Terminal Programming Instructions

To enter data for Program 33-01 (ACI Port Type Setup):

1. Enter the programming mode.
2. 33 01

   33-01-01 ACI Port1
   ACI_Type 2:In/Out
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   33-01-nn ACI Portnn
   nnnnn
   ← – + →

4. Enter the ACI port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 33 : CTA and ACI Setup
33-02 : ACI Department Calling Group

Level:
IN

Feature Availability
• Available - ACI Ports and 16 ACI Department Groups.

Description

Use **Program 33-02 : ACI Department Calling Group** to assign ACI ports to Department Groups. An ACI port can only be in one group.

Also use this program to set the ACI port's priority. When a call comes into the ACI Department Group, it connects to the ACI port in order of their priority. A higher priority port (e.g., 1) receives calls before a lower priority port (e.g., 6).

Input Data

ACI Port Number	01-96

Item No.	Group Number	Priority
01	01-16	1-96

Default

ACI Port	Group	Order
01	1	1
02	1	1
:	:	:
96	1	96

Conditions

None

Feature Cross Reference

- Analog Communications Interface (ACI)

Terminal Programming Instructions

To enter data for Program 33-02 (ACI Department Calling Group):

1. Enter the programming mode.
2. 33 02

3. Enter the number of the item you want to program.

4. Enter the ACI port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-01 : E&M Tie Line Basic Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 34-01 : E&M Tie Line Basic Setup** to defines the basic settings for each E&M tie line.

Input Data

Trunk Port Number	1-200

Item No.	Item	Input Data	Default	Related Program
01	**DID/E&M Start Signaling** Set the start signaling mode for DID and tie trunks. DID and tie trunks can use either immediate start or wink start signaling.	0 = 2nd dial tone 1 = Wink 2 = Immediate 3 = Delay	1	22-02
02	**DID/E&M Incoming Signaling Type** For DID and tie trunks, use this option to set the trunk's signaling type (Dial Pulse or DTMF)	0 = Dial Pulse 1 = PB (DTMF)	1	10-09
03	**E&M Dial-In Mode** 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.	0 = Specify Extension number 1 = Use conversion table	0	22-11
04	**E&M Line Dial Tone** Enter 1 if the tie line should send dial tone to the calling UX5000 once the call is set up. Enter 0 if the tie line should not send dial tone.	0 = Disable 1 = Enable	1	
05	**System Toll Restriction** Enable (1) or disable (0) the ability for tie line calls to follow the system toll restriction entries in Programs 21-05-01 through 21-05-13. If disabled, tie line toll restriction will be determined by 21-05-13.	0 = Disable 1 = Enable	0	21-05-13 34-08-01

Conditions

None

Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-01 (E&M Tie Line Basic Setup):

1. Enter the programming mode.
2. 34 01

   ```
   34-01-01    Trk Port 1
   Signal_Type    1:Wink
    back   ↑      ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   34-01-nn    Trk Port nnn
   nnnnn
     ←      –      +      →
   ```

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-02 : E&M Tie Line Class of Service

Level:	Feature Availability
IN	• Available.

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, you 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

You cannot use Program 20-06 to assign Class of Service to tie lines.

Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-02 (E&M Tie Line Class of Service):

1. Enter the programming mode.
2. 34 02

   34-02-01 Trk Port 1
   Mode1 Class_No. 1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   34-02-nn Trk Port nnn
   nnnnn
   ← – + →

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup

34-03 : Trunk Group Routing for E&M Tie Lines

Level:	Feature Availability
IN	• Available.

Description

Use **Program 34-03 : Trunk Group Routing for E&M Tie Lines** to assign the trunk group route 1-100) chosen when a user seizes a tie line and dials 9. (Set Trunk Group Routing in Program 14-07.) If the UX5000 has Automatic Route Selection, dialing 9 accesses ARS. You make a separate entry for each tie line - for each Night Service Mode.

Input Data

Trunk Port Number	1-200

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

Conditions

None

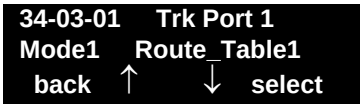
Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-03 (Trunk Group Routing for E&M Tie Lines):

1. Enter the programming mode.
2. 34 03



3. Enter the number of the item you want to program.

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-04 : E&M Tie Line Toll Restriction Class

Level:	Feature Availability
IN	• Available.

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	1-200

Item No.	Day/Night Mode	Toll Restriction Class	Default	Related Program
01	1-8	1-15	2	21-05 14-01-08

Conditions

You cannot use Program 20-06 to assign Toll Restriction to tie lines.

Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-04 (E&M Tie Line Toll Restriction Class):

1. Enter the programming mode.
2. 34 04

   34-04-01 Trk Port 1
   Mode1 T/R_Class_No.2
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   34-04-nn Trk Port nnn
   nnnnn
   ← – + →

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-05 : Tie Line Outgoing Call Restriction

Level:	Feature Availability
IN	• Available.

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.

Users are able to tandem trunk to any trunk group by default.

Input Data

Incoming Trunk Group Number	001-100

Outgoing Trunk Group Number	Input Data
1-100	0 = Enable 1 = Disable

Outgoing Trunk Groups	Incoming Trunk Groups								
	1	2	3	4	- - - - -	97	98	99	100
1	0	0	0	0		0	0	0	0
2	0	0	0	0		0	0	0	0
3	0	0	0	0		0	0	0	0
4	0	0	0	0		0	0	0	0
⋮									
97	0	0	0	0		0	0	0	0
98	0	0	0	0		0	0	0	0
99	0	0	0	0		0	0	0	0
100	0	0	0	0		0	0	0	0

Conditions

None

Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-05 (Tie Line Outgoing Call Restriction):

1. Enter the programming mode.
2. 34 05

   ```
   34-05-01    INC Group 1
   O.T.G.      001 1:No-Tande
    back  ↑     ↓  select
   ```

3. Enter the number of the item you want to program.

   ```
   34-05-nn    INC Group n
   nnnnn
    ←     –     +     →
   ```

4. Enter the Incoming Trunk Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-06 : Add / Delete Digit for E&M Tie Line

Level:	Feature Availability
IN	• Available.

Description

Use **Program 34-06 : Add / Delete Digit for E&M Tie Line** to set digits that the UX5000 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 UX5000 to ignore such numbers for a call.

  If individual extensions do not want to receive an incoming call, you could delete all of the 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 4 digits	No setting

Conditions

None

Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-06 (Add / Delete Digit for E&M Tie Line):

1. Enter the programming mode.
2. 34 06

3. Enter the number of the item you want to program.

4. Enter the Incoming Trunk Group port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-07 : E&M Tie Line Timer

Level:	Feature Availability
IN	• Available.

Description

Use **Program 34-07 : E&M Tie Line Timer** to define the UX5000 service tone timers.

Input Data

Item No.	Item	Input Data	Default
01	ODT/SRT Mark method	0-64800	3
02	ODT/SRT Wink start method	0-64800	0
03	1st digit Pause (LDT)	0-64800	3
04	Leased Line Guard (LDT)	0-64800	0
05	Trunk answer detect timer for E&M / E1	0-64800	30

Conditions

None

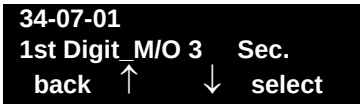
Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-07 (E&M Tie Line Timer):

1. Enter the programming mode.
2. 34 07



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-08 : Toll Restriction Data for E&M Tie Lines

Level:	Feature Availability
IN	• Available.

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	No setting	21-05-13 34-01-05

Conditions

None

Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-08 (Toll Restriction Data for E&M Tie Lines):

1. Enter the programming mode.
2. 34 08

3. Enter the number of the item you want to program.

4. Enter the Deny Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 34 : Tie Line Setup
34-09 : ANI/DNIS Service Options

Level:	Feature Availability
IN	• Available.

Description

Use **Program 34-09 : ANI/DNIS Service Options** to define the ANI//DNIS service option setup for E&M Class of Service.

Input Data

Class of Service	01-15

Item No.	Name	Input Data	Default		Related Program
			COS 01-14	COS 15	
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.)	0 = Address 1 = *ANI* 2 = *DNIS* 3 = *ANI*Address* 4 = *ANI*DNIS* 5 = *DNIS*ANI* (* = Delimiter Code)	0	0	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 *.	1-9, 0, *, #	*	*	34-09-01
03	**Route Setup of Receive Dial** This option specifies the source of the data the UX5000 uses to route incoming ANI/DNIS calls. If option '2' is selected, refer to Program 34-09-04.	0 = Fixed Route (Item 08) 1 = Routes on Received DNIS or Address Data 2 = Routes on Received ANI Data	0	0	22-09-01 22-11-01 34-09-04 34-09-08

Item No.	Name	Input Data	Default		Related Program
			COS 01-14	COS 15	
04	**Route Table Setup of Target Dial** The option sets how the UX5000 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, then 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 then compared to the entries in Program 13-04-01 and then routed according to Program 13-04-03.	0 = ABB Table (Program 13-03) 1 = DID Table (Program 22-11)	0	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 if ANI data should appear on terminal displays as part of Caller ID display.	0 = Display Off 1 = Display On	1	0	13-04 20-09-02 22-11-03 23-09-04
06	**Routing ABB Table Setup** Use this option to define which part of the ABB Table set up in Program 13-04 the UX5000 will use 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 UX5000 uses the part of the table for look-ups. When you specify a starting address and length, the UX5000 uses that part of the table for routing. If the incoming ANI/DNIS number data matches the Number entry in the table, the UX5000 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 = 1000 End = 1199	Start = 0 End = 0	13-04
07	**Routing on ANI/DNIS Error** This option lets you determine how the UX5000 will handle an ANI/DNIS call if a data error is detected in the incoming data string.	0 = Play busy tone to caller 1 = Route the caller to the ring group specified in Program 25-03	1	0	25-03

Program 34 : Tie Line Setup
34-09 : ANI/DNIS Service Options

Item No.	Name	Input Data	Default		Related Program
			COS 01-14	COS 15	
08	**Routing When Destination Busy or No Answer** This option lets you determine how the UX5000 will handle an ANI/DNIS call if destination is busy or does not answer.	0 = Play busy or ring-back tone to caller 1 = Route the caller to the ring group specified in Program 25-04	0	0	25-04
09	**Calling Number Address Length** When Item 1=0 (ANI/DNIS receive format is address), use this option to specify the address length. The choices are from 1 to 8 digits in length.	1-8	7	7	34-09-01

Conditions

None

Feature Cross Reference

- T1 Trunking (with ANI/DNIS Compatibility)
- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-09 (ANI/DNIS Service Options):

1. Enter the programming mode.
2. 34 09

   ```
   34-09-01    FCTN Cls1
   Format  0:Address
    back   ↑     ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   34-09-nn    FCTN Cls1
   nnnnn
     ←     –     +     →
   ```

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to delete Information Digits notified from the Network for Feature Group D trunks.

Input Data

Incoming Trunk Group Number	001-100

Item No.	Item	Input Data	Default	Related Programs
01	**Delete Digit** Set the number of digits to be deleted from the head of ANI Information. Example:ANI Information…111222 Deletion digit … Two digits Dial after processed … 1222	2	0-9 (0=no deletion)	21-05-13 34-01-05

Conditions

The blade is automatically reset after changing this program.

Feature Cross Reference

- Tie Lines

Terminal Programming Instructions

To enter data for Program 34-10 (Digit Delete for T1 ANI):

1. Enter the programming mode.
2. 34 10

3. Enter the number of the item you want to program.

4. Enter the Incoming Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 35 : SMDR and Account Code Setup
35-01 : SMDR Options

Level:
IN

Feature Availability
• Available.

Description

Use **Program 35-01 : SMDR Options** to set the SMDR (Station Message Detail Recording) options for each of the 8 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 = No setting 3 = LAN	0
02	**Output Destination Number** This option specifies the SMDR printer output extension (CTA/CTU extension number).	Up to 8 digit	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	**Min. Digits** Outgoing calls must be at least this number of digits for inclusion in the SMDR report.	0-24 (0 = Not applied)	0
06	**Min. Call Duration** The duration of a call must be at least this interval to be included on the SMDR report.	0-65535 seconds (0 = All)	0
07	**Min. Ring Time** A call must ring for at least this interval to be included on the SMDR report.	0-65535 seconds (0 = All)	0

Item No.	Item	Input Data	Default
08	**SMDR Format** ***Do not change:*** This option is added to allow an increased account code field from 8 to 16 when used in the U.K. This allows 16 characters of the Caller ID name to be displayed. For the U.S., this option is set to "0" and should remain at this setting as 16 characters are already provided for the account code field.	0: FORMAT 1 (Format for NA) 1: FORMAT 2 (Format for UK)	0

Conditions

None

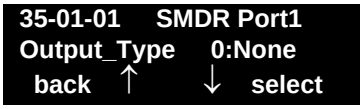
Feature Cross Reference

- Station Message Detail Recording

Terminal Programming Instructions

To enter data for Program 35-01 (SMDR Options):

1. Enter the programming mode.
2. 35 01



3. Enter the number of the item you want to program.

4. Enter the SMDR port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 35 : SMDR and Account Code Setup
35-02 : SMDR Output Options

Level:	Feature Availability
IN	• Available.

Description

Use **Program 35-02 : SMDR Output Options** to set the SMDR (Station Message Detail Recording) output options for each of the 8 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 UX5000 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 UX5000 should display the trunk name (0) or the number (1) on SMDR reports. ***If this option is set to "0", 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
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 will 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

Item No.	Item	Input Data	Default
11	**Walking Toll Restriction Table Number** - Not Used -	0=Not Displayed 1=Displayed	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	
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** Determine if the CLI/DID Number should be displayed. *Caller ID Name (2) requires software 4.0E+.*	0=Caller ID Number 1=DID Calling Number 2=Caller ID Name	0
16	**Trunk Name or Received Dialed Number** Determine which should be displayed for an incoming call - the trunk name as assigned in Program 14-01-01 (0), the received dialed number (1), or both (2). If set to (1), ANI/DNIS trunks can print DNIS digits. For DID trunks, if the received number is not defined in Program 22-11-01, then no number will be printed. If both (2) is selected, the SMDR detail will show the 3 characters of the trunk name, followed by the last 6 digits of the received dialed number.	0=Trunk port name 1=Received dialed number 2=Both	0
17	**Print Account Code or Caller ID Name** Determine whether the Account Code or Caller ID name should appear in the SMDR record. **Note:** Program 35-01-08 must be set to "0" for this entry to be followed.	0=Acount Code 1=Caller ID Name	0
18	**Caller ID Name Output Method** Select whether to display up to 16 characters of the Caller ID Name on the same line as the call record or if a line feed should be added and up to 24 characters of the Caller ID Name will be displayed on the following line. If the line feed option is selected, the Caller ID Name will be displayed on the next line as : NEXT "Caller ID Name". This setting will work regardless of the setting in Program 35-02-15. **Note:** With this option set to "1", if your communications program (such as HyperTerminal) has the line wrap option enabled in the ASCII setup, an additional line break may appear above the Caller ID name line.	0=Same Line 1=Line Feed Prior to Caller ID	0
19	**Dialed Number Output Format** Determine if the dialed number should display the first 20 digits or the last 20 digits. This option is only available for outgoing calls.	0=First 20 Digits 1=Last 20 Digits	0

Item No.	Item	Input Data	Default
20	**External Information CFW Mode** Determine which information is displayed in the "STATION" area for a transferred call when the extension has Call Forward set with an Abbreviated Dial number as the destination. Selecting "0" (Transfer Info) will display the extension number which **called** the extension with external Call Forward set. Selecting "1" (Incoming Info) will display the extension number which **has the external Call Forward set**. This option only applies when Call Forward is set using a service code (Program 11-11-01~11-11-07) and the destination uses an Abbreviated Dial bin. It does not include Off-Premise or Centrex transfers.	0 = Transfer Information 1 = Incoming Information	0

Conditions

None

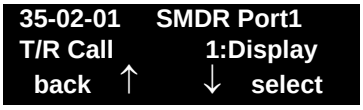
Feature Cross Reference

- Station Message Detail Recording

Terminal Programming Instructions

To enter data for Program 35-02 (SMDR Output Options):

1. Enter the programming mode.
2. 35 02



3. Enter the number of the item you want to program.

4. Enter the SMDR port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 to which 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

Terminal Programming Instructions

To enter data for Program 35-03 (SMDR Port Assignment for Trunk Group):

1. Enter the programming mode.
2. 35 03

3. Enter the number of the item you want to program.

4. Enter the trunk group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available - 64 Department Groups.

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 to which the outgoing SMDR information should be sent.

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 and Account Code Setup

35-04 : SMDR Port Assignment for Department Groups

Terminal Programming Instructions

To enter data for Program 35-04 (SMDR Port Assignment for Department Groups):

1. Enter the programming mode.
2. 35 04

3. Enter the number of the item you want to program.

4. Enter the Extension (Department) Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 35-01 : Account Code Setup** to set various Account Code options for an extension's 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 1 = Account Codes optional 2 = Account Codes required but not verified 3 = Account Codes required and verified	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 1 = Account Codes just for toll calls	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 1 = Account Codes for incoming calls enabled	0
04	**Hiding Account Codes** Use this option to either hide or show the Account codes on a terminal's display.	0 = Account Codes displayed 1 = Account Codes hidden	0

Conditions

None

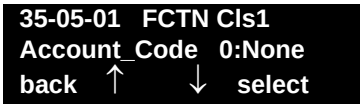
Feature Cross Reference

- Account Codes

Terminal Programming Instructions

To enter data for Program 35-05 (Account Code Setup):

1. Enter the programming mode.
2. 35 05



3. Enter the number of the item you want to program.

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 from 3-16 digits long, using the characters 0-9 or #. Use the FLASH key to enter a wild card. For example, the entry FLASH234 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

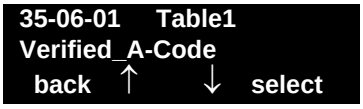
Feature Cross Reference

- Account Codes

Terminal Programming Instructions

To enter data for Program 35-06 (Verified Account Code Table):

1. Enter the programming mode.
2. 35 06



3. Enter the number of the item you want to program.

4. Enter the Verified Account Code Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 40 : Voice Mail Setup

40-01 : Voice Mail Basic Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 40-01 : Voice Mail Basic Setup** to define the basic operation of Voice Mail (DSPDB). ***The DSPDB Voice Mail is not used in U.S.***

Level:
SA

Feature Availability
• Available.

Description

Use **Program 40-02 : Mailbox Setup** to define the mailbox of the Voice Mail (DSPDB). ***The DSPDB Voice Mail is not used in U.S.***

Program 40 : Voice Mail Setup
40-03 : Message Recording Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 40-03 : Message Recording Setup** to define the auto-answering operation of the Voice Mail (DSPDB). ***The DSPDB Voice Mail is not used in U.S.***

Level:	Feature Availability
IN	• Available.

Description

Use **Program 40-04 : Live Recording Setup** to define the conversation recording operation of the Voice Mail (DSPDB). ***The DSPDB Voice Mail is not used in U.S.***

Program 40 : Voice Mail Setup
40-05 : Call Information Setup

Level:
IN

Feature Availability
• Available.

Description

Use **Program 40-05 : Call Information Setup** to define the incoming notice of the Voice Mail (DSPDB). ***The DSPDB Voice Mail is not used in U.S.***

Level:	Feature Availability
IN	• Available.

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 (DSPDB). ***The DSPDB Voice Mail is not used in U.S.***

Program 40 : Voice Mail Setup
40-07 : Voice Prompt Language Assignment for VRS

Level:
IN

Feature Availability
• Available.
• Languages for input data 17-20 require software 2.0+.

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** Although the UX5000 allows this option to be changed in programming, the language will only change if the DSPDB has the firmware which provides the newly selected language.	01 = US English 02 = UK English 03 = Australian English 04 = French Canadian 05 = Dutch 06 = Mexican Spanish 07 = Latin America Spanish 08 = Italian 09 = German 10 = Madrid Spanish 11 = Norwegian 12 = Parisian French 13 = Brazilian Portuguese 14 = Japanese 15 = Mandarin Chinese 16 = Korean 17 = IB Portuguese 18 = Greek 19 = Danish 20 = Swedish	1

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 40-07 (Voice Prompt Language Assignment for System):

1. Enter the programming mode.
2. 40 07

   ```
   40-07-01
   Lang   1 :US English    |1
    back  ↑       ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   40-07-nn
   nnnnn
     ←             →
   ```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 40 : Voice Mail Setup

40-08 : Voice Prompt Language Assignment for Mailboxes

Level:	Feature Availability
IN	• Available.

Description

Use **Program 40-08 : Voice Prompt Language Assignment for Mailboxes** to select the language to be used for the mailboxes. ***The DSPDB Voice Mail is not used in U.S.***

Level:	Feature Availability
IN	• Available.

Description

Use **Program 40-09 : Voice Mail Multiple Address Group Setup** to define the broadcast group of a Voice Mail (DSPDB) mailbox. ***The DSPDB Voice Mail is not used in U.S.***

Program 40 : Voice Mail Setup
40-10 : Voice Announcement Service Option

Level:	Feature Availability
IN	• Available.

Description

In **Program 40-10 : Voice Announcement Serv ice Option** define the UX5000 options for the Voice Announcement feature with the VRS.

Input Data

Item No.	Item	Input Data	Default	Related Program
01	**VRS Fixed Message** Enable (1) or disable (0) the UX5000's ability to play the fixed VRS messages (such as "You have a message.").	0 = Not Used 1 = Used	1	
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 will wait this interval for a VRS port to become free.	0-64800	0	
05	**Park and Page Repeat Timer** If a Park and Page is not picked up within this interval, the Paging announcement repeats.	0-64800	0	
06	**Set VRS Message for Private Call Refuse** Use this option to assign the VRS message number to be played when Private Call Refuse is enabled for a call with "Private" Caller ID information. When the Fixed message is set, the VRS message is "Service finished. Disconnect the line please".	0 = Does not play message 1-100 = VRS message number to play, 101 = Fixed message)	0	14-01-27
07	**Set VRS Message for Caller ID Refuse** This item assigns the VRS message number to be used as the Caller ID Refuse message when the Caller ID number matches the entry in Program 22-16. When the Fixed message is set, the VRS message is "Service finished. Disconnect the line please".	0 = Does not play message 1-100 = VRS message number to play, 101 = Fixed message)	0	14-01-27

08	**Busy Call Attendant Message** Define the Call Attendant message number to be heard when a called extension is busy. This is used when setting the option system-wide. (Program 15-01-08 is not used.)	0=no message 001-100= message number	0	15-01-08
09	**No Answer Call Attendant Message** Define the Call Attendant message number to be heard when a called extension does not answer. This is used when setting the option system-wide. (Program 15-01-09 is not used.)	0=no message 001-100= message number	0	15-01-08

Conditions

None

Feature Cross Reference

- Voice Response System (VRS)

Terminal Programming Instructions

To enter data for Program 40-10 (Voice Announcement Service Option):

1. Enter the programming mode.
2. 40 10

   40-10-01
   VRS Fixed Msg 1:Use
   back ↑ ↓ select
3. Enter the number of the item you want to program.

   40-10-nn
   nnnnn
   ← →
4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 40 : Voice Mail Setup
40-11 : Pre-Amble Message Assignment

Level:	Feature Availability
IN	• Available.

Description

In **Program 40-11 : Pre-Amble Message Assignment** to assign the VAU message number to be used as the Pre-amble Message for each trunk. When the extension user answers the incoming call, the assigned VAU message will be sent to the outside caller.

Input Data

Trunk Port Number	1-200
Day/Night Mode	1-8

Item No.	Day/Night Mode	VAU Message Number	Default
01	1-8	0-100 (0=No Service)	0

Conditions

None

Feature Cross Reference

- Voice Response System (VRS)

Terminal Programming Instructions

To enter data for Program 40-11 (Pre-Amble Message Assignment):

1. Enter the programming mode.
2. 40 11

3. Enter the number of the item you want to program.

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 40 : Voice Mail Setup
40-12 : One Digit Access Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 40-12 : One Digit Access Setup** to define the service code a user presses when accessing the Voice Mail (DSPDBU). ***The DSPDB Voice Mail is not used in U.S.***

Level:	Feature Availability
IN	• Available.

Description

In **Program 41-01 : System Options for ACD** define the UX5000 options for the ACD feature.

Input Data

Item No.	Item	Input Data	Default
01	**System Supervisor Extension** Select the extension which will be used as the ACD system supervisor.	Up to 8 digits (0-9, *, #)	No setting
02	**Login ID Code Digit** Define the number of digits for the Login ID.	0-20 (0 = No Login ID)	0
03	**ACD MIS Connection Ports** Select "3" to allow the connection port to communicate through the LAN port on the CCPU.	0 = No setting 1 = -- Reserve -- 2 = -- Reserve -- 3 = LAN (CPU)	0
04	**P Command Output for Busy Status** When the number of queued ACD overflow calls exceeds the limit and a busy tone is sent to the caller, determine if the call is counted in the ACD MIS software.	0=Count 1=Do Not Count	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-01 (System Options for ACD):

1. Enter the programming mode.
2. 41 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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 calls or 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

Conditions

None

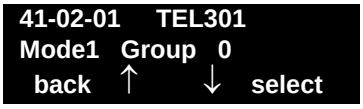
Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-02 (ACD Group and Agent Assignments):

1. Enter the programming mode.
2. 41 02



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter the mode number to be defined or press FLASH to use the displayed entry.
6. Enter data for the item you selected + HOLD.
7. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
SA

Feature Availability
• Available.

Description

In **Program 41-03 : Incoming Ring Group Assignments for ACD Group**, for each incoming trunk group set up in Program 22-05, designate into 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 41-05 and 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
02	**Night Announcement Service** For each Incoming Trunk Ring Group (1-100) set up in Program 22-05-01, designate whether the Night Announcement Service should be enabled (1) or disabled (0). If set to enabled, a source must be set (Program 41-12) otherwise incoming calls will ring no where or to logged out agents.	0 = No 1 = Yes	0
03	**Priority** Determine whether an incoming call to a trunk ring group should follow a priority assignment (0=normal, 1-7 [1=highest priority, 7=lowest priority]).	0, 1-7 (0 = No priority)	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)
- Ring Groups

Program 41 : ACD Setup

41-03 : Incoming Ring Group Assignment for ACD Group

Terminal Programming Instructions

To enter data for Program 41-03 (Incoming Ring Group Assignment for ACD Group):

1. Enter the programming mode.
2. 41 03

3. Enter the number of the item you want to program.

4. Enter the Incoming Ring Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

For each ACD Group (1-64), use **Program 41-04 : ACD Group Supervisor** to assign the group's supervisor extension and operating mode. A supervisor's extension receives ACD Group calls just like all other agents. Operating modes are:

- 0 = Supervisor's extension does not receive ACD Group calls.
- 1 = Supervisor's extension receives ACD Group overflow calls only.
- 2 = Supervisor's 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 8 digits) (0-9, *, #)	No setting
02	Operation Type	0 = Not receive any ACD incoming calls 1 = Receive ACD incoming calls in case of overflow 2 = Receive ACD incoming calls all the time	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.

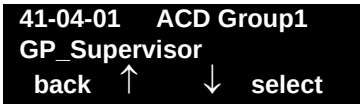
Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-04 (ACD Group Supervisor):

1. Enter the programming mode.
2. 41 04



3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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. Once 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 will receive the following types of calls when they are logged in;

- ACD Call on a Trunk
  If 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

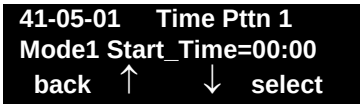
Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-05 (ACD Agent Work Schedules):

1. Enter the programming mode.
2. 41 05



3. Enter the number of the item you want to program.

4. Enter the Time Pattern number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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. Once 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

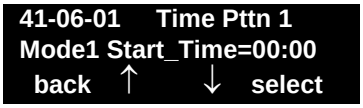
Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-06 (Trunk Work Schedules):

1. Enter the programming mode.
2. 41 06



3. Enter the number of the item you want to program.

4. Enter the Time Pattern number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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		
	3 = Tuesday		
	4 = Wednesday		
	5 = Thursday		
	6 = Friday		
	7 = Saturday		

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-07 (ACD Weekly Schedule Setup):

1. Enter the programming mode.
2. 41 07

   41-07-01
   Sunday =Pattn0
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   41-07-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

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 call. 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** Select the type of overflow, if any, for an ACD group.	0 = No overflow 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** Specify the destination option to which ACD Overflow calls should be transferred	0 = No Setting 1-64 = ACD Group 65 = Overflow Table (Program 41-09) 66 = Voice Mail Integration 67 = Off-Premise via ABB Dial Bin (Program 41-08-05) 68 = Incoming Ring Group (Program 41-08-06)	0
03	**Delay Announcement Source Type** For each ACD Group (1-64), assign the announcement message types. Delay announcement functions are not available for ACD pilot number call. Each ACD Group can have unique overflow options. If multiple sources are required, an entry of "4" (Flexible) is required. the UX5000 will then refer to Programs 41-08-08 and 41-08-09.	0 = ACI 1 = VRS (DSPDB) 2 = VMI (Local Voice Mail Integration, in-skin) 3 = CVM (Centralized Voice Mail) 4 = Flexible (Program 41-08-08, 41-08-09)	0

04	**ACD Overflow Transfer Time** Overflow out of the ACD queue (mode 4 only) occurs after this timer expires. The UX5000 starts this timer as soon as a call goes into queue. Disable this timer (0) if you want queued callers to stay in queue until they are answered or they hang up. If you want queued callers to eventually overflow, consider setting this value at 180 seconds. When it times out, the UX5000 overflows the caller to the destination defined in Program 41-09-01.	0-64800 (Seconds)	30
05	**Abbreviated Dial Area With Overflow)** This program defines which Abbreviated Dial dial to use when Program 41-08-02 is programmed with an entry of ’67’.	0 – 1999 (Abbreviated dial areas)	1999
06	**Incoming Ring Group With Overflow** This program defines which incoming Ring Group to use when Program 41-08-02 is programmed with an entry of ’68’.	1 – 100 (Incoming Ring Group)	1
07	**DSPDB-VM Message Box No With Overflow** ***- Not Used in the U.S. -***	0-500	0
08	**First Delay Announcement Source Type** If Program 41-08-03 is defined as "4" (Flexible), select the source for the first delay announcement. When using the ACI, define the delay announcement items in Program 41-10. With the VRS, use Program 41-11, and if either local voice mail or centralized voice mail is selected, define the voice mail delay announcement items in Program 41-19. This entry is ignored unless Program 41-08-03 is set to "4".	0 = ACI 1 = VRS (DSPDB) 2 = LVM (Local Voice Mail) 3 = CVM (Centralized Voice Mail)	0
09	**Second Delay Announcement Source Type** If Program 41-08-03 is defined as "4" (Flexible), select the source for the second delay announcement. When using the ACI, define the delay announcement items in Program 41-10. With the VRS, use Program 41-11, and if either local voice mail or centralized voice mail is selected, define the voice mail delay announcement items in Program 41-19. This entry is ignored unless Program 41-08-03 is set to "4".	0 = ACI 1 = VRS (DSPDB) 2 = LVM (Local Voice Mail) 3 = CVM (Centralized Voice Mail)	0

Conditions

Delay announcement functions are not available for ACD pilot number call.

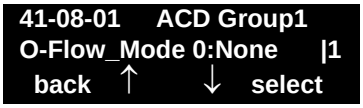
Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-08 (ACD Overflow Options):

1. Enter the programming mode.
2. 41 08



3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
SA	• Available.

Description

Use **Program 41-09 : ACD Overflow Table Setting** to define the ACD group to which a call will be 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

If, while the call is ringing, the extension to which the call was transferred becomes available, both the extension and the overflow ACD group will ring.

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-09 (ACD Overflow Table Setting):

1. Enter the programming mode.
2. 41 09

   41-09-01 ACD Group1
   Order1 ACD_Group 0
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   41-09-nn ACD Groupnn
   nnnnn
   ← – + →

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 41 : ACD Setup
41-10 : PGDAD Delay Announcement

Level:	Feature Availability
SA	• Available.

Description

Use **Program 41-10 : PGDAD Delay Announcement** to define the PGDAD port number to be used for the delay announcement.

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

Input Data

ACD Group No	01-64

Item No.	Item	Input Data	Default
01	1st Delay Announcement PGDAD Port Number	0-96 (0 = No setting)	0
02	2nd Delay Announcement PGDAD Port Number	0-96 (0 = No setting)	0
03	1st Delay Announcement Connection Timer	0-64800	4
04	2nd Delay Announcement Connection Timer	0-64800	60
05	**2nd Delay Announcement Sending Duration** Set the timer for the 2nd Delay announcement. Once this timer expires, the call will disconnect. To keep the call in queue, set this timer to “0”.	0-64800	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-10 (PGDAD Delay Announcement):

1. Enter the programming mode.
2. 41 10

3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 41 : ACD Setup
41-11 : VRS Delay Announcement

Level:
SA

Feature Availability
• Available.

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. Turn 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.

Input Data

ACD Group No	01-64

Item No.	Item	Input Data	Default
01	Delay Message Start Timer	0-64800	0
02	1st Delay Message Number	0-101 (0 = No message, 101 = Fixed message)	0
03	1st Delay Message Sending Count	0-255	0
04	2nd Delay Message Number	0-101 (0 = No message, 101 = Fixed message)	0
05	2nd Waiting Message Sending Count	0-255	0
06	Tone Kind at Message Interval	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0
07	ACD Forced Disconnect Time After the After 2nd Delay Message	0-64800	60
08	Queue Depth Announcement	0=Disable 1=After 1st Only 2=After 2nd Only 3=After 1st and 2nd	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-11 (VRS Delay Announcement):

1. Enter the programming mode.
2. 41 11

3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 41 : ACD Setup
41-12 : Night Announcement Setup

Level:	Feature Availability
IN	• Available.

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 (DSPDB)	0
02	Night Announcement ACI Port Number	0-96 (0 = No setting)	0
03	ACD Night Announce Sending Time	0-64800	30

Conditions

The night announcement function is not available for ACD pilot number call.

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-12 (Night Announcement Setup):

1. Enter the programming mode.
2. 41 12

3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 41 : ACD Setup

41-13 : VRS Message Number for Night Announcement

Level:	Feature Availability
IN	• Available.

Description

Use **Program 41-13 : VRS 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.

Input Data

ACD Group No	01-64

Item No.	Item	Input Data	Default
01	VRS Message Number	0-100 (0 = No message)	0
02	Tone Kind at Message Interval	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-13 (VRS Night Announcement):

1. Enter the programming mode.
2. 41 13

3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 41 : ACD Setup
41-14 : ACD Options

Level:
SA

Feature Availability
• Available.

Description

Use **Program 41-14 : ACD Options** 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 within 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	Related Programs
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 mode key is pressed. 1=After call is finished automatically.	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's priority 1=Priority order by Program 41-03-03	0	41-03-03
04	**Automatic Answer** Enable/disable Automatic Answer for agents using headsets.	0=Off 1=On	0	
05	-- Not used --			
06	**Call Queuing after 2nd Announcement** Use this option to determine whether an outside caller should hear a final announcement [ex: the company is closed] (1) or whether the caller should be placed back into queue for the ACD group (0).	0=Enable 1=Disable	0	
07	**Automatic Off Duty for SLT** Enable/disable Automatic Off Duty (rest) mode for agents with SLT terminals.	0=No change to off duty mode 1=Change to off duty mode automatically	0	
08	ACD off duty mode	0=Can not receive internal call 1=Can receive internal call	0	

09	Automatic Wrap Up End Time	0-64800 (Seconds)	0	
10	**ACD No Answer Skip Time** Set how long a call into the ACD Group will ring an idle extension before routing to the next agent. This timer must be greater than Program 20-04-03 : Delay Ring Timer for the ACD Call Coverage Key with delayed ringing to work.	0-64800 (Seconds)	10	20-04-03
11	-- Not used --			
12	Start Headset Ear Piece Ringing (for SLT)	0-64800 (Seconds)	0	
13	**ACD Queue 1-Digit Assignment** When the VRS provides the announcements for an ACD queue, a caller waiting in the ACD queue for an available agent, can dial a single digit code to exit the queue and be transferred to a defined destination. This option can be set to allow the user to dial out during the delay announcement or within a set time after the announcement finishes. In order for this option to work, a VRS must be installed in the UX5000 and it must be providing the ACD announcements. Define the options for escaping from queue:			41-14-14 41-14-15
	• **ACD Group Number**	01-64	-	
	• **Single Digit Code**	1-9, 0, *, #	No Entry	
	• **Destination Type** If the Destination Type is set to call an extension, if the extension is busy at the time the caller presses the single digit code, the call will stay in queue. If the Destination Type is set to call an Abbreviated Dial number and all trunks are busy, the UX5000 will automatically retry every 5 seconds. This is a fixed timer and can not be changed. If a trunk becomes available within the 5 seconds, the UX5000 waits until the timer expires before seizing the trunk. If the Destination Type is set to transfer to an extension number, if the destination extension is set for Call Forwarding, the Call Forwarding will be ignored. If the Destination Type is set to transfer to the voice mail, create a separate voice mail box for each ACD pilot number (Program 11-17). The caller will be transferred to the voice mail box for that group.	0 = None 1 = Extension or Voice Mail 2 = Incoming Ring Group 3 = Abbreviated Dial Bin 4 = ACD Group	0 (None)	11-17

13 (cont.)	• **Destination Number**	***If 1 selected as type:*** extension number or voice mail pilot number (8 digits max.), (entering the voice mail pilot number allows for integration into the Queue's pilot number voice mailbox). ***If 2 selected as type:*** Incoming Ring Group Number (001-100) ***If 3 selected as type:*** Abbreviated Dial Bin (abbreviated dial destination must be outgoing trunk call only - no intercom calls) (0-1999) ***If 4 is selected as type:*** ACD Group Number (01-64)	No Entry	
14	**DTMF Detector Assignment** For each ACD Group, determine whether the DTMF should be detected during the Delay Announcement or after the Delay Announcement has finished. If this program and Program 41-14-15 are both set to "0", the Escape From Queue feature is disabled. If this program is set to "1", Program 41-14-15 is ignored. The DTMF tone will only be detected while the Delay Announcement is playing.	0 = Detect DTMF After Delay Announcement 1 = Detect DTMF During Delay Announcement	1	41-14-15
15	**DTMF Detect Time After Delay Announcement** For each ACD Group (01-64), determine how long the UX5000 allows the user to dial the Escape From Queue code defined in 41-14-13 after the Delay Announcement. Once this timer expires, the user will not be able escape from queue until the next announcement plays. This program is used when Program 41-14-14 is set to "0" and applies to both 1st and 2nd Delay Announcements. If this program and Program 41-14-14 are both set to "0", the feature is disabled.	0-64800 (Seconds)	0	41-14-13 41-14-14

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-14 (ACD Options):

1. Enter the programming mode.
2. 41 14

   41-14-01 ACD Group1
   EMG Call Mode 0:On
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   41-14-nn ACD Groupnn
   nnnnn
   ← – + →

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:
SA

Feature Availability
• Available.

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 will 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 timing for displaying status.

Input Data

ACD Group No.	01-64

Item No.	Item	Input Data	Default
01	The number of calls in ACD Queue to activate Alarm information	0-200 (0 = No Alarm)	0
02	The interval time of Alarm information	0-64800 (Sec.)	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-15 (ACD Queue Alarm Information):

1. Enter the programming mode.
2. 41 15

3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
SA	• Available.

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 UX5000 should handle calls when the number of calls in queue exceeds the threshold.	0 = The longest waiting call is transferred 1 = The last waiting call is transferred 2 = Send Busy Tone	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-16 (ACD Threshold Overflow):

1. Enter the programming mode.
2. 41 16

   41-16-01 ACD Group1
   Queue Limit 0
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   41-16-nn ACD Groupnn
   nnnnn
   ← – + →

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:
SA

Feature Availability
• Available.

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 8 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 can not log in/out an AIC member as they are not normal ACD agents.

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-17 (ACD Login Mode Setup):

1. Enter the programming mode.
2. 41 17

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:
SA

Feature Availability
• Available.

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 4 digits	No setting
02	**Default ACD Group Number** When using the AIC mode and an agent is logged into multiple ACD groups, this entry determines which ACD group settings in Program 41-14-xx will be followed for that agent.	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

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-18 (ACD Agent Identity Code Setup):

1. Enter the programming mode.
2. 41 18

   41-18-01 AIC TBL 1
   AIC Code
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   41-18-nn AIC TBL nnn
   nnnnn
   ← – + →

4. Enter the Agent Identity Code (AIC) number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
SA	• Available.

Description

Use **Program 41-19 : Voice Mail Delay Announcement** to assign voice mail ACD Announcement Mailboxes as the message source for the 1st and 2nd Announcement Messages. This option is only applicable to ACD Overflow Modes 1, 4, 5 and 9 with announcement type 2 [Program 41-08-03]). This can also work with modes 2, 3, and 8, but Program 41-08-03 must be set to "0". Refer to Program 41-08 for more on setting up the ACD overflow options.

Input Data

ACD Group No	01-64

Item No.	Item	Input Data	Default
01	**Delay Message Start Timer** Determine how long the UX5000 waits before playing the Delay Message.	0-64800	0
02	**Mailbox Number for 1st Announcement Message** Assign voice mail ACD Announcement Mailbox as the message source for the 1st Announcement Message. This option is only applicable to ACD Overflow Modes 1, 4, 5 and 9 (source 0/type2). Use Program 41-08 to set up the ACD overflow options.	Dial (Up to 8 digits)	No Setting
03	**1st Delay Message Sending Count** Determine the 1st Delay Message Sending Count. This entry must be set to 1 or higher in order for the message to play.	0 = No Message Played, 1-255	0
04	**Mailbox Number for 2nd Announcement Message** Assign voice mail ACD Announcement Mailboxes as the message source for the 2nd Announcement Message. This option is only applicable to ACD Overflow Modes 1, 4, 5 and 9 (source 0/type2). Use Program 41-08 to set up the ACD overflow options.	Dial (Up to 8 digits)	No Setting
05	**2nd Delay Message Sending Count** Determine the 2nd Delay Message Sending Count. This entry must be set to 1 or higher in order for the message to play.	0 = No Message Played, 1-255	0
06	**Wait Tone Type at Message Interval** Define the what the caller will hear between the messages.	0 = Ring Back Tone 1 = MOH Tone 2 = BGM Source	0
07	**ACD Forced Disconnect Time After 2nd Announcement** Assign how long the UX5000 should wait after the end of the ACD delay message before disconnecting.	0-64800	60
08	**Delayed Message Interval Time** Set the timer for the interval between the Delayed Messages.	0-64800	20

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)
- Voice Response Service (VRS)

Terminal Programming Instructions

To enter data for Program 41-19 (Voice Mail Delay Announcement):

1. Enter the programming mode.
2. 41 19

3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
SA	• Available.

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, as well as 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 timing 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 terminal's display.	0-64800 seconds	***5***
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 terminals active on a call, logged out, or in wrap-up.	0-64800 seconds	60

04	**ACD Call Waiting Alarm** Enable or disable the queue alarm.	0 = Disable 1 = Enable	0
05	**ACD Call Waiting Alarm Send Time** Set how long the Call Waiting Alarm should sound.	0-64800 seconds	0

Conditions

None

Feature Cross Reference

- Automatic Call Distribution (ACD)

Terminal Programming Instructions

To enter data for Program 41-20 (ACD Queue Display Settings):

1. Enter the programming mode.
2. 41 20

3. Enter the number of the item you want to program.

4. Enter the ACD Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 42 : Hotel Setup
42-01 : System Options for Hotel/Motel

Level:	Feature Availability
IN	• Available.

Description

Use Program **42-01 : System Options for Hotel/Motel** to assign the UX5000 options for Hotel/Motel Service.

Input Data

Item No.	Item	Input Data	Default
01	**Answering Message Mode for Wake Up Call (Hotel Mode)** Use this option to determine what a guest hears when they answer a Wake Up call. The options are Music on Hold, VRS message, or a VRS message and time.	0 = MOH 1 = VRS Message (specified in 42-01-02) 2 = VRS Message (specified in 42-01-02) + Time	0
02	**Wake Up Call Message Assignment** VRS Message for Wake Up Calls. You'll need to make an entry for this program if you have selected option 1 or 2 in Item 1 above.	0-100 (0 = No setting)	0
03	**Wake Up Call No Answer** If enabled (1), unanswered Wake Up calls will automatically ring the operator. If disabled (0), unanswered Wake Up calls will not ring the operator.	0 = No transfer 1 = Transfer to the Operator	0
04	**Setup Message Mode for Wake Up Call (Hotel Mode)** Determine what the user will hear after setting a Wake Up message.	0 = Only Confirmation Tone 1 = VRS Message 2 = Time Information and VRS	0
05	**Wake Up Call Message Assignment** Assign the VRS Message heard after programming Wake Up calls. You need to program this option only if you have enabled mode 1 or 2 in Program 42-01-04 above.	0-100 = VRS Message Number	-

Conditions

None

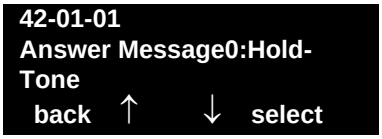
Feature Cross Reference

- Hotel/Motel

Terminal Programming Instructions

To enter data for Program 42-01 (System Options for Hotel/Motel):

1. Enter the programming mode.
2. 42 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 42 : Hotel Setup
42-02 : Hotel/Motel Terminal Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 42-02 : Hotel/Motel Terminal Setup** to define the basic operation of the Hotel/Motel extensions.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Input Data	Default
01	**Hotel Mode** If you want an extension to operate in the Hotel/Motel mode, 1. If you want the terminal to operate in the business mode, enter 0.	0 = Normal 1 = Hotel	0
02	**Toll Restriction Class On Check In** Assign an extension's Toll Restriction Class when it is checked in. The UX5000 has 15 Toll Restriction Classes (1-15). The entry you make in this option affects the terminal 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

Terminal Programming Instructions

To enter data for Program 42-02 (Hotel/Motel Terminal Setup):

1. Enter the programming mode.
2. 42 02

3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 42 : Hotel Setup
42-03 : Class of Service Options (Hotel/Motel)

Level:	Feature Availability
IN	• Available.

Description

Use **Program 42-03 : Class of Service Options (Hotel)** to set the Hotel/Motel Class of Service (COS) options. Assign Class of Service to extensions in Program 20-06-01. There are 15 Classes of Service. Refer to the following chart for a description of each COS option, its range and default setting. For additional Class of Service options, refer to Programs 20-06 - 20-14.

Input Data

Class of Service Number	01-15

Item No.	Item	Input Data	Default	
			Class 01	Class 02-15
01	**Check-In Operation** Enable or disable an extension's ability to set the Check In status of an extension.	0 = Disable 1 = Enable	0	0
02	**Check-Out Operation** Enable or disable an extension's ability to set the Check Out status of an extension.	0 = Disable 1 = Enable	0	0
03	**Room Status Output** Enable or disable an extension's ability to request Room Status Printouts.	0 = Disable 1 = Enable	0	0
04	**DND Setting for Other Extension** Enable or disable an extension's ability to Hotel DND for another extension.	0 = Disable 1 = Enable	0	0
05	**Wake Up Call Setting for Other Extension** Enable or disable an extension's ability to set a Wake Up Call for another extension.	0 = Disable 1 = Enable	0	0
06	**Room Status Change for Other Extension** Enable or disable an extension's ability to change the house cleaning status of another room.	0 = Disable 1 = Enable	0	0
07	**Restriction Class Changing for Other Extension** Enable or disable an extension's ability to set the Toll Restriction Level (When Checked In) for another extension.	0 = Disable 1 = Enable	0	0
08	**Room-to-Room Call Restriction** Enable or disable an extension's ability to set Room-to-Room Call Restriction for another extension.	0 = Disable 1 = Enable	0	0

Item No.	Item	Input Data	Default	
			Class 01	Class 02-15
09	**DND Setting for Own Extension** Enable or disable an extension's ability to set Hotel DND for itself.	0 = Disable 1 = Enable	0	0
10	**Wake Up Call Setting for Own Extension** Enable or disable an extension's ability to set a Wake Up Call for itself.	0 = Disable 1 = Enable	0	0
11	**Room Status Change for Own Extension** Enable or disable an extension's ability to change the house cleaning status of their own room.	0 = Disable 1 = Enable	0	0
12	**SLT Room Monitor** Enable (1) or disable (0) a single line terminal's ability to use Room Monitor.	0 = Disable 1 = Enable	0	0
13	**PMS Restriction Level** Use this option to enable (1) or disable (0) a supervisor extension's ability to set the PMS restriction level for a room terminal.	0 = Disable 1 = Enable	0	0

Conditions

None

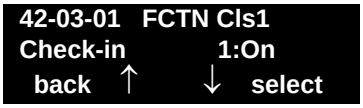
Feature Cross Reference

- Class of Service
- Hotel/Motel

Terminal Programming Instructions

To enter data for Program 42-03 (Class of Service Options (Hotel/Motel)):

1. Enter the programming mode.
2. 42 03



3. Enter the number of the item you want to program.

4. Enter the Class of Service number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 42-04 : Hotel Mode One-Digit Service Codes** to set up the Hotel Mode one-digit service code. For each Department Group (1-64) you enter the destination for each single digit code (1-9, 0, *, #). The destination can be any code up to four digits long, such as an extension number or access code. These codes can be used by the extensions assigned to Hotel Mode in 42-02-01.

Input Data

Department (Extension) Group Number	01-64

Item No.	Received Dial	Destination Number	Default
01	1-9,0,*,#	Up to 8 digits	No setting

Conditions

The one-digit codes you assign in this program wait until the Interdigit timer (Program 21-01-02) expires before executing.

Feature Cross Reference

- Hotel/Motel

Terminal Programming Instructions

To enter data for Program 42-04 (Hotel Mode One-Digit Service Codes):

1. Enter the programming mode.
2. 42 04

3. Enter the number of the item you want to program.

4. Enter the Department/Terminal Group number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.
• Item 5 requires software 2.0 or higher.

Description

Use **Program 42-05 : Hotel Room Status Printer** to set the output port for 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** If a Hotel Room Status Printer is to be used, enter "3" to select the LAN output.	0 = No setting 1 = CTA 3 = LAN	0
02	**Output Destination Number** Enter the CTA extension number to which the Hotel Room Status Printer is connected.	Up to 8 digit (Extension number which CTA/CTU is equipped.)	No setting
03	**Wake Up Call No Answer Data** Enable or disable the ability to have unanswered Wake Up Calls automatically print on the Room Status Printer.	0 = No output 1 = Output Unanswered Wake Up Calls	0
04	**Check-Out Sheet** Enable or disable the ability to have the Room Status Printer automatically print when a room Checks Out.	0 = No output 1 = Output Room Check Out	0
05	**Protocol Type** Select the type of protocol used for Hotel/Motel to allow the status printer to function correctly.	0 = Normal 1 = Fidelio	0

Conditions

Room Status Reports require a LAN connection or a CTA and a compatible printer. Refer to Data Communications in the feature section for information.

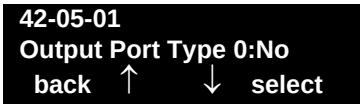
Feature Cross Reference

- Hotel/Motel

Terminal Programming Instructions

To enter data for Program 42-05 (Hotel Room Status Printer):

1. Enter the programming mode.
2. 42 05



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 42-06 : PMS Service Setting** to define the PMS Integration options for the Hotel/ Motel feature.

Input Data

Item No.	Item	Input Data	Default
01	**PMS Port Number** Select the TCP/IP port number to be used for PMS Integration. ***Changing this option requires a system reset before the change will take affect.***	1-65535	5129
02	**3:00 AM Auto Room Scan** Select whether the PMS feature should automatically set all checked in rooms to "Maid Required" at 3:00 AM.	0 = Off 1 = On	0
03	**Check-In Message Type** Enable (1) or disable (0) Check-In Message. This entry must be set to "1" in order for the check-in message to be sent.	0 = Off 1 = On	0
04	**Check-Out Auto Status Change** Normally the system will send Status 0 for a checked out room. When this option is set to '1', a Status 4 (Inspection Required) is sent to the PMS allowing the room to be inspected before checking in another guest to the room.	0 = Off 1 = On	0
05	**PMS AREYUTHERE/LINETEST Send Timing** Set the time interval for how often the NTCPU verifies the PMS system is connected. If no PMS messages are exchanged for the "Are You There" time, the phone system sends an Areyouthere message to the PMS.	10-128 seconds	10 seconds
06	**PMS AREYUTHERE/LINETEST Retry Counter** If the PMS does not send an Acknowledge (ACK) response within the PMS Message Time (Program 42-06-05), the phone system retries for the number of times specified in this option. If there is still no response, the phone system marks the PMS as Out of Service.	0-20	3

Conditions

None

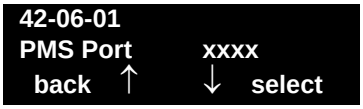
Feature Cross Reference

- Hotel/Motel

Telephone Programming Instructions

To enter data for Program 42-06 (PMS Service Setting):

1. Enter the programming mode.
2. 42 06



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MSG once to enter a new item number.
   OR
   Press MSG until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 42-07 : PMS Restriction Level Conversion** to set the PMS restriction level.

Input Data

Restriction Level	0-3

Item No.	Item	Input Data	Default
01	PMS Restriction Level Conversion Table	1-15 (Restrictclass)	Level 0 = 10 Level 1 = 11 Level 2 = 12 Level 3 = 13

Conditions

None

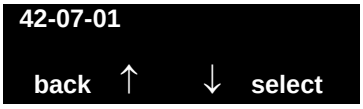
Feature Cross Reference

- Hotel/Motel

Terminal Programming Instructions

To enter data for Program 42-07 (PMS Restriction Level Conversion):

1. Enter the programming mode.
2. 42 07



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 44 : ARS/F-Route Setup
44-01 : System Options for ARS/F-Route

Level:	Feature Availability
IN	• Available.

Description

Use **Program 44-01 : System Options for ARS/F-Route** to define the UX5000 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 UX5000 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

Conditions

None

Feature Cross Reference

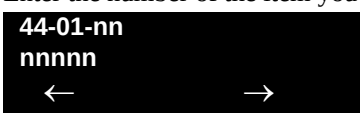
- Automatic Route Selection (ARS)/F-Route

Terminal Programming Instructions

To enter data for Program 44-01 (System Options for ARS/F-Route):

1. Enter the programming mode.
2. 44 01

3. Enter the number of the item you want to program.



4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 UX5000 for ARS routing.	Up to 8 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. There must be at least one digit 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 1=Extension Call 2=ARS/F-Route Table 3=Dial Extension Analyze Table	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 once 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)/F-Route

Terminal Programming Instructions

To enter data for Program 44-02 (Dial Analysis Table for ARS/F-Route Access):

1. Enter the programming mode.
2. 44 02

3. Enter the number of the item you want to program.

4. Enter the Analyze Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 8 digits. If the received digits do not match the digits set in tables 1-250, table number 252 is used 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 then checked. With Program 44-01 set to 1, Program 44-04 is then 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 then checked. With Program 44-01 set to 1, Program 44-04 is then checked.	0

Program 44 : ARS/F-Route Setup
44-03 : Dial Analysis Extension Table

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)/F-Route

Terminal Programming Instructions

To enter data for Program 44-03 (Dial Analysis Extension Table):

1. Enter the programming mode.
2. 44 03

3. Enter the number of the item you want to program.

4. Enter the Extension Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 8 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)/F-Route

Terminal Programming Instructions

To enter data for Program 44-04 (ARS/F-Route Selection for Time Schedule):

1. Enter the programming mode.
2. 44 04

   44-04-01 Select No 1
   F-Route Mode1=0
   back ↑ ↓ select
3. Enter the number of the item you want to program.

   44-04-nn Select No nnn
   nnnnn
   ← – + →
4. Enter the ARS/F-Route Selection number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 44 : ARS/F-Route Setup
44-05 : ARS/F-Route Table

Level:	Feature Availability
IN	• Available.

Description

Use **Program 44-05 : ARS/F-Route Table** to set the ARS/F-Route table. There are 4 kinds of order. If the higher priority trunk groups are busy, the next order group will be 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, 101-150, 255 (0 = No setting, 101-150 = Networking, 255 = Extension Call)	0
02	**Delete Digits** Enter the number of digits to be deleted from the dialed number.	0-255 (255 = Delete all)	0
03	**Additional Dial Number Table** Enter the table number (defined in Program 44-06) for additional digits to be dialed.	0-1000	0
04	**Beep Tone** Select whether or not a beep is heard if a lower priority trunk group is used to dial out.	0 = off 1 = on	0
05	**Gain Table Number for Internal Calls** Select the gain table number to 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's ARS COS is determined in Program 26-04-01.	0-16	0

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. Note: This program can only be accessed through PCPro or Web Pro.	0~24	0

Conditions

None

Feature Cross Reference

- Automatic Route Selection (ARS)/F-Route

Terminal Programming Instructions

To enter data for Program 44-05 (ARS/F-Route Table):

1. Enter the programming mode.
2. 44 05

   44-05-01 F-route TBL1
   PRI1:TRK GP =0
   back ↑ ↓ select
3. Enter the number of the item you want to program.

   44-05-nn F-route TBLnnn
   nnnnn
   ← − + →
4. Enter the ARS/F-Route Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 44 : ARS/F-Route Setup
44-06 : Additional Dial Table

Level:	Feature Availability
IN	• Available.

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 line key 1 to enter a pause)	No setting

Conditions

None

Feature Cross Reference

- Automatic Route Selection (ARS)/F-Route

Terminal Programming Instructions

To enter data for Program 44-06 (Additional Dial Table):

1. Enter the programming mode.
2. 44 06

3. Enter the number of the item you want to program.

4. Enter the Additional Dial Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 is activated, which is assigned in Program 44-05.
- 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 is activated, which is assigned in Program 44-05.
- The Tandem Gain Table follows the "Incoming transmit" and "Incoming receive" settings for incoming line, and "Outgoing transmit" and "Outgoing receive" settings for the outgoing line.

Note: For ARS/F-Route calls, the codec gains defined in Program 14-01-02 and 14-01-03 are not activated.

Input Data

Gain Table Number	1-500

Item No.	Item	Input Data	Default
01	Incoming Transmit	1-63 (-15.5 ~ +15.5dB)	32
02	Incoming Receive	1-63 (-15.5 ~ +15.5dB)	32
03	Outgoing Transmit	1-63 (-15.5 ~ +15.5dB)	32
04	Outgoing Receive	1-63 (-15.5 ~ +15.5dB)	32

Conditions

None

Feature Cross Reference

- Automatic Route Selection (ARS)/F-Route

Terminal Programming Instructions

To enter data for Program 44-07 (Gain Table for ARS/F-Route Access):

1. Enter the programming mode.
2. 44 07

3. Enter the number of the item you want to program.

4. Enter the Gain Table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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

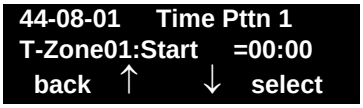
Feature Cross Reference

- Automatic Route Selection (ARS)/F-Route

Terminal Programming Instructions

To enter data for Program 44-08 (Time Schedule for ARS/F-Route):

1. Enter the programming mode.
2. 44 08



3. Enter the number of the item you want to program.

4. Enter the Time Pattern number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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

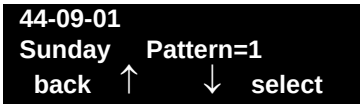
Feature Cross Reference

- Automatic Route Selection (ARS)/F-Route

Terminal Programming Instructions

To enter data for Program 44-09 (Weekly Schedule for ARS/F-Route):

1. Enter the programming mode.
2. 44 09



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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)	No Setting

Conditions

None

Feature Cross Reference

- Automatic Route Selection (ARS)/F-Route

Terminal Programming Instructions

To enter data for Program 44-10 (Holiday Schedule for ARS/F-Route):

1. Enter the programming mode.
2. 44 10

```
44-10-01
Date01/01    =PTTN_0
 back  ↑     ↓  select
```

3. Enter the number of the item you want to program.

```
44-10-nn
nnnnn
 ←              →
```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 45 : Voice Mail Integration
45-01 : Voice Mail Integration Options

Level:
IN

Feature Availability
• Available.
• Options 11-13 require software 2.0+.

Description

Use **Program 45-01 : Voice Mail Integration Options** to customize certain voice mail integration options.

Input Data

Item No.	Item	Input Data	Default	Related Programs
01	**Voice Mail Department Group Number** Assign which Extension (Department) Group number is to be assigned as the voice mail group (non-networked system). An entry of '0' means there is no voice mail installed. When using Centralized Voice Mail with UX5000 Mail or IntraMail, this has to be defined with the local voice mail's group number. This entry will be used to access the voice mail when the MSG key is pressed and in any other instance where the local voice mail would be used. When you wish to use centralized voice mail as well (as defined in **Program 45-01-08 : Voice Mail Integration Options - Networked Voice Mail Department Group Number**, then the user would need to dial the master number for the centralized voice mail.	0 - 64 (0=no voice mail)	0	
02	**Voice Mail Master Name** Enter the Voice Mail master name (non-networked system).	Up to 12 Characters	VOICE MAIL	
03	**Voice Mail Screening** Enable/disable the UX5000's ability to process the Call Screening commands (1 + extension number) sent from the Voice Mail. You should normally ***enable*** this option to allow for Voice Mail Call Screening. Disable this option if your UX5000 has been modified so that extensions begin with the digit 1 (e.g., 101, 102, etc.). Also see the Flexible System Numbering feature.	0 = Off 1 = On	1	45-01-11

04	**Park and Page** Enable/disable the UX5000's ability to process the Voice Mail's Park and Page (*) commands. You should normally ***enable*** this option.	0 = Off 1 = On	1	45-01-12
05	**Message Wait** Enable/disable the UX5000's ability to process the Voice Mail's Message Wait (#) commands. You should normally ***enable*** this option. If enabled, be sure that the programmed Message Notification strings don't contain the code #9 for trunk access. ***When using the voice mail's Dial Action Table external transfers (ex: to an Abbreviated Dial number), this setting must be set to "0" (off).***	0 = Off 1 = On	1	45-01-13
06	**Record Alert Tone Interval Time** This timer sets the interval between voice Mail Conversation Record alerts	0-64800 seconds	30	
07	**Mailbox Number** Enter the extension number of the voice mail to be accessed as the centralized voice mail unit when the CygniLink feature is used.	Up to 8 Digits	-	
08	**Networked Voice Mail Department Group Number** Assign which Extension (Department) Group number is to be assigned as the voice mail group with a networked system. An entry of '0' means there is no voice mail installed.	0 - 64 (0=no voice mail)	0	
09	**Networked Voice Mail Master Name** Enter the Voice Mail master name (networked system).	Up to 12 Characters	C.V.M.	
10	**NSL Protocol Support** This option must be enabled (1) in order for the display to use the NSL protocol.	0 = NSL Protocol Disabled 1 = NSL Protocol Enabled	0	
11	**Call Screening Prefix** Define the digit used for Call Screening.	1 digit (0-9, *, #)	1	45-01-03
12	**Park & Page Prefix** Define the digit used for Park and Page.	1 digit (0-9, *, #)	*	45-01-04
13	**Message Wait Prefix** Define the digit used for Message Wait.	1 digit (0-9, *, #)	#	45-01-05

16	**Digit Add Assignment for SLT** Assign up to four digits in front of the station number sent to the Special SLT Port when a call is forwarded. Assign the leading digits (up to 4) to show in front of extension numbers on forwarded calls sent to analog ports defined as "1" in Program 15-03-16 (Special DTMF Protocol Sent). If this entry is blank and Program 15-03-16 is enabled, the protocol will only include the extension number. (*Entries: 0 - 9, # **)	Dial (Up to 4 Digits)	No Setting	15-03-16
19	**Centralized Voice Mail Type** When the CVM is in a UX5000, this program must be set to "1" for all UX5000 systems in the AspireNet CVM network.	0 = Retro/Aspire CVM 1 = Enhanced/UX Mail CVM	0	

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 45-01 (Voice Mail Integration Options):

1. Enter the programming mode.
2. 45 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 45 : Voice Mail Integration
45-02 : NSL Option Setup

Level:	Feature Availability
SA	• Available.

Description

Use **Program 45-02 : NSL Option Setup** to customize the NSL options for Voice Mail integration.

Input Data

Item No.	Item	Input Data	Default
01	**Send DTMF Tone or 6KD Message** With 6KD enabled, the UX5000 uses NSL messages to communicate with an IntraMail voice mail port (rather than DTMF tones). This is required for IntraMail operation.	0 = Sending DTMF Tone to SLT-VM Port 1 = Sending 6KD Message to Serial Port	1
02	Forced Send Dial Tone	0 = Normal 1 = Forced	0
03	**Send 5IA Message** With 51A enabled, when an IntraMail port is placing a call, the UX5000 will send NSL messages to IntraMail that provide the call status. This typically occurs during Make Call and Message Notification callouts. This is required for IntraMail operation.	0 = Off 1 = On	1
04	NSL Over LAN - Future Item - Not Yet Used -	0 = Off 1 = On	0

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 45-02 (NSL Option Setup):

1. Enter the programming mode.
2. 45 02

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 45 : Voice Mail Integration
45-03 : NSL Timer Setup

Level:	Feature Availability
SA	• Available.

Description

Use **Program 45-03 : NSL Timer Setup** to customize the NSL timers for Voice Mail integration.

Input Data

Item No.	Item	Input Data	Default
01	Retry Timer	0-64800	4
02	Polling Interval	0-64800	20
03	1LS (Link Start Message) Interval	0-64800	20
04	Wait for 1LS Time	0-64800	30
05	Wait for 2ET Time	0-64800	60
06	Restart LVP Check Interval	0-64800	30
07	Wait for 1LR Time	0-64800	20

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 45-03 (NSL Timer Setup):

1. Enter the programming mode.
2. 45 03

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Level:	Feature Availability
IN	• Available.

Description

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

Input Data

Item No.	Item	Input Data	Default
01	***- Not Used -*** (Use Program 47-01-17 to enable IntraMail)	-	-
02	**IntraMail Master Name** (MasterName) Use this option to modify the name for all IntraMail ports. The UX5000 briefly displays this name when a display keyset user calls a Voice Mail port (either by pressing **MSG,** their voice mail key, or by dialing the master number). You should always end the name with the ## characters. The UX5000 substitutes the port number for the last #. Using the default name *IntraMail ##* for example, the keyset display shows *IntraMail #1* when calling port 1.	Up to 12 Characters	IntraMail ## (The UX5000 substitutes the port number for the # when calling the port).
03	**Subscriber Message Length** (Subs Msg Length) Use this option to set the maximum length of recorded messages of incoming calls for: • Conversation Record • Extension users leaving a message in a Subscriber Mailbox • Outside Automated Attendant callers accessing a mailbox via a LOGON command and then dialing **RS** to record and send a message. • Subscriber Mailbox users dialing **RS** to record and send a message. • Automated Attendant callers leaving a message or Quick Message in a Subscriber Mailbox. • Outside callers transferred by an extension user to a Subscriber Mailbox. Note: The length of a Conversation Record is 10 times the *Subscriber Message Length*. Since the Conversation Record time cannot exceed 4095 seconds, any settings in *Subscriber Message Length* larger than 409 has no effect on the length of recorded conversations.	1-4095 seconds	120 seconds

04	**Non-Subscriber Message Length** (Mbox Msg Length) Use this option to set the maximum length of outgoing recorded messages for: • Announcement Mailbox Messages • Call Routing Mailbox Instruction Menus • Directory Dialing Messages • Greetings for Subscriber Mailboxes • Message On Hold	1-4095 seconds	120 seconds
05	**Message Backup/Go Ahead Time** (Msg Bkup/Adv Time) Use this option to set the backup/go ahead interval. This interval sets how far IntraMail backs up when a user dials **B** while listening to a message. This interval also sets how far IntraMail jumps ahead when a user dials **G** while listening to a message.	1-60 Seconds	5 Seconds
06	***- Not Used -***	-	-
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's 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**) **No entry (Entered by pressing CLEAR)**. ***X*** *(*Extension number - entered by pressing **LK2**) IntraMail automatically replaces the **X** command with the number of the extension that initially received the message.	X*M#

08	**Delay in Dialing Digital Pager Callback Number** (Pager Dial Delay) Use this option to set the delay (0-99 seconds) that occurs just before IntraMail 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 UX5000: 1. Seizes the trunk specified. 2. Dials the user-entered notification number (in **MSG** + **OP** + **N**). 3. Waits the **47-01-08: Delay in Dialing Digital Pager Callback Number** interval. 4. Dials the number entered in **47-01-07: Digital Pager Callback Number**. The UX5000 assumes that the notification number will complete dialing approximately 4 seconds after trunk seizure. This means that, by default, the Digital Pager Callback Number will be dialed into the pager service about 13 seconds after trunk seizure.	0-99 seconds	9 seconds
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, IntraMail will try the callout again (for up to the number of times set in **47-01-14: Number of Callout Attempts**). If the UX5000 dials the callout number and the pager service is busy, it will retry the number in one minute.	1-255 minutes	15 minutes
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 minutes	20 minutes
11	**Wait Between Busy Non-Pager Callout Attempts** (Notify Busy Intvl) Use this option to set how long IntraMail will wait (1-255 minutes), after it dials a busy non-pager callout destination, before retrying the callout number.	1-255 minutes	15 minutes

12	**Wait Between RNA Non-Pager Callout Attempts** (Notify RNA Intvl) Use this option to set how long IntraMail will wait (1-255 minutes), after it dials an unanswered non-pager callout destination, before retrying the callout number. There are three 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 UX5000 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 minutes	30 minutes
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), IntraMail marks the call as unanswered (Ring No Answer) and hangs up.	1-99 rings	5 rings
14	**Number of Callout Attempts** (Notify Call Attmpt) Use this option to set how many times (1-99 attempts) IntraMail will retry 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 attempts
15	**Send Pager Callout Until Acknowledged** (Retry Until Ack) When this option is enabled (1), IntraMail will continue to retry a digital pager Message Notification callout until the notification is acknowledged. If this option is disabled (0), IntraMail will retry a digital pager Message Notification the number of times specified in **8004-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.	1 = Enabled 0 = Disabled	0 (Disabled)
16	**Name Format** Use this option to determine how extension names should be entered in **15-01-01 : Basic Extension Data Setup - Extension Name** or via the terminal.	0 = First / Last 1 = Last / First	0

17	**Start of IntraMail Port** Use this option to set the IntraMail starting port number. • This must be an unassigned port. • To avoid conflicts, you should use the **last 16 ports** for IntraMail. The assignment in this option is the first (lowest numbered) of those **last 16 ports**. - For example, in a 64-port UX5000 consider starting at port 49. • Note that UX5000 licensing determines the number of available ports.	Any valid and licensed extension number available in the UX5000 (0 = Disabled)	0

Conditions

None

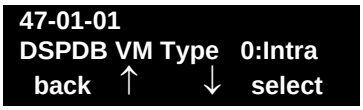
Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-01 (IntraMail Basic Options):

1. Enter the programming mode.
2. 47 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 47 : IntraMail
47-02: IntraMail Station Mailbox Options

Level:
SB

Feature Availability
• Available.
• Languages for Item 16 (input data 17-20) require software 2.0+.
• Access level for program changed from IN to SB with software 2.0+.

Description

Use **47-02: IntraMail Station Mailbox Options** to set up a station's (extension's) mailbox. Station mailboxes are automatically assigned as Subscriber Mailboxes. NormaStation Mailboxes can be either Personal or Group.

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

Input Data

Item No.	Item	Input Data	Default
01	**Mailbox Active** (Mailbox Active) Use this option to select the type of mailbox assigned to an extension - none, personal, or group. A Personal Mailbox (1) is used by one specific person. Messages left in the mailbox are only listened to and/or deleted by the particular user. A Group Mailbox (2), is shared by a group of co-workers. If a caller leaves a message at any extension within the group that shares th mailbox, the UX5000 stores the message in the shared Group mailbox. All extensions in the group will receive an indication of the new message.and any group member will be able to log onto their mailbox to hear and process the shared message. Selecting None (0), prevents access to an extension's mailbox, even though its stored messages and configuration are retained in memory. If disabled, a user pressing **MSG** will initiate a remote logon and be 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 301.	0 = None 1 = Personal 2 = Group	Mailboxes 1-64 = 1 (Personal) All other mailboxes = 0 (None)

02	**Mailbox Number** (Mailbox Number) Use this option to select the extension number associated with the mailbox you are programming. Normally, mailbox 1 should use Mailbox Number 301, mailbox 2 should use Mailbox Number 302, 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 301.	Digits (8 maximum, using 0-9)	Mailboxes 1-64 = 301-364. . For all other mailboxes, there is no entry.
03	**Number of Messages** (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 once this limit is reached, they hear, "*That mailbox is full.*" IntraMail then hangs up.	0-99 messages • To conserve storage space, enter 0 for all unused mailboxes.	99 messages for mailbox 1. 20 messages for all other mailboxes.
04	**Message Playback** (Message Playback) Use this option to set the Subscriber Mailbox message playback order. When a subscriber listens to their messages, IntraMail 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 (FIFO - first-in-first-out, or oldest messages first)
05	**Auto Erase/Save of Messages** (Auto Erase/Save) Use this option to determine what happens when a Subscriber Mailbox user completely listens to a new message and then exits their mailbox without either saving (**SA**) or erasing (**E**) the message. Depending on the setting of this option, IntraMail will either automatically save or erase the message. If the mailbox user hangs up before listening to the *entire* new message, IntraMail retains the message as a new message.	0 (Erase) • After the subscriber listens to the entire new message and hangs up, IntraMail erases the message. 1 (Save) • After the subscriber listens to the entire new message and hangs up, IntraMail saves the message.	1 (Save)
06	**Message Retention** (Message Retention) Use this option to determine how long a Subscriber Mailbox will retain held and saved messages. If a message is left in a Subscriber Mailbox longer than this interval, IntraMail deletes it.	1-90 days 0 (Indefinite)	0 (Indefinite)

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 will hear the voice prompt *Recording* followed by a single beep when the extension user initiates Conversation Record. If disabled, the voice prompt and beep will not occur. When you disable the Conversation Record beep, the following voice prompts do not occur while IntraMail 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 UX5000 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 UX5000 Conversation Record beep, enter 0 for this option.	1 (Yes - enabled) 0 (No - disabled)	1 (Yes - enabled)
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.	1 (Yes - enabled) 0 (No - disabled)	1 (Yes - enabled)
09	**Auto Attendant Do Not Disturb** (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 will route directly to the mailbox, hear the greeting, and be asked to leave a message.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)
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.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)
11	**Auto Time Stamp** (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 IntraMail will announce the time and date the message was left. Auto Time Stamp will also announce the message sender (if known). A subscriber can also enable Auto Time Stamp from their mailbox.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)

12	**System Administrator** (System Admin) 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.	1 (Yes - enabled) 0 (No - disabled)	Mailbox 1 (301) = Enabled (1) All other mailboxes = Disabled (0)
13	**Dialing Option** (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's Dial Action Table. If disabled, the caller can only dial 0 (to use the Next Call Routing Mailbox's 0 action).	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)
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.	0-32 (0=Undefined)	**1** (Call Routing Mailbox 01) • By default, Call Routing Mailbox numbers are 01-08.
15	**Directory List** (Directory List Num) Use this option to specify the Directory List to which the Subscriber Mailbox belongs. When setting up Directory Dialing Mailboxes, you must specify which Directory List you want the Directory Dialing Mailbox to use. The Directory Dialing Mailbox can only call Subscriber Mailboxes that belong to the list it is programmed to use.	1-8 (lists 1-8) 0 (belongs to no lists) * (belongs to all lists)	0 (No entry)

16	**Voice Prompt Language** (Lang) Use this option to set the voice prompt language for the station mailbox. The languages that are available to the station mailbox depend on the UX5000's language licensing set in Program 47-16-01 : Language List Assignments.	01=US English 02=UK English 03=Australian English 04=French Canadian 05=Dutch 06=Mexican Spanish 07=Latin America Spanish 08=Italian 09=German 10=Madrid Spanish 11=Norwegian 12=Parisian French 13=Brazilian Portuguese 14=Japanese 15=Mandarin Chinese 16=Korean 17 = IB Portuguese 18 = Greek 19 = Danish 20 = Swedish	**1** (US English)
17	**Enable Paging** [Enable Paging] Use this option to enable or disable the Park and Page option for the mailbox. If enabled, when an outside call can't go through Park and Page automatically parks the call and pages the extension user. This option is the same as the *Mailbox Options: Call Options: Paging* user setting. The setting you make in this option overrides the *Mailbox Options* setting and visa-versa.	0=No 1=Yes	0
18	**Paging Option** [Paging Option] When Automated Attendant Direct to Voice Mail is enabled, use this option to set how Park and Page will intercept calls. It can intercept calls immediately and do a Park and Page (**1**), or handle Park and Page like any other transferred outside call (**0**).	0=RNA 1=Immediate	1
19	**Terminal User Interface** (User Interface) Use this option to set the IntraMail voice prompt interface type. The options are numeric (**0**) or mnemonic (**1**). If set to numeric, voice mail options are announced as digits: "*To record and send a message, dial seven seven.*" If set to mnemonic, voice mail options are announced descriptively: "*To record and send a message, dial R S,*" where *R S* is a mnemonic representation of *Record and Send*.	0=.Numeric interface 1=Mnemonic interface 2=Octel (Not Used)	1
20	**Enable Email Notification** (Enable Email)	0=No 1=Yes	0
21	**Email Address** (Email Add)	Up to 48 Characters	No Entry
22	**Include Msg as Attachment** (Msg as Attachment)	0=No 1=Yes	1

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-02 (IntraMail Station Mailbox Options):

1. Enter the programming mode.
2. 47 02

3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **47-03: 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 Mailbox.

Input Data

Group Mailbox Number	01-32

Item No.	Item	Input Data	Default
01	***- Not Used -***	-	-
02	**Master Mailbox Number** (Mailbox Number) The Master 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 Master Mailbox you are programming. By default, there are no Master Mailboxes assigned as Directory Dialing Mailboxes.	• Digits (8 maximum, using 0-9). • No entry (Entered by pressing CLEAR)	No entry
03	**Group Mailbox Type** (Mailbox Type) Use this option to set the Group Mailbox type (Subscriber or Routing). If set to 2, refer to Program 47-07.	1 (Subscriber) 2 (Routing) 0 (Undefined)	1 (Subscriber)
	Routing Mailbox Number If 47-03-03 : Group Mailbox Type is set to 2 (Routing), use this option to specify the Routing Mailbox IntraMail will use for the Group Mailbox. The Routing Mailbox you choose is programmed in 47-07 : IntraMail Routing Mailbox Options.	1-32	1

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-03 (IntraMail Group Mailbox Options):

1. Enter the programming mode.
2. 47 03

3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.
• Languages for Item 14 (input data 17-20) require software 2.0+.

Description

Use **47-06: Group Subscriber Mailbox Options** to set up a Group Mailbox assigned as a Subscriber Mailbox in **47-03-03: Group Mailbox Type**.

Input Data

Group Mailbox Number	01-32

Item No.	Item	Input Data	Default
01	**Number of Messages** (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 once this limit is reached, they hear, "*That mailbox is full.*" IntraMail then hangs up.	0-99 messages To conserve storage space, enter 0 for all unused mailboxes.	20
02	**Message Playback Order** (Message Playback) Use this option to set the Subscriber Mailbox message playback order. When a subscriber listens to their messages, IntraMail 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 (FIFO)
03	**Auto Erase/Save of Messages** (Auto Erase/Save) Use this option to determine what happens when a Subscriber Mailbox user completely listens to a new message and then exits their mailbox without either saving (**SA**) or erasing (**E**) the message. Depending on the setting of this option, IntraMail will either automatically save or erase the message. If the mailbox user hangs up before listening to the *entire* new message, IntraMail retains the message as a new message.	0 (Erase) After the subscriber listens to the entire new message and hangs up, IntraMail erases the message. 1 (Save) After the subscriber listens to the entire new message and hangs up, IntraMail saves the message.	1 (Save)
04	**Message Retention** (Message Retention) Use this option to determine how long a Subscriber Mailbox will retain held and saved messages. If a message is left in a Subscriber Mailbox longer than this interval, IntraMail deletes it.	1-90 days 0 (Indefinite)	0 (Indefinite)

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 will hear the voice prompt *Recording* followed by a single beep when the extension user initiates Conversation Record. If disabled, the voice prompt and beep will not occur. When you disable the Conversation Record beep, the following voice prompts do not occur while IntraMail 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 UX5000 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 UX5000 Conversation Record beep, enter 0 for this option.	1 (Yes - enabled) 0 (No - disabled)	1 (Yes - enabled)
06	**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.	1 (Yes - enabled) 0 (No - disabled)	1 (Yes - enabled)
07	**Auto Attendant Direct to Voice Mail** (Auto-ATT Direct VM) Use this option to enable or disable Auto Attendant Direct to Voice Mail. When a subscriber enables Auto Attendant Direct to Voice Mail, an Automated Attendant caller will route directly to the mailbox, hear the greeting, and be asked to leave a message.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)
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.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)
09	**Auto Time Stamp** (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 IntraMail will announce the time and date the message was left. Auto Time Stamp will also announce the message sender (if known). A subscriber can also enable Auto Time Stamp from their mailbox.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)

10	**System Administrator** (System Admin) 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.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)
11	**Dialing Option** (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's Dial Action Table. If disabled, the caller can only dial 0 (to use the Next Call Routing Mailbox's 0 action).	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)
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.	0 - 32 (1-32 = Call Routing Mailbox Number, 0 = Undefined)	1 (Call Routing Mailbox 01) By default, Call Routing Mailbox numbers are 1=8.
13	**Directory List** Use this option to specify the Directory List to which the Subscriber Mailbox belongs. When setting up Directory Dialing Mailboxes, you must specify which Directory List you want the Directory Dialing Mailbox to use. The Directory Dialing Mailbox can only call Subscriber Mailboxes that belong to the list it is programmed to use.	1-8 (lists 1-8) 0 (belongs to no lists) * (belongs to all lists)	0 (No entry)
14	**Voice Prompt Language** [Lang] Use this option to set the voice prompt language for the Group Mailbox. The languages that are available to the mailbox depend on the UX5000's language licensing set in Program 47-16-01 : Language List Assignments.	01=US English 02=UK English 03=Australian English 04=French Canadian 05=Dutch 06=Mexican Spanish 07=Latin America Spanish 08=Italian 09=German 10=Madrid Spanish 11=Norwegian 12=Parisian French 13=Brazilian Portuguese 14=Japanese 15=Mandarin Chinese 16=Korean 17 = IB Portuguese 18 = Greek 19 = Danish 20 = Swedish	1

15	**Enable Paging** [Enable Paging] Use this option to enable or disable the Park and Page option for the mailbox. If enabled, when an outside call can't go through Park and Page automatically parks the call and pages the extension user. This option is the same as the *Mailbox Options: Call Options: Paging* user setting. The setting you make in this option overrides the *Mailbox Options* setting and visa-versa.	0=No 1=Yes	0
16	**Paging Option** [Paging Option] When Automated Attendant Direct to Voice Mail is enabled, use this option to set how Park and Page will intercept calls. It can intercept calls immediately and do a Park and Page (**1**), or handle Park and Page like any other transferred outside call (**0**).	0=RNA 1=Immediate	0
17	**Terminal User Interface** (User Interface) Use this option to set the IntraMail voice prompt interface type. The options are numeric (**0**) or mnemonic (**1**). If set to numeric, voice mail options are announced as digits: "*To record and send a message, dial seven seven.*" If set to mnemonic, voice mail options are announced descriptively: "*To record and send a message, dial R S,*" where *R S* is a mnemonic representation of *Record and Send*.	0=.Numeric interface 1=Mnemonic interface 2=.Octel (Not Used)	1
18	**Enable Email Notification** **(Enable Email)**	0=No 1=Yes	0
19	**Email Address** **(Email Add)**	Up to 48 Characters	No Entry
20	**Include Msg as Attachment** **(Msg as Attachment)**	0=No 1=Yes	1

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-06 (Master Subscriber Mailbox Options):

1. Enter the programming mode.
2. 47 06

3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 47 : IntraMail
47-07: IntraMail Routing Mailbox Options

Level:
IN

Feature Availability
• Available.
• Languages for Item 03 (input data 17-20) require software 2.0+.

Description

Use **47-07: IntraMail Routing Mailbox Options** to set up the 32 Routing. Routing Mailboxes can be either Announcement or Call Routing Mailboxes.

Input Data

Routing Mailbox Number	01-32

Item No.	Item	Input Data	Default
01	**- Not Used -**	-	-
02	**Routing Mailbox Type** (Mailbox Type) Use this option to set the Routing Mailbox type: Call Routing (1) or Announcement (2).	0 = None 1 = Call Routing 2 = Announcement 3 = Directory 4 = Distribution	Mailboxes 01-08 = 1 (Call Routing). Mailboxes 09-32 = 2 (Announcement)
03	**Routing Mailbox Language Assignment** (Lang) Use this option to set the voice prompt language for the Routing Mailbox. The languages that are available to the mailbox depend on the UX5000's language licensing set in 47-16-01 : Language List Assignments. By default, these are the licensed languages: U.S. English, French Canadian, Mexican Spanish	01=US English 02=UK English 03=Australian English 04=French Canadian 05=Dutch 06=Mexican Spanish 07=Latin America Spanish 08=Italian 09=German 10=Madrid Spanish 11=Norwegian 12=Parisian French 13=Brazilian Portuguese 14=Japanese 15=Mandarin Chinese 16=Korean 17 = IB Portuguese 18 = Greek 19 = Danish 20 = Swedish	1

04	**IntraMail Dialing Interface** (User Interface) Use this option to set the IntraMail voice prompt interface type. The options are numeric (**0**) or mnemonic (**1**). If set to numeric, voice mail options are announced as digits: "*To record and send a message, dial seven seven.*" If set to mnemonic, voice mail options are announced descriptively: "*To record and send a message, dial R S,*" where *R S* is a mnemonic representation of *Record and Send*.	0=Numeric interface 1=Mnemonic interface 2=Octel (Not Used)	1

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-07 (IntraMail Routing Mailbox Options):

1. Enter the programming mode.
2. 47 07

3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
IN	• Available.

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	01-32

Item No.	Item	Input Data	Default
01	**Dial Action Table** (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 will ring an unanswered extension before recalling.	0-255 seconds Entering 0 causes immediate recall.	15 seconds
03	**Time Limit for Dialing Commands** (Dialing Timeout) This option determines how long IntraMail will wait 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 3 times and then IntraMail hangs up.*	0-99 seconds Entering 0 causes the Automated Attendant to immediately route callers to the Timeout destination programmed in the active Dial Action Table.	5 seconds
04	**Fax Detection** (Fax Detection) Use this option to enable or disable Fax Detection for the Call Routing Mailbox. In enabled, the IntraMail Automated Attendant (when using this Call Routing Mailbox) will detect incoming fax CNG tone. The fax call will then route to the company fax machine according to the setting of *47-08-05 : Fax Extension*. If disabled, the Automated Attendant will not detect incoming fax calls.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)

05	**Fax Extension** (Fax Extension) Use this option to specify the extension number of the fax machine associated with the Call Routing Mailbox. When the Call Routing Mailbox answers a call and detects fax (CNG) tone, it automatically transfers the call to this extension.	Up to 8 digits	No Entry

Conditions

None

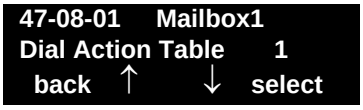
Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-08 (Call Routing Mailbox Options):

1. Enter the programming mode.
2. 47 08



3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 47 : IntraMail
47-09: Announcement Mailbox Options

Level:	Feature Availability
IN	• Available.

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	01-32

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 a detailed explanation of the interaction of these options, turn to: • Announcement Mailbox Call Handling in the UX5000 IntraMail System Guide, P/N 0913240.	Call Routing Mailbox Number (1-32) Undefined (0)	Undefined (0)
02	**Repeat Count** (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 will repeat 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 a detailed explanation of the interaction of these options, turn to: • Announcement Mailbox Call Handling in the UX5000 IntraMail System Guide, P/N 0913240.	0 (No repeats) 1-10 (Announcement repeats 1-10 times)	0 (No repeats)
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 a detailed explanation of the interaction of these options, turn to: • Announcement Mailbox Call Handling in the UX5000 IntraMail System Guide, P/N 0913240.	0=None 1=Goodbye 2=Silent	0

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-09 (Announcement Mailbox Options):

1. Enter the programming mode.
2. 47 09

3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 47 : IntraMail
47-10: IntraMail Trunk Options

Level:
IN

Feature Availability
• Available.
• Languages for Item 16 (input data 17-20) require software 2.0+.

Description

Use **47-10: IntraMail Trunk Options** to assign IntraMail options for each trunk.

Input Data

Trunk Port Number	001-200

Item No.	Item	Input Data	Default
01	**Answer Table Assignment** (Answer Table) Use this option to assign an IntraMail 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 (Answer Table 1)
02	**- Not Used -**		
03	**Trunk Language Assignment** (Lang) UUse this option to set the voice prompt language for the trunk. The languages that are available to the trunk depend on the UX5000's language licensing set in 47-16-01 : Language List Assignments. By default, these are the licensed languages: U.S. English, French Canadian, Mexican Spanish	01=US English 02=UK English 03=Australian English 04=French Canadian 05=Dutch 06=Mexican Spanish 07=Latin America Spanish 08=Italian 09=German 10=Madrid Spanish 11=Norwegian 12=Parisian French 13=Brazilian Portuguese 14=Japanese 15=Mandarin Chinese 16=Korean 17 = IB Portuguese 18 = Greek 19 = Danish 20 = Swedish	1

04	**IntraMail Dialing Interface** (User Interface) For the selected trunk, use this option to set the IntraMail voice prompt interface type. The options are numeric (**0**) or mnemonic (**1**). If set to numeric, voice mail options are announced as digits: "*To record and send a message, dial seven seven.*" If set to mnemonic, voice mail options are announced descriptively: "*To record and send a message, dial R S,*" where *R S* is a mnemonic representation of *Record and Send*.	0=Numeric interface 1=Mnemonic interface 2=Octel (Not Used)	1

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-10 (IntraMail Trunk Options):

1. Enter the programming mode.
2. 47 10

   ```
   47-10-01    Trunk1
   Answer Table        1
    back  ↑     ↓  select
   ```

3. Enter the number of the item you want to program.

   ```
   47-10-nn    Trunknnn
   nnnnn
     ←     –     +     →
   ```

4. Enter the trunk number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 47 : IntraMail
47-11: IntraMail Answer Table Options

Level:	Feature Availability
IN	• Available.

Description

Use **47-11: IntraMail Answer Table Options** to set options for the Answer Tables. IntraMail provides 8 Answer Tables (1-8). To set up the schedules for each Answer Table, go to **47-12: IntraMail Answer Table Schedule**.

Input Data

Answer Table Number	1-8

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 will route calls to the Override Mailbox.	1 (Yes - enabled) 0 (No - disabled)	0 (No - disabled)

02	**Override Mailbox Category** (Override MB Ctg) Use this option to specify the category of the mailbox to which Automated Attendant calls should route when you enable Answer Schedule Override. IntraMail mailbox categories are Subscriber Mailbox (refer to Program 47-02), Group Mailbox (refer to Program 47-03), and Routing Mailbox (refer to Program 47-07). IntraMail 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 will hear the recorded announcement. Depending on how the Announcement Mailbox is programmed, IntraMail will then hang up, reroute the call, or provide additional dialing options.* *If the Override Mailbox is a Call Routing Mailbox, the outside caller will hear the instruction menu and can dial any options allowed by the associated Dial Action Table.* *If the Override Mailbox is a Directory Dialing Mailbox, the outside caller can reach an extension by dialing the first few letters in the extension user's name.* *If the Override Mailbox is a Distribution Mailbox, the outside caller hears the mailbox greeting (if recorded) and can leave a message*	1 (Subscriber Mailbox) 2 (Group Mailbox) 3 (Routing Mailbox) 0 (Undefined)	0 (Undefined)
	Override Mailbox Number (Override MB Num) Use this option to specify the mailbox to which Automated Attendant calls should route when you 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 (3 maximum, using 0-9)	No entry

03	**Default Mailbox Category** (Default MB Ctg) Use this option to specify the category of mailbox used as the Default Mailbox. IntraMail mailbox categories are Subscriber Mailbox (refer to Program 47-02), Group Mailbox (refer to Program 47-03), and Routing Mailbox (refer to Program 47-07). IntraMail uses the Default Mailbox whenever an Answer Schedule is not in effect. IntraMail 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 will hear the recorded announcement. Depending on how the Announcement Mailbox is programmed, IntraMail will then hang up, reroute the call, or provide additional dialing options.* *If the Default Mailbox is a Call Routing Mailbox, the outside caller will hear the instruction menu and can dial any options allowed by the associated Dial Action Table.* *If the Default Mailbox is a Directory Dialing Mailbox, the outside caller can reach an extension by dialing the first few letters in the extension user's name* *If the Default Mailbox is a Distribution Mailbox, the outside caller hears the mailbox greeting (if recorded) and can leave a message.*	1 (Subscriber Mailbox) 2 (Master Mailbox) 3 (Routing Mailbox) 0 (Undefined)	Answer Table 1 = 3 (Routing Mailbox) Answer Table 2-8 = 0 (Undefined)
	Default Mailbox Number (Default MB Num) Use this option to set the Answer Table's Default Mailbox number. IntraMail uses the Default Mailbox whenever 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 (3 maximum, using 0-9)	Answer Table 1 = 1 Answer Table 2-8 = No entry
04	**Next Answer Table** (Next Answer Table) When 10 Answer Schedules within an Answer Table are not sufficient, use this option to link two Answer Tables together. IntraMail treats the two linked tables as a single 20 entry Answer Table.	Answer Table (1-8) 0 (Undefined)	0 (Undefined)

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-11 (IntraMail Answer Table Options):

1. Enter the programming mode.
2. 47 11

3. Enter the number of the item you want to program.

4. Enter the table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 47 : IntraMail
47-12: IntraMail Answer Schedules

Level:	Feature Availability
IN	• Available.

Description

Use **47-12: IntraMail Answer Schedules** to set up the IntraMail Automated Attendant Answer Schedules. There are eight Answer Tables, with up to 10 Answer Schedules in each Answer Table.

Input Data

Answer Table Number	1-8
Schedule Entry Number	01-10

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. • **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.	1 (Day of the Week) 2 (Range of Days) 3 (Date) 0 (Undefined)	Answer Table 1/ Schedule 1 = 2 (Range of Days) All other schedules = 0 (Undefined)

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. IntraMail mailbox categories are Station Mailbox (refer to Program 47-02), Group Mailbox (refer to Program 47-03), and Routing Mailbox (refer to Program 47-07). IntraMail 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 will hear the recorded announcement. Depending on how the Announcement Mailbox is programmed, IntraMail will then hang up, reroute the call, or provide additional dialing options.* • *If the Answering Mailbox is a Call Routing Mailbox, the outside caller will hear the instruction menu and can dial any options allowed by the associated Dial Action Table.* • *If the Answering Mailbox is a Directory Dialing Mailbox, the outside caller will hear the Directory Dialing Message and can reach an extension by dialing the first few letters of the person's name.* • *If the Answering Mailbox is a Distribution Mailbox, the outside caller hears the mailbox greeting (if recorded) and can leave a message.*	1 (Subscriber Mailbox) 2 (Master Mailbox) 3 (Routing Mailbox) 0 (Undefined)	0 (Undefined)
	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 (3 maximum, using 0-9)	Answer Table 1/ Schedule 1 = 1 All other Answer Schedules = No entry
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 (Sunday)
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 (Sunday) Answer Table 1/ Schedule 1 = 2 (Monday) All other schedules = 1 (Sunday)

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 (Friday) All other Answer Schedules = 1 (Sunday)
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 = No date set
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 = 08:30 (8:30AM) All other schedules are undefined.
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	Answer Table 1/ Schedule 1 = 1700 (5:00PM). All other schedules = 0000 (Undefined).

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 doesn't matter)
		47-12-05: Entry01 End Day = 1 (Entry doesn't matter)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry doesn't 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 doesn't matter)
		47-12-05: Entry01 End Day = 1 (Entry doesn't matter)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry doesn't 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 doesn't matter)
		47-12-05: Entry01 End Day = 1 (Entry doesn't matter)
		47-12-06: Entry01 Date (MMDD) = 0000 (Entry doesn't 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 doesn't 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 doesn't 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 doesn't 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 doesn't 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 doesn't 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 doesn't 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 doesn't matter)
		47-12-04: Entry01 Start Day = 1 (Entry doesn't matter)
		47-12-05: Entry01 End Day = 1 (Entry doesn't 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

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-12 (IntraMail Answer Schedules):

1. Enter the programming mode.
2. 47 12

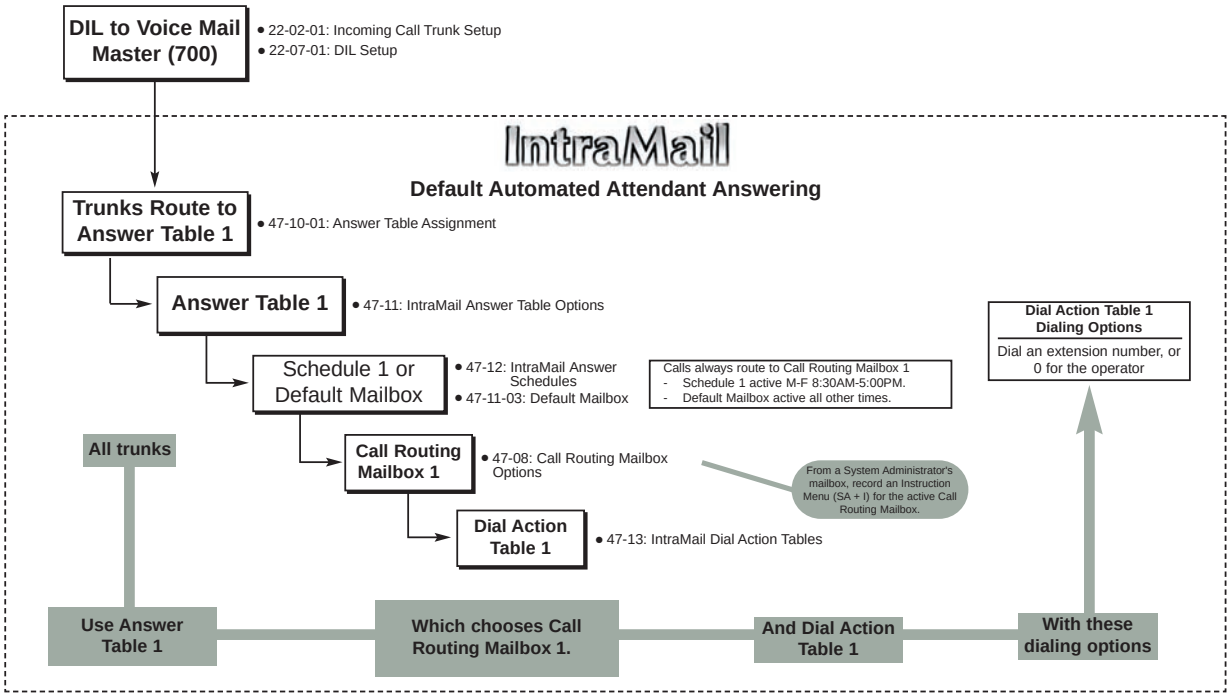
3. Enter the number of the item you want to program.

4. Enter the table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **47-13: IntraMail Dial Action Tables** to set up the IntraMail 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 IntraMail system. There are 16 Dial Action Tables.



Dial Action Table Actions

- **TRF Action - Screened Transfer (1) (TRF)**
  Use this action to allow an Automated Attendant caller to place a Screened Transfer to an extension. After an Automated Attendant caller dials an extension, IntraMail 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 doesn't answer within a preset interval, is busy, or is in Do Not Disturb, the Automated Attendant doesn't 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's number. The caller then dials that single digit to reach the extension.

  - For example, to have caller's 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 UX5000 unscreened transfers in which the transferring party immediately extends the call. After an Automated Attendant caller dials an extension, IntraMail transfers the call to the destination and hangs up. Any recalls or additional routing are handled by the UX5000 - 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's number. The caller then dials that single digit to reach the extension.

  - For example, to have caller's 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 *will* hear the extension's 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 *will not* hear the extension's 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 IntraMail 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 to enter the number of the Subscriber Mailbox into which they wish to log, 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 IntraMail 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, IntraMail says "*Goodbye"* and immediately hangs up.

  Number Option

  There is no entry 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 IntraMail 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 numbers.*

  - 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	1-9 = 1-9 10 = 0 11 = * 12 = # 13 = Timeout

Item	Name	Additional Data
01	**Dial Action Table Action** If Action is set to 0 or 6, the Data setting is skipped.	0=UND Action - Undefined Routing (UND) 1=TRF Action - Screened Transfer (TRF) 2=UTRF Action - Unscreened Transfer (UTRF) 3=REC1 Action - Quick Message With Greeting (REC1) 4=REC2 Action - Quick Message Without Greeting (REC2) 5=LOGON Action - Log Onto Voice Mail (LOGON) 6=Hang Up Action (HNGUP) 7=GOTO Action - Go to Mailbox (GOTO) LK1=Undefined LK2=TRF LK3=UTRF LK4=REC1 LK5=REC2 LK6=LOGON LK7=Hangup
	Data	• **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 digit 3 enter TRF for the *Action* and 305 for the corresponding *Number*. • **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."* • **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 digit 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 IntraMail 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. IntraMail ignores the first digit dialed by the caller (*), and routes according to the next 3 digits dialed. • **Pause** Entry : **P** *(Entered by pressing LK4)* Use the P option when you want the Automated Attendant to pause while dialing. *To set the duration of the pause, use 81-01-16: Pause Time. The default for the pause is 75s mS.*

Conditions

None

Defaults

Dial Action Table Default Settings		
Key	Dial Action Table 1	Dial Action Tables 2-16
1	0 - UND (Undefined)	0 - UND (Undefined)
2	0 - UND (Undefined)	0 - UND (Undefined)
3	2 - UTRF to XXX (Unscreened Transfer to user-dialed extension)	0 - UND (Undefined)
4	2 - UTRF to XXX (Unscreened Transfer to user-dialed extension)	0 - UND (Undefined)
5	0 - UND (Undefined)	0 - UND (Undefined)
6	0 - UND (Undefined)	0 - UND (Undefined)
7	0 - UND (Undefined)	0 - UND (Undefined)
8	0 - UND (Undefined)	0 - UND (Undefined)
9	6 - HNGUP (Hangup)	0 - UND (Undefined)
0	2 - UTRF to 301 (Unscreened Transfer to 301)	0 - UND (Undefined)
*	3 - REC1 to IXXX (Quick Message with greeting to user-dialed extension)	0 - UND (Undefined)
#	5 - LOGON to IXXX (Logon to user-dialed mailbox)	0 - UND (Undefined)
TIMEOUT	2 - UTRF to 301 (Unscreened Transfer to 301)	0 - UND (Undefined)

Note: TIMEOUT provides the routing for rotary dial callers.

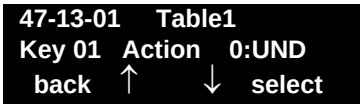
Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-13 (IntraMail Dial Action Tables):

1. Enter the programming mode.
2. 47 13



3. Enter the number of the item you want to program.

4. Enter the table number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 47 : IntraMail
47-15 : Routing Directory Mailbox Options

Level:	Feature Availability
IN	• Available.

Description

Use **47-15: Routing Directory Mailbox Options** to set up the Routing Mailbox assigned as a Directory Dialing Mailbox in 47-07-02: Routing Mailbox Type.

Input Data

Item No.	Item	Input Data	Default
01	**Minimum Number of Letters Required** (Min Num Letters) Use this option to specify the minimum number of letters the caller should dial in order to be routed by the Directory Dialing Mailbox. Callers must dial this minimum number of letters, followed by **#**.	1-3	1
02	**Directory List Number to Use** (Directory List) Use this option to specify which Directory List the Directory Dialing Mailbox should use. The Directory Dialing Mailbox can only call Subscriber Mailboxes that are in the list specified by this option.	1-8 (lists 1-8)	1 (list 1)
03	**Extension Name Match** (Name Match) Use this option to determine which portion of the extension's programmed name Directory Dialing will be used to route the call. The setting you choose in this option depends on how you set up **47-01-16 : IntraMail Basic Options - Name Format**. For example, if 47-01-16 was set to last/first (2) and 47-15-03 was set to first (1), an entered name of "Mary Jones" would be routed by "Jones", not "Mary". If 47-01-16 was set to first/last (1) and 47-15-03 was set to first (1), Directory Dialing would route by "Mary".	0 (first) or 1 (last)	0 (first)
04	**Unscreened or Screened Transfer** (Transfer Option) Use this option to define the action Directory Dialing uses when routing a call.	0 = Screened Transfer 1 = Unscreened Transfer	0
05	**Screened Transfer Timeout** (Scrn Trf Timeout) Use this option to set how long a Screened Transfer (STRF) from the Directory Dialing Mailbox will ring an unanswered extension before recalling. • The **24-02-04 : System options for Transfer - Transfer Recall Time** interval has no interaction with this timer.	0 = no recall 1-255 seconds	15 (seconds)

06	**Time Limit for Dialing Commands** (Dialing Timeout) This option determines how long IntraMail will wait for the caller connected to the Directory Dialing Mailbox to dial before repeating the Directory Dialing Message. If the caller doesn't dial within three repeats of the message, IntraMail routes the call to the Next Call Routing Mailbox for the Directory Dialing Mailbox.	0 = no timeout 1-99 seconds	5 (seconds)
07	**Fax Detection** (Fax Detection) Use this option to enable or disable Fax Detection for the Directory Dialing Mailbox. If enabled (1), the Directory Dialing Mailbox will detect incoming fax CNG tone. The fax will then route to the company fax machine according to the settings of **47-01-06 : IntraMail Basic Options - Fax Extension**. If disabled (0), the Directory Dialing Mailbox will not detect incoming fax calls.	0 = Disabled 1 = Enabled	0
08	**Next Call Routing Mailbox** (Next CR Mbox) Use this option to specify the Next Call Routing Mailbox for the Directory Dialing Mailbox. If a Next Call Routing Mailbox is specified, the following will occur: • If the caller dials 0 while listening to the Directory Dialing Message, they route to the 0 action programmed into the Dial Action Table associated with the Next Call Routing Mailbox. • If the caller dials # while listening to the Directory Dialing Message, they route immediately to the Next Call Routing Mailbox and listen to the recorded Instruction Menu Message for that mailbox.	01-32	0
09	**Fax Extension** (Fax Extension) Use this option to specify the extension number of the fax machine associated with the Call Routing Mailbox. When the Call Routing Mailbox answers a call and detects fax (CNG) tone, it automatically transfers the call to this extension.	Up to 8 digits	No Entry

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-15 (Routing Directory Mailbox Options):

1. Enter the programming mode.
2. 47 15

3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.
• Languages for input data 17-20 require software 2.0+.

Description

Use **47-16: IntraMail Language Assignments** to assign voice prompt languages. There are up to 20 possible languages. The Stored Languages you can access is limited by the UX5000's licensing and the number of languages stored on the IntraMail CompactFlash card.

Input Data

Language	01-20

Item No.	Item	Input Data	Default
01	**Language List Assignments** (Lang) Use this option to assign your licensed languages to license numbers. By default, IntraMail has three licensed languages: US English, French Canadian, and Mexican Spanish. If you activate more language licenses, you'll need to assign them to the language list in this option. There are 20 possible languages, and 20 entries in the language list.	01-20 (1 = US English 2 = UK English 3 = Australian English 4 = French Canadian 5 = Dutch 6 = Mexican Spanish 7 = Latin America Spanish 8 = Italian 9 = German 10 = Madrid Spanish 11 = Norwegian 12 = Parisian French 13 = Brazilian Portuguese 14 = Japanese 15 = Mandarin Chinese 16 = Korean 17 = IB Portuguese 18 = Greek 19 = Danish 20 = Swedish	01 = U.S. English 02 = French Canadian 03 = Mexican Spanish 04-20 = Not Available

Conditions

None

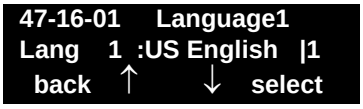
Feature Cross Reference

- Voice Mail

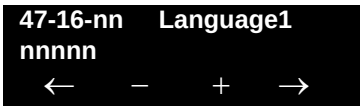
Terminal Programming Instructions

To enter data for Program 47-16 (IntraMail Language Assignments):

1. Enter the programming mode.
2. 47 16



3. Enter the number of the item you want to program.



4. Enter the language number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **47-17: Routing Distribution Mailbox Options** to enter the member extensions into each Distribution List. You can also enter member extensions from the System Administrator's Mailbox. This option is used when Program 47-07-02>Routing Mailbox Type is set to Type 4 (Distribution).

Input Data

Mailbox	01-32
Entry	01-20

Item No.	Item	Input Data	Default
01	**Distribution Mailbox Category** (Entryxx MB Ctg)	0 = Undefined 1 = Station Mailbox 2 = Group Mailbox	0
	Distribution Mailbox Number (Entryxx MB Num) When set to 0 above, no Distribution Mailbox setting is required. When set to 1 above, enter the Station Mailbox (001-512). Refer to Program 47-02. When set to 2 above, enter the Group Mailbox (01-32). Refer to Program 47-03.	Up to 3 digits	

Conditions

- The members of the Group Mailbox must be subscriber mailboxes, and both Station and Group mailboxes can be subscriber mailboxes.

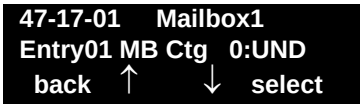
Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-17 (Routing Distribution Mailbox Options):

1. Enter the programming mode.
2. 47 17



3. Enter the number of the item you want to program.

4. Enter the mailbox number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.
• Item 01 input data addition of POP3 requires software 2.0+.

Description

Use **47-18: IntraMail SMTP Setup** to define the SMTP setting for IntraMail Email notification

Input Data

Item No.	Item	Input Data	Default
01	SMTP Enabled	0=No 1=Yes 2 = POP3	0
02	Server Name	Up to 48 characters	No entry
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 entry
07	Password	Up to 48 characters	No entry
08	Email Address	Up to 48 characters	No entry
09	Reply To Address	Up to 48 characters	No entry

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-18 (IntraMail SMTP Setup):

1. Enter the programming mode.
2. 47 18

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **47-19: IntraMail POP3 Setup** to define the POP3 setting for IntraMail Email notification

Input Data

Item No.	Item	Input Data	Default
01	Server Name	Up to 48 characters	No entry
02	POP3 Port	0-65535	110
03	Encryption	0=No 1=Yes	0
04	User Name	Up to 48 characters	No entry
05	Password	Up to 48 characters	No entry

Conditions

None

Feature Cross Reference

- Voice Mail

Terminal Programming Instructions

To enter data for Program 47-19 (IntraMail POP3 Setup):

1. Enter the programming mode.
2. 47 19

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 51 : CygniLink Service
51-01 : CygniLink System Settings

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-01 : CygniLink System Settings** to define the CygniLink settings. Each UX5000 within the network must be defined.

Input Data

Item No.	Item	Input Data	Default	Related Programs
01	**CygniLink System ID** This is the ID number that identifies each UX5000 within the CygniLink network. Each UX5000 must be a unique number in the network. When this option is set to 0, CygniLink is disabled. ***The UX5000 must be reset when changing this option.***	0-50 (0 = Disabled)	0	
02	**Primary Candidate Order** When the Primary UX5000 is turned off or disconnected from the network, this value is used to select the new Primary UX5000 with the Fail Over feature. The smaller the number, the higher the priority for the UX5000. When the value for two UX5000s is the same, lower CygniLink System ID (51-01-01) is selected as the Primary UX5000.	1-50	30	51-01-01
03	**Secondary System** The link between UX5000s is established based on this setting. When enabled, the UX5000 will connect with the top priority Primary UX5000 (address set in Program 51-04-01). If the UX5000 is not found within the defined time (Program 51-05-02), the Fail Over feature of the UX5000 will search for the Primary UX5000 (as if this option were set to '0'). The link between UX5000s is dynamically established based on the node list set in Program 51-03-01. The Primary UX5000 will be selected in the order in which the UX5000s wake up.	0=Disable 1=Enable	0	51-03-01 51-04-01 51-05-02

Conditions

- If the CygniLink system ID is changed in item 1, the UX5000 must be reset.
- This program cannot be changed when the CygniLink feature is established.

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-01 (CygniLink System Settings):

1. Enter the programming mode.
2. 51 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-02 : CygniLink System Individual Setting** to define the options for each of the linked UX5000s.

Input Data

System ID	01-50

Item No.	Item	Input Data	Default
01	**System Name** Set the desired system name for ease of maintaining information. Once the UX5000 is connected to the Primary UX5000, this setting is updated by the Primary UX5000. In a CygniLink network, the E911 alarm is also indicated with the system ID and name on the 3rd line of the LCD.	Up to 20 Alphanumeric Characters	No Entry
02	**Time Zone - Hour** Determine the offset hours from the Primary UX5000. This setting affects the time display on display keysets.	0~24 (-12 ~ +12 hours)	12
03	**Time Zone - Minute** Determine the offset minutes from the Primary UX5000. This setting affects the time display on display keysets.	0 ~ 120 (-60 ~ +60 minutes)	60
04	**System Authentication MAC Address** When Program 51-13-03 is enabled, the UX5000 checks this MAC address against the MAC address of the connecting CCPU. If the value is different, the connection is refused.	00-00-00-00-00-00 ~ FF-FF-FF-FF-FF-FF	00-00-00-00-00-00

Conditions

None

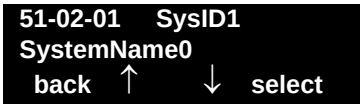
Feature Cross Reference

- Networking - CygniLink

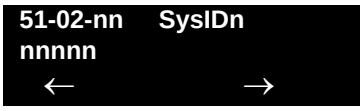
Terminal Programming Instructions

To enter data for Program 51-02 (CygniLink System Individual Setting):

1. Enter the programming mode.
2. 51 02



3. Enter the number of the item you want to program.



4. Enter the system ID number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-03 : CygniLink Internet Protocol Address List Setting

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-03 : CygniLink Internet Protocol Address List Setting** to define the addresses of the linked UX5000s. When the Fail Over feature is activated, the UX5000 checks this information to establish a new link to the Primary UX5000.

Input Data

List ID	01-50

Item No.	Item	Input Data	Default
01	**Internet Protocol Address List** The UX5000 sees the Primary UX5000 from within this list. When no Primary UX5000 is seen or Fail Over occurs, the Node List is referred to in order to establish a new link. This setting is necessary when Program 51-01-03 is set to '0' or Program 51-05-02 is other than '0'. Enter IP addresses for any UX5000 which is included in the network (especially the Primary UX5000). Once the UX5000 connects to the Primary UX5000, this setting is updated by the Primary UX5000 when Program 51-13-01 is enabled. This will allow any new or changed UX5000s to be added automatically. An IP address cannot be defined more than once.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0

Conditions

None

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-03 (CygniLink Internet Protocol Address List Setting):

1. Enter the programming mode.
2. 51 03

3. Enter the number of the item you want to program.

4. Enter the List ID number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-04 : IP Address for Top Priority Primary System

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-04 : IP Address for Top Priority Primary System** to define the IP address for the highest priority Primary UX5000. At the UX5000 start up, if the IP address of the UX5000 matches this entry, the UX5000 is considered the Primary UX5000.

If a Primary UX5000 is already established when the UX5000 with this IP address is powered up, the newly powered up UX5000 will start as a secondary UX5000 - the Primary/Secondary link will not be restructured until a Fail Over condition occurs.

Input Data

Item No.	Item	Input Data	Default
01	**Internet Protocol Address for Top Priority Primary System** Enter the IP address of the Primary UX5000. This setting is needed to use the Primary System Automatic Integration Feature (Program 51-06-01). If the secondary flag is set in Program 51-01-03 secondary UX5000s will connect with this IP address.	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0

Conditions

None

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-04 (IP Address for Top Priority Primary System):

1. Enter the programming mode.
2. 51 04

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-05 : Timer Settings for CygniLink

Level:
IN

Feature Availability
• Available.

Description

Use **Program 51-05 : Timer Settings for CygniLink** to set the various timers used with the CygniLink feature.

Input Data

Item No.	Item	Input Data	Default
01	**Keep Alive Sending Interval** Set the interval for the secondary UX5000 to send the Keep Alive packet to the Primary UX5000 to confirm communication.	1-3600	5
02	**Keep Alive Response Waiting Time** The secondary UX5000 will wait this interval for response to the Keep Alive packet to confirm communication with Primary UX5000. If no response is received, Fail Over occurs. A setting of '0' will disable this and the UX5000 will wait indefinitely for a response from the Primary UX5000. For Fail Over to occur, this timer must be set to an entry other than '0'.	0, 5-10800	20
03	**Primary Search Packet Sending Interval** This timer determines how long between packets the UX5000 will wait when searching for a new Primary UX5000 with the Fail Over feature.	1-3600	5
04	**Top Primary Search Time** Set the interval between packet sending when the UX5000 is reviewing priority levels for a new higher-priority Primary UX5000.	5-10800	20
05	**Top Priority Primary Detection Packet Sending Interval** When the current Primary UX5000 is not the Top Priority Primary UX5000, the UX5000 sends packets at this interval to check if a higher riority UX5000 exists.	1-3600	10
06	**Primary System Seeking Time with Forced Change Primary** When the Forced Change Primary command is executed, the UX5000 will search for the new Primary UX5000 for this time.	1-10800	30

Item No.	Item	Input Data	Default
07	**Communications Socket Refresh Timer** If the IP connection becomes unstable and communication is lost (keep-alive function will not work), the UX5000 retries the connection at this interval.	20-3600	40

Conditions

None

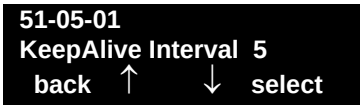
Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-05 (Timer Settings for CygniLink):

1. Enter the programming mode.
2. 51 05



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-06 : CygniLink Primary System Automatic Integration Setting

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-06 : CygniLink Primary System Automatic Integration Setting** to set the automatic integration. This will allow for multiple primary UX5000s which may have occurred due to Fail Over to be restructured around the recovered top priority Primary UX5000.

Input Data

Item No.	Item	Input Data	Default
01	**Primary Automatic Integration** When Fail Over occurs, multiple Primary UX5000s may be established. When the connection is recovered, with this option enabled, the CygniLink feature will automatically be re-established around the top priority Primary UX5000.	0 = Disabled 1 = Enabled	0
02	**Blade Reset Timing Option** When the Primary Automatic Integration re-establishes the CygniLink network, the blades in the secondary UX5000s are reset. This option determines if the secondary UX5000 blades are reset only when all blades are idle (0) or at any time (1).	0 = Disabled 1 = Enabled	0

Conditions

None

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-06 (CygniLink Primary System Automatic Integration Setting):

1. Enter the programming mode.
2. 51 06

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-07 : CygniLink Forced Change of Primary System Settings

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-07 : CygniLink Forced Change of Primary System Settings** to enable the ability to manually reset the CygniLink's Primary UX5000.

Input Data

Item No.	Item	Input Data	Default
01	**Allow Forced Change of Primary System** When Fail Over occurs, you can manually change the Primary UX5000 using Program 51-08, if this option is enabled. Program 51-06-01 must be set to "0".	0 = Disabled 1 = Enabled	0
02	**Blade Reset Timing Option** When the Forced Change of Primary Settings is performed, the blades in the secondary UX5000s are reset. This option determines if the secondary UX5000 blades are reset only when all blades are idle (0) or at any time (1).	0 = Disabled 1 = Enabled	0

Conditions

None

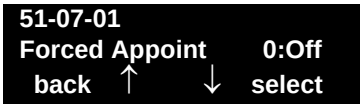
Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-07 (CygniLink Forced Change of Primary System Settings):

1. Enter the programming mode.
2. 51 07



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-08 : New Primary System Setting

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-08 : New Primary System Setting** to define the settings for the Primary UX5000 if the Primary is forced manually.

Input Data

Item No.	Item	Input Data	Default
01	**Internet Protocol Address of New Primary** When forcing the UX5000 to update to a new Primary UX5000, the UX5000 using the IP address defined here as the new Primary. ***Note: After a Forced Change of Primary UX5000 is done, this entry will be erased.***	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0
02	**System ID of New Primary** If an IP address is displayed in Program 51-11-03, you can execute a Forced Change Primary UX5000 by entering the UX5000 ID. If this ID is set to "0", the Top Priority UX5000 will be selected as the new Primary.	0-50	Blank

Conditions

- Program 51-06-01 must be set to "0" and 51-07-01 must be set to "1" in order for this program to work.
- The network must be connected to the Primary UX5000 and the IP address must be displayed in 51-11-03 to specify the new primary by system ID.

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-08 (New Primary System Setting):

1. Enter the programming mode.
2. 51 08

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-09 : CygniLink TCP Port Settings

Level:
IN

Feature Availability
• Available.

Description

Use **Program 51-09 : CygniLink TCP Port Settings** to set the various communication ports used with CygniLink. The port numbers should not be changed while CygniLink is running. Once changed, the UX5000 must be reset.

Input Data

Item No.	Item	Input Data	Default
01	**Primary Port** Define the port the Primary UX5000 uses to communicate with the Secondary UX5000.	0-65535	58000
02	**Communication Port** Define the port used to communicate between other networked UX5000s.	0-65535	58001
03	**Secondary Port** This setting defines the port used by the Secondary UX5000 to communicates to the Primary UX5000. If '0' is entered, the port is selected dynamically.	0-65535	0
04	**Primary Search Port** When Fail Over occurs, each UX5000 communicates with the other UX5000s using the port number specified in this entry. If '0' is entered, the port is selected dynamically. If an entry other than '0' is made, up to 50 ports (depending in the number of networked UX5000s) are continuously used from the specified port number. (Ex: If 5000 is entered, 5001-5049 will be used.)	0-65535	0
05	**Primary Detection Port** Enter the port number to search for the Top Priority Primary UX5000. If '0' is entered, the port is selected dynamically.	0-65535	0
06	**Database Replication Secondary System Listening Port** Define the listening port used so that the Secondary UX5000 can replicate the Primary UX5000 database.	0-65535	58002

Item No.	Item	Input Data	Default
07	**Database Replication Primary System Detection Port** Define the port used for communication so that the Primary UX5000 may synchronize the Secondary UX5000 with the UX5000 data. If '0' is entered, the port is selected dynamically.	0-65535	0

Conditions

- The port numbers should not be changed while CygniLink is running. Once changed, the UX5000 must be reset.

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-09 (CygniLink TCP Port Settings):

1. Enter the programming mode.
2. 51 09

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 51 : CygniLink Service
51-10 : Remaining Virtual Slots

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-10 : Remaining Virtual Slots** to view the remaining number of slots which can be controlled by CygniLink. The CygniLink feature can control up to 240 virtual slots maximum. (The physical slots within the CygniLink network are maintained as virtual slots by the UX5000.) ***This option is not user-definable and is view-only.***

Input Data

Item No.	Item	Input Data	Default
01	Remaining Virtual Slots	0-240	-

Conditions

None

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-10 (Remaining Virtual Slots):

1. Enter the programming mode.
2. 51 10

   51-10-01
   Vir Slot Remainder n
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   51-10-nn
   nnnnn
   ← →

4. Press HOLD.
5. Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-11 : CygniLink System Information** to view the UX5000 information for UX5000s connecting with the Primary UX5000. ***These options are not user-definable and are view-only.***

Input Data

System ID	01-50

Item No.	Item	Input Data	Default
01	System Name	20 Alphanumeric Characters or Less	blank
02	Connection Status	0 = No Connection 1 2 = Primary	0
03	IP Address	xxx.xxx.xxx.xxx	000.000.000.000
04	Mac Address	xx:xx:xx:xx:xx:xx	00:00:00:00:00:00
05	Primary Priority Level	1-50	0
06	Main Software Version	xx.xx	00.00

Conditions

None

Feature Cross Reference

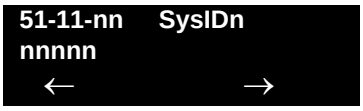
- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-11 (CygniLink System Information):

1. Enter the programming mode.
2. 51 11

3. Enter the number of the item you want to program.



4. Enter the System ID number to be viewed or press FLASH to use the displayed entry.
5. Press HOLD to view the information.
6. Press HOLD for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-12 : Primary System Information** to view the information for the Primary UX5000 in a CygniLink network. ***These options are not user-definable and are view-only.***

Input Data

Item No.	Item	Input Data	Default
01	System ID	1-50	0
02	System Name	20 Alphanumeric Characters or Less	blank
03	IP Address	xxx.xxx.xxx.xxx	000.000.000.000
04	Mac Address	xx:xx:xx:xx:xx:xx	00:00:00:00:00:00
05	Primary Priority Level	1-50	0
06	Main Software Version	xx.xx	00.00

Conditions

None

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-12 (Primary System Information):

1. Enter the programming mode.
2. 51 12

3. Enter the number of the item you want to program.

4. Press HOLD to view the information.
5. Press HOLD for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-13 : CygniLink Option Settings** to set various options for the CygniLink feature.

Input Data

Item No.	Item	Input Data	Default
01	**Automatic IP Address List Update** If this option is enabled, the Internet Protocol address list is updated to include the IP address of a Secondary UX5000 upon connection.	0=Disabled 1=Enabled	1
02	**Time Zone Enhancing** When enabled, the time zone is applied to the following items: • Clock Display • Caller ID History • VRS Time Announce • Time and Date Set by Service Code • Alarm Clock • Hotel Mode Wake-Up Call (time announce included)	0=Disabled 1=Enabled	0
03	**MAC Address Authentication** When enabled, connection authentication of the UX5000 is done with the MAC address set in Program 51-02-04.	0=Disabled 1=Enabled	0

Conditions

None

Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-13 (CygniLink Option Settings):

1. Enter the programming mode.
2. 51 13

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-14 : CygniLink System Control** to delete UX5000 information for a network node and its slot information.

Input Data

System ID	01-50

Item No.	Item	Input Data
01	**Delete System Information** Use this option to delete the UX5000 and slot information for a particular UX5000 using the CygniLink feature. To use this program, the UX5000 must not be connected to the network.	1 + HOLD to Delete or Press MIC to Cancel

Conditions

Prior to executing this program, disconnect the UX5000 to be deleted from the network.

Feature Cross Reference

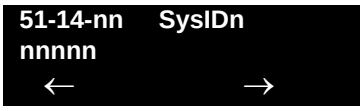
- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-14 (System Control):

1. Enter the programming mode.
2. 51 14

3. Enter the number of the item you want to program.



4. Enter the System ID number to be viewed or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-15 : Easy Set Command** to automatically set the minimum settings for the CygniLink feature. This program will set up to 4 systems.

Input Data

Item No.	Item	Input Data
01	**Easy Setup (for demo use)** Select the number of systems to be automatically set up. This program will apply the minimum settings required to Program 10-12-09, 51-01-01, 51-03-01, 51-04-01, and 51-05-02.	1 = Primary Automatic Setup 2 = Secondary 1 Automatic Setup 3 = Secondary 2 Automatic Setup 4 = Secondary 3 Automatic Setup

Conditions

- If this option is set, the UX5000 automatically changes Programs 10-12-09, 51-01-01, 51-03-01, 51-04-01, and 51-05-02.
- The UX5000 must be reset after running this program.

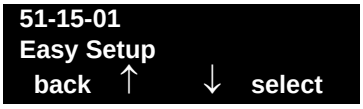
Feature Cross Reference

- Networking - CygniLink

Terminal Programming Instructions

To enter data for Program 51-15 (Easy Setup Command):

1. Enter the programming mode.
2. 51 15



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 51-16 : CygniLink System Data Replication Mode Setting** to define the replication mode to be used for data between the Primary and Secondary UX5000s.

Input Data

Item	Name	Input Data	Default
01	**System Data Replication Mode** Use this option to set the replication mode. An entry of '1' will replicate the data at the time set in 51-16-02. If this option is set to '2', replication will occur at the interval set in 51-16-03.	0=Disabled 1=Setting Time Mode 2=Interval Mode	1
02	**System Data Replication Time Setting** If Program 51-16-01 is set to '1', set the time to replicate the UX5000 data.	0000-2359	0200
03	**System Data Replication Interval Setting** If Program 51-16-01 is set to '2', set the interval time between replicating the UX5000 data.	15-1440 (Min)	30 (min)
04	**Replication Time Stamp** **This program displays the last time the UX5000 data was replicated. This is automatically updated whenever the replication occurs.** **This option is view-only.**	**Month: 0~12** **Day: 00~31** **Hour: 00~23** **Minute: 00~59**	**-**
05	**System Data Replication Wait Time** When a CygniLink network is created, this option determines how long the UX5000 waits until replication is started.	1-86400 (seconds) (86400 seconds = 1 day)	180 sec (3 min)
06	**System Data Replication Interval** This option sets the interval time to start replication to the next node after replication has completed to one node.	0-86400 (seconds) (86400 seconds = 1 day)	1 (sec)

Conditions

None

Feature Cross Reference

- Networking - CygniLink

Program 51 : CygniLink Service
51-16 : CygniLink System Data Replication Mode Setting

Terminal Programming Instructions

To enter data for Program 51-16 (CygniLink System Data Replication Mode Setting):

1. Enter the programming mode.
2. 51 16

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 80 : Basic Hardware Setup for System
80-01 : Service Tone Setup

Level:
IN

Feature Availability
• Available.

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 is endless)

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	0, 1-255 (0, 100-25500ms)
04	Gain Level (dB)	0, 1-63 (0, -15.5 ~ +15.5)

Table-1A : Basic Tone

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	1800	-13
08	1050	-13	24	400 / 450	-13 / -13
09	350 / 440	-16 / -16	25	- reserve -	-
10	440 / 480	-16 / -16	26	- reserve -	-

Basic Tone No.	Frequency (Hz)	Level (dB)
11	480 / 620	-21 / -21
12	440	-16
13	- reserve -	-
14	520 / 650	-19 / -13
15	650 / 780	-19 / -13
16	780 / 1040	-19 / -13

Basic Tone No.	Frequency (Hz)	Level (dB)
27	- reserve -	-
28	- reserve -	-
29	- reserve -	-
30	- reserve -	-
31	- reserve -	-
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	10	0	-
2	Intercom Dial Tone	0	Basic 1 Basic 2	9 0	10 0	32 (0dB)
3	Special Dial Tone	0	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	0 9 0 9 0 9 0	2 1 1 1 1 77 0	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
4	Internal Recall Dial Tone	2	Basic 1 Basic 2 Basic 3	9 0 0	1 1 0	32 (0dB) 32 (0dB)
5	Trunk Dial Tone	0	Basic 1 Basic 2	9 0	10 0	32 (0dB)
6	Busy Tone	0	Basic 1 Basic 2 Basic 3	0 11 0	5 5 0	20 (-6dB) 20 (-6dB)
7	DND Busy Tone and Select-able Display Message Tone	0	Basic 1 Basic 2 Basic 3	0 1 0	2 2 0	32 (0dB) 32 (0dB)
8	Busy Tone	0	Basic 1 Basic 2 Basic 3	0 11 0	5 5 0	20 (-6dB) 20 (-6dB)
9	Internal Reorder Tone	0	Basic 1 Basic 2 Basic 3	11 0 0	3 2 0	20 (-6dB) 20 (-6dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
10	Internal Interrupt Tone	0	Basic 1 Basic 2 Basic 3	11 0 0	3 2 0	20 (-6dB) 20 (-6dB)
11	Internal Confirmation Tone	3	Basic 1 Basic 2 Basic 3	0 9 0	1 1 0	32 (0dB) 32 (0dB)
12	Internal Hold Tone	0	Basic 1	0	0	-
13	External Hold Tone	0	Basic 1	0	0	-
14	Intercom Ringback Tone	0	Basic 1 Basic 2 Basic 3	10 0 0	10 30 0	20 (-6dB) 20 (-6dB)
15	Override Tone	1	Basic 1 Basic 2	12 0	5 0	32 (0dB)
16	Lock-Out Tone	0	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
17	Clock Alarm Tone	0	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5	6 0 6 0 0	1 1 1 7 0	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
18	BGM	0	Basic 1	0	0	-
19	Door Box Chime 1	3	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	4 4 2 2 2 0 0	2 2 3 4 6 5 0	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
20	Door Box Chime 2	3	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	7 7 5 5 5 0 0	2 2 3 4 6 5 0	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
21	Door Box Chime 3	3	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	8 8 6 6 6 0 0	2 2 3 4 6 5 0	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 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	4 4 2 2 2 0 0	1 1 2 2 3 2 0	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
23	Door Box Chime 5	3	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	7 7 5 5 5 0 0	1 1 2 2 3 2 0	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
24	Door Box Chime 6	3	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	8 8 6 6 6 0 0	1 1 2 2 3 2 0	38 (+3dB) 26 (-3dB) 38 (+3dB) 26 (-3dB) 14 (-9dB) 32 (0dB)
25	Service Set Tone	3	Basic 1 Basic 2 Basic 3	0 9 0	1 1 0	32 (0dB) 32 (0dB)
26	Service Clear Tone	3	Basic 1 Basic 2 Basic 3	0 9 0	1 1 0	32 (0dB) 32 (0dB)
27	Talkback Tone	2	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
28	**Speaker Monitor Tone** This tone is what the originator hears when placing a handsfree speaker ICM call. Note: The received ICM tone can not be changed.	1	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
29	Door Relay Tone	1	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
30	Door Box Call Tone	1	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
31	Paging Tone	2	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
32	Splash Tone 1	1	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
33	Splash Tone 2	2	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
34	Splash Tone 3	3	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	32 (0dB) 32 (0dB)
35	**1 Second Signal Tone** Used for Long Conversation Warning Tone.	1	Basic 1 Basic 2	6 0	10 0	32 (0dB)
36	Sensor Alarm Tone 1	0	Basic 1 Basic 2 Basic 3	10 0 0	10 30 0	32 (0dB) 32 (0dB)
37	Sensor Alarm Tone 2	0	Basic 1 Basic 2 Basic 3	0 11 0	2 3 0	32 (0dB) 32 (0dB)
38	Sensor Alarm Tone 3	0	Basic 1 Basic 2 Basic 3	0 11 0	5 5 0	32 (0dB) 32 (0dB)
39	Ring Busy Tone	0	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7	0 11 0 11 10 0 0	5 5 5 5 10 20 0	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
40	Internal Call Waiting Tone	1	Basic 1 Basic 2	12 0	2 0	32 (0dB)
41	Intrusion Tone	1	Basic 1 Basic 2	12 0	5 0	32 (0dB)
42	Conference Tone	0	Basic 1	0	0	32 (0dB)
43	Intrusion Tone 2	0	Basic 1	0	0	32 (0dB)
44	External Dial Tone	0	Basic 1 Basic 2	9 0	1 0	26 (-3dB)
45	External Ring Back Tone	0	Basic 1 Basic 2 Basic 3	10 0 0	10 30 0	32 (0dB) 32 (0dB)
46	External Busy Tone	0	Basic 1 Basic 2 Basic 3	0 10 0	5 5 0	32 (0dB) 32 (0dB)
47	Number Unobtainable Tone	0	Basic 1	11	0	-

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
48	Voice Mail Message Waiting, Special Dial Stutter Dial Tone (analog sets)	0	Basic 1 Basic 2 Basic 3	9 0 0	1 1 0	32 (0dB) 32 (0dB)
49	-- Not Used --	0	0	0	0	32 (0dB)
50	External Special Audible Ring Tone	0	Basic 1 Basic 2 Basic 3 Basic 4	10 12 0 0	10 2 30 0	32 (0dB) 32 (0dB) 32 (0dB)
51	External Intercept Tone	0	Basic 1 Basic 2 Basic 3	12 4 0	3 2 0	32 (0dB) 32 (0dB)
52	External Call Waiting Tone	1	Basic 1 Basic 2	12 0	3 0	32 (0dB)
53	External Executive Overri-deTone	1	Basic 1 Basic 2	12 0	10 0	32 (0dB)
54	- Not Used --	0	Basic 1	0	0	-
55	Generate tone for TAPI2.1	0	Basic 1	3	0	-
56	Warning Beep Tone Signaling	1	Basic 1 Basic 2	2 0	8 0	32 (0dB)
57	Headset Ringing Tone	0	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6	0 2 0 2 0 0	2 1 1 1 20 0	32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB) 32 (0dB)
58	Opening Chime Tone, External Paging	1	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7 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, External Paging	1	Basic 1 Basic 2 Basic 3 Basic 4 Basic 5 Basic 6 Basic 7 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 1 Basic 2 Basic 3	0 6 0	1 1 0	8 (-12dB) 8 (-12dB)

Program 80 : Basic Hardware Setup for System
80-01 : Service Tone Setup

Service Tone No.	Service Tone	Repeat Count	Unit Count	Basic Tone No.	Duration	Gain Level (dB)
61	Splash Tone 2 (Mute)	2	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	8 (-12dB) 8 (-12dB)
62	Splash Tone 3 (Mute)	3	Basic 1 Basic 2 Basic 3	0 6 0	1 1 0	8 (-12dB) 8 (-12dB)
63	Ring Over Page	0	Basic 1 Basic 2 Basic 3	10 0 0	10 30 0	32 (0dB) 32 (0dB)
64	**Music On Hold System Tone** The tone heard by the user when placed on hold when Program 10-04-01 set to "2".	0	Basic 1 Basic 2 Basic 3 Basic 4	11 0 11 0	2 3 2 12	35 (+1.5dB) 32 (0dB) 35 (+1.5dB) 32 (0dB)

Conditions

The UX5000 must be reset in order for any changes to these items take affect.

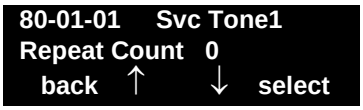
Feature Cross Reference

- Selectable Ring Tones

Terminal Programming Instructions

To enter data for Program 80-01 (Service Tone Setup):

1. Enter the programming mode.
2. 80 01



3. Enter the number of the item you want to program.

4. Enter the Service Tone number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

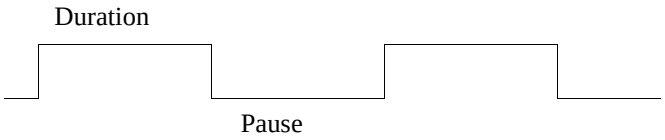
Level:	Feature Availability
IN	• Available.

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. You 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 (100 ms)
02	Pause	1-255	5 (100 ms)
03	Tone Level (Low) (dB)	1-97 (-45.0 ~ +3)	65 (-13dB)
04	Tone Level (High)	1-97 (-45.0 ~ +3)	69 (-11dB)



Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.
- The UX5000 must be reset in order for any changes to these items take affect.

Feature Cross Reference

- Selectable Ring Tones

Program 80 : Basic Hardware Setup for System
80-02 : DTMF Tone Setup

Terminal Programming Instructions

To enter data for Program 80-02 (DTMF Tone Setup):

1. Enter the programming mode.
2. 80 02

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 80-03 : DTMF Tone Receiver Setup** to define the various levels and timers for the DTMF Tone Receiver

Input Data

DTMF Tone Receiver Type Number	1 = DTMF Receiver for Extension 2 = DTMF Receiver for Trunk 3 = - Reserve - 4 = - Reserve - 5 = - Reserve -

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 detect level 0 : –10dBm(0) to –25dBm(15) detect level 1 : –15dBm(0) to –30dBm(15) detect level 2 : –20dBm(0) to –35dBm(15) detect level 3 : –25dBm(0) to –40dBm(15) detect level 4 : –30dBm(0) to –45dBm(15) detect level 5 : –35dBm(0) to –50dBm(15) detect level 6 : –40dBm(0) to –55dBm(15)
04	Max. detect level	0-15 detect level 0 : 0dBm(0) to –15dBm(15) detect level 1 : –5dBm(0) to –20dBm(15) detect level 2 : –10dBm(0) to –25dBm(15) detect level 3 : –15dBm(0) to –30dBm(15) detect level 4 : –20dBm(0) to –35dBm(15) detect level 5 : –25dBm(0) to –40dBm(15) detect level 6 : –30dBm(0) to –45dBm(15)
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)	10(-20dBm)	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

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.
- The UX5000 must be reset in order for any changes to these items take affect.

Feature Cross Reference

- Selectable Ring Tones

Terminal Programming Instructions

To enter data for Program 80-03 (DTMF Tone Receiver Setup):

1. Enter the programming mode.
2. 80 03

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 80 : Basic Hardware Setup for System
80-04 : Call Progress Tone Detector Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 80-04 : Call Progress Tone Detector Setup** to define the various levels and timers for the Call Progress Tone Detector

Input Data

Tone Detector Type No	1 = Dial Tone for Trunk 2 = Busy Tone for Trunk 3 = Ring Back Tone for Trunk 4 = - Reserve - 5 = - Reserve -

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	Min. detect level	0-15 detect level 0 : –10dBm(0) to –25dBm(15) detect level 1 : –15dBm(0) to –30dBm(15) detect level 2 : –20dBm(0) to –35dBm(15) detect level 3 : –25dBm(0) to –40dBm(15) detect level 4 : –30dBm(0) to –45dBm(15) detect level 5 : –35dBm(0) to –50dBm(15) detect level 6 : –40dBm(0) to –55dBm(15)
03	S/N ratio	0-4 (0dB ~ -20dB)
04	No tone time	1-255 (30+30-7680ms) (0 = No detection)
05	Pulse Count	1-255
06	ON min. time	1-255 (30+30-7680ms)
07	ON max. time	0-255 (30+30-7680ms) (0 = No detection)
08	OFF min. time	1-255 (30+30-7680ms)
09	OFF max. time	1-255 (30+30-7680ms) (0 = No detection)
10	-- Reserve --	0-8

11	-- Reserve --	0-8
12	-- Not Used in U.S. --	-
13	-- Not Used in U.S. --	-
14	-- Not Used in U.S. --	-

Default

Item No.	Item	Type1 (DT)	Type2 (BT)	Type3 (RBT)	Type4	Type5
01	Detect Level	0 (0..-25dBm)	0 (0..-25dBm)	0 (0..-25dBm)	0	0
02	Min. detect level	15 (-25dBm)	15 (-25dBm)	15 (-25dBm)	0	0
03	S/N ratio	4 (-20dB)	4 (-20dB)	4 (-20dB)	0	0
04	No tone time	132 (3990ms)	132 (3990ms)	132 (3990ms)	0	0
05	Pulse Count	1	1	1	0	0
06	ON min. time	9 (300ms)	12 (390ms)	25 (780ms)	0	0
07	ON max. time	0 (Not detect)	20 (630ms)	40 (1230ms)	0	0
08	OFF min. time	1 (60ms)	12 (390ms)	83 (2520ms)	0	0
09	OFF max. time	1 (60ms)	20 (630ms)	115 (3480ms)	0	0
10	-- Reserve --	1	1	1	0	0
11	-- Reserve --	0	0	0	0	0
12	Frequency 1	1	3	2	1	1
13	Frequency 2	2	4	3	0	0
14	Twist Level	0	0	0	0	0

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.
- The UX5000 must be reset in order for any changes to these items take affect.

Program 80 : Basic Hardware Setup for System
80-04 : Call Progress Tone Detector Setup

Feature Cross Reference

- Selectable Ring Tones

Terminal Programming Instructions

To enter data for Program 80-04 (Call Progress Tone Detector Setup):

1. Enter the programming mode.
2. 80 04

3. Enter the number of the item you want to program.

4. Enter the tone number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 80 : Basic Hardware Setup for System
80-05 : Date Format for SMDR and System Reports

Level:	Feature Availability
IN	• Available.

Description

Use **Program 80-05 : Date Format for SMDR and System Reports** to define the date format when printing out the SMDR, alarm report, UX5000 information report, etc.

Input Data

Item No.	Date Format	Default
01	0 = American Format (Month / Date / Year) 1 = Japanese Format (Year / Month / Date) 2 = European Format (Date/Month/Year)	0

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

- Station Message Detail Recording
- Time and Date

Terminal Programming Instructions

To enter data for Program 80-05 (Date Format for SMDR and System Reports):

1. Enter the programming mode.
2. 80 05

   80-05-01
   Date Format 1:Japan
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   80-05-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 80 : Basic Hardware Setup for System
80-07 : Call Progress Tone Detector Frequency Setup

Level:	Feature Availability
MF	• Not Available.

Description

This option is not used in the U.S.

Level:	Feature Availability
IN	• Not Available.

Description

Use to define the short ring for UX5000 multi-line terminals.

Input Data

Short Ring Number	01 - 32

Input Data

Item No.	Item	Input Data
01	Frequency 1	00, 01-15 (00 = No Setting)
02	Frequency 1	00, 01-15 (00 = No Setting)
03	Ring Cycle	00, 01-14 (00 = No Setting)

When the single sound is sent, frequency 1/2 is set to the same value.

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
12	1175
13	1318
14	1397
15	1568

Data	Ring Cycle (msec)
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
15	

Default

Short Ring No.	Short Tone Name	Frequency 1	Frequency 2	Ring Cycle
01	Confirmation sound	8	8	1
02	Error tone	8	8	14
03	Terminal call warning sound for a long time	4	4	14
04	Not Defined	0	0	0
:		:	:	:
32	Not Defined	0	0	0

Conditions

None

Feature Cross Reference

- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 80-09 (Short Ring Setup):

1. Enter the programming mode.
2. 80 09

3. Enter the number of the item you want to program.

4. Enter the short ring number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
MF	• Not Available.

Description

Use to define the various levels and timers for the MF Tone Receiver

Input Data

MF Tone Receiver Type Number	1 = MF Receiver for Extension 2 = MF Receiver for Trunk 3 = -- Reserve -- 4 = -- Reserve -- 5 = -- Reserve --

Input Data

Item No.	Item	Input Data
01	Detect Level	0 : 0dBm to -25dBm 1 : -5dBm to -30dBm 2 : -10dBm to -35dBm 3 : -15dBm to -40dBm 4 : -20dBm to -45dBm 5 : -25dBm to -50dBm 6 : -30dBm to -55dBm
02	Start Delay Time	0-255 (0.25step, 0ms-64ms)
03	Minimum Detect Level	0-15 detect level 0 : -10dBm(0) to -25dBm(15) detect level 1 : -15dBm(0) to -30dBm(15) detect level 2 : -20dBm(0) to -35dBm(15) detect level 3 : -25dBm(0) to -40dBm(15) detect level 4 : -30dBm(0) to -45dBm(15) detect level 5 : -35dBm(0) to -50dBm(15) detect level 6 : -40dBm(0) to -55dBm(15)
04	Maximum Detect Level	0-15 detect level 0 : 0dBm(0) to -15dBm(15) detect level 1 : -5dBm(0) to -20dBm(15) detect level 2 : -10dBm(0) to -25dBm(15) detect level 3 : -15dBm(0) to -30dBm(15) detect level 4 : -20dBm(0) to -35dBm(15) detect level 5 : -25dBm(0) to -40dBm(15) detect level 6 : -30dBm(0) to -45dBm(15)
05	Twist Level	0-9 (1dB…10dB)
06	S/N Ratio	0-4 (-5 step, 0dB to -20dB)
07	ON Detect Tme	1-255 (15 step, 30ms to 3840ms)
08	OFF Detect Tme	1-255 (15step, 30ms to 3840ms)

Program 80 : Basic Hardware Setup for System
80-10 : MF Tone Receiver Setup

Default

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 (-2dBm)	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)	2 (-2dBm)
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

- Central Office Calls, Answering

Terminal Programming Instructions

To enter data for Program 80-10 (MF Tone Receiver Setup):

1. Enter the programming mode.
2. 80 10

3. Enter the number of the item you want to program.

4. Enter the type number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Program 81 : Basic Hardware Setup for Trunk
81-01 : COIU Initial Data Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 81-01 : COIU Initial Data Setup** to define the various basic timers for COIU blades.

Input Data

Item No.	Item	Input Data	Default
01	Companding Method Type	0 = u-law 1 = A-law	0 (u-law)
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 Detected Minimum	1-255 (8-2040mS)	88 (704ms)
09	Abandoned Call Detection Timer	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** If an entry other than "0" is made, the actual waiting time is the value x 64ms. For example, if the timer is set to 46, the COIU waits 46 x 64ms = 2944ms). If a problem exists with Caller ID displaying, the recommended entry to try first would be "46".	0 = COIU waits 500ms from end of first ring to beginning of FSK signal for Caller ID 1 - 255 (64-16320mS) = The COIU waits for the Caller ID FSK signal from when the first ring pulse was detected.	0
13	Grounding Time	1-255 (16-4080mS)	9 (144ms)
14	**Flash (Hooking 1)** This sets the flash (Hooking 1) duration for analog trunk calls. See Program 14-02-04.	1-255 (16-4080mS)	50 (800ms)

Item No.	Item	Input Data	Default
15	**Flash (Hooking 2)** This sets the flash (Hooking 2) duration for analog trunk calls. See Program 14-02-04.	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	Pulse Dial Break Time (10pps)	1-255 (8-2040mS)	8 (32ms)
28	Pulse Dial Make Time (10pps)	1-255 (8-2040mS)	5 (40ms)
29	Inter-Digit Time (10pps)	1-255 (32-8160mS)	25 (800ms)
30	Pulse Dial Break Time (20pps)	1-255 (8-2040mS)	4 (32ms)
31	Pulse Dial Make Time (20pps)	1-255 (8-2040mS)	2 (16ms)
32	Inter-Digit Time (20pps)	1-255 (32-8160mS)	16 (512ms)
33	Charging Pulse Minimum Duration Time	1-255 (8-2040mS)	9 (72ms)
34	Charging Pulse Minimum Period Time	1-255 (8-2040mS)	29 (232ms)
35	Charging Pulse Minimum Interval Time	1-255 (8-2040mS)	6 (48ms)
36	Long Ringing Minimum Detection Time	1-255 (16-4080mS)	50 (2400ms)

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

- Central Office Calls, Placing

Terminal Programming Instructions

To enter data for Program 81-01 (COIU Initial Data Setup):

1. Enter the programming mode.
2. 81 01

   81-01-01
   Encoding Type 0: U-LAW
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   81-01-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 81-02 : DIOPU Initial Data Setup** to define the various basic timers for the DIOPU cards.

Input Data

Item No.	Item	Input Data	Default
01	Companding 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 Min. Time	1-255 (10-2550mS)	10 (100mS)
05	Hook Flash Time	1-255 (8-20240mS)	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) 1-255 (8-20240mS)	31 (310mS)
12	Receive DP Make Min. Time	1-255 (2-510mS)	5 (10mS)
13	Receive DP Make Max. Time	1-255 (2-510mS)	50 (100mS)
14	Receive DP Break Min. Time	1-255 (2-510mS)	5 (10mS)
15	Receive DP Break Max. Time	1-255 (2-510mS)	50 (100mS)
16	Receive DP Inter-Digit Time	1-255 (32-8160mS)	6 (192mS)
17	Loop Off Guard Time	0-255 (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 (0pps)	1-255 (4-1020mS)	8 (32mS)
22	DP Make Time (20pps)	1-255 (4-1020mS)	4 (16mS)

Item No.	Item	Input Data	Default
23	DP Inter-Digit Time (20pps)	1-255 (16-4080mS)	29 (464mS)

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

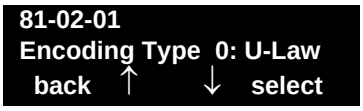
Feature Cross Reference

- Central Office Calls, Placing

Terminal Programming Instructions

To enter data for Program 81-02 (DIOPU Initial Data Setup):

1. Enter the programming mode.
2. 81 02



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 81-03 : 4TLIU Initial Data Setup** to define the various basic timers for the E&M tie line blade.

Input Data

Item No.	Item	Input Data	Default
01	Companding 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 Min. 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 (10-2550mS)	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 Min. Time	1-255 (2-510mS)	5 (10mS)
14	Receive DP Make Max. Time	1-255 (2-510mS)	50 (100mS)
15	Receive DP Break Min. Time	1-255 (2-510mS)	5 (10mS)
16	Receive DP Break Max. 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 (2-510mS)	32 (64mS)
20	DP Make Time (10pps)	1-255 (2-510mS)	16 (32mS)
21	DP Inter-Digit Time (10pps)	1-255 (32-8160mS)	19 (608mS)
22	DP Break Time (0pps)	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

- Tie Lines

Terminal Programming Instructions

To enter data for Program 81-03 (4TLIU Initial Data Setup):

1. Enter the programming mode.
2. 81 03

   81-03-01
   Encoding Type 0: U-Law
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   81-03-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-04 : ISDN BRI Layer 1 (T-Point) Initial Data Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 81-04 : ISDN BRI Layer 1 (T-Point) Initial Data Setup** to define the various basic options 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 (20 sec.)
02	Detection Time for Physical Deactivation	1-255 (200-5100ms)	5 (1 sec.)

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 81-04 (ISDN BRI Layer 1 (T-Point) Initial Data Setup):

1. Enter the programming mode.
2. 81 04

   81-04-01
   L1 Connection 100
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   81-04-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-05 : ISDN BRI & PRI Layer 2 (T-Point) Initial Data Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 81-05 : ISDN BRI & PRI Layer 2 (T-Point) Initial Data Setup** to define the various basic options for layer 2 of ISDN BRI/PRI.

Input Data

Item No.	Item	Input Data	Default
01	Timer T200	1-255 (100-25500ms)	10 (1sec.)
02	Timer T201	1-255 (100-25500ms)	10 (1sec.)
03	Timer T202	1-255 (100-25500ms)	20 (2sec.)
04	Timer T203	1-255 (100-25500ms)	250 (26sec.)
05	N200	1-255	3
06	N201	1-65535 (Byte)	260
07	N202	1-255	3

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 81-05 (ISDN BRI & PRI Layer 2 (T-Point) Initial Data Setup):

1. Enter the programming mode.
2. 81 05

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-06 : ISDN BRI & PRI Layer 3 (T-Point) Timer Setup

Level:
IN

Feature Availability
• Available.

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	Input Data	Default
01	T301	0,180-254(sec)	180(sec)
02	T302	1-254(sec)	15(sec)
03	T303	1-254(sec)	4(sec)
04	T304	0-254(sec)	30(sec)
05	T305	1-254(sec)	30(sec)
06	T306	0-254(sec)	30(sec)
07	T307	1-254(sec)	180(sec)
08	T308	1-254(sec)	4(sec)
09	T309	1-254(sec)	90(sec)
10	T310	0-180(sec)	180(sec)
11	T312	1-254(sec)	6(sec)
12	T313	1-254(sec)	4(sec)
13	T314	1-254(sec)	4(sec)
14	T316	(T317+1)-254(sec)	120(sec)
15	T317	1-(T316-1)	60(sec)
16	T318	1-254(sec)	4(sec)
17	T319	1-254(sec)	4(sec)
18	T320	1-254(sec)	30(sec)
19	T321	1-254(sec)	30(sec)
20	T322	1-254(sec)	4(sec)

Conditions

None

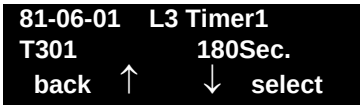
Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 81-06 (ISDN BRI & PRI Layer 3 (T-Point) Timer Setup):

1. Enter the programming mode.
2. 81 06

3. Enter the number of the item you want to program.

4. Enter the Layer 3 Timer number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-07 : Codec Filter Setup for Analog Trunk Ports

Level:
IN

Feature Availability
• Available.
• Application of filter modified with option 4 with software 2.0+.

Description

Use **Program 81-07 : Codec Filter Setup for Analog Trunk Ports** to define the codec (QSLAC) filter for each analog trunk port.

Prior to software 2.0, the CODECs were set for analog trunks only using Program 81-07 and 81-09. However, with software 2.0+, if **Program 81-07-01 : Codec Filter Setup for Analog Trunk Ports** is set to "4", the UX5000 will follow Program 81-09 [analog], 81-14 [DID], 81-15 [2-wire tie line], or 81-16 [4-wire tie line], depending on the type of trunk (analog, DID, or tie line). In addition, the software provides additional Codec filter types (types 5-15) using Program 81-17. These are in addition to the fixed pattern types in Program 81-07.

Input Data

Trunk Port Number	001-200

Item No.	Item	Codec Filter Type	Default
01	Codec Filter Setup for Analog Trunk Ports	0 = No filter 1 = Type 1 high/loud from telco 600¾ line loss 0dB (~500m frm CO EX) 2 = Type 2 normal analog network 600¾ line loss 4dB (1-2Km from CO EX) 3 = Type 3 low from telco 600¾ line loss 8dB (3Km~ from CO EX) 4 = Type 4 (Program 81-09, 81-14, 81-15, or 81-16 is followed, depending on the type of line) With software 2.0+, entries in Program 81-17 can also be used.	1

Conditions

None

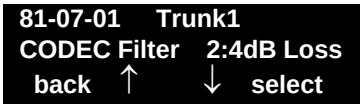
Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 81-07 (Codec FilterSetup for Analog Trunk Ports):

1. Enter the programming mode.
2. 81 07

3. Enter the number of the item you want to program.

4. Enter the trunk port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-08 : T1 Trunk Timer Setup

Level:
IN

Feature Availability
• Available.

Description

Use **Program 81-08 : T1 Trunk Timer Setup** to define the various basic timers for each T1 trunk type.

Input Data

Layer 3 Timer Type Number	1-5

Item No.	Item	Input Data	Default
01	Loop - Answer Signal Detection Time	1-250 (4msec - 1000msec)	15 (60msec)
02	Ground - Answer Signal Detection Time	1-250 (4msec - 1000msec)	15 (60msec)
03	DID - Answer Signal Detection Time	1-250 (4msec - 1000msec)	15 (60msec)
04	E&M - Answer Signal Detection Time	1-250 (4msec - 1000msec)	15 (60msec)
05	OPX - Answer Signal Detection Time	1-250 (4msec - 1000msec)	15 (60msec)
06	Loop - Clear Signal Detection Time	1-255 (100msec - 25500msec)	6 (600msec)
07	Ground - Clear Signal Detection Time	1-255 (100msec - 25500msec)	6 (600msec)
08	DID - Clear Signal Detection Time	1-255 (100msec - 25500msec)	6 (600msec)
09	E&M - Clear Signal Detection Time	1-255 (100msec - 25500msec)	6 (600msec)
10	OPX - Clear Signal Detection Time	1-255 (100msec - 25500msec)	6 (600msec)
11	Loop - Ringing Signal Detection Time	1-250 (8msec - 2000msec)	10 (80msec)
12	Ground - Ringing Signal Detection Time	1-250 (8msec - 2000msec)	10 (80msec)
13	DID - Ringing Signal Detection Time	1-250 (8msec - 2000msec)	10 (80msec)
14	E&M - Ringing Signal Detection Time	1-250 (8msec - 2000msec)	10 (80msec)
15	OPX - Ringing Signal Detection Time	1-250 (8msec - 2000msec)	10 (80msec)
16	Loop - Ringing Signal Stop Detection Time	1-255 (100msec - 25500msec)	50 (5000msec)
17	Ground - Ringing Signal Stop Detection Time	1-255 (100msec - 25500msec)	50 (5000msec)
18	DID - Ringing Signal Stop Detection Time	1-255 (100msec - 25500msec)	50 (5000msec)
19	E&M - Ringing Signal Stop Detection Time	1-255 (100msec - 25500msec)	50 (5000msec)
20	OPX - Ringing Signal Stop Detection Time	1-255 (100msec - 25500msec)	50 (5000msec)
21	Loop - Loop Current Detection Time	1-250 (4msec - 1000msec)	40 (160msec)
22	Ground - Loop Current Detection Time	1-250 (4msec - 1000msec)	40 (160msec)
23	DID - Loop Current Detection Time	1-250 (4msec - 1000msec)	40 (160msec)

Item No.	Item	Input Data	Default
24	E&M - Loop Current Detection Time	1-250 (4msec - 1000msec)	40 (160msec)
25	OPX - Loop Current Detection Time	1-250 (4msec - 1000msec)	40 (160msec)
26	All - DP Break Send Time	1-250 (4msec - 1000msec)	15 (60msec)
27	All - DP Make Send Time	1-250 (4msec - 1000msec)	10 (40msec)
28	All - DP Inter-digit Send Time	1-255 (100msec - 25500msec)	7 (700msec)
29	Loop - Hookflash Send Time	1-255 (100msec - 25500msec)	5 (500msec)
30	Ground - Hookflash Send Time	1-255 (100msec - 25500msec)	5 (500msec)
31	DID - Hookflash Send Time	1-255 (100msec - 25500msec)	5 (500msec)
32	E&M - Hookflash Send Time	1-255 (100msec - 25500msec)	5 (500msec)
33	OPX - Hookflash Send Time	1-255 (100msec - 25500msec)	5 (500msec)
34	All - Pause Send Time	1-255 (1sec - 255sec)	3 (3sec)
35	DID - Wink Send Duration Time	1-250 (8msec - 2000msec)	25 (200msec)
36	DID - Delay Send Duration Time	1-250 (8msec - 2000msec)	25 (200msec)
37	DID - Incoming Wink Send Duration Time	1-255 (100msec - 25500msec)	3 (300msec)
38	E&M - Wink Send Duration Time	1-250 (8msec - 2000msec)	25 (200msec)
39	E&M - Delay Send Duration Time	1-250 (8msec - 2000msec)	25 (200msec)
40	DID - Incoming Wink Send Duration Time	1-255 (100msec - 25500msec)	3 (300msec)
41	DID - Time Out Seizure-Wink/Delay Receive Maximum Time	1-255 (100msec - 25500msec)	48 (4800msec)
42	DID - Wink Signal, Receive Wink Duration Minimum Time	1-255 (100msec - 25500msec)	12 (96msec)
43	DID - Wink Signal, Receive Wink Duration Maximum Time	1-250 (8msec - 2000msec)	45 (360msec)
44	E&M - Time Out Seizure-Wink/Delay Receive Maximum Time	1-255 (100msec - 25500msec)	48 (4800msec)
45	E&M - Wink Signal, Receive Wink Duration Minimum Time	1-250 (8msec - 2000msec)	12 (96msec)
46	DID - Wink Signal, Receive Wink Duration Maximum Time	1-250 (8msec - 2000msec)	45 (360msec)
47	All - Receive DP Make Minimum Time	1-250 (4msec - 1000msec)	3 (12msec)
48	All - Receive DP Make Maximum Time	1-250 (4msec - 1000msec)	19 (76msec)
49	All - Receive DP Break Minimum Time	1-250 (4msec - 1000msec)	3 (12msec)
50	All - Receive DP Break Maximum Time	1-250 (4msec - 1000msec)	25 (100msec)
51	All - Receive DP Inter-digit Minimum Time	1-250 (4msec - 1000msec)	125 (500msec)
52	E&M - Receive Hookflash Duration Minimum Time	1-255 (100msec - 25500msec)	3 (300msec)
53	E&M - Receive Hookflash Duration Maximum Time	1-255 (100msec - 25500msec)	6 (600msec)

Program 81 : Basic Hardware Setup for Trunk
81-08 : T1 Trunk Timer Setup

Item No.	Item	Input Data	Default
54	OPX - Receive Hookflash Duration Minimum Time	1-255 (100msec - 25500msec)	3 (300msec)
55	OPX - Receive Hookflash Duration Maximum Time	1-255 (100msec - 25500msec)	6 (600msec)
56	Loop - Loop Off Guard Time	1-255 (100msec - 25500msec)	20 (2000msec)
57	Ground - Loop Off Guard Time	1-255 (100msec - 25500msec)	20 (2000msec)
58	DID - Loop Off Guard Time	1-255 (100msec - 25500msec)	20 (2000msec)
59	E&M - Loop Off Guard Time	1-255 (100msec - 25500msec)	20 (2000msec)
60	OPX - Loop Off Guard Time	1-255 (100msec - 25500msec)	20 (2000msec)
61	OPX - Double Ringing Send Time 1	1-255 (100msec - 25500msec)	5 (500msec)
62	OPX - Double Between Ringing Send Time 1	1-255 (100msec - 25500msec)	5 (500msec)
63	OPX - Double Ringing Send Time 2	1-255 (100msec - 25500msec)	25 (2500msec)
64	OPX - Double Between Ringing Send Time 2	1-255 (100msec - 25500msec)	30 (3000msec)
65	OPX - Single Ringing Send Time 1	1-255 (100msec - 25500msec)	10 (1000msec)
66	OPX - Single Between Ringing Send Time 1	1-255 (100msec - 25500msec)	9 (900msec)
67	Loop - Guard Time 1	1-255 (100msec - 25500msec)	9 (900msec)
68	Ground - Guard Time 1	1-255 (100msec - 25500msec)	9 (900msec)
69	DID - Guard Time 1	1-255 (100msec - 25500msec)	9 (900msec)
70	E&M - Guard Time 1	1-255 (100msec - 25500msec)	9 (900msec)
71	OPX - Guard Time 1	1-255 (100msec - 25500msec)	9 (900msec)
72	All - Guard Time 2	1-250 (4msec - 1000msec)	3 (12msec)
73	All - Dial Sending Complete time	1-255 (100msec - 25500msec)	20 (2000msec)
74	All - On-Hook Bit Send Time	1-255 (100msec - 25500msec)	40 (4000msec)
75	Loop - Open Loop Time	1-255 (100msec - 25500msec)	6 (600msec)
76	Ground - Open Loop Time	1-255 (100msec - 25500msec)	6 (600msec)
77	DID - Open Loop Time	1-255 (100msec - 25500msec)	6 (600msec)
78	E&M - Open Loop Time	1-255 (100msec - 25500msec)	6 (600msec)
79	OPX - Open Loop Time	1-255 (100msec - 25500msec)	6 (600msec)
80	Loop - Close Loop Time	1-250 (4msec - 1000msec)	13 (52msec)
81	DID - Close Loop Time	1-250 (4msec - 1000msec)	13 (52msec)
82	Ground Loop - Close Loop Time	1-250 (4msec - 1000msec)	13 (52msec)

Conditions

None

Feature Cross Reference

- T1 Trunking

Terminal Programming Instructions

To enter data for Program 81-08 (T1 Trunk Timer Setup):

1. Enter the programming mode.
2. 81 08

   ```
   81-08-01
   Ans Sig Detect LOOP   15
   back  ↑     ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   81-08-nn
   nnnnn
     ←          →
   ```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-09 : COIU Codec Filter Data Setup for Analog Trunks

Level:
IN

Feature Availability
• Available. Defaults for items 1-16 modified with software 2.0+.
• Items 17-62 require software 2.0+.

Description

The UX5000 will use the settings in **Program 81-09 : COIU Codec Filter Data Setup for Analog Trunks** when **Program 81-07-01 : Codec Filter Setup for Analog Trunk Ports** is set to "4 - Specified Data".

These values should not be changed from their default settings unless directed by NEC'S Technical Service department.

The side tone of the COIU is adjusted using all 62 values, however, special software is required in order to compute these values. The setting is not proportional to the gain level. Do not change from the default unless required!

Changes to CODECs should only be done when instructed to do so by NEC's Technical Support to prevent causing problems with the UX5000.

Input Data

Item	Description	Range	Default
01	B1 Filter (01)	0-255	42
02	B1 Filter (02)	0-255	90
03	B1 Filter (03)	0-255	162
04	B1 Filter (04)	0-255	42
05	B1 Filter (05)	0-255	18
06	B1 Filter (06)	0-255	178
07	B1 Filter (07)	0-255	220
08	B1 Filter (08)	0-255	55
09	B1 Filter (09)	0-255	163
10	B1 Filter (10)	0-255	42
11	B1 Filter (11)	0-255	51
12	B1 Filter (12)	0-255	36
13	B1 Filter (13)	0-255	210
14	B1 Filter (14)	0-255	64
15	B2 Filter (01)	0-255	52
16	B2 Filter (02)	0-255	176
17	AISN & Analog Gain	0-255	0
18	Z Filter Coefficients 1	0-255	34
19	Z Filter Coefficients 2	0-255	172
20	Z Filter Coefficients 3	0-255	178

Item	Description	Range	Default
21	Z Filter Coefficients 4	0-255	164
22	Z Filter Coefficients 5	0-255	202
23	Z Filter Coefficients 6	0-255	181
24	Z Filter Coefficients 7	0-255	170
25	Z Filter Coefficients 8	0-255	78
26	Z Filter Coefficients 9	0-255	51
27	Z Filter Coefficients 10	0-255	78
28	Z Filter Coefficients 11	0-255	171
29	Z Filter Coefficients 12	0-255	162
30	Z Filter Coefficients 13	0-255	182
31	Z Filter Coefficients 14	0-255	159
32	Z Filter Coefficients 15	0-255	1
33	R Filter Coefficients 1	0-255	179
34	R Filter Coefficients 2	0-255	208
35	R Filter Coefficients 3	0-255	227
36	R Filter Coefficients 4	0-255	32
37	R Filter Coefficients 5	0-255	171
38	R Filter Coefficients 6	0-255	169
39	R Filter Coefficients 7	0-255	60
40	R Filter Coefficients 8	0-255	37
41	R Filter Coefficients 9	0-255	179
42	R Filter Coefficients 10	0-255	162
43	R Filter Coefficients 11	0-255	179
44	R Filter Coefficients 12	0-255	43
45	R Filter Coefficients 13	0-255	167
46	R Filter Coefficients 14	0-255	180
47	X Filter Coefficients 1	0-255	202
48	X Filter Coefficients 2	0-255	48
49	X Filter Coefficients 3	0-255	170
50	X Filter Coefficients 4	0-255	171
51	X Filter Coefficients 5	0-255	42
52	X Filter Coefficients 6	0-255	45
53	X Filter Coefficients 7	0-255	170
54	X Filter Coefficients 8	0-255	164
55	X Filter Coefficients 9	0-255	74
56	X Filter Coefficients 10	0-255	159
57	X Filter Coefficients 11	0-255	61
58	X Filter Coefficients 12	0-255	79

Item	Description	Range	Default
59	GR Filter Coefficients 1	0-255	171
60	GR Filter Coefficients 2	0-255	65
61	GX Filter Coefficients 1	0-255	194
62	GX Filter Coefficients 2	0-255	224

Conditions

None

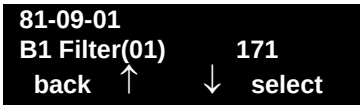
Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 81-09 (COIU Codec Filter Data Setup for Analog Trunks):

1. Enter the programming mode.
2. 81 09



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available. Requires software 2.0+.

Description

The UX5000 will use the settings in **Program 81-14 : COIU Codec Filter Data Setup for DID Trunks** when **Program 81-07-01 : Codec Filter Setup for Analog Trunk Ports** is set to "4 - Specified Data".

These values should not be changed from their default settings unless directed by NEC'S Technical Service department.

The side tone of the COIU is adjusted using all 62 values, however, special software is required in order to compute these values. The setting is not proportional to the gain level. Do not change from the default unless required!

Changes to CODECs should only be done when instructed to do so by NEC's Technical Support to prevent causing problems with the UX5000.

Input Data

Item	Description	Range	Default
01	B1 Filter (01)	0-255	178
02	B1 Filter (02)	0-255	90
03	B1 Filter (03)	0-255	162
04	B1 Filter (04)	0-255	186
05	B1 Filter (05)	0-255	27
06	B1 Filter (06)	0-255	50
07	B1 Filter (07)	0-255	42
08	B1 Filter (08)	0-255	45
09	B1 Filter (09)	0-255	51
10	B1 Filter (10)	0-255	173
11	B1 Filter (11)	0-255	52
12	B1 Filter (12)	0-255	179
13	B1 Filter (13)	0-255	77
14	B1 Filter (14)	0-255	48
15	B2 Filter (01)	0-255	186
16	B2 Filter (02)	0-255	160
17	AISN & Analog Gain	0-255	64
18	Z Filter Coefficients 1	0-255	58
19	Z Filter Coefficients 2	0-255	174
20	Z Filter Coefficients 3	0-255	58
21	Z Filter Coefficients 4	0-255	135

Item	Description	Range	Default
22	Z Filter Coefficients 5	0-255	162
23	Z Filter Coefficients 6	0-255	55
24	Z Filter Coefficients 7	0-255	90
25	Z Filter Coefficients 8	0-255	151
26	Z Filter Coefficients 9	0-255	170
27	Z Filter Coefficients 10	0-255	207
28	Z Filter Coefficients 11	0-255	115
29	Z Filter Coefficients 12	0-255	207
30	Z Filter Coefficients 13	0-255	151
31	Z Filter Coefficients 14	0-255	159
32	Z Filter Coefficients 15	0-255	1
33	R Filter Coefficients 1	0-255	29
34	R Filter Coefficients 2	0-255	1
35	R Filter Coefficients 3	0-255	171
36	R Filter Coefficients 4	0-255	32
37	R Filter Coefficients 5	0-255	187
38	R Filter Coefficients 6	0-255	42
39	R Filter Coefficients 7	0-255	162
40	R Filter Coefficients 8	0-255	183
41	R Filter Coefficients 9	0-255	50
42	R Filter Coefficients 10	0-255	162
43	R Filter Coefficients 11	0-255	35
44	R Filter Coefficients 12	0-255	59
45	R Filter Coefficients 13	0-255	66
46	R Filter Coefficients 14	0-255	164
47	X Filter Coefficients 1	0-255	1
48	X Filter Coefficients 2	0-255	17
49	X Filter Coefficients 3	0-255	1
50	X Filter Coefficients 4	0-255	144
51	X Filter Coefficients 5	0-255	1
52	X Filter Coefficients 6	0-255	144
53	X Filter Coefficients 7	0-255	1
54	X Filter Coefficients 8	0-255	144
55	X Filter Coefficients 9	0-255	1
56	X Filter Coefficients 10	0-255	144
57	X Filter Coefficients 11	0-255	1
58	X Filter Coefficients 12	0-255	144
59	GR Filter Coefficients 1	0-255	1

Item	Description	Range	Default
60	GR Filter Coefficients 2	0-255	17
61	GX Filter Coefficients 1	0-255	1
62	GX Filter Coefficients 2	0-255	144

Conditions

None

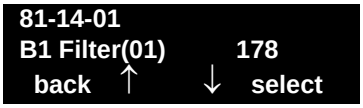
Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 81-14 (COIU Codec Filter Data Setup for DID Trunks):

1. Enter the programming mode.
2. 81 14



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-15 : TLIU (4-Wire) Codec Filter Data Setup

Level:
IN

Feature Availability
• Available. Requires software 2.0+.

Description

The UX5000 will use the settings in **Program 81-15 : TLIU (4-Wire) Codec Filter Data Setup** when **Program 81-07-01 : Codec Filter Setup for Analog Trunk Ports** is set to "4 - Specified Data".

These values should not be changed from their default settings unless directed by NEC'S Technical Service department.

The side tone of the TLIU is adjusted using all 62 values, however, special software is required in order to compute these values. The setting is not proportional to the gain level. Do not change from the default unless required!

Changes to CODECs should only be done when instructed to do so by NEC's Technical Support to prevent causing problems with the UX5000.

Input Data

Item	Description	Range	Default
01	B1 Filter (01)	0-255	195
02	B1 Filter (02)	0-255	87
03	B1 Filter (03)	0-255	162
04	B1 Filter (04)	0-255	51
05	B1 Filter (05)	0-255	34
06	B1 Filter (06)	0-255	162
07	B1 Filter (07)	0-255	171
08	B1 Filter (08)	0-255	50
09	B1 Filter (09)	0-255	179
10	B1 Filter (10)	0-255	90
11	B1 Filter (11)	0-255	90
12	B1 Filter (12)	0-255	163
13	B1 Filter (13)	0-255	42
14	B1 Filter (14)	0-255	48
15	B2 Filter (01)	0-255	36
16	B2 Filter (02)	0-255	176
17	AISN & Analog Gain	0-255	64
18	Z Filter Coefficients 1	0-255	165
19	Z Filter Coefficients 2	0-255	173
20	Z Filter Coefficients 3	0-255	43
21	Z Filter Coefficients 4	0-255	213

Item	Description	Range	Default
22	Z Filter Coefficients 5	0-255	170
23	Z Filter Coefficients 6	0-255	54
24	Z Filter Coefficients 7	0-255	34
25	Z Filter Coefficients 8	0-255	190
26	Z Filter Coefficients 9	0-255	166
27	Z Filter Coefficients 10	0-255	47
28	Z Filter Coefficients 11	0-255	50
29	Z Filter Coefficients 12	0-255	181
30	Z Filter Coefficients 13	0-255	163
31	Z Filter Coefficients 14	0-255	159
32	Z Filter Coefficients 15	0-255	1
33	R Filter Coefficients 1	0-255	50
34	R Filter Coefficients 2	0-255	208
35	R Filter Coefficients 3	0-255	159
36	R Filter Coefficients 4	0-255	32
37	R Filter Coefficients 5	0-255	178
38	R Filter Coefficients 6	0-255	169
39	R Filter Coefficients 7	0-255	43
40	R Filter Coefficients 8	0-255	164
41	R Filter Coefficients 9	0-255	171
42	R Filter Coefficients 10	0-255	35
43	R Filter Coefficients 11	0-255	76
44	R Filter Coefficients 12	0-255	59
45	R Filter Coefficients 13	0-255	42
46	R Filter Coefficients 14	0-255	180
47	X Filter Coefficients 1	0-255	1
48	X Filter Coefficients 2	0-255	17
49	X Filter Coefficients 3	0-255	1
50	X Filter Coefficients 4	0-255	144
51	X Filter Coefficients 5	0-255	1
52	X Filter Coefficients 6	0-255	144
53	X Filter Coefficients 7	0-255	1
54	X Filter Coefficients 8	0-255	144
55	X Filter Coefficients 9	0-255	1
56	X Filter Coefficients 10	0-255	144
57	X Filter Coefficients 11	0-255	1
58	X Filter Coefficients 12	0-255	144
59	GR Filter Coefficients 1	0-255	1

Item	Description	Range	Default
60	GR Filter Coefficients 2	0-255	17
61	GX Filter Coefficients 1	0-255	1
62	GX Filter Coefficients 2	0-255	144

Conditions

None

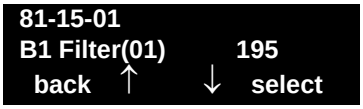
Feature Cross Reference

- Central Office Calls, Answering
- Central Office Calls, Placing
- Tie Lines

Terminal Programming Instructions

To enter data for Program 81-15 (TLIU (4-Wire) Codec Filter Data Setup):

1. Enter the programming mode.
2. 81 15



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available. Requires software 2.0+.

Description

The UX5000 will use the settings in **Program 81-16 : TLIU (2-Wire) Codec Filter Data Setup** when **Program 81-07-01 : Codec Filter Setup for Analog Trunk Ports** is set to "4 - Specified Data".

These values should not be changed from their default settings unless directed by NEC'S Technical Service department.

The side tone of the COIU is adjusted using all 62 values, however, special software is required in order to compute these values. The setting is not proportional to the gain level. Do not change from the default unless required!

Changes to CODECs should only be done when instructed to do so by NEC's Technical Support to prevent causing problems with the UX5000.

Input Data

Item	Description	Range	Default
01	B1 Filter (01)	0-255	9
02	B1 Filter (02)	0-255	0
03	B1 Filter (03)	0-255	144
04	B1 Filter (04)	0-255	9
05	B1 Filter (05)	0-255	0
06	B1 Filter (06)	0-255	144
07	B1 Filter (07)	0-255	9
08	B1 Filter (08)	0-255	0
09	B1 Filter (09)	0-255	144
10	B1 Filter (10)	0-255	9
11	B1 Filter (11)	0-255	0
12	B1 Filter (12)	0-255	144
13	B1 Filter (13)	0-255	9
14	B1 Filter (14)	0-255	0
15	B2 Filter (01)	0-255	1
16	B2 Filter (02)	0-255	144
17	AISN & Analog Gain	0-255	0
18	Z Filter Coefficients 1	0-255	1
19	Z Filter Coefficients 2	0-255	144
20	Z Filter Coefficients 3	0-255	1
21	Z Filter Coefficients 4	0-255	144

Item	Description	Range	Default
22	Z Filter Coefficients 5	0-255	1
23	Z Filter Coefficients 6	0-255	144
24	Z Filter Coefficients 7	0-255	1
25	Z Filter Coefficients 8	0-255	144
26	Z Filter Coefficients 9	0-255	1
27	Z Filter Coefficients 10	0-255	144
28	Z Filter Coefficients 11	0-255	1
29	Z Filter Coefficients 12	0-255	144
30	Z Filter Coefficients 13	0-255	1
31	Z Filter Coefficients 14	0-255	1
32	Z Filter Coefficients 15	0-255	144
33	R Filter Coefficients 1	0-255	46
34	R Filter Coefficients 2	0-255	1
35	R Filter Coefficients 3	0-255	1
36	R Filter Coefficients 4	0-255	17
37	R Filter Coefficients 5	0-255	1
38	R Filter Coefficients 6	0-255	144
39	R Filter Coefficients 7	0-255	1
40	R Filter Coefficients 8	0-255	144
41	R Filter Coefficients 9	0-255	1
42	R Filter Coefficients 10	0-255	144
43	R Filter Coefficients 11	0-255	1
44	R Filter Coefficients 12	0-255	144
45	R Filter Coefficients 13	0-255	1
46	R Filter Coefficients 14	0-255	144
47	X Filter Coefficients 1	0-255	1
48	X Filter Coefficients 2	0-255	17
49	X Filter Coefficients 3	0-255	1
50	X Filter Coefficients 4	0-255	144
51	X Filter Coefficients 5	0-255	1
52	X Filter Coefficients 6	0-255	144
53	X Filter Coefficients 7	0-255	1
54	X Filter Coefficients 8	0-255	144
55	X Filter Coefficients 9	0-255	1
56	X Filter Coefficients 10	0-255	144
57	X Filter Coefficients 11	0-255	1
58	X Filter Coefficients 12	0-255	144
59	GR Filter Coefficients 1	0-255	1

Item	Description	Range	Default
60	GR Filter Coefficients 2	0-255	17
61	GX Filter Coefficients 1	0-255	1
62	GX Filter Coefficients 2	0-255	144

Conditions

None

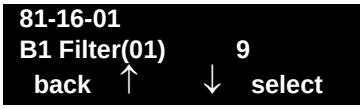
Feature Cross Reference

- Central Office Calls, Answering
- Central Office Calls, Placing
- Tie Lines

Terminal Programming Instructions

To enter data for Program 81-16 (TLIU (2-Wire) Codec Filter Data Setup):

1. Enter the programming mode.
2. 81 16



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 81 : Basic Hardware Setup for Trunk
81-17 : Trunk Codec Filter Setup

Level:
IN

Feature Availability
• Available. Requires software 2.0+.
• Codec filter types 9 and 10 require software 2.63+.

Description

Use **Program 81-17 : Trunk Codec Filter Setup** to define the codec (QSLAC) filter for each analog, DID, or tie line trunk port.

Prior to software 2.0, the CODECs were set for analog trunks only using Program 81-07 and 81-09. However, with software 2.0+, if **Program 81-07-01 : Codec Filter Setup for Analog Trunk Ports** is set to "4", the UX5000 will follow Program 81-09 [analog], 81-14 [DID], 81-15 [2-wire tie line], or 81-16 [4-wire tie line], depending on the type of trunk (analog, DID, or tie line). In addition, the software provides additional Codec filter types (types 5-15) using Program 81-17. These are in addition to the fixed pattern types in Program 81-07.

Input Data

Trunk Port Number	001-200

Item No.	Line Type	Codec Filter Type	Default
01	COIU	0 = Not Set 1 = Type 5: Line Loss 2dB and (600ohm or Complex) 2 = Type 6: 200¾+ (100nF//680¾) **(not used in the U.S.)** 3 = Type 7: 160¾+ (150nF//1100¾) **(not used in the U.S.)** 4 = Type 8: 900¾ 5 = Type 9: Line Loss 10dB and (600ohm or Complex) 6 = Type 10: TIA-464-C and (600ohm or Complex) 7-10 = Types 11-14: Reserved (not currently used) 11 = Type 15: For Test	0 (Not Set)
02	DIOPU (DID)		0 (Not Set)
03	TLIU (2-Wire)		0 (Not Set)
04	TLIU (4-Wire)		0 (Not Set)

Conditions

None

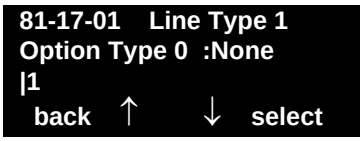
Feature Cross Reference

- Central Office Calls, Answering
- Central Office Calls, Placing
- Direct Inward Dial (DID)
- Tie Lines

Terminal Programming Instructions

To enter data for Program 81-17 (Trunk Codec Filter Data Setup):

1. Enter the programming mode.
2. 81 17



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 82 : Basic Hardware Setup for Extension
82-01 : Incoming Ring Tone

Level:	Feature Availability
IN	• Available.

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/virtual extensions in Program 15-02 [this affects Program 15-08 tones].) Within each *Range* there are three frequency *Types:* High, Middle and Low. (Service Code 820 allows users to choose the *Type* for their incoming calls.) Each *Type* in turn consists of two frequencies and the modulation "played" simultaneously to make up the tone. These frequencies are determined by their Frequency Number selected in Items 1 and 2 (see below). In this program, you assign the two *Frequency Numbers* and *Modulation* for each *Type*, for each of the four *Ranges*. The chart below shows the default *Frequency Numbers* for each *Type* in each *Range*.

Input Data

Incoming Ringing Tone Number	1 = Pattern 1 (Trunk Incoming) 2 = Pattern 2 (Trunk Incoming) 3 = Pattern 3 (Trunk Incoming) 4 = Pattern 4 (Trunk Incoming) 5 = Intercom Incoming Pattern 6 = Sensor Tone Pattern

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

Item No.	Item	Input Data
01	Frequency 1	1 = 520Hz 2 = 540Hz 3 = 660Hz 4 = 760Hz 5 = 1100Hz 6 = 1400Hz 7 = 2000Hz
02	Frequency 2	
03	Modulation	0 = No modulation 1 = 8Hz modulation 2 = 16Hz modulation 3 = envelope

Default

Incoming Ringing Tone Number	Tone Type	Frequency 1	Frequency 2	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
Intercom Incoming Pattern	High Mid Low	1100 660 520	1400 760 660	8Hz Modulation 8Hz Modulation 8Hz Modulation
Alarm Sensor Pattern	High Mid Low	760 760 760	760 760 760	No Change No Change No Change

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

- Distinctive Ringing Tones and Flash Patterns
- Selectable Ring Tones

Program 82 : Basic Hardware Setup for Extension
82-01 : Incoming Ring Tone

Terminal Programming Instructions

To enter data for Program 82-01 (Incoming Ring Tone):

1. Enter the programming mode.
2. 82 01

3. Enter the number of the item you want to program.

4. Enter the Frequency number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

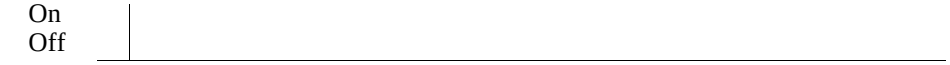
Description

Use **Program 82-03 : DSS Console LED Pattern Setup** to define the LED patterns for special functions on a DSS console.

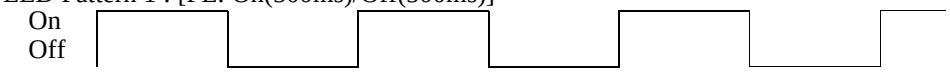
Input Data

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

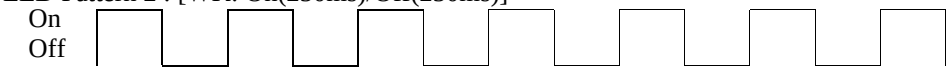
LED Pattern 0 : [OFF]



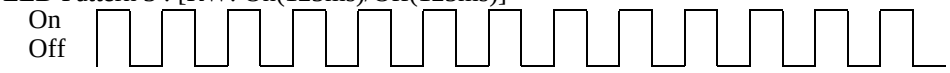
LED Pattern 1 : [FL: On(500ms)/Off(500ms)]



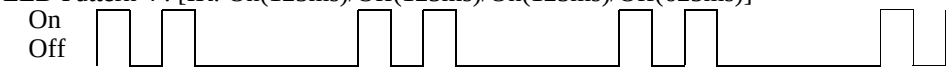
LED Pattern 2 : [WK: On(250ms)/Off(250ms)]



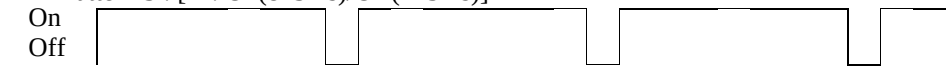
LED Pattern 3 : [RW: On(125ms)/Off(125ms)]



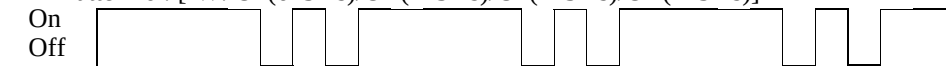
LED Pattern 4 : [IR: On(125ms)/Off(125ms)/On(125ms)/Off(625ms)]



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



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



LED Pattern 7 : [ON]

Program 82 : Basic Hardware Setup for Extension
82-03 : DSS Console LED Pattern Setup

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

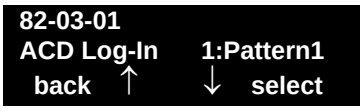
Feature Cross Reference

- Direct Station Selection (DSS)

Terminal Programming Instructions

To enter data for Program 82-03 (DSS Console LED Pattern Setup):

1. Enter the programming mode.
2. 82 03



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 82-04 : SLIU Initial Data Setup** to define the various basic timers for the ASTU blade.

Input Data

Item No.	Item	Input Data	Default
01	Companding Method type	0 = u-law 1 = A-law	0 (u-law)
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

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

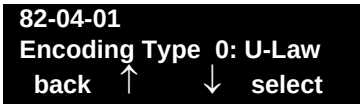
None

Program 82 : Basic Hardware Setup for Extension
82-04 : SLIU Initial Data Setup

Terminal Programming Instructions

To enter data for Program 82-04 (SLIU Initial Data Setup):

1. Enter the programming mode.
2. 82 04

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 82 : Basic Hardware Setup for Extension
82-05 : ISDN BRI & PRI Layer 2 (S-Point) Initial Data Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 82-05 : ISDN BRI & PRI Layer 2 (S-Point) Initial Data Setup** to define the various basic options for the layer 2 of ISDN BRI/PRI S-Point.

Input Data

Item No.	Item	Input Data	Default
01	Timer T200	1-255 (100-25500ms)	10 (1 sec.)
02	Timer T201	1-255 (100-25500ms)	10 (1 sec.)
03	Timer T202	1-255 (100-25500ms)	20 (2 sec.)
04	Timer T203	1-255 (100-25500ms)	30 (3 sec.)
05	N200	1-255	3
06	N201	1-65535 (Byte)	260
07	N202	1-255	3

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

- ISDN Compatibility

Program 82 : Basic Hardware Setup for Extension
82-05 : ISDN BRI & PRI Layer 2 (S-Point) Initial Data Setup

Terminal Programming Instructions

To enter data for Program 82-05 (ISDN BRI & PRI Layer 2 (S-Point) Initial Data Setup):

1. Enter the programming mode.
2. 82 05

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 82 : Basic Hardware Setup for Extension
82-06 : ISDN BRI & PRI Layer 3 (S-Point) Timer Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 82-06 : ISDN BRI & PRI Layer 3 (S-Point) Timer Setup** to define the various basic timers for layer 3 of ISDN BRI/PRI S-Point (defined in Program 10-03-04).

Input Data

Layer 3 Timer Type Number	1-5

Item No.	Item	Input Data	Default
01	T301	0,180-254 (sec)	180 (sec)
02	T302	1-254 (sec)	10 (sec)
03	T303	1-254 (sec)	4 (sec)
04	T304	0-254 (sec)	20 (sec)
05	T305	1-254 (sec)	30 (sec)
06	T306	0-254 (sec)	30 (sec)
07	T307	1-254 (sec)	180 (sec)
08	T308	1-254 (sec)	4 (sec)
09	T309	1-254 (sec)	90 (sec)
10	T310	0-180 (sec)	30 (sec)
11	T312	1-254 (sec)	6 (sec)
12	T313	1-254 (sec)	4 (sec)
13	T314	1-254 (sec)	4 (sec)
14	T316	(T317+1)-254 (sec)	120 (sec)
15	T317	1-(T316-1)	60 (sec)
16	T318	1-254 (sec)	4 (sec)
17	T319	1-254 (sec)	4 (sec)
18	T320	1-254 (sec)	30 (sec)
19	T321	1-254 (sec)	30 (sec)
20	T322	1-254 (sec)	4 (sec)

Conditions

None

Program 82 : Basic Hardware Setup for Extension
82-06 : ISDN BRI & PRI Layer 3 (S-Point) Timer Setup

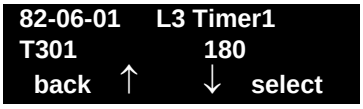
Feature Cross Reference

- ISDN Compatibility

Terminal Programming Instructions

To enter data for Program 82-06 (ISDN BRI & PRI Layer 3 (S-Point) Timer Setup):

1. Enter the programming mode.
2. 82 06



3. Enter the number of the item you want to program.

4. Enter the Layer 3 Timer number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 82 : Basic Hardware Setup for Extension
82-07 : Codec Filter Setup for Analog Station Ports

Level:
IN

Feature Availability
• Available.
• Application of filter modified with option 4 with software 2.0+.

Description

Use **Program 82-07 : Codec Filter Setup for Analog Station Ports** to define the codec (QSLAC) filter for each analog extension port.

Prior to software 2.0, the CODECs were set for analog stations only using Program 82-07 and 82-09. However, with software 2.0+, if **Program 82-07-01 : Codec Filter Setup for Analog Station Ports** is set to "4", the UX5000 will follow Program 82-09 [analog], 82-15 [OPX] or 82-16 [SLIU ports on 082U], depending on the type of station port (analog, OPX or analog on the 082U). In addition, the software provides additional Codec filter types (types 5-15) using Program 82-17. These are in addition to the fixed pattern types in Program 82-07.

Input Data

Extension Port Number	001-384

Item No.	Item	Codec Filter Type	Default
01	Codec Filter Setup for Analog Station Ports	0 = No filter 1 = Type 1 2 = Type 2 3 = Type 3 4 = Type 4 (Program 82-09, 82-15, or 82-16 is followed, depending on the type of station port) With software 2.0+, entries in Program 82-17 can also be used.	3

Conditions

None

Feature Cross Reference

None

Program 82 : Basic Hardware Setup for Extension

82-07 : Codec Filter Setup for Analog Station Ports

Terminal Programming Instructions

To enter data for Program 82-07 (Codec Filter Setup for Analog Station Ports):

1. Enter the programming mode.
2. 82 07

   82-07-01 Extn Port1
   CODEC Filter 1:00dB Loss
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   82-07-nn Extn Portnnn
   nnnnn
   ← – + →

4. Enter the extension port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Program 82-08 : Sidetone Volume Setup allows adjust of the keyset sidetone volume.

There are two levels, based on whether the connected trunk is a digital trunk or analog trunk.

Input Data

Item	Description	Input	Digital Sidetone Level	Analog Sidetone Level	Default
01	Sidetone Volume	0	-54 (dB)	-54 (dB)	6
		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	-18 (dB)	-30 (dB)	
		7	12 (dB)	-24 (dB)	
		8	-12 (dB)	-18 (dB)	
		9	-12 (dB)	-12 (dB)	

Conditions

- This program will not be displayed in PCPro/WebPro until signing in with the MF level password.

Feature Cross Reference

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

Program 82 : Basic Hardware Setup for Extension
82-08 : Sidetone Volume Setup

Terminal Programming Instructions

To enter data for Program 82-08 (Sidetone Volume Setup):

1. Enter the programming mode.
2. 82 08

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available. Defaults for items 1-16 modified with software 2.0+.
• Items 17-62 require software 2.0+.

Description

The UX5000 will use the settings in the new **Program 82-09 : SLIU Codec Filter Data Setup** when **Program 82-07-01 : Codec Filter Setup for Analog Station Ports** is set to "4 - Specified Data".

These values should not be changed from their default settings unless directed by NEC'S Technical Service department.

The side tone of the SLIU is adjusted using all 62 values, however, special software is required in order to compute these values. The setting is not proportional to the gain level. Do not change from the default unless required!

Changes to CODECs should only be done when instructed to do so by NEC's Technical Support to prevent causing problems with the UX5000.

Input Data

Item	Codec Filter Item	Description	Range	Default
01	01	B1 Filter (01)	0-255	58
02	02	B1 Filter (02)	0-255	242
03	03	B1 Filter (03)	0-255	191
04	04	B1 Filter (04)	0-255	44
05	05	B1 Filter (05)	0-255	90
06	06	B1 Filter (06)	0-255	165
07	07	B1 Filter (07)	0-255	168
08	08	B1 Filter (08)	0-255	123
09	09	B1 Filter (09)	0-255	159
10	10	B1 Filter (10)	0-255	185
11	11	B1 Filter (11)	0-255	246
12	12	B1 Filter (12)	0-255	159
13	13	B1 Filter (13)	0-255	201
14	14	B1 Filter (14)	0-255	240
15	15	B2 Filter (01)	0-255	221
16	16	B2 Filter (02)	0-255	1
17	17	AISN & Analog Gain	0-255	21
18	18	Z Filter Coefficients 1	0-255	163
19	19	Z Filter Coefficients 2	0-255	201

Item	Codec Filter Item	Description	Range	Default
20	20	Z Filter Coefficients 3	0-255	36
21	21	Z Filter Coefficients 4	0-255	163
22	22	Z Filter Coefficients 5	0-255	59
23	23	Z Filter Coefficients 6	0-255	194
24	24	Z Filter Coefficients 7	0-255	196
25	25	Z Filter Coefficients 8	0-255	195
26	26	Z Filter Coefficients 9	0-255	170
27	27	Z Filter Coefficients 10	0-255	43
28	28	Z Filter Coefficients 11	0-255	38
29	29	Z Filter Coefficients 12	0-255	193
30	30	Z Filter Coefficients 13	0-255	163
31	31	Z Filter Coefficients 14	0-255	188
32	32	Z Filter Coefficients 15	0-255	1
33	33	R Filter Coefficients 1	0-255	46
34	34	R Filter Coefficients 2	0-255	1
35	35	R Filter Coefficients 3	0-255	1
36	36	R Filter Coefficients 4	0-255	17
37	37	R Filter Coefficients 5	0-255	1
38	38	R Filter Coefficients 6	0-255	144
39	39	R Filter Coefficients 7	0-255	1
40	40	R Filter Coefficients 8	0-255	144
41	41	R Filter Coefficients 9	0-255	1
42	42	R Filter Coefficients 10	0-255	144
43	43	R Filter Coefficients 11	0-255	1
44	44	R Filter Coefficients 12	0-255	144
45	45	R Filter Coefficients 13	0-255	1
46	46	R Filter Coefficients 14	0-255	144
47	47	X Filter Coefficients 1	0-255	37
48	48	X Filter Coefficients 2	0-255	64
49	49	X Filter Coefficients 3	0-255	83
50	50	X Filter Coefficients 4	0-255	171
51	51	X Filter Coefficients 5	0-255	42
52	52	X Filter Coefficients 6	0-255	135
53	53	X Filter Coefficients 7	0-255	35
54	54	X Filter Coefficients 8	0-255	52
55	55	X Filter Coefficients 9	0-255	71
56	56	X Filter Coefficients 10	0-255	172
57	57	X Filter Coefficients 11	0-255	43

Item	Codec Filter Item	Description	Range	Default
58	58	X Filter Coefficients 12	0-255	197
59	59	GR Filter Coefficients 1	0-255	66
60	60	GR Filter Coefficients 2	0-255	97
61	61	GX Filter Coefficients 1	0-255	162
62	62	GX Filter Coefficients 2	0-255	176

Conditions

None

Feature Cross Reference

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

Terminal Programming Instructions

To enter data for Program 82-07 (SLIU Codec Filter Data Setup):

1. Enter the programming mode.
2. 82 07

   82-07-01 Extn Port1
   CODEC Filter 1:0db Loss
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   82-07-nn Extn Portx
   nnnnn
   ← – + →

4. Enter the extension port number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 82 : Basic Hardware Setup for Extension
82-14 : Handset/Headset Gain Setup for Multi-Line Terminals

Level:	Feature Availability
IN	• Available.

Description

Use **Program 82-14 : Handset/Headset Gain Setup for Multi-Line Terminals** to define the gains on multi-line terminals when either the handset or headset is used.

Input Data

Extension Number	301-5312

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Item No.	Description	Input Data	Default
01	**Handset/Headset Transmit Gain Level**	0 = 9 (+12.5dB) 1~32 (-3.5 ~ +58.5dB)	0
02	**Handset/Headset Receive Gain Level**	0 = 13 (0dB) 1~32 (-24 ~ +38.0dB)	0

Conditions

None

Feature Cross Reference

- Volume Control

Terminal Programming Instructions

To enter data for Program 82-14 (Handset/Headset Gain Setup for Multi-Line Terminals):

1. Enter the programming mode.
2. 82 14

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 82 : Basic Hardware Setup for Extension
82-15 : DIOPU (OPX) Initial Setup

Level:
IN

Feature Availability
• Available. Requires software 2.0+.

Description

The UX5000 will use the settings in **Program 82-15 : DIOPU (OPX) Initial Setup** when **Program 82-07-01 : Codec Filter Setup for Analog Station Ports** is set to "4 - Specified Data".

These values should not be changed from their default settings unless directed by NEC'S Technical Service department.

The side tone of the DIOPU/OPX is adjusted using all 62 values, however, special software is required in order to compute these values. The setting is not proportional to the gain level. Do not change from the default unless required!

Changes to CODECs should only be done when instructed to do so by NEC's Technical Support to prevent causing problems with the UX5000.

Input Data

Item	Description	Range	Default
01	B1 Filter (01)	0-255	202
02	B1 Filter (02)	0-255	125
03	B1 Filter (03)	0-255	164
04	B1 Filter (04)	0-255	34
05	B1 Filter (05)	0-255	71
06	B1 Filter (06)	0-255	69
07	B1 Filter (07)	0-255	169
08	B1 Filter (08)	0-255	123
09	B1 Filter (09)	0-255	135
10	B1 Filter (10)	0-255	248
11	B1 Filter (11)	0-255	254
12	B1 Filter (12)	0-255	143
13	B1 Filter (13)	0-255	168
14	B1 Filter (14)	0-255	240
15	B2 Filter (01)	0-255	46
16	B2 Filter (02)	0-255	1
17	AISN & Analog Gain	0-255	50
18	Z Filter Coefficients 1	0-255	170
19	Z Filter Coefficients 2	0-255	42
20	Z Filter Coefficients 3	0-255	106
21	Z Filter Coefficients 4	0-255	35
22	Z Filter Coefficients 5	0-255	69

Item	Description	Range	Default
23	Z Filter Coefficients 6	0-255	162
24	Z Filter Coefficients 7	0-255	210
25	Z Filter Coefficients 8	0-255	165
26	Z Filter Coefficients 9	0-255	202
27	Z Filter Coefficients 10	0-255	187
28	Z Filter Coefficients 11	0-255	52
29	Z Filter Coefficients 12	0-255	163
30	Z Filter Coefficients 13	0-255	177
31	Z Filter Coefficients 14	0-255	51
32	Z Filter Coefficients 15	0-255	208
33	R Filter Coefficients 1	0-255	46
34	R Filter Coefficients 2	0-255	1
35	R Filter Coefficients 3	0-255	1
36	R Filter Coefficients 4	0-255	17
37	R Filter Coefficients 5	0-255	1
38	R Filter Coefficients 6	0-255	144
39	R Filter Coefficients 7	0-255	1
40	R Filter Coefficients 8	0-255	144
41	R Filter Coefficients 9	0-255	1
42	R Filter Coefficients 10	0-255	144
43	R Filter Coefficients 11	0-255	1
44	R Filter Coefficients 12	0-255	144
45	R Filter Coefficients 13	0-255	1
46	R Filter Coefficients 14	0-255	144
47	X Filter Coefficients 1	0-255	1
48	X Filter Coefficients 2	0-255	17
49	X Filter Coefficients 3	0-255	1
50	X Filter Coefficients 4	0-255	144
51	X Filter Coefficients 5	0-255	1
52	X Filter Coefficients 6	0-255	144
53	X Filter Coefficients 7	0-255	1
54	X Filter Coefficients 8	0-255	144
55	X Filter Coefficients 9	0-255	1
56	X Filter Coefficients 10	0-255	144
57	X Filter Coefficients 11	0-255	1
58	X Filter Coefficients 12	0-255	144
59	GR Filter Coefficients 1	0-255	1
60	GR Filter Coefficients 2	0-255	17

Item	Description	Range	Default
61	GX Filter Coefficients 1	0-255	1
62	GX Filter Coefficients 2	0-255	144

Conditions

None

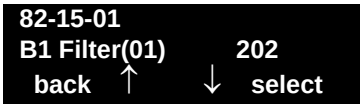
Feature Cross Reference

- Single Line Terminals, Analog 500/2500 Sets

Terminal Programming Instructions

To enter data for Program 82-15 (DIOPU (OPX) Initial Setup):

1. Enter the programming mode.
2. 82 15



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available. Requires software 2.0+.

Description

The UX5000 will use the settings in **Program 82-16 : 082U Codec Filter Data Setup** when **Program 82-07-01 : Codec Filter Setup for Analog Station Ports** is set to "4 - Specified Data".

These values should not be changed from their default settings unless directed by NEC'S Technical Service department.

The side tone is adjusted using all 62 values, however, special software is required in order to compute these values. The setting is not proportional to the gain level. Do not change from the default unless required!

Changes to CODECs should only be done when instructed to do so by NEC's Technical Support to prevent causing problems with the UX5000.

Input Data

Item	Description	Range	Default
01	B1 Filter (01)	0-255	58
02	B1 Filter (02)	0-255	242
03	B1 Filter (03)	0-255	191
04	B1 Filter (04)	0-255	44
05	B1 Filter (05)	0-255	90
06	B1 Filter (06)	0-255	165
07	B1 Filter (07)	0-255	168
08	B1 Filter (08)	0-255	123
09	B1 Filter (09)	0-255	159
10	B1 Filter (10)	0-255	185
11	B1 Filter (11)	0-255	246
12	B1 Filter (12)	0-255	159
13	B1 Filter (13)	0-255	201
14	B1 Filter (14)	0-255	240
15	B2 Filter (01)	0-255	221
16	B2 Filter (02)	0-255	1
17	AISN & Analog Gain	0-255	21
18	Z Filter Coefficients 1	0-255	163
19	Z Filter Coefficients 2	0-255	2201
20	Z Filter Coefficients 3	0-255	36
21	Z Filter Coefficients 4	0-255	163
22	Z Filter Coefficients 5	0-255	59

Item	Description	Range	Default
23	Z Filter Coefficients 6	0-255	194
24	Z Filter Coefficients 7	0-255	196
25	Z Filter Coefficients 8	0-255	195
26	Z Filter Coefficients 9	0-255	170
27	Z Filter Coefficients 10	0-255	43
28	Z Filter Coefficients 11	0-255	38
29	Z Filter Coefficients 12	0-255	193
30	Z Filter Coefficients 13	0-255	163
31	Z Filter Coefficients 14	0-255	188
32	Z Filter Coefficients 15	0-255	1
33	R Filter Coefficients 1	0-255	46
34	R Filter Coefficients 2	0-255	1
35	R Filter Coefficients 3	0-255	1
36	R Filter Coefficients 4	0-255	17
37	R Filter Coefficients 5	0-255	1
38	R Filter Coefficients 6	0-255	144
39	R Filter Coefficients 7	0-255	1
40	R Filter Coefficients 8	0-255	144
41	R Filter Coefficients 9	0-255	1
42	R Filter Coefficients 10	0-255	144
43	R Filter Coefficients 11	0-255	1
44	R Filter Coefficients 12	0-255	144
45	R Filter Coefficients 13	0-255	1
46	R Filter Coefficients 14	0-255	144
47	X Filter Coefficients 1	0-255	37
48	X Filter Coefficients 2	0-255	64
49	X Filter Coefficients 3	0-255	83
50	X Filter Coefficients 4	0-255	171
51	X Filter Coefficients 5	0-255	42
52	X Filter Coefficients 6	0-255	135
53	X Filter Coefficients 7	0-255	35
54	X Filter Coefficients 8	0-255	52
55	X Filter Coefficients 9	0-255	71
56	X Filter Coefficients 10	0-255	172
57	X Filter Coefficients 11	0-255	43
58	X Filter Coefficients 12	0-255	197
59	GR Filter Coefficients 1	0-255	66
60	GR Filter Coefficients 2	0-255	97

Item	Description	Range	Default
61	GX Filter Coefficients 1	0-255	162
62	GX Filter Coefficients 2	0-255	176

Conditions

None

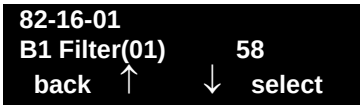
Feature Cross Reference

- Central Office Calls, Answering
- Central Office Calls, Placing
- Single Line Terminals, Analog 500/2500 Sets

Terminal Programming Instructions

To enter data for Program 82-16 (082U Codec Filter Data Setup):

1. Enter the programming mode.
2. 82 16



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 82 : Basic Hardware Setup for Extension
82-17 : Extension Codec Filter Setup

Level:	Feature Availability
IN	• Available. Requires software 2.0+.

Description

Use **Program 82-17 : Extension Codec Filter Setup** to define the codec (QSLAC) filter for each analog, station port.

Prior to software 2.0, the CODECs were set for analog station ports only using Program 82-07 and 82-09. However, with software 2.0+, if **Program 82-07-01 : Codec Filter Setup for Analog Station Ports** is set to "4", the UX5000 will follow Program 82-09 [analog], 82-15 [OPX] or 82-16 [SLIU ports on 082U], depending on the type of station port (analog, OPX or analog on the 082U). In addition, the software provides additional Codec filter types (types 5-15) using Program 82-17. These are in addition to the fixed pattern types in Program 82-07.

Input Data

Extension Port Number	001-512

.

Item No.	Line Type	Codec Filter Type	Default
01	SLIU	0 = Not Set 1 = Type 5: 600¾ Line Loss 2dB 2 = Type 6: 200¾+ (100nF//680¾) **(not used in the U.S.)** 3 = Type 7: 160¾+ (150nF//1100¾) **(not used in the U.S.)** 4 = Type 8: 900¾ 5-10 = Types 9-14: Reserved (not currently used) 11 = Type 15: For Test	0 (Not Set)
02	DIOPU (OPX)		0 (Not Set)
03	082U		0 (Not Set)

Conditions

None

Feature Cross Reference

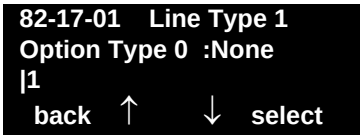
- Central Office Calls, Answering
- Central Office Calls, Placing
- Single Line Terminals, Analog 500/2500 Sets

Terminal Programming Instructions

To enter data for Program 82-17 (Extension Codec Filter Setup):

1. Enter the programming mode.

2. 82 17



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

- For Your Notes -

Level:
IN

Feature Availability
• Available.
• Program 84-01-60 deleted with software 1.a7+.

Description

Use **Program 84-01 : Codec Information Basic Setup** to define the data of H.323 trunks. Refer to Program 84-12 for H.323 extensions and IP CygniLink Codecs.

Note that the value of Item 33 (Audio Capability Priority) determines which codec settings to use. This means, for example, that if G.711 is selected in Item 33, the settings in Items 5-12 and 19-21 will be ignored.

Input Data

Item No.	Item	Input Data	Default
01	-- Not Used --		
02	**Number of G.711 Audio Frame** Maximum number of G711 Audio Frames. When the voice is encoded using the PCM (Pulse Code Modulation) method, a unit is a frame of 10ms.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
03	**G.711 Silence Detection Mode** Select whether to compress silence with G.711. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
04	**G.711 Type** Set the type of G.711.	0 = A-law 1 = þµ-law	1
05	**G.729 Audio Frame** Maximum number of G729 Audio Frames. G.729 assumes the audio signal made by a specimen by 8kHz and the frame of 10ms is assumed to be a unit to 8kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms 5 = 50 ms 6 = 60 ms	3
06	**G.729 Silence Compression Mode** Select whether to compress silence with G.729. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
07	**G.729 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.729 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-270 ms	30
08	**G.729 Jitter Buffer - Standard** Set the average G.729 Jitter Buffer.	0-270 ms	60

Item No.	Item	Input Data	Default
09	**G.729 Jitter Buffer - Maximum** Set the maximum G.729 Jitter Buffer.	0-270 ms	120
10	-- Not Used --		
11	**Number of G.723 Audio Frame** Maximum number of the G.723 Audio Frame.	1 = 30 msec 2 = 60 msec	1
12	**G.723 Silence Compression Mode** If enabled, RTP packets are not sent for the compressed silence.	0 = Disable 1 = Enable	0
13	-- Not Used --		
14	-- Not Used --		
15	**Jitter Buffer Mode** Set the mode of the Jitter Buffer. 1 = Size set to the fixed amount for the codec. 2 = The minimum/maximum range for the codec is used. 3 = The minimum/maximum range for the codec is used and adjusts at any time, regardless of silence.	1 = static 2 = adaptive during silence 3 = adaptive immediately	3
16	**G.711 Jitter Buffer - Minimum** Set the minimum value of the G.711 Jitter Buffer.	0~160 ms	30
17	**G.711 Jitter Buffer - Standard** Set the average value of the G.711 Jitter Buffer.	0~160 ms	60
18	**G.711 Jitter Buffer - Maximum** Set the maximum value of the G.711 Jitter Buffer.	0~160 ms	120
19	**G.723 Jitter Buffer - Minimum** Set the minimum value of the G.723 Jitter Buffer.	0~270 ms	30
20	**G.723 Jitter Buffer - Standard** Set the average value of the G.723 Jitter Buffer.	0~270 ms	60
21	**G.723 Jitter Buffer - Maximum** Set the maximum value of the G.723 Jitter Buffer.	0~270 ms	120
22	**Silence Compression (VAD) Threshold** Set the voice level judged to be silence. Change value based –30 This entry is ignored if silence compression is disabled in: • 84-01-03 (G.711) • 84-01-06 (G.729) • 84-01-12 (G.723) • 84-01-64 (G.722) • 84-01-69 (G.726) • 84-01-71 (iLBC)	0-30 (self-adjustment and -19db ~ +10db) 0 = self-adjustment 1:-19db (-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30:10dbm (-20dbm)	20

Item No.	Item	Input Data	Default
23	**Idle Noise Level** Set the noise level which is generated when silent.	5000-7000 (-5000 ~ -7000dbm) 5000 = -5000dbm : 7000 = -7000dbm	7000
24	**Echo Canceller Mode** Determine whether or not to use Echo canceller.	0 = Disable 1 = Enable	1
25	**Signal Limiter Mode** Select the signal limiter mode.	Type = 1-5 Mode: • 1 = Mode 0n (No Limitation) • 2 = Mode 1 (Limitation is the Maximum) • 3 = Mode 2 (Limitation size) • 4 = Mode 3 (Limited) • 5 = Mode 4 (Reduced Limitation) • 6 = Mode 5 (Minimum Limitation)	6
26	**Echo Canceller NLP Mode** Non-linear processing mode. Use this option to select the mode for NLP (2 wire = analog trunk and 4-wire indicates digital trunk). When the NLP mode is enabled, the voice with low level is replaced with the NLP noise. As a result, a low echo of the level is usually removed compared with the conversation level.	0 = 2-wire and 4-wire 1 = 2-wire only	1
27	**- Not Used -**	-	-
28	**Echo Canceller NLP Noise Setting** Becomes invalid item if 84-01-26 is set to Disabled. Set the noise level adjusting method added with NLP. When “0” is set, the level is self-adjusted - when “1” is set, Program 84-01-27 is used.	0 = adaptive 1 = fixed	0
29	**- Not Used -**	-	-
30	**TX (Transmit) Gain** Define the setting to amplify and to attenuate the size of the transmission voice. The gain given when the voice packet is sent from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20

Program 84 : Hardware Setup for VoIP
84-01 : Codec Information Basic Setup

Item No.	Item	Input Data	Default
31	**RX (Receive) Gain** Define the setting to amplify and to attenuate the size of the received voice. The gain given when the voice packet is received from the VOIPDB is set.	0-40 (-20~+20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20
32	-- Not Used --		
33	**Priority Codec Setting** The option selected here determines what other codec options are applied by priority.	0 = G711 PT 1 = G723 PT 2 = G729 PT 3 = G.722_PT	0
34	**Bandwidth Control** Controls the voice bandwidth on an H.323 trunk.	0 = Disable 1 = Enable	0
35	**Maximum Bandwidth** The maximum total bandwidth limitation for voice packets.	0-65535 kbps	0
36	**Maximum Fax Transmission Rate**	24 = V.27ter, 2400 bps 48 = V.27ter, 4800 bps 72 = V.29, 7200 bps 96 = V.29, 9600 bps 120 = V17, 12000 bps 144 = V.17, 14400 bps	5
37	**Fax Playout FIFO Nominal Delay** Increase the value for networks which experience large packet losses.	0-600 ms	300 ms
38	Fax Packet Size	20-48 bytes	20
39	Fax Modem Transmit Level	0-13 0dBm ~ -13dBm	9 (-9dBm)
40	Fax Modem CD Threshold	0 = -26dBm 1 = -33dBm 2 = -43dBm	1
41	Fax No Activity Timeout Duration	10-32000 sec	30
42	**Fax Signal Transmission Method** T.38/TRP UDP Voice-Fax Close-Reopen	0 = Open Channel Defined Packet Encapsulation 1 = T.38 UDP 2 = T.38/TRP UDP	1
43	High Speed Data Packet Rate (fax picture signal)	1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	4

Item No.	Item	Input Data	Default
44	Low Speed Data Redundancy (fax procedure signal)	0-5	0
45	High Speed Data Redundancy (fax picture signal)	0-2	0
46	**TCF Handling Method** For H.323 negotiation.	1 = TCF is Locally Generated and Checked 2 = TCF is Sent Over the Network	1
47	Maximum Low Speed Data Packetization	1 ~ 65535 bytes	1
48	Transmit Network Timeout	10-32000 sec	150 sec
49	Eflag Start Timer	0-65535	2600 ms
50	Eflag Stop Timer	0-65535	2300 ms
51	Fax Relay: Scan Line Fix Up Feature	0 = Disable 1 = Enable	1
52	Fax Relay: Eflags for First DIS	0 = Disable 1 = Enable	1
53	Fax Relay: FOP Protocol Enhancement	0 = Disable 1 = Enable	1
54	Fax Relay: NSF Override	0 = Disable 1 = Enable	0
55	ECM (Error Correction Mode)	0 = Disable 1 = Enable	1
56	MR (Modified Read) Page Compression	0 = Disable 1 = Enable	1
57	**NSF Country Code** Fax Relay - NSF Override Disable	0-65535	0
58	**NSF Vendor Code** Fax Relay - NSF Override Disable	0-65535	0
59	**Fax Relay Function** Determine whether or not the Fax Relay function should be used. With the terminal type set to “1” in Program 15-03-03, Each Port Mode can be used. The fax relay is executed only for a single terminal, S-Bus, trunk or the special network.	0 = Disable 1 = Enable 2 = Each Port Mode	0

Item No.	Item	Input Data	Default
60	***- Not Used with Software 1.a7+ -*** **Echo Canceller Config Type** The type is defined in Program 84-17. • 0: Automatic If the call is analog (e.g. COIU or 2-wire tie line) then this selects the echo canceller profile configured in Program 84-17 Type 4 ("Analog Path Setting"). Any other call selects the echo canceller profile configured in Program 84-17 Type 5 ("Digital Path Setting"). Note that the 4-wire tie line is treated as digital. • 1: Type 1 This selects the echo canceller profile configured in Program 84-17 Type 1. • 2: Type 2 This selects the echo canceller profile configured in Program 84-17 Type 2. 3: Type 3 This selects the echo canceller profile configured in Program 84-17 Type 3.	0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
61	Echo Auto Gain Control	0 - 5	0
62	**H.323 DTMF Payload Number** Define the H.323 DTMF Payload Number. With the DTMF mode set to 0, the set-up information set by 84-06-10 is used for the VOIPDB. This option gives priority if set to either of 1, 2, 3.	0 = VOIPDB 1 = RFC2833 2 = H.245 3 = Disable	0
63	**G.722 Audio Frame** Maximum number of G.722 Audio Frames. G.722 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 64kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
64	**G.722 Silence Compression Mode** Select whether to compress silence with G.722. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
65	**G.722 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.722 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
66	**G.722 Jitter Buffer - Standard** Set the average G.722 Jitter Buffer.	0-160 ms	60
67	**G.722 Jitter Buffer - Maximum** Set the maximum G.722 Jitter Buffer.	0-160 ms	120
68	**G.726 Audio Frame** Maximum number of G.726 Audio Frames. G.726 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 32kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
69	**G.726 Silence Compression Mode** Select whether to compress silence with G.726. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0

Item No.	Item	Input Data	Default
70	**G.726 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.726 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
71	**G.726 Jitter Buffer - Standard** Set the average G.726 Jitter Buffer.	0-160 ms	60
72	**G.726 Jitter Buffer - Maximum** Set the maximum G.726 Jitter Buffer.	0-160 ms	120
73	**iLBC Audio Frame** Maximum number of iLBC Audio Frames. iLBC assumes the frame of 10ms is a unit.	2 = 20 ms 3 = 30 ms 4 = 40 ms	3
74	**iLBC Silence Compression Mode** Select whether to compress silence with iLBC. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
75	**iLBC Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of iLBC is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
76	**iLBC Jitter Buffer - Standard** Set the average iLBC Jitter Buffer.	0-160 ms	60
77	**iLBC Jitter Buffer - Maximum** Set the maximum iLBC Jitter Buffer.	0-160 ms	120

Conditions

You must log out of UX5000 programming in order for changes to the following items will take affect:

Item 39
Item 40
Item 41
Item 49
Item 50
Item 51
Item 52
Item 53
Item 54
Item 55
Item 56
Item 57
Item 58

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-01 (Codec Information Basic Setup):

1. Enter the programming mode.

2. 84 01

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-02 : H.225, H.245 Information Basic Setup** to define the data of H.225 and H.245.

It is recommended that these settings are left at the default values unless you are advised to change the values by NEC Infrontia.

Input Data

Item No.	Item	Input Data	Default	Description
01	H.225 Alerting Timer	0-255 sec	180 sec	
02	H.225 Setup Acknowledge Timer	0-255 sec	9 sec	
03	H.225 Setup Timer	0-255 sec	4 sec	
04	H.225 Info Ack Timer	0-255 sec	9 sec	
05	H.225 Call Proceeding Timer	0-255 sec	10 sec	
06	-- Not Used --			
07	H.245 Master Slave Determination Timer	0-255 sec	5 sec	
08	H.245 Master Slave Determination Retry Count	0-255 sec	3 sec	
09	H.245 Capability Exchange Timer	0-255 sec	5 sec	
10	H.245 Logical Channel Establishment Timer	0-255 sec	50 sec	Unidirectional or bi-directional logical channel establishment timer
11	H.245 Mode Request Procedures Timer	0-255 sec	50 sec	
12	H.245 Close Logical Channel Timer	0-255 sec	50 sec	
13	H.245 Round Trip Delay Timer	0-255 sec	50 sec	
14	H.245 Maintenance Loop	0-255 sec	50 sec	
15	RAS GRQ Timer	0-255 sec	5 sec	
16	GRQ Retry Count	0-255	2	
17	RAS RRQ Timer	0-255 sec	5 sec	
18	RRQ Retry Count	0-255	3	
19	RAS URQ Timer	0-255 sec	3	

Item No.	Item	Input Data	Default	Description
20	URQ Retry Count	0-255	1	
21	RAS ARQ Timer	0-255 sec	5 sec	
22	ARQ Retry Count	0-255	2	
23	RAS BRQ Timer	0-255 sec	5 sec	
24	BRQ Retry Count	0-255	2	
25	RAS IRR Timer	0-255 sec	5 sec	
26	IRR Retry Count	0-255	2	
27	RAS DRQ Timer	0-255 sec	8 sec	
28	DRQ Retry Count	0-255	2	
29	RAS LRQ Timer	0-255 sec	5 sec	
30	LRQ Retry Count	0-255	2	
31	RAS RAI Timer	0-255 sec	3 sec	
32	RAI Retry Count	0-255	2	
33	Call Signaling Port Number	0-1719, 1721-65535	1730	It is control port for IP Terminal
34	- Not Used -			
35	Fast Start	0 = Disable 1 = Enable	1	If VoIP is used for CygniLink networking, the Fast Start option must be enabled.
36	RAS unicast Port Numbert	0-65535	20001	
37	Terminal Type	0-255	60	H.245 Terminal Type

Conditions

None

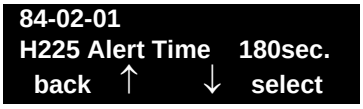
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-02 (H.225, H.245 Information Basic Setup):

1. Enter the programming mode.
2. 84 02



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-03 : IP Terminal Information Basic Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-03 : IP Terminal Information Basic Setup** to define the details of the UX5000 IP terminal.

Input Data

Item No.	Item	Input Data	Default
01	**NGT Signal Receive Port Number** Define the receiving port for IP control protocol.	0-65535	3458
02	**DRS Port Number** Define the port number for the Device Registeration Server.	0-65535	3456
03	- Not Used -		
04	- Not Used -		
05	- Not Used -		
06	**Area** Set the country for the IP terminal for the local tone. The UX5000 must be reset before this option will take affect.	0 = Japan 1 = USA 2 = Australia 3 = EU 4 = Asia 5 = Other Country	1
07	**Type of Service Mode** Set the type of service (ToS) mode.	1:Invalid 2:IP Precedence 3:Diffserve	1
08	Type of service This data will be sent to NGT Terminal when NGT Terminal is registered.	0x00-0xff (use line keys 1-6 for letters A-F)	C0
09	Start Port This entry indicates the starting port number for IP terminals.	1-512	1

Conditions

None

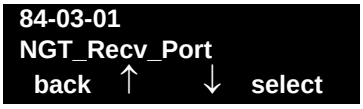
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-03 (NGT Information Basic Setup):

1. Enter the programming mode.
2. 84 03



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-07 : Firmware Download Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-07 : Firmware Download Setup** to setup the download data for the IP terminal.

Input Data

Item No.	Item	Input Data	Default	Description
01	Server Mode	0 = TFTP 1 = FTP	0	
02	File Server	0.0.0.0 ~ 126.255.255.254 128.0.0.1 ~ 191.255255.254 192.0.0.1 ~ 223.255.255.254	0.0.0.0	
03	Log-in Name	20 Characters Max.	No Setting	This option is used when FTP is selected in Program 84-07-01.
04	Password	20 Characters Max.	No Setting	This option is used when FTP is selected in Program 84-07-01.

Conditions

None

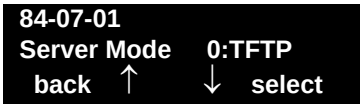
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-07 (Firmware Download Setup):

1. Enter the programming mode.
2. 84 07



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-08 : Firmware Name Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-08 : Firmware Name Setup** to setup the firmware name of the IP terminal for download.

Input Data

Terminal Type	1 = ITR-16DK-1D 2 = IP-RD 3 = IP-R 4 = ITR-32D-1D 5 = IP1WW_IP_Adapter 6 = ITR-LC-1 7 = IP1NA-24TIXH 8 = IP1WW-24TIXH

Item No.	Item	Input Data	Default	Description
01	Firmware Directory	64 Characters Maximum	No Setting	Set the directory where the downloaded file is stored.
02	Firmware File Name	30 Characters Maximum	No Setting	Define the name of the download file.

Conditions

None

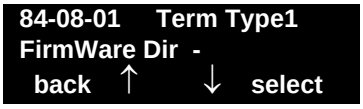
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-08 (Firmware Download Setup):

1. Enter the programming mode.
2. 84 08



3. Enter the number of the item you want to program.

4. Enter the terminal type to be defined or press FLASH to use the displayed entry.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-09 : VLAN Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-09 : VLAN Setup** to setup the VLAN data.

Input Data

Interface Number • I/F No.1: The packets sent from the LAN interface on the CCPU is set to the VLAN Tag. (VOIPDB 32 channel) • I/F No.2: The packets sent from the LAN interface on the VOIPDB is set to the VLAN Tag. (VoIPDB 32ch/64ch/128ch)	1-2

Item No.	Item	Input Data	Default
01	VLAN	0 = Disable 1 = Enable	0
02	VLAN ID	0 - 4094	0
03	Priority	0 - 7	0

Conditions

The UX5000 programming must be exited before these program options to take affect.

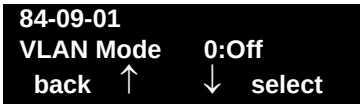
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-09 (VLAN Setup):

1. Enter the programming mode.
2. 84 09



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-10 : ToS Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-10 : ToS Setup** to setup the ToS data.

Input Data

Protocol Type	1 = DRS 2 = Protims 3 = Voice Control 4 = H.323 5 = RTP•RTCP 6 = SIP 7 = CCIS 8 = SIP MLT 9 = SIP Trunk 10 = CygniLink

Item No.	Item	Input Data	Default
01	ToS Mode	0 = Disable 1 = IP Precedence 2 = Diffserv	0
02	**Priority (IP Precedence)** 01 ToS, 1:IP Precedence	0-7 (0=low, 7-high)	0
03	**Low Delay (IP Precedence)** 01 ToS, 1:IP Precedence	0-1 (0=normal delay, low delay)	0
04	**Wide Band (IP Precedence)** 01 ToS, 1:IP Precedence	0-1 (0=normal through put, 1=high through put)	0
05	**High Reliability (IP Precedence)** 01 ToS, 1:IP Precedence	0-1 (0=normal reliability, 1=low reliability)	0
06	**Low Cost (IP Precedence)** 01 ToS, 1:IP Precedence	0-1 (0=normal cost, 1=low cost)	0
07	**Priority (Diffserv)** 01 ToS, 2:Diffserv	0-63	0

Conditions

The UX5000 needs to be reset in order for these program options to take affect.

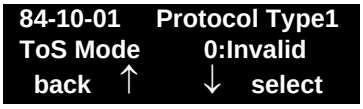
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-10 (ToS Setup):

1. Enter the programming mode.
2. 84 10



3. Enter the number of the item you want to program.

4. Enter the Protocol Type number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-11 : Dterm IP Codec Information Basic Setup

Level:
IN

Feature Availability
• Available.
• Program 84-11-29 deleted with software 1.a7+.

Description

Use **Program 84-11 : Dterm IP Codec Information Basic Setup** to setup the basic codec options for the Dterm IP terminal.

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 Frame** Maximum number of G711 Audio Frames. When the voice is encoded using the PCM (Pulse Code Modulation) method, a unit is a frame of 10ms.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
02	**G.711 Silence Detection (VAD) Mode** Select whether to compress silence with G.711. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
03	**G.711 Type** Set the type of G.711.	0 = A-law 1 = þμ-law	1
04	**G.711 Jitter Buffer - Minimum** Set the minimum value of the G.711 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-160 ms	30
05	**G.711 Jitter Buffer - Standard** Set the average value of the G.711 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-160 ms	60
06	**G.711 Jitter Buffer - Maximum** Set the maximum value of the G.711 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-160 ms	120

Item No.	Item	Input Data	Default
07	**G.729 Audio Frame** Maximum number of G729 Audio Frames. G.729 assumes the audio signal made by a specimen by 8kHz and the frame of 10ms is assumed to be a unit to 8kbps by the encoding compressed method.	1-6 (1 = 10ms, 2 = 20ms, etc.)	3
08	**G.729 Silence Compression (VAD) Mode** Select whether to compress silence with G.729. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.729 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-270 ms	30
10	**G.729 Jitter Buffer - Standard** Set the average G.729 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-270 ms	60
11	**G.729 Jitter Buffer - Maximum** Set the maximum G.729 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-270 ms	120
12	**Number of G.723 Audio Frame** Maximum number of the G.723 Audio Frame (corresponds to 5.3kbps ACELP method).	1 = 30 msec 2 = 60 msec	1
13	**G.723 Silence Compression (VAD) Mode** If enabled, RTP packets are not sent for the compressed silence.	0 = Disable 1 = Enable	0
14	**G.723 Jitter Buffer - Minimum** Set the minimum value of the G.723 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-270 ms	30
15	**G.723 Jitter Buffer - Standard** Set the average value of the G.723 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-270 ms	60

Item No.	Item	Input Data	Default
16	**G.723 Jitter Buffer - Maximum** Set the maximum value of the G.723 Jitter Buffer. Moreover, this option is adjusted with the UX5000 as it is used by both IP terminals and the VOIPDB and the range of the adjustment of Jitter for the IP terminal is narrower and transmitted to the IP terminal. The range of IP terminal is 10-300 (10).	0-270 ms	120
17	**Jitter Buffer Mode** Set the mode of the Jitter Buffer. 1 = Size set to the fixed (standard) amount for the codec. 2 = The minimum/maximum range for the codec is used. 3 = The minimum/maximum range for the codec is used and adjusts at any time, regardless of silence.	1 = static 2 = adaptive during silence 3 = adaptive immediately	3
18	**Silence Compression (VAD) Threshold** Set the voice level judged to be silence. Voice level compression -3dB of the standard level is determined to be silence. Change value based –30dB This entry is ignored if silence compression is disabled in 84-01-03 with G.711, or 84-01-06 with G.729. (VAD=Voice Activity Detection)	0-30 (self-adjustment and -19db ~ +10db) 0 = self-adjustment 1:-19db (-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30:10dbm (-20dbm)	20
19	**Idle Noise Level** Set the noise level which is generated when silent.	5000-7000 (-5000 ~ -7000dbm) 5000 = -5000dbm : 7000 = -7000dbm	7000
20	**Echo Canceller Mode** Determine whether or not to use Echo canceller.	0 = Disable 1 = Enable	1
21	**Signal Limiter Mode** Select the signal limiter mode.	• 1 = Mode 0n (No Limitation) • 2 = Mode 1 (Limitation is the Maximum) • 3 = Mode 2 (Limitation size) • 4 = Mode 3 (Limited) • 5 = Mode 4 (Reduced Limitation) • 6 = Mode 5 (Minimum Limitation)	6

Item No.	Item	Input Data	Default
22	**Echo Canceller NLP Mode** Non-linear processing mode. Use this option to select the mode for NLP (2 wure = analog trunk and 4-wire indicates digital trunk). When the NLP mode is enabled, the voice with low level is replaced with the NLP noise. As a result, a low echo of the level is usually removed compared with the conversation level.	Type = 1-5 Mode: 0 = 2-wire and 4-wire 1 = 2-wire only	1
23	**- Not Used -**	-	-
24	**Echo Canceller NLP Noise Setting** Becomes invalid item if 84-11-22 is set to Disabled. Set the noise level adjusting method added with NLP. When “0” is set, the level is self-adjusted - when “1” is set, Program 84-11-23 is used.	0 = adaptive 1 = fixed	0
25	**- Not Used -**	-	-
26	**TX (Transmit) Gain** Define the setting to amplify and to attenuate the size of the transmission voice. The gain given when the voice packet is sent from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0 dbm)
27	**RX (Receive) Gain** Define the setting to amplify and to attenuate the size of the received voice. The gain given when the voice packet is received from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0 dbm)
28	**Priority Codec Setting** The option selected here determines what other codec options are applied by priority.	0 = G711 PT 1 = G723 PT 2 = G729 PT	0

Item No.	Item	Input Data	Default
29	***- Not Used with Software 1.a7+ -*** **Echo Canceller Config Type** The type is defined in Program 84-17. • 0: Automatic If the call is analog (e.g. COIU or 2-wire tie line) then this selects the echo canceller profile configured in Program 84-17 Type 4 ("Analog Path Setting"). Any other call selects the echo canceller profile configured in Program 84-17 Type 5 ("Digital Path Setting"). Note that the 4-wire tie line is treated as digital. • 1: Type 1 This selects the echo canceller profile configured in Program 84-17 Type 1. • 2: Type 2 This selects the echo canceller profile configured in Program 84-17 Type 2. 3: Type 3 This selects the echo canceller profile configured in Program 84-17 Type 3.	0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	Echo Auto Gain Control	0 - 5	0
31	Check Sum Mode Set whether UDP Check Sum of the RTP packet is used.	0 = Disabled 1 = Enable	1

Conditions

None

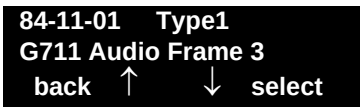
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-11 (Dterm IP Codec Information Basic Setup):

1. Enter the programming mode.
2. 84 11



3. Enter the number of the item you want to program.

4. Enter the type number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.

OR

Press MIC once to enter a new item number.

OR

Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-12 : Networking Codec Information Basic Setup

Level:
IN

Feature Availability
• Available.
• Program 84-12-29 deleted with software 1.a7+.

Description

Use **Program 84-12 : Networking Codec Information Basic Setup** to setup the codec information for IP networking.

Input Data

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frame** Maximum number of G711 Audio Frames. When the voice is encoded using the PCM (Pulse Code Modulation) method, a unit is a frame of 10ms.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
02	**G.711 Silence Detection (VAD) Mode** Select whether to compress silence with G.711. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
03	**G.711 Type** Set the type of G.711.	0 = A-law 1 = þµ-law	1
04	**G.711 Jitter Buffer - Minimum** Set the minimum value of the G.711 Jitter Buffer.	0~160 ms	30
05	**G.711 Jitter Buffer - Standard** Set the average value of the G.711 Jitter Buffer.	0~160 ms	60
06	**G.711 Jitter Buffer - Maximum** Set the maximum value of the G.711 Jitter Buffer.	0~160 ms	120
07	**G.729 Audio Frame** Maximum number of G729 Audio Frames. G.729 assumes the audio signal made by a specimen by 8kHz and the frame of 10ms is assumed to be a unit to 8kbps by the encoding compressed method.	1-6 (1 = 10ms, 2 = 20ms, etc.)	3
08	**G.729 Silence Compression (VAD) Mode** Select whether to compress silence with G.729. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.729 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-270 ms	30
10	**G.729 Jitter Buffer - Standard** Set the average G.729 Jitter Buffer.	0-270 ms	60
11	**G.729 Jitter Buffer - Maximum** Set the maximum G.729 Jitter Buffer.	0-270 ms	120

Item No.	Item	Input Data	Default
12	**Number of G.723 Audio Frame** Maximum number of the G.723 Audio Frame.	1 = 30 msec 2 = 60 msec	1
13	**G.723 Silence Compression (VAD) Mode** If enabled, RTP packets are not sent for the compressed silence.	0 = Disable 1 = Enable	0
14	**G.723 Jitter Buffer - Minimum** Set the minimum value of the G.723 Jitter Buffer.	0~270 ms	30
15	**G.723 Jitter Buffer - Standard** Set the average value of the G.723 Jitter Buffer.	0~270 ms	60
16	**G.723 Jitter Buffer - Maximum** Set the maximum value of the G.723 Jitter Buffer.	0~270 ms	120
17	**Jitter Buffer Mode** Set the mode of the Jitter Buffer. 1 = Size set to the fixed amount for the codec. 2 = The minimum/maximum range for the codec is used. 3 = The minimum/maximum range for the codec is used and adjusts at any time, regardless of silence.	1 = static 2 = adaptive during silence 3 = adaptive immedi-ately	3
18	**Silence Compression (VAD) Threshold** Set the voice level judged to be silence. Change value based –30 This entry is ignored if silence compression is disabled in 84-01-03 with G.711, or 84-01-06 with G.729.	0-30 (self-adjustment and -19db ~ +10db) 0 = self-adjustment 1:-19db (-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30:10dbm (-20dbm)	20
19	**Idle Noise Level** Set the noise level which is generated when silent.	5000-7000 (-5000 ~ -7000dbm) 5000 = -5000dbm : 7000 = -7000dbm	7000
20	**Echo Canceller Mode** Determine whether or not to use Echo canceller.	0 = Disable 1 = Enable	1

Item No.	Item	Input Data	Default
21	**Signal Limiter Mode** Select the signal limiter mode.	• 1 = Mode 0n (No Limitation) • 2 = Mode 1 (Limitation is the Maximum) • 3 = Mode 2 (Limitation size) • 4 = Mode 3 (Limited) • 5 = Mode 4 (Reduced Limitation) • 6 = Mode 5 (Minimum Limitation)	4
22	**Echo Canceller NLP Mode** Non-linear processing mode. Use this option to select the mode for NLP (2 wure = analog trunk and 4-wire indicates digital trunk). When the NLP mode is enabled, the voice with low level is replaced with the NLP noise. As a result, a low echo of the level is usually removed compared with the conversation level.	0 = 2-wire and 4-wire 1 = 2-wire only	1
23	**- Not Used -**	-	-
24	**Echo Canceller NLP Noise Setting** Becomes invalid item if 84-12-22 is set to Disabled. Set the noise level adjusting method added with NLP. When “0” is set, the level is self-adjusted - when “1” is set, Program 84-12-23 is used.	0 = adaptive 1 = fixed	0
25	**- Not Used -**	-	-
26	**TX (Transmit) Gain** Define the setting to amplify and to attenuate the size of the transmission voice. The gain given when the voice packet is sent from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0 dbm)
27	**RX (Receive) Gain** Define the setting to amplify and to attenuate the size of the received voice. The gain given when the voice packet is received from the VOIPU is set.	0-40 (-20~+20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0 dbm)

Item No.	Item	Input Data	Default
28	**Priority Codec Setting** The option selected here determines what other codec options are applied by priority.	0 = G711 PT 1 = G723 PT 2 = G729 PT 3 = G.722 PT	0
29	***- Not Used with Software 1.a7+ -*** **Echo Canceller Config Type** The type is defined in Program 84-17. • 0: Automatic If the call is analog (e.g. COIU or 2-wire tie line) then this selects the echo canceller profile configured in Program 84-17 Type 4 ("Analog Path Setting"). Any other call selects the echo canceller profile configured in Program 84-17 Type 5 ("Digital Path Setting"). Note that the 4-wire tie line is treated as digital. • 1: Type 1 This selects the echo canceller profile configured in Program 84-17 Type 1. • 2: Type 2 This selects the echo canceller profile configured in Program 84-17 Type 2. • 3: Type 3 This selects the echo canceller profile configured in Program 84-17 Type 3.	0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	Echo Auto Gain Control	0 - 5	0
31	**DTMF Relay Mode** The initial setup information for the VOIPDB is set in Program 84-27-02. If this option is set to either 0 or 1, priority is given.	0 = Disable 1 = RFC2833 2 = VOIPDB	2
32	**FAX Relay** Select "2" for FAX Relay to SLT (Program 15-03-03:special), Trunk and CygniLink. Refer to Program 84-01-36 through 84-01-58 for FAX Relay options.	0 = Disable 1 = Enable 2 = Each Port Mode	0
33	**G.722 Audio Frame** Maximum number of G.722 Audio Frames. G.722 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 64kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
34	**G.722 Silence Compression Mode** Select whether to compress silence with G.722. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
35	**G.722 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.722 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
36	**G.722 Jitter Buffer - Standard** Set the average G.722 Jitter Buffer.	0-160 ms	60
37	**G.722 Jitter Buffer - Maximum** Set the maximum G.722 Jitter Buffer.	0-160 ms	120

Item No.	Item	Input Data	Default
38	**G.726 Audio Frame** Maximum number of G.726 Audio Frames. G.726 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 32kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
39	**G.726 Silence Compression Mode** Select whether to compress silence with G.726. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
40	**G.726 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.726 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
41	**G.726 Jitter Buffer - Standard** Set the average G.726 Jitter Buffer.	0-160 ms	60
42	**G.726 Jitter Buffer - Maximum** Set the maximum G.726 Jitter Buffer.	0-160 ms	120
43	**iLBC Audio Frame** Maximum number of iLBC Audio Frames. iLBC assumes the frame of 10ms is a unit.	2 = 20 ms 3 = 30 ms 4 = 40 ms	3
44	**iLBC Silence Compression Mode** Select whether to compress silence with iLBC. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
45	**iLBC Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of iLBC is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
46	**iLBC Jitter Buffer - Standard** Set the average iLBC Jitter Buffer.	0-160 ms	60
47	**iLBC Jitter Buffer - Maximum** Set the maximum iLBC Jitter Buffer.	0-160 ms	120

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-12 (Networking Codec Information Basic Setup):

1. Enter the programming mode.
2. 84 12

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-13 : SIP Trunk Codec Information Basic Setup

Level:
IN

Feature Availability
• Available.
• Program 84-13-29 deleted with software 1.a7+.

Description

Use **Program 84-13 : SIP Trunk Codec Information Basic Setup** to setup the basic codec options for SIP trunks.

Input Data

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frame** Maximum number of G711 Audio Frames. When the voice is encoded using the PCM (Pulse Code Modulation) method, a unit is a frame of 10ms.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	2
02	**G.711 Silence Detection (VAD) Mode** Select whether to compress silence with G.711. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
03	**G.711 Type** Set the type of G.711.	0 = A-law 1 = þμ-law	1
04	**G.711 Jitter Buffer - Minimum** Set the minimum value of the G.711 Jitter Buffer.	0~160 ms	20
05	**G.711 Jitter Buffer - Standard** Set the average value of the G.711 Jitter Buffer.	0~160 ms	40
06	**G.711 Jitter Buffer - Maximum** Set the maximum value of the G.711 Jitter Buffer.	0~160 ms	80
07	**G.729 Audio Frame** Maximum number of G729 Audio Frames. G.729 assumes the audio signal made by a specimen by 8kHz and the frame of 10ms is assumed to be a unit to 8kbps by the encoding compressed method.	1-6 (1 = 10ms, 2 = 20ms, etc.)	2
08	**G.729 Silence Compression (VAD) Mode** Select whether to compress silence with G.729. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.729 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-270 ms	20
10	**G.729 Jitter Buffer - Standard** Set the average G.729 Jitter Buffer.	0-270 ms	40
11	**G.729 Jitter Buffer - Maximum** Set the maximum G.729 Jitter Buffer.	0-270 ms	80

Item No.	Item	Input Data	Default
12	**Number of G.723 Audio Frame** Maximum number of the G.723 Audio Frame.	1 = 30 msec 2 = 60 msec	1
13	**G.723 Silence Compression (VAD) Mode** If enabled, RTP packets are not sent for the compressed silence.	0 = Disable 1 = Enable	0
14	**G.723 Jitter Buffer - Minimum** Set the minimum value of the G.723 Jitter Buffer.	0~270 ms	30
15	**G.723 Jitter Buffer - Standard** Set the average value of the G.723 Jitter Buffer.	0~270 ms	60
16	**G.723 Jitter Buffer - Maximum** Set the maximum value of the G.723 Jitter Buffer.	0~270 ms	120
17	**Jitter Buffer Mode** Set the mode of the Jitter Buffer. 1 = Size set to the fixed amount for the codec. 2 = The minimum/maximum range for the codec is used. 3 = The minimum/maximum range for the codec is used and adjusts at any time, regardless of silence.	1 = static 2 = adaptive during silence 3 = adaptive immediately	3
18	**Silence Compression (VAD) Threshold** Set the voice level judged to be silence. Change value based –30 This entry is ignored if silence compression is disabled in 84-01-03 with G.711, or 84-01-06 with G.729.	0-30 (self-adjustment and -19db ~ +10db) 0 = self-adjustment 1:-19db (-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30:10dbm (-20dbm)	20
19	**Idle Noise Level** Set the noise level which is generated when silent.	5000-7000 (-5000 ~ -7000dbm) 5000 = -5000dbm : 7000 = -7000dbm	7000
20	**Echo Canceller Mode** Determine whether or not to use Echo canceller.	0 = Disable 1 = Enable	1

Item No.	Item	Input Data	Default
21	**Signal Limiter Mode** Select the signal limiter mode.	• 1 = Mode 0n (No Limitation) • 2 = Mode 1 (Limitation is the Maximum) • 3 = Mode 2 (Limitation size) • 4 = Mode 3 (Limited) • 5 = Mode 4 (Reduced Limitation) • 6 = Mode 5 (Minimum Limitation)	6
22	**Echo Canceller NLP Mode** Non-linear processing mode. Use this option to select the mode for NLP (2 wure = analog trunk and 4-wire indicates digital trunk). When the NLP mode is enabled, the voice with low level is replaced with the NLP noise. As a result, a low echo of the level is usually removed compared with the conversation level.	0 = 2-wire and 4-wire 1 = 2-wire only	1
23	**- Not Used -**	-	-
24	**Echo Canceller NLP Noise Setting** Becomes invalid item if 84-12-22 is set to Disabled. Set the noise level adjusting method added with NLP. When “0” is set, the level is self-adjusted - when “1” is set, Program 84-13-23 is used.	0 = adaptive 1 = fixed	0
25	**- Not Used -**	-	-
26	**TX (Transmit) Gain** Define the setting to amplify and to attenuate the size of the transmission voice. The gain given when the voice packet is sent from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0 dbm)
27	**RX (Receive) Gain** Define the setting to amplify and to attenuate the size of the received voice. The gain given when the voice packet is received from the VOIPDB is set.	0-40 (-20~+20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0 dbm)

Item No.	Item	Input Data	Default
28	**Priority Codec Setting** The option selected here determines what other codec options are applied by priority.	0 = G711 PT 1 = G723 PT 2 = G729 PT 3 = G.722 PT 4 = G.726 PT 5 = iLBC PT	0
29	***- Not Used with Software 1.a7+ -*** **Echo Canceller Config Type** The type is defined in Program 84-17. • 0: Automatic If the call is analog (e.g. COIU or 2-wire tie line) then this selects the echo canceller profile configured in Program 84-17 Type 4 (“Analog Path Setting”). Any other call selects the echo canceller profile configured in Program 84-17 Type 5 (“Digital Path Setting”). Note that the 4-wire tie line is treated as digital. • 1: Type 1 This selects the echo canceller profile configured in Program 84-17 Type 1. • 2: Type 2 This selects the echo canceller profile configured in Program 84-17 Type 2. • 3: Type 3 This selects the echo canceller profile configured in Program 84-17 Type 3.	0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	**EchoAuto Gain Control** Define the Auto Gain Control.	0 - 5	0
31	**DTMF Payload Number** Define the DTMF Payload Number.	96-127	110
32	**DTMF Relay Mode** Determine the DTMF setup.	0 = Disable 1 = RFC2833	0
33	**G.722 Audio Frame** Maximum number of G.722 Audio Frames. G.722 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 64kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
34	**G.722 Silence Compression Mode** Select whether to compress silence with G.722. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
35	**G.722 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.722 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
36	**G.722 Jitter Buffer - Standard** Set the average G.722 Jitter Buffer.	0-160 ms	60
37	**G.722 Jitter Buffer - Maximum** Set the maximum G.722 Jitter Buffer.	0-160 ms	120

Item No.	Item	Input Data	Default
38	**G.726 Audio Frame** Maximum number of G.726 Audio Frames. G.726 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 32kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
39	**G.726 Silence Compression Mode** Select whether to compress silence with G.726. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
40	**G.726 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.726 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
41	**G.726 Jitter Buffer - Standard** Set the average G.726 Jitter Buffer.	0-160 ms	60
42	**G.726 Jitter Buffer - Maximum** Set the maximum G.726 Jitter Buffer.	0-160 ms	120
43	**iLBC Audio Frame** Maximum number of iLBC Audio Frames. iLBC assumes the frame of 10ms is a unit.	2 = 20 ms 3 = 30 ms 4 = 40 ms	3
44	**iLBC Silence Compression Mode** Select whether to compress silence with iLBC. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
45	**iLBC Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of iLBC is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
46	**iLBC Jitter Buffer - Standard** Set the average iLBC Jitter Buffer.	0-160 ms	60
47	**iLBC Jitter Buffer - Maximum** Set the maximum iLBC Jitter Buffer.	0-160 ms	120

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-13 (SIP Trunk Codec Information Basic Setup):

1. Enter the programming mode.
2. 84 13

   84-13-01
   G711 Audio Frame
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   84-13-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-14 : SIP Trunk Basic Information Setup

Level:
IN

Feature Availability
• Available.
• Item 11 requires software 2.0+.

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** Set the INVITE Re TX Count.	0-255	7
02	**Request ReTX Count** Set the Request Re TX Count.	0-255	11
03	**Response ReTX Count** Set the Response Re TX Count.	0-255	7
04	**Request ReTX Start Time** Set the Request Re TX Start Time.	0-65535 (0ms-6553.5 seconds)	5 (500ms)
05	**Request MAX ReTX Interval** Set the Request MAX Re TX Interval.	0-65535 (0ms-6553.5 seconds)	40 (4000ms)
06	**SIP Trunk Port** Set the SIP Trunk source port number (Receiving Transport for UX5000 SIP). This cannot be the same port as Program 84-20-01 registrar/proxy ports.	1-65535	5060
07	**Session Timer Value** Set the Session Timer Value. The value when used should be higher than Program 84-14-08.	0-65535 seconds	0 (0 means "session timer is OFF")
08	**Minimum Session Timer Value** Set the Minimum Session Timer Value. The default value of 1800 seconds is the recommended value.	0-65535 seconds	1800 seconds
09	**Called Party Information** Set the Called Party Information.	0 = Request URI 1 = To header	0
10	**URL Type** Select either SIP URL (0) or TEL URL (1) for SIP Initial INVITE.	0 = SIP URL 1 = TEL URL	0

Item No.	Item	Input Data	Default
11	**URL/To Header Setting Information** Set this option to the SIP UA domain (1). (Refer to Program 10-29-12 for further information.) ***The UX5000 must be reset in order for the change to take effect.***	0=Proxy Server Domain 1 = SIP UA Domain	0

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-14 (SIP Trunk Basic Information Setup):

1. Enter the programming mode.
2. 84 14

   84-14-01
   INVITE ReTX Count
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   84-14-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-15 : H.323 Keep Alive Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-15 : H.323 Keep Alive Setup** to setup the conditions for keeping a call to an H.323 terminals alive when NetMeeting does not answer.

Input Data

Item No.	Item	Input Data	Default
01	**Automatic Deletion of Registration Information** Determine if the H.323 terminal registration information should be automatically deleted.	0 = Disable 1 = Enable	0
02	**Keep Alive Message Interval** Set the interval the UX5000 pings the terminal.	1-10 (minutes)	1
03	**Keep Alive Message Timeout** Set the timer the UX5000 waits for a ping response from the terminal.	1-10 (seconds)	5
04	**Keep Alive Timeout** Determine how long the UX5000 waits after receiving no ping response before determining the terminal to be unavailable.	1-5 (minutes)	3

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-15 (H.323 Keep Alive Setup):

1. Enter the programming mode.
2. 84 15

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-16 : VOIPDB Limiter Control Gain Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-16 : VOIPDB Limiter Control Gain Setup** to set the gains for the VOIPDB daughter board.

Input Data

Item No.	Item	Input Data	Default
01	**RX Limiter Control Gain** This option controls the limiter gain for IP to PCM direction. This option adds gain to the voice input from the LAN and removes it from the voice output to highway.	0-30 (-15 ~ +15) 0 = -15 dBM 1 = -14 dBm : 15 = 0 dBm : 29 = 14 dBm 30 = 15 dBm	15 (0 dBm)
02	**TX Limiter Control Gain** This option controls the limiter gain for PCM to IP direction. This option adds the gain to the voice input from highway and removes it from the voice output to the LAN.		15 (0 dBm)
03	**RX Limiter Control Gain - COIU** This option controls the limiter gain for a COIU call in the IP to PCM direction.		15 (0 dBm)
04	**TX Limiter Control Gain - COIU** This option controls the limiter gain for a COIU call in the PCM to IP direction.		15 (0 dBm)

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-16 (VOIPDB Limiter Control Gain Setup):

1. Enter the programming mode.
2. 84 16

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-19 : SIP Extension Codec Information Basic Setup

Level:
IN

Feature Availability
• Available.
• Program 84-19-29 deleted with software 1.a7+.

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 Frame** Maximum number of G711 Audio Frames. When the voice is encoded using the PCM (Pulse Code Modulation) method, a unit is a frame of 10ms.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	2
02	**G.711 Silence Detection (VAD) Mode** Select whether to compress silence with G.711. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
03	**G.711 Type** Set the type of G.711.	0 = A-law 1 = þμ-law	1
04	**G.711 Jitter Buffer - Minimum** Set the minimum value of the G.711 Jitter Buffer.	0~160 ms	20
05	**G.711 Jitter Buffer - Standard** Set the average value of the G.711 Jitter Buffer.	0~160 ms	40
06	**G.711 Jitter Buffer - Maximum** Set the maximum value of the G.711 Jitter Buffer.	0~160 ms	80
07	**G.729 Audio Frame** Maximum number of G729 Audio Frames. G.729 assumes the audio signal made by a specimen by 8kHz and the frame of 10ms is assumed to be a unit to 8kbps by the encoding compressed method.	1-6 (1 = 10ms, 2 = 20ms, etc.)	2
08	**G.729 Silence Compression (VAD) Mode** Select whether to compress silence with G.729. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.729 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-270 ms	20
10	**G.729 Jitter Buffer - Standard** Set the average G.729 Jitter Buffer.	0-270 ms	40

Item No.	Item	Input Data	Default
11	**G.729 Jitter Buffer - Maximum** Set the maximum G.729 Jitter Buffer.	0-270 ms	80
12	**Number of G.723 Audio Frame** Maximum number of the G.723 Audio Frame.	1 = 30 msec 2 = 60 msec	1
13	**G.723 Silence Compression (VAD) Mode** If enabled, RTP packets are not sent for the compressed silence.	0 = Disable 1 = Enable	0
14	**G.723 Jitter Buffer - Minimum** Set the minimum value of the G.723 Jitter Buffer.	0~270 ms	30
15	**G.723 Jitter Buffer - Standard** Set the average value of the G.723 Jitter Buffer.	0~270 ms	60
16	**G.723 Jitter Buffer - Maximum** Set the maximum value of the G.723 Jitter Buffer.	0~270 ms	120
17	**Jitter Buffer Mode** Set the mode of the Jitter Buffer. 1 = Size set to the fixed amount for the codec. 2 = The minimum/maximum range for the codec is used. 3 = The minimum/maximum range for the codec is used and adjust at any time, regardless of silence.	1 = static 2 = adaptive during silence 3 = adaptive immediately	3
18	**Silence Compression (VAD) Threshold** Set the voice level judged to be silence. Change value based –30 This entry is ignored if silence compression is disabled in 84-01-03 with G.711, or 84-01-06 with G.729.	0-30 (self-adjustment and -19db ~ +10db) 0 = self-adjustment 1:-19db (-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30:10dbm (-20dbm)	20
19	**Idle Noise Level** Set the noise level which is generated when silent.	5000-7000 (-5000 ~ -7000dbm) 5000 = -5000dbm : 7000 = -7000dbm	7000
20	**Echo Canceller Mode** Determine whether or not to use Echo canceller.	0 = Disable 1 = Enable	1

Program 84 : Hardware Setup for VoIP
84-19 : SIP Extension Codec Information Basic Setup

Item No.	Item	Input Data	Default
21	**Signal Limiter Mode** Select the signal limiter mode.	• 1 = Mode 0n (No Limitation) • 2 = Mode 1 (Limitation is the Maximum) • 3 = Mode 2 (Limitation size) • 4 = Mode 3 (Limited) • 5 = Mode 4 (Reduced Limitation) • 6 = Mode 5 (Minimum Limitation)	6
22	**Echo Canceller NLP Mode** Non-linear processing mode. Use this option to select the mode for NLP (2 wure = analog trunk and 4-wire indicates digital trunk). When the NLP mode is enabled, the voice with low level is replaced with the NLP noise. As a result, a low echo of the level is usually removed compared with the conversation level.	0 = 2-wire and 4-wire 1 = 2-wire only	1
23	**- Not Used -**	-	-
24	**Echo Canceller NLP Noise Setting** Becomes invalid item if 84-12-22 is set to Disabled. Set the noise level adjusting method added with NLP. When “0” is set, the level is self-adjusted - when “1” is set, Program 84-19-23 is used.	0 = adaptive 1 = fixed	0
25	**- Not Used -**	-	-
26	**TX (Transmit) Gain** Define the setting to amplify and to attenuate the size of the transmission voice. The gain given when the voice packet is sent from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0 dbm)
27	**RX (Receive) Gain** Define the setting to amplify and to attenuate the size of the received voice. The gain given when the voice packet is received from the VOIPDB is set.	0-40 (-20~+20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0dbm)

Item No.	Item	Input Data	Default
28	**Priority Codec Setting** The option selected here determines what other codec options are applied by priority.	0 = G711 PT 1 = G723 PT 2 = G729 PT 3 = G.722 4 = G.726 5 = iLBC	0
29	***- Not Used with Software 1.a7+ -*** **Echo Canceller Config Type** The type is defined in Program 84-17. • 0: Automatic If the call is analog (e.g. COIU or 2-wire tie line) then this selects the echo canceller profile configured in Program 84-17 Type 4 (“Analog Path Setting”). Any other call selects the echo canceller profile configured in Program 84-17 Type 5 (“Digital Path Setting”). Note that the 4-wire tie line is treated as digital. • 1: Type 1 This selects the echo canceller profile configured in Program 84-17 Type 1. • 2: Type 2 This selects the echo canceller profile configured in Program 84-17 Type 2. • 3: Type 3 This selects the echo canceller profile configured in Program 84-17 Type 3.	0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	**EchoAuto Gain Control** Define the Auto Gain Control.	0 - 5	0
31	**DTMF Payload Number** Define the DTMF Payload Number.	96-127	96
32	**DTMF Relay Mode** Determine the DTMF setup used between the SIP extensions. It is effective when a terminal call is made through the VOIPDB.	0 = Disable 1 = RFC2833	0
33	**G.722 Audio Frame** Maximum number of G.722 Audio Frames. G.722 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 64kbps by the encoding compressed method.	1 = 10ms 2 = 20ms 3 = 30ms 4 = 40ms	3
34	**G.722 Silence Compression Mode** Select whether to compress silence with G.722. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
35	**G.722 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.722 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
36	**G.722 Jitter Buffer - Standard** Set the average G.722 Jitter Buffer.	0-160 ms	60

Item No.	Item	Input Data	Default
37	**G.722 Jitter Buffer - Maximum** Set the maximum G.722 Jitter Buffer.	0-160ms	120
38	**G.726 Audio Frame** Maximum number of G.726 Audio Frames. G.726 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 32kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
39	**G.726 Silence Compression (VAD) Mode** Select whether to compress silence with G.726. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
40	**G.726 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.726 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
41	**G.726 Jitter Buffer - Standard** Set the average G.726 Jitter Buffer.	0-160 ms	60
42	**G.726 Jitter Buffer - Maximum** Set the maximum G.726 Jitter Buffer.	0-160 ms	120
43	**iLBC Audio Frame** Maximum number of iLBC Audio Frames. iLBC assumes the frame of 10ms is a unit.	2 = 20 ms 3 = 30 ms 4 = 40 ms	3
44	**iLBC Silence Compression Mode** Select whether to compress silence with iLBC. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
45	**iLBC Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of iLBC is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
46	**iLBC Jitter Buffer - Standard** Set the average iLBC Jitter Buffer.	0-160 ms	60
47	**iLBC Jitter Buffer - Maximum** Set the maximum iLBC Jitter Buffer.	0-160 ms	120
48	**ILBC payload number** The payload number of iLBC is set. However, the same number as Item31 cannot be set.	96-127	98

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-19 (SIP Extension Codec Information Setup):

1. Enter the programming mode.
2. 84 19

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-20 : SIP Extension Basic Information Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-20 : SIP Extension Basic Information Setup** to define the basic options for the SIP extensions.

Input Data

Item No.	Item	Input Data	Default
01	**Registrar/Proxy Port** Set the Registrar/Proxy Port. (This entry should not be the same as the port entry in Program 84-14-06.)	1-65535	5070
02	**Session Timer Value** Set the Session Timer Value. This value should be higher than the entry made in Program 84-20-03.	0-65535 (0=session timer is OFF)	180
03	**Minimum Session Timer Value** Set the Minimum Session Timer. This entry is used unless Program 84-20-02 is set to “0”. The recommended value is 180.	0-180 seconds	180
04	**Called Party Information** Set the Called Party Information.	0=Request URI 1=TO header	0
05	**Expire Value of Invite** Set the Expire Value of Invite. Arrival of a message is ended when this time is exceeded and there is no response from the call.	0-256 seconds	180
06	**Expire Value of Invite (Send)** Set the Expire Value of Invite (send).	0-3600 seconds	180

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-20 (SIP Extension Basic Information Setup):

1. Enter the programming mode.
2. 84 20

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-22 : SIP MLT Logon Information Setup

Level:	Feature Availability
IN	• Available.

Description

Use to define the log on information for IP terminals. This program is used only when "Automatic Logon" is set in Program 10-46-01.

Input Data

Personal ID Index	1-512

Item No.	Item	Input Data	Default
01	**Personal User ID** Define the personal ID for the extension when log on is set. This option is only used when Program 10-46-01 is set to "Auto" or "Manual".	Up to 32 Alphanumeric Characters	None
02	**Password** Define the password for the extension when log on is set. This option is only used when Program 10-46-01 is set to "Auto" or "Manual". The entry displays as "*" when entered.	Up to 16 Alphanumeric Characters	None
03	**Personal User ID Omission** Determine whether the personal ID for a terminal is automatically entered when logging on again. This option is only used when Program 10-46-01 is set to "Manual".	0 = Off 1 = On	0
04	**Log Off** Define whether a user will be required to log off. This option is only used when Program 10-46-01 is set to "Manual".	0 = Off 1 = On	1
05	**Nickname** Define the name related to personal ID that is viewable to other users. Each nickname should be unique in the UX5000.	Up to 32 Alphanumeric Characters	None

Conditions

None

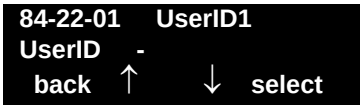
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-22 (SIP MLT Logon Information Setup):

1. Enter the programming mode.
2. 84 22



3. Enter the number of the item you want to program.

4. Enter the User ID number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-23 : SIP MLT Basic Information Setup

Level:	Feature Availability
IN	• Available.

Description

Use to set the basic information for IP terminals.

Input Data

Item No.	Item	Input Data	Default
01	**Registration Expires Timer** When outside an effective range or the Expire value is not set, determine how long the UX5000 should wait before the registration expires for a IP terminal.	60 - 65535 (sec)	180
02	**Subscribe Expires Timer** Set the timer for a session to send and receive the terminal operation instructions between a main device and the IP terminal.	60 - 65535 (sec)	3600
03	**Session Expires Timer** Define how long a session will last without voice. An entry of “0” disables this option. This value should be set higher than Program 84-23-04.	0 - 65535 (sec)	180
04	**Minimum Session Expires Timer** Set the minimum value of time the UX5000 waits for the voice. This option is used except when Program 84-23-03 is set to "0".	0 - 65535(sec)	180
05	**INVITE Expires Timer** Set the Expire Value of Invite. Arrival of a message is ended when this time is exceeded and there is no response from the IP terminal.	0 - 65535(sec)	180
06	**Signal ToS** Set the ToS value applied from the IP terminal to the SIP message packet sent to a main device.	0x00 - 0xFF (0~9,A~F)	00
07	**LCD Error Display Timer** Define the display time of an error message when registration of the IP terminal fails.	0 - 65535 (sec) (0 = Until Soft Key pressed)	0
08	**Digest Authorization Registration Expires Timer** Define the expiration time of the REGISTER message for the Digest Authorization received from the IP terminal. This interval is for the authentication of the update registration for security.	0 - 4294967295 (sec)	0
09	**Temporary Password** Define the Temporary Password for the encryption.	Character string of 16 characters or less (0~9, a~f, A~F)	None

Item No.	Item	Input Data	Default
10	**Password Frequency** Define the number of times the password can be entered at a protected terminal.	0 = There is no limitation 1-255	0
11	**Password Lock Time** Define the number of times the password can be entered incorrectly at a protected terminal.	0 = There is no limitation 1-255	0
12	**Tracking Number** Define the Manager's telephone number.	Dial of 32 digits or less (0-9,*,#,P,R,@)	None
13	**Media ToS** Set the ToS value applied from the IP terminal to the RTP packet sent to a main device.	0x00 - 0xFF (0~9,A~F)	00
14	**REFER Expires Timer** Set the session effective time of UX5000 REFER forwarding.	0 - 65535(sec)	60

Conditions

None

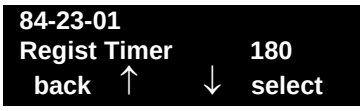
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-23 (SIP MLT Basic Information Setup):

1. Enter the programming mode.
2. 84 23



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-24 : SIP-MLT Codec Information Basic Setup

Level:
IN

Feature Availability
• Available.
• Program 84-24-29 deleted with software 1.a7+.

Description

Use **Program 84-24 : SIP-MLT Codec information Basic Setup** to define the codec information for the SIP multi-line terminals.

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 Frame** Maximum number of G711 Audio Frames. When the voice is encoded using the PCM (Pulse Code Modulation) method, a unit is a frame of 10ms.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	2
02	**G.711 Silence Detection (VAD) Mode** Select whether to compress silence with G.711. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
03	**G.711 Type** Set the type of G.711.	0 = A-law 1 = þµ-law	1
04	**G.711 Jitter Buffer - Minimum** Set the minimum value of the G.711 Jitter Buffer.	0~160 ms	20
05	**G.711 Jitter Buffer - Standard** Set the average value of the G.711 Jitter Buffer.	0~160 ms	40
06	**G.711 Jitter Buffer - Maximum** Set the maximum value of the G.711 Jitter Buffer.	0~160 ms	80
07	**G.729 Audio Frame** Maximum number of G729 Audio Frames. G.729 assumes the audio signal made by a specimen by 8kHz and the frame of 10ms is assumed to be a unit to 8kbps by the encoding compressed method.	1-4 (1 = 10ms, 2 = 20ms, etc.)	2
08	**G.729 Silence Compression (VAD) Mode** Select whether to compress silence with G.729. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0

Item No.	Item	Input Data	Default
09	**G.729 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.729 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-270 ms	20
10	**G.729 Jitter Buffer - Standard** Set the average G.729 Jitter Buffer.	0-270 ms	40
11	**G.729 Jitter Buffer - Maximum** Set the maximum G.729 Jitter Buffer.	0-270 ms	80
12	***- Not Used -***		
13	***- Not Used -***		
14	***- Not Used -***		
15	***- Not Used -***		
16	***- Not Used -***		
17	**Jitter Buffer Mode** Set the mode of the Jitter Buffer. 1 = Size set to the fixed amount for the codec. 2 = The minimum/maximum range for the codec is used. 3 = The minimum/maximum range for the codec is used and adjust at any time, regardless of silence.	1 = static 2 = adaptive during silence 3 = adaptive immediately	3
18	**Silence Compression (VAD) Threshold** Set the voice level judged to be silence. Change value based –30 This entry is ignored if silence compression is disabled in 84-01-03 with G.711, or 84-01-06 with G.729.	0-30 (self-adjustment and -19db ~ +10db) 0 = self-adjustment 1:-19db (-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30:10dbm (-20dbm)	20
19	**Idle Noise Level** Set the noise level which is generated when silent.	5000-7000 (-5000 ~ -7000dbm) 5000 = -5000dbm : 7000 = -7000dbm	7000
20	**Echo Canceller Mode** Determine whether or not to use Echo canceller.	0 = Disable 1 = Enable	1

Item No.	Item	Input Data	Default
21	**Signal Limiter Mode** Select the signal limiter mode.	Type = 1-5 Mode: • 1 = Mode 0n (No Limitation) • 2 = Mode 1 (Limitation is the Maximum) • 3 = Mode 2 (Limitation size) • 4 = Mode 3 (Limited) • 5 = Mode 4 (Reduced Limitation) • 6 = Mode 5 (Minimum Limitation)	6
22	**Echo Canceller NLP Mode** Non-linear processing mode. Use this option to select the mode for NLP (2 wure = analog trunk and 4-wire indicates digital trunk). When the NLP mode is enabled, the voice with low level is replaced with the NLP noise. As a result, a low echo of the level is usually removed compared with the conversation level.	Type = 1-5 Mode: 0 = 2-wire and 4-wire 1 = 2-wire only	1
23	**- Not Used -**	-	-
24	**Echo Canceller NLP Noise Setting** Becomes invalid item if 84-24-22 is set to Disabled. Set the noise level adjusting method added with NLP. When “0” is set, the level is self-adjusted - when “1” is set, Program 84-24-22 is used.	0 = adaptive 1 = fixed	0
25	**- Not Used -**	-	-
26	**TX (Transmit) Gain** Define the setting to amplify and to attenuate the size of the transmission voice. The gain given when the voice packet is sent from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0dbm)
27	**RX (Receive) Gain** Define the setting to amplify and to attenuate the size of the received voice. The gain given when the voice packet is received from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0dbm)

Item No.	Item	Input Data	Default
28	**Priority Codec Setting** The option selected here determines what other codec options are applied by priority.	0 = G711 PT 1 = Not Used 2 = G729 PT 3 = G.722 PT	0
29	***- Not Used with Software 1.a7+ -*** **Echo Canceller Config Type** The type is defined in Program 84-17. • 0: Automatic If the call is analog (e.g. COIU or 2-wire tie line) then this selects the echo canceller profile configured in Program 84-17 Type 4 (“Analog Path Setting”). Any other call selects the echo canceller profile configured in Program 84-17 Type 5 (“Digital Path Setting”). Note that the 4-wire tie line is treated as digital. • 1: Type 1 This selects the echo canceller profile configured in Program 84-17 Type 1. • 2: Type 2 This selects the echo canceller profile configured in Program 84-17 Type 2. • 3: Type 3 This selects the echo canceller profile configured in Program 84-17 Type 3.	0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	**EchoAuto Gain Control** Define the Auto Gain Control.	0 - 5	0
31	**- Not Used -**	-	-
32	**G.722 Audio Frame** Maximum number of G.722 Audio Frames. G.722 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 64kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
33	**G.722 Silence Compression Mode** Select whether to compress silence with G.722. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
34	**G.722 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.722 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
35	**G.722 Jitter Buffer - Standard** Set the average G.722 Jitter Buffer.	0-160 ms	60
36	**G.722 Jitter Buffer - Maximum** Set the maximum G.722 Jitter Buffer.	0-160 ms	120

Conditions

When any of these program options are changed, the VOIPD will be reset automatically. The UX5000 will allow any active calls to finished and it will prevent any new resources from being secured until the card is reset.

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-24 (SIP-MLT Codec Information Setup):

1. Enter the programming mode.
2. 84 24

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 84 : Hardware Setup for VoIP
84-25 : CygniLink Codec Information Basic Setup

Level:
IN

Feature Availability
• Available.
• Program 84-25-29 deleted with software 1.a7+.

Description

Use **Program 84-25 : CygniLink Codec information Basic Setup** to define the codec information for the CygniLink feature.

Input Data

Item No.	Item	Input Data	Default
01	**Number of G.711 Audio Frame** Maximum number of G711 Audio Frames. When the voice is encoded using the PCM (Pulse Code Modulation) method, a unit is a frame of 10ms.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
02	**G.711 Silence Detection (VAD) Mode** Select whether to compress silence with G.711. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
03	**G.711 Type** Set the type of G.711.	0 = A-law 1 = þµ-law	1
04	**G.711 Jitter Buffer - Minimum** Set the minimum value of the G.711 Jitter Buffer.	0~ ms	30
05	**G.711 Jitter Buffer - Standard** Set the average value of the G.711 Jitter Buffer.	0~ ms	60
06	**G.711 Jitter Buffer - Maximum** Set the maximum value of the G.711 Jitter Buffer.	0~ ms	120
07	**G.729 Audio Frame** Maximum number of G729 Audio Frames. G.729 assumes the audio signal made by a specimen by 8kHz and the frame of 10ms is assumed to be a unit to 8kbps by the encoding compressed method.	1-6 (1 = 10ms, 2 = 20ms, etc.)	3
08	**G.729 Silence Compression (VAD) Mode** Select whether to compress silence with G.729. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
09	**G.729 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.729 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0- ms	30
10	**G.729 Jitter Buffer - Standard** Set the average G.729 Jitter Buffer.	0- ms	60

Item No.	Item	Input Data	Default
11	**G.729 Jitter Buffer - Maximum** Set the maximum G.729 Jitter Buffer.	0- ms	120
12	**Number of G.723 Audio Frame** Maximum number of the G.723 Audio Frame.	1 = 30 msec 2 = 60 msec	1
13	**G.723 Silence Compression (VAD) Mode** If enabled, RTP packets are not sent for the compressed silence.	0 = Disable 1 = Enable	0
14	**G.723 Jitter Buffer - Minimum** Set the minimum value of the G.723 Jitter Buffer.	0~ ms	30
15	**G.723 Jitter Buffer - Standard** Set the average value of the G.723 Jitter Buffer.	0~ ms	60
16	**G.723 Jitter Buffer - Maximum** Set the maximum value of the G.723 Jitter Buffer.	0~ ms	120
17	**Jitter Buffer Mode** Set the mode of the Jitter Buffer. 1 = Size set to the fixed amount for the codec. 2 = The minimum/maximum range for the codec is used. 3 = The minimum/maximum range for the codec is used and adjust at any time, regardless of silence.	1 = static 2 = adaptive during silence 3 = adaptive immediately	3
18	**Silence Compression (VAD) Threshold** Set the voice level judged to be silence. Change value based –30 This entry is ignored if silence compression is disabled in 84-01-03 with G.711, or 84-01-06 with G.729.	0-30 (self-adjustment and -19db ~ +10db) 0 = self-adjustment 1:-19db (-49dbm) : 20 = 0db (-30dbm) : 29 = 9dbm (-21dbm) 30:10dbm (-20dbm)	20
19	**Idle Noise Level** Set the noise level which is generated when silent.	5000-7000 (-5000 ~ -7000dbm) 5000 = -5000dbm : 7000 = -7000dbm	7000
20	**Echo Canceller Mode** Determine whether or not to use Echo canceller.	0 = Disable 1 = Enable	1

Item No.	Item	Input Data	Default
21	**Signal Limiter Mode** Select the signal limiter mode.	• 1 = Mode 0n (No Limitation) • 2 = Mode 1 (Limitation is the Maximum) • 3 = Mode 2 (Limitation size) • 4 = Mode 3 (Limited) • 5 = Mode 4 (Reduced Limitation) • 6 = Mode 5 (Minimum Limitation)	6
22	**Echo Canceller NLP Mode** Non-linear processing mode. Use this option to select the mode for NLP (2 wure = analog trunk and 4-wire indicates digital trunk). When the NLP mode is enabled, the voice with low level is replaced with the NLP noise. As a result, a low echo of the level is usually removed compared with the conversation level.	0 = 2-wire and 4-wire 1 = 2-wire only	1
23	**- Not Used -**	-	-
24	**Echo Canceller NLP Noise Setting** Becomes invalid item if 84-24-22 is set to Disabled. Set the noise level adjusting method added with NLP. When “0” is set, the level is self-adjusted - when “1” is set, Program 84-01-27 is used.	0 = adaptive 1 = fixed	0
25	**- Not Used -**	-	-
26	**TX (Transmit) Gain** Define the setting to amplify and to attenuate the size of the transmission voice. The gain given when the voice packet is sent from the VOIPDB is set.	0-40 (-20 ~ +20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0dbm)
27	**RX (Receive) Gain** Define the setting to amplify and to attenuate the size of the received voice. The gain given when the voice packet is received from the VOIPDB is set.	0-40 (-20~+20) 0 = -20 dbm 1 = -19 dbm : 20 = 0 dbm : 39 = 19 dbm 40 = 20 dbm	20 (0dbm)

Item No.	Item	Input Data	Default
28	**Priority Codec Setting** The option selected here determines what other codec options are applied by priority.	0 = G711 PT 1 = G723 PT 2 = G729 PT 3 = G.726 4 = G.722 5 = iLBC	0
29	***- Not Used with Software 1.a7+ -*** **Echo Canceller Config Type** The type is defined in Program 84-17. • 0: Automatic If the call is analog (e.g. COIU or 2-wire tie line) then this selects the echo canceller profile configured in Program 84-17 Type 4 (“Analog Path Setting”). Any other call selects the echo canceller profile configured in Program 84-17 Type 5 (“Digital Path Setting”). Note that the 4-wire tie line is treated as digital. • 1: Type 1 This selects the echo canceller profile configured in Program 84-17 Type 1. • 2: Type 2 This selects the echo canceller profile configured in Program 84-17 Type 2. • 3: Type 3 This selects the echo canceller profile configured in Program 84-17 Type 3.	0 = Auto 1 = Type 1 2 = Type 2 3 = Type 3	0
30	**EchoAuto Gain Control** Define the Auto Gain Control.	0 - 5	0
31	**DTMF Relay Mode** Determine the DTMF setup. Selecting “1” enables RFC2833 and is initially set in Program 84-27-02.	0 = Disable 1 = Enable	0
32	**FAX Relay** Select "2" for FAX Relay to SLT (Program 15-03-03:special), Trunk and CygniLink. Refer to Program 84-01-36 through 84-01-58 for FAX Relay options.	0 = Disable 1 = Enable 2 = Each Port Mode	0
33	**G.722 Audio Frame** Maximum number of G.722 Audio Frames. G.722 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 64kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
34	**G.722 Silence Compression Mode** Select whether to compress silence with G.722. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
35	**G.722 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.722 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30

Item No.	Item	Input Data	Default
36	**G.722 Jitter Buffer - Standard** Set the average G.722 Jitter Buffer.	0-160 ms	60
37	**G.722 Jitter Buffer - Maximum** Set the maximum G.722 Jitter Buffer.	0-160 ms	120
38	**G.726 Audio Frame** Maximum number of G.726 Audio Frames. G.726 assumes the audio signal made by a specimen by 16kHz and the frame of 10ms is assumed to be a unit to 32kbps by the encoding compressed method.	1 = 10 ms 2 = 20 ms 3 = 30 ms 4 = 40 ms	3
39	**G.726 Silence Compression Mode** Select whether to compress silence with G.726. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
40	**G.726 Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of G.726 is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
41	**G.726 Jitter Buffer - Standard** Set the average G.726 Jitter Buffer.	0-160 ms	60
42	**G.726 Jitter Buffer - Maximum** Set the maximum G.726 Jitter Buffer.	0-160 ms	120
43	**iLBC Audio Frame** Maximum number of iLBC Audio Frames. iLBC assumes the frame of 10ms is a unit.	2 = 20 ms 3 = 30 ms 4 = 40 ms	3
44	**iLBC Silence Compression Mode** Select whether to compress silence with iLBC. When there is silence, the RTP packet is not sent.	0 = Disable 1 = Enable	0
45	**iLBC Jitter Buffer - Minimum** Set the minimum value of the Jitter Buffer of iLBC is set. Jitter is the variation in the time between packets arriving and the buffer allows this variation to be absorbed.	0-160 ms	30
46	**iLBC Jitter Buffer - Standard** Set the average iLBC Jitter Buffer.	0-160 ms	60
47	**iLBC Jitter Buffer - Maximum** Set the maximum iLBC Jitter Buffer.	0-160 ms	120
48	Set the payload number of iLBC. This entry cannot be the same number as Item 31.	96-127	98

Conditions

When any of these program options are changed, the VOIPD will be reset automatically. The UX5000 will allow any active calls to finished and it will prevent any new resources from being secured until the card is reset.

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-19 (SIP Extension Codec Information Setup):

1. Enter the programming mode.
2. 84 19

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-26 : VOIPDB Setup for Each DSP** to setup the details for each DSP. One DSP is required for each IP license needed.

If this program is not set, it could cause one-way conversations to standard terminsl, trunks, or voice mail.

Input Data

Slot Number	1
VoIP Gateway Number	1-8

Item No.	Item	Input Data	Default
01	**Internet Protocol Address** Define the IP address of each DSP on a VOIPDB. The third byte of an initial value of Internet Protocol address becomes equal with the value of System ID set by 51-01-01. Example: System ID = For Slot1 of one : 172.16.1.20	0.0.0.1 ~ 126.255.255.254 128.0.0.1 ~ 191.255.255.254 192.0.0.1 ~ 223.255.255.254	Slot 1: 172.16.0.20
02	**RTP Port Number** Set the UPD port number to be used for RTP traffic.	0-65534	GW1: 10020 GW2: 10052 GW3: 10084 GW4: 10116 GW5: 10148 GW6: 10180 GW7: 10212 GW8: 10244
03	**RTCP Port Number** This must be set to RTP Port Number (item 02) + 1.	RTP Port Number + 1	GW1: 10021 GW2: 10053 GW3: 10085 GW4: 10117 GW5: 10149 GW6: 10181 GW7: 10213 GW8: 10245

Conditions

- The VOIPDB must be reset after making changes to this program or new calls will not be accepted.
- The subnet mask of each DSP core is automatically set by the UX5000 and cannot be set manually.

Program 84 : Hardware Setup for VoIP
84-26 : VOIPDB Setup for Each DSP

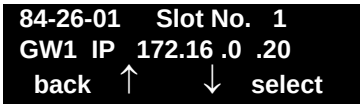
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-26 (VOIPDB Setup):

1. Enter the programming mode.
2. 84 26



3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-27 : VOIPDB Setup** to define the basic options for the VoIP daughter board.

Input Data

Slot Number	1

Item No.	Item	Input Data	Default
01	**DTMF Relay Setting** If option 1 is selected (In-Band DTMF Relay), it is not reported to the host processor. If option 2 is selected (Out-of-Band DTMF Relay), tones are not passed as voice.	0 = DTMF Relay Disabled 1 = In-Band DTMF Relay 2 = Out-of-Band DTMF Relay	2
02	**Codec Mode Setting (G.723/iLBC Use Mode)** The codec mode must be set. Modes cannot be simultaneous. When a mode is selected, there may be a limitation on the number of channels available.	0 = Default 1 = Mode 1 (G.723/iLBC)	0
03	**SRTP Mode Setting** If this option is enabled, there may be a limitation on the number of channels available.	0 = Disabled 1 = Enabled	0
04	**SRTP Encryption Method** Set the Encryption method used.	0 = Mode 1	0
06		0-65535	10100
07		0-65535	4000

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-27 (VOIPDB Setup):

1. Enter the programming mode.
2. 84 27

   ```
   84-27-01    Slot No.  1
   DTMF RelaySetup2:OutBand
    back  ↑      ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   84-27-nn    Slot No.  n
   nnnnn
     ←              →
   ```

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-28 : SIP MLT Firmware Name Setup** to set the firmware name of IP terminal for download.

Input Data

Terminal Type	1 = 2-Button or 6-Button Value Terminal 2 = 8/12/24-Button Enhanced Terminal 3 = IP-CTS Terminal

Item No.	Item	Input Data	Default
01	**Firmware Directory** Define the directory where the downloaded firmware file is stored.	Max. 64 Characters	There is no setting.
02	**Firmware File Name** Define the name of the firmware file to download.	Max. 30 Alphanumeric Characters	There is no setting.

Conditions

None

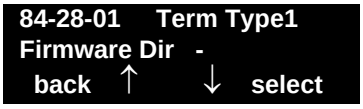
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-28 (SIP MLT Firmware Name Setup):

1. Enter the programming mode.
2. 84 28



3. Enter the number of the item you want to program.

4. Enter the terminal type number to be defined or press FLASH to use the displayed entry.
5. Enter the terminal type number to be defined or press FLASH to use the displayed entry.
6. Enter data for the item you selected + HOLD.
7. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 84-29 : SIP-MLT Codec Information Fixed Mode Setup** to set codec information of the SIP-MLT when the multicast is used.

Input Data

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

Item No.	Item	Input Data	Default
01	**Audio Capability** Set the codec to be used.	1 = G.711 A-law 2 = G.711 u-law 3 = G.729 4 = G.723 5 = G722	2
02	**Number of Audio Frames**	1 - 6 (1 = 10ms, 6 = 60ms)	2

Conditions

None

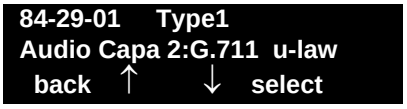
Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 84-29 (SIP-MLT Codec Information Fixed Mode Setup):

1. Enter the programming mode.
2. 84 29

3. Enter the number of the item you want to program.

4. Select the type number to be programmed by pressing the FLASH or the VOLUME ▲ or VOLUME ▼ keys.
5. Enter the type number to be defined or press FLASH to use the displayed entry.
6. Enter data for the item you selected + HOLD.
7. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-01 : Installation Date** to define the installation date of UX5000.

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

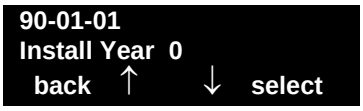
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-01 (Installation Date):

1. Enter the programming mode.
2. 90 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-02 : Setting the Programming Password

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-02 : Setting the Programming Password** to set the UX5000 passwords. For password entry purposes, the UX5000 allows 8 users to be defined. Each user can have a:

- Unique alphanumeric name (up to 10 alphanumeric characters long.
- Password entry of up to 8 digits (using 0-9, # and *)
- Password level

The "IN" level password is used by the "System Installer" for UX5000 programming purposes. 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's 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.)

Use UA level password allows all of the user-programmable options to be changed when accessing the UX5000 using the UserPro feature.

!! Caution !!
It is NOT recommended to change this data unnecessarily. If the digits are changed and then forgotten, there may be no normal way to enter the program mode again.

Input Data

User Number	1-8

Item No.	Item	Input Data
01	User Name	Max. 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 (UserPro UA level)

Default

User No.	User Name	Password	Level	Level Description
2	UX5000	12345678	2 (IN)	Installer Level - Access to all programs 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 Administrator Level
6	-- Not Used --	-- Not Used --	-	
7	-- Not Used --	-- Not Used --	-	
8	-- Not Used --	-- Not Used --	-	

Conditions

More than one extension can be in the programming mode.

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-02 (Setting the Programming Password):

1. Enter the programming mode.
2. 90 02

   90-02-01 User1
   User name -NEC-I
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-02-nn Usern
   nnnnn
   ← – + →

4. Enter the User number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-03 : Save Data

Level:
SA

Feature Availability
• Available.

Description

Use **Program 90-03 : Save Data** to save the programmed data on the SRAM and Flash ROM to the USB stick connected to the CCPU card. This program should be used after changing the programmed data.

Input Data

Item No.	Item	Input Data
01	Save Data	Dial 1 and HOLD (Press only HOLD key to cancel)

Conditions

- When reloading a customer database, the UX5000 must be reset (either using Program 90-08 or power down/power up) before all uploaded programming will take affect.
- This program is only available in terminal programming.

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-03 (Save Data):

1. Enter the programming mode.
2. 90 03

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 90-04 : Load Data** to load the UX5000 data from the inserted Compact Flash Memory to the SRAM and Flash ROM in the UX5000.

Input Data

Item No.	Item	Input Data
01	Load Data	Dial 1 and HOLD (Press only HOLD key to cancel)

Conditions

- After uploading the programming, reset the UX5000 and wait a few minutes for the UX5000 to reset completely before accessing any lines or special UX5000 features. Otherwise, some unusual LED indications may be experienced.
- This program is only available in terminal programming.

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-04 (Load Data):

1. Enter the programming mode.
2. 90 04

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-05 : Slot Control** to reset, delete (uninstall), block or release block for circuit boards (slots 1-24).

Delete allows you to completely uninstall the blade. You might want to 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 card is being installed into a slot previously used (example; changing from a COIU to an ESIU blade), the slot should be deleted (option 1) first before installing the new interface card.

Reset allows you to send a reset code.

This program is also used when you wish to block traffic on a blade. This would be used when you wish to remove a blade from the UX5000. Blocking the blade allows active users on the blade to complete their call, but prevents and new users from seizing the extension/trunk on that blade. ***Be sure to release the block once the blade can be used.***

Input Data

System ID	00-50
Menu Number	1 = Delete 2 = Reset 3 = Set Block (Set Busy Out) 4 = Release Block (Reset Busy Out)

Item No.	Item	Input Data
01	Slot Control	Slot Number (0-24)

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 UX5000 before the UX5000 will use the slot again.
- When a blade is switched to another slot, first remove the blade and delete it using this program. Prior to plugging the blade into its new slot, reset the UX5000. Without resetting the UX5000, there may be issues with port assignment for the blade.
- This program is only available in terminal and WebPro programming.

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-05 (Slot Control):

1. Enter the programming mode.
2. 90 05

3. Enter the number of the item you want to program.

4. Enter the Menu number to be defined or press FLASH to use the displayed entry.
5. Enter the slot number for the blade + HOLD.

   The slot is deleted, reset, blocked, or released, depending on the menu option selected. If the blade is deleted, the display will advance to 90-06.
6. Press MIC once to enter a new item number.

   OR

   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 90-06 : Trunk Control** is used for the 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/Release Busy Out

Item No.	Item	Input Data	Default
01	Trunk Control	Trunk Port Number: 001-200	1

Conditions

This program is only available in terminal and WebPro programming.

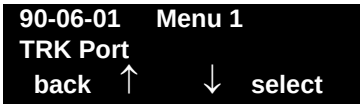
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-06 (Trunk Control):

1. Enter the programming mode.
2. 90 06



3. Enter the number of the item you want to program.

4. Enter the Menu number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
SA	• Available.

Description

Use **Program 90-07 : Extension Control** is used for the extension maintenance.

Input Data

Menu Number	1 = Hardware Reset 2 = Software Reset

Item No.	Item	Input Data
01	Extension Control	Extension Number (up to 8 digits)

Conditions

This program is only available in terminal and WebPro programming.

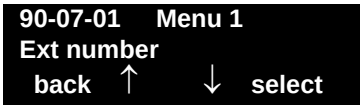
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-07 (Extension Control):

1. Enter the programming mode.
2. 90 07



3. Enter the number of the item you want to program.

4. Enter the Menu number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-08 : System Reset

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-08 : System Reset** is used to perform a UX5000 reset.

Input Data

Item No.	Item	Input Data
01	System Reset	Dial 1 and HOLD (Press only HOLD key for cancel)

Conditions

After restoring a customer database, the UX5000 must be reset using Program 90-08 or by powering down/powering up before all the restored programming will take affect.

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-08 (System Reset):

1. Enter the programming mode.
2. 90 08

3. Enter the number of the item you want to program.

4. Dial 1 + HOLD to reset the UX5000 or press HOLD to cancel.
5. Press MSG until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-09 : Automatic System Reset Time** to define the time the UX5000 will 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 has been set, the UX5000 will automatically be reset every month of defined day.

Note 2. If the Day is set to "00" and the Time (Hour and Minute) has been set, the UX5000 will automatically be reset every day of defined time.

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-09 (Automatic System Reset Time):

1. Enter the programming mode.
2. 90 09

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-10 : System Alarm Setup** to assign a status to UX5000 alarms. You can designate an alarm as Major or Minor. This program also assigns whether or not the alarm is displayed to a key 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 reported (No auto-dial) 1 = Report (auto-dial)

Default

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
1	2 (MIN)	0	Board Initialization Error • Initialization failure. • Blade is defective. • Slot previously defined for another blade.	• Remove and reinstall the blade. • After removing the blade, delete the slot (Program 90-05) and reinsert the blade. • If not corrected, replace with a new blade.	
2	2 (MIN)	0	Board Initial Test Error • blade is not the correct capacity for the previously defined slot. • blade is out of order.	• Remove and reinstall the blade. • If not corrected, replace with a new blade.	

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
3	2 (MIN)	0	Communication Error Between CPU and blade • Blade is not the correct capacity for the previously defined slot. • The power supply voltage is not within the correct range. • Power supply noise. • Noise from surrounding equipment. • Improper earth ground.	• Remove and reinstall the blade. • Check the power supply with a voltmeter for proper voltage and replace if needed. • Move external equipment as far away from the chassis as possible. • Correct the UX5000 grounding.	SID:XX-### MM/DD HH:MM NTCPU Layer1 link error
4	2 (MIN)	0	Download Error for the blade Firmware • blade software not stored in the downloaded USB memory. • Illegal blade software. • Previously installed blade software remains.	• Use Program 90-05-01 to delete the blade. • Reload software for blade from USB memory. • Remove and reinstall the blade. If not corrected, replace with a new blade.	
5	1 (MAJ)	0	Cooling Fan Error	Check the fan operation.	
6	0	0	Blade Blocking • blade has been blocked in software. • Terminal wiring not connected or faulty. • External noise. • ESIU blade is defective.	Check the wiring and installation connections for the blade and terminal(s).If not corrected, replace with a new blade.	
7	1 (MAJ)	0	Power Failure • UX5000 unplugged. • Power supply may be defective. • Commercial power is off.	Check the UX5000 AC switch, fuse and AC outlet. If still faulty, replace the power supply.	SID:XX-### MM/DD HH:MM Power failure. Battery operation
8	1 (MAJ)	0	RAM Backup Battery Error • RAM backup battery on the CPRU blade is unplugged or defective.	Check the battery connector. If it is connected correctly, then replace the battery.	
9	0	0	-- Not Used --		
10	0	0	ISDN Link Error • Layer link line(s) removed. • DSU defective. • Program 10-03 not programmed correctly for trunk.	• Check the wiring and installation connections for the DSU and blade. • Check Program 10-03 for trunk(s). • If not corrected, replace with a new blade.	

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
11	0	0	CTI Link Error • Link to the CTI server removed. • Connect HUB defective. • CTI server not started correctly.	Check the CTI server, wiring, and connection.	
12	0	0	ACD MIS Link Error • Link with the ACD MIS client removed. • Connect HUB defective. • ACD MIS client PC not started correctly.	Check the ACD MIS client PC for connection.	
13	0	0	Charge Management Link Error (TMR) • Link with the charge management device removed. • Problem with the PC.	Check the wiring, connection, and PC.	
14	0	0	CPU-LAN Link Error • Link between the CPU and LAN removed. • Connect HUB defective. • CCPU defective.	• Reconfirm the LAN connector, the LAN wiring, and HUB. • Replace CCPU is required.	SID:XX-### MM/DD HH:MM NTCPU battery exchange
15	0	0	CygniLink Keep Alive Error • Link between the CPU and Network removed • Network side problem. • Packet blocked by fire-wall. • Repetition of IP address.	• Reconfirm the wiring. • Confirm the network is functioning properly. • Check the HUB and router settings and operation.	
16	0	0	SMDR LAN Link Error • Link between the CPU and SMDR removed.	Reconfirm the wiring.	
17	1	0	Denial of Service • The UX5000 received an illegal packet (service outage)	Confirm that the defect is on the network side.	
:	:	:	:		
28	0	0	-- Not Used --		

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
29	0	0	Charge Management (TMR) Buffer Full • The Charge Management buffer is full.	Check the printer and PC. Print, clear the data, or output data to the PC.	SID:XX-### MM/DD HH:MM The telephone call details preservation number remainder #### SID:XX-### MM/DD HH:MM The telephone call details data cannot be preserved. SID:XX-### MM/DD HH:MM Please connect PC.
30	2 (MIN)	0	SMDR Buffer Full • The SMDR buffer is full.	• Check the PC/printer for the SMDR. Restart the PC if necessary. • Check the wiring to the connected device.	SID:XX-### MM/DD HH:MM SMDR # full
31	0	0	-- Not Used --		
:	:	:	:		
49	0	0	-- Not Used --		
50	1 (MAJ)	0	UX5000 Startup Notification • The UX5000 is starting up.		
51	0	0	UX5000 Data Revision • UX5000 data has been rewritten.		
52	0	0	-- Not Used --		
53	0	0	-- Not Used --		
54	2 (MIN)	0	Application License Management Table Full • Maximum of 512 licenses for the TCP/IP terminals registered. A new terminal can not be added to application license management table.	Delete the license information for unnecessary TCP/IP terminals using Program 90-44.	
55	2 (MIN)	0	Regular Maintenance Exchange Notification • Day set in Program 90-51 has passed.	Perform required maintenance replacements and set the next maintenance exchange day in Program 90-51.	
56	0	0	-- Not Used --		
:	:	:			

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
59	0	0	-- Not Used --		
60	2 (MIN)	0	SIP Registration Error Notification • Registration of SIP trunk to SIP server failed. • No response from the SIP server to the SIP registration request. • Router programming incorrect. • Problem connecting to LAN or network.	• Reconfirm the programming in 10-12, 10-28, 10-29, 10-30, 10-36. • Reconfirm router settings. • Reconfirm network settings/operation. • Reconfirm the authentication UX5000 data. • Reconfirm UX5000 data, and wiring.	SID:XX-### MM/DD HH:MM SIP(##) registration request time-out SID:XX-### MM/DD HH:MM SIP(##) registration failure (###)
61	0	0	SIP Extension Error Notification • Error generated by IP terminal while communicating with the VOIPDB or IP terminal.	• Reconfirm the UX5000 data and wiring. • Confirm equipment operation (such as access points).	
62	0	0	DtermIP Error Notification • Registration of the SIP extension failed. • Unable to acquire DSP. • Packet loss occurred on network.	• Reconfirm the UX5000 data and wiring. • Confirm HUB operation.	
63	0	0	SIP-MLT Trouble Information • DSP resource not acquired. • Negotiation with VOIPDB failed. • Packet loss occurred on network.	• Confirm equipment wiring is correct. • Confirm HUB operation.	
64	1 (MAJ)	0	VOIPDB LAN Link Error • LAN cable removed. • HUB defective. • CCPU defective.	• Confirm LAN connector and wiring. • Confirm equipment operation.	
65	0	0	VOIPDB Trouble Information • Defective VOIPDB	Replace VOIPDB.	
66	2 (MIN)	0	SIP Extension License Error • Number of licenses exceeded for SIP terminals.	Confirm/increase number of licenses as needed.	

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
67	0	0	SIP Illegal Packet Received • The UX5000 received an illegal packet. A client or network is in an illegal state.	Check with the maker on uncertain points.	
:	:	:			
80	1 (MAJ)	0	CygniLink Start Error • Defective CCPU possible.	Replace CCPU.	
81	2 (MIN)	0	CygniLink Terminal Call Trouble Information • DSP resource not acquired.	Reconfirm wiring and UX5000 data.	
82	2 (MIN)	0	CygniLink Virtual Slot Accommodation Error • Exceeded slot accommodation. • Failure in creating virtual slot.	Number of slots exceeded.	
83	2 (MIN)	0	CygniLink Communication Error • Checksum error occurred. • Index error occurred. • Router setting incorrect. • LAN connection issue. • Network connection issue.	• Reconfirm router settings. • Reconfirm LAN connector and wiring. • Reconfirm network settings.	
84	2 (MIN)	0	CygniLink License Error • License error occurred relating to CygniLink. • Expiration date of the temporary license is approaching. • Temporary license nullified.	Confirm license information.	
85	2 (MIN)	0	CygniLink Node Connection Refusal • Connection of secondary refused in CygniLink. • System ID repeated. • System ID is illegal. • Number of licenses is insufficient. • Memory shortage.	Confirm the setting and license information for the system ID.	

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
86	2 (MIN)	0	Daughter Board Synchronization Fails • Database versions different preventing replication between UX5000s.	Confirm the versions of databases for the primary and secondary UX5000s using PCPro.	
87	2 (MIN)	0	Daughter Board Synchronization Fails • Error occurred in communication between primary and secondary UX5000s preventing replication. • LAN link between primary and secondary UX5000s disconnected.	Confirm the LAN link between the primary and secondary UX5000s.	
88	2 (MIN)	0	CygniLink Operation Phase Shift (Primary) • Operation began as primary.		
89	2 (MIN)	0	CygniLink Operation Phase shift (Secondary) • Operation began as secondary.		
90	2 (MIN)	0	CygniLink Operation Phase Shift (Search Mode) • Shifted to node search mode.		
91	2 (MIN)	0	Primary-Automatic Operation Integration • Primary auto-integration function performed.		
92	2 (MIN)	0	Primary Compulsion Specification • Primary compulsion specification function executed.		
93	2 (MIN)	0	CygniLink Node Connection Detection • Connection of the primary node for CygniLink was detected.		
94	2 (MIN)	0	CygniLink Node Secession Detection • Secession of the node was detected with the Primary for CygniLink.		

Alarm	Type	Report	Use to Advise Of...	Action	Keyset Display Shows . . . (SID: XX-*** MM/DD HH/MM XX = CygniLink System ID)
95	2 (MIN)	0	Database Replication Fails (Primary) • Since secondary is in program mode, replication of database cannot be executed.	Log out of programming (terminal programming, PCPro, WebPro) from the secondary UX5000.	
96	1 (MAJ)	0	Database recovery failure. • File error due to resource shortage.	Repeat recovery process after deleting extra files.	
97	1 (MIN)	0	Database recovery operation beginning		
98	1 (MIN)	0	Database recovery operation ending		
99	1 (MAJ)	0	CygniLink Configuration error (No MEMDB). • Program 51-01-01 is set without a MEMDB installed.	Install a MEMDB.	
100	0	0	-- Not Used --		

Conditions

- The following indicates the priority level (highest to lowest) for the alarms listed:
  -> Alarm 55 -> Alarm 7 -> Alarm 5 -> Alarm 30 -> Alarm 8 -> Alarm 52 -> Alarm 29 -> Alarm 14 -> Alarm 60 -> Free Demo License Period

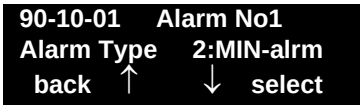
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-10 (System Alarm Setup):

1. Enter the programming mode.
2. 90 10



3. Enter the number of the item you want to program.

4. Enter the Alarm number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-11 : System Alarm Report

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-11 : System Alarm Report** to define the details of the UX5000 alarm report.

Input Data

Item No.	Item	Input Data	Default
01	**- Not Used -**	-	0
02	**Report Method** When alarm reports are to be EMailed, set this option to "1".	0 = No report 1 = EMail Address	0
04	**- Not Used -**	-	0
06	**SMTP Host Name** When alarm reports are to be EMailed, set the SMTP name (ex: smtp.yourisp.com) or IP address. 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 EMailed, set the SMTP host port number. Contact your ISP (internet service provider) for the correct entry if needed.	0-65535	25
08	**To EMail Address** When alarm reports are to be EMailed, set this EMail address to which the report should be sent.	Up to 255 Characters	No setting
09	**Reply Address** When alarm reports are to be EMailed, set this EMail address to which any replies should be EMailed.	Up to 255 Characters	No setting
10	**From Address** When alarm reports are to be EMailed, set this EMail address from which the report is being sent. This entry is required for EMailing alarms.	Up to 255 Characters	No setting
11	**DNS Primary Address** When alarm reports are to be EMailed, set the DNS primary address.	0.0.0.0-255.255.255.255	0.0.0.0

12	**DNS Secondary Address** When alarm reports are to be EMailed, 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 EMailed, enter a name which will be used to identify the particular system.	Up to 255 Characters	No setting

Conditions

None

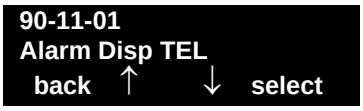
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-11 (System Alarm Setup):

1. Enter the programming mode.
2. 90 11



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-12 : System Alarm Output

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-12 : System Alarm Output** to set the options for the alarm report. This program has 6 separate menu options. Define the output port to be used as the output for UX5000 alarm report and set the UX5000 alarm options. The UX5000 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 UX5000 Alarms. The baud rate for the COM port should be set in Program 10-21-02.	0 = No setting 1 = -- Reserve -- 2 = -- Reserve -- 3 = -- Reserve -- 4 = CTA/CTU ***(for Aspire Keysets Only)*** 5 = USB Thumb Drive	0
02	**Destination Extension Number** If the output port type (item 1) is set to CTA/CTU, enter the Aspire extension number with the CTA/CTU connection.	-	-

Conditions

None

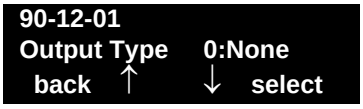
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-12 (System Alarm Output):

1. Enter the programming mode.
2. 90 12



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-13 : System Information Output

Level:	Feature Availability
IN	• Available.

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 1 = -- Reserve – 2 = -- Reserve – 3 = -- Reserve – 4 = CTA/CTU ***(for Aspire Keysets Only)*** 5 = USB port (CPU)	0
02	**Destination Extension Number** If the output port type (item 1) is set to CTA/CTU, enter the extension number (Aspire keyset) with the CTA/CTU connection.	Extension Number (Up to 8 digits)	No setting
03	**- Not Used -**	-	-
04	**Output Destination System ID** Define the system ID of the UX5000 to which the data will be outputted.	0-50	0
05	**Output Command** Dialing 1 from this program sends the system report to the connected USB device on the CPU.	Dial 1 and press HOLD (Press only HOLD key for cancel)	-

Conditions

None

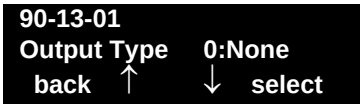
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-13 (System Information Output):

1. Enter the programming mode.
2. 90 13



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
   When outputting the data (item 3), press 1 then press HOLD to print.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-16 : Main Software Information

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-16 : Main Software Information** to display the main software information on the CCPU. This information can also be viewed outside of UX5000 programming by pressing CHECK and then the HOLD key on any display keyset.

Input Data

Item No.	Item	Data	Component
01	Version Number	01.00~99.99	ASCII Code (5 Byte)
02	Software Release Date	May 22 2002 17:53:46	ASCII Code (20 Byte)

Conditions

None

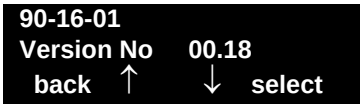
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-16 (Main Software Information):

1. Enter the programming mode.
2. 90 16



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-17 : Firmware Information** to display the firmware information on the CPU and other blades.

Input Data

Item No.	Item	Data	Component
01	DSP Firmware Version Number	00.00.00.00 - 15.15.15.15	BCD Code (2 Byte)
09	CS Firmware Version Number	00.00 - FF.FF	HEX Code (2 Byte)

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-17 (Firmware Information):

1. Enter the programming mode.
2. 90 17

```
90-17-01
DSPDB Ver.    07.08.00.06
 back  ↑   ↓  select
```

3. Enter the number of the item you want to program.

```
90-17-nn
nnnnn
 ←          →
```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-19 : Dial Block Release

Level:	Feature Availability
IN	• Available.

Description

When the extension number is entered in **Program 90-19 : Dial Block Release**, the extension will be released from the Dial Block restriction.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Input Data
01	Dial Block Release	[Release?] : Dial 1 and press HOLD (Press only HOLD key for cancel)

Conditions

This program is only available in terminal and WebPro programming.

Feature Cross Reference

- Toll Restriction

Terminal Programming Instructions

To enter data for Program 90-19 (Dial Block Release):

1. Enter the programming mode.
2. 90 19

   90-19-01 TEL301
   CLR Dial Block
   back ↑ ↓ select
3. Enter the number of the item you want to program.

   90-19-nn TELnnn
   nnnnn
   ← – + →
4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 -	-	0
03	**- Not Currently Available -** All Line Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0
04	**- Not Currently Available -** DTMF Receiver Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0
05	**- Not Currently Available -** Dial Tone Detector Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0
06	**- Not Currently Available -** Caller ID Receiver Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0
07	**- Not Currently Available -** Voice Mail Channel All Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0
08	**- Not Currently Available -** ACD Operator All Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0
09	**- Not Currently Available -** Attendant Channel All Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0

10	**- Not Currently Available -** Base Station All Busy Output	0 = Not detected 1-256 (Report when the data is reached to the defined value)	0

Conditions

None

Feature Cross Reference

- Traffic Management Reporting (TMS)

Terminal Programming Instructions

To enter data for Program 90-20 (Traffic Report Data Setup):

1. Enter the programming mode.
2. 90 20

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

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 Management Reporting (TMS)

Terminal Programming Instructions

To enter data for Program 90-21 (Traffic Report Output):

1. Enter the programming mode.
2. 90 21

```
90-21-01
Output_Port    0:None
 back  ↑   ↓   select
```

3. Enter the number of the item you want to program.

```
90-21-nn
nnnnn
 ←              →
```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-22 : NGT Terminal Version Information

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-22 : NGT Terminal Version information** to define the hardware and firmware version of the NGT terminal.

Input Data

Terminal Type	1:Dterm IP/ ITR-16DK-1D 2:Smart Phone/ IP-RD 3:Bandle IP Phone/ IP-R 4:ITR-32D-1D 5:IP1WW_IP_Adapter 6:ITR-LC-1 7:IP1NA-24TIXH 8:IP1WW-24TIXH

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

Terminal Programming Instructions

To enter data for Program 90-22 (NGT Terminal Version Information):

1. Enter the programming mode.
2. 90 22

3. Enter the number of the item you want to program.

4. Enter the Terminal Type/Kind number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-23 : Deleting Registration of IP Terminals** to delete the registered IP terminal from the UX5000.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Input Data
01	Delete IP Terminal	[Delete?] : Dial 1 and press HOLD (Press only HOLD key for cancel)

Conditions

This program is only available in terminal programming.

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 90-23 (Deleting Registration of IP Terminals):

1. Enter the programming mode.
2. 90 23

   90-23-01 TEL301
   Del.IP-Phone
   back ↑ ↓ select
3. Enter the number of the item you want to program.

   90-23-nn TELnnn
   nnnnn
   ← – + →
4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-24 : System Alarm Report Notification Time Setup** to set up when the alarm report will print.

Input Data

Notification Number	1-12

Item No.	Item	Input Data	Default
01	Month	00-12 (00=disabled)	00
02	Day	00-31	00
03	Hour	00-23	00
04	Minute	00-59	00

Conditions

None

Feature Cross Reference

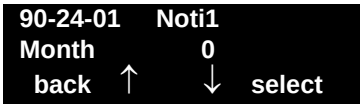
Maintenance

Program 90 : Maintenance Program
90-24 : System Alarm Report Notification Time Setup

Terminal Programming Instructions

To enter data for Program 90-24 (System Alarm Report Notification Time Setup):

1. Enter the programming mode.
2. 90 24



3. Enter the number of the item you want to program.

4. Enter the Terminal Type/Kind number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-25 : System Alarm Report CC Mail Setup** to define the mail address to receive the UX5000 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

Terminal Programming Instructions

To enter data for Program 90-25 (System Alarm Report CC Mail Setup):

1. Enter the programming mode.
2. 90 25

   90-25-01 CC No1
   Address
   back ↑ ↓ select
3. Enter the number of the item you want to program.

   90-25-nn CC Non
   nnnnn
   ← – + →
4. Enter the Terminal Type/Kind number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-26 : Program Access Level Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-26 : Program Access Level Setup** to define the password access level required to change a UX5000 program.

Input Data

Program Numbers	1001 - 9901

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-hand corner at the beginning of each program.

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-26 (Program Access Level Setup):

1. Enter the programming mode.
2. 90 26

   90-26-01 PRG No. 1001
   Maintenance Level 3:SA
   ← −1 +1 →

3. Enter the number of the item you want to program.

   90-25-nn PRG No. nnnn
   Maintenance Level n:xx
   ← − + →

4. Enter the program number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-28 : UserPro Password Setup

Level:
IN

Feature Availability
• Available.

Description

Use **Program 90-28 : UserPro Password Setup** to set the password for each extension number, as required, for the UB level (access only to the logged on extension user's programs).

Input Data

Extension Number	Max. 8 digits

Item No.	Item	Input Data	Default
01	UserPro UB Level Password	0-9, *, # (Fixed 4 digits)	1111

Conditions

None

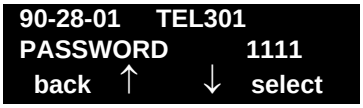
Feature Cross Reference

Maintenance, UserPro

Terminal Programming Instructions

To enter data for Program 90-28 (UserPro Password Setup):

1. Enter the programming mode.
2. 90 28



3. Enter the number of the item you want to program.

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-31 : DIM Over Ethernet** to define the setup used for DIM access over an ethernet connection.

Input Data

Item No.	Item	Input Data	Default
01	**Enable Access** Enable (1) or disable (0) the UX5000's ability to allow DIM access via an ethernet connection.	0 = Disable 1 = Enable	0
02	**User Name** Enter the user name to be used when opening the terminal software. ***This entry is case-sensitive.***	Up to 20 alphanumeric characters	UX5000
03	**Password** Enter the password to be used when opening the terminal software. ***This entry is case-sensitive.***	Up to 20 alphanumeric characters	12345678

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-31 (DIM Over Ethernet):

1. Enter the programming mode.
2. 90 31

   ```
   90-31-01
   ACCESS ENABLE  0:Disable
   ←     −1     +1     →
   ```

3. Enter the number of the item you want to program.

   ```
   90-31-nn
   nnnnn
     ←              →
   ```

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to check the firmware information for each installed blade in the UX5000.

Input Data

Slot Number	01-24

Item No.	Item	Display Data	Data Format
01	Blade Name	Blade Name	-
02	Firmware Version Number	00.00 ~ 15.15	BCD Code (1 Byte)

Conditions

None

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-34 (Firmware Information):

1. Enter the programming mode.
2. 90 34

   90-34-01 Slot No 1
   PKG Name Not Installed
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-34-nn Slot No n
   nnnnn
   ← –1 +1 →

4. Enter the Slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:	Feature Availability
IN	• Available.

Description

Use to set the access level when using the Wizard for programming.

Input Data

Wizard Number	001-250

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

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-35 (Wizard Programming Level Setup):

1. Enter the programming mode.
2. 90 35

   90-35-01 Wizard No. 1
   Maintenance Level0:All|1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-35-nn Wizard No. n
   nnnnn
   ← –1 +1 →

4. Enter the Wizard number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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

Level:
IN

Feature Availability
• Available - requires a MEMDB. This program is view only. To define the settings for this option, PCPro must be used to convert the firmware file (TOOLS-CREATE F/W PACKAGE) and to define the options (COMMUNICATIONS/FIRMWARE UPDATE).

Description

Use to display the update time for firmware updates for MAIN.BIN, DSPDBU.BIN and DSP.BIN.

To define the settings for this option, PCPro must be used to convert the firmware file by clicking on the TOOLS-CREATE F/W PACKAGE menu and then defining the options in the COMMUNICATIONS/FIRMWARE UPDATE menu.

When this function is executed, a USB flash drive must be installed in the CCPU. This is where the firmware files are stored until the scheduled update time.

Input Data

Item No.	Item	Input Data	Default
01	**Firmware Update Schedule Time** **With PCPro: This option sets the time to update firmware which has been copied to the installed USB flash drive on the CCPU.** **With terminal programming,: This option views the defined time to update firmware which has been copied to the installed USB flash drive on the CCPU.** **Time registration will fail the scheduled time has already past.**	**Year: 0~99** **Month: 0~12** **Day: 00~31** **Hour: 00~23** **Minute: 00~59**	**0** **0** **0** **0** **0**
02	**Update Mode** **With PCPro: This option enables the Firmware Update feature. If enabled, the new firmware stored on the USB flash drive will update data at the scheduled time.** **With terminal programming,: This option is view-only.**	**0 = Disabled** **1 = Enabled**	**0 = Disable** **1 = Enable**
03	**Update Report** **This option will display report data on the sucess/failure of the scheduled firmware update.Only one report will be saved. With each new update, the previous report is overwritten with the new information.** **Sample report data is:** **Update Success: "Update is success. Update Time:"** **Update Fail: "Update is fail. Since 'A' drive is not available."** **Update Fail: "Update is fail. Since Time is expired."**	**Maximum 256 Characters**	**-**

Conditions

None

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-36 (Firmware Update Time Setting):

1. Enter the programming mode.
2. 90 36

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-38 : UserPro Data Level Setup

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-38 : UserPro Data Level Setup** to enable or disable the following items which are available for the UserPro feature when logging on with the UA and UB modes. This option will allow (1) or deny (0) a user's access to the program. An extension's Class of Service settings will override program access to these options.

Input Data

Item	Name	Program (Reference Only)	Data Level	Input Data	Default	Notes
01	Time setting	10-01 (11-10-03)	UA	0 = Disable 1 = Enable	1 (Enabled)	
02	Change of Music on Hold Tone	10-04 (11-10-02)	UA	0 = Disable 1 = Enable	1 (Enabled)	
03	Automatic Night Service Patterns	12-02	UA	0 = Disable 1 = Enable	1 (Enabled)	
04	Weekly Night Service Switching	12-03	UA	0 = Disable 1 = Enable	1 (Enabled)	
05	Text Data for Night Mode	12-07	UA	0 = Disable 1 = Enable	1 (Enabled)	
06	Holiday Night Service Switching	12-04	UA	0 = Disable 1 = Enable	1 (Enabled)	
07	DISA User ID Setup	25-08	UA	0 = Disable 1 = Enable	1 (Enabled)	
08	Mailbox Setup	40-02	UA	0 = Disable 1 = Enable	1 (Enabled)	
09	Text Messages Setup	20-16	UA	0 = Disable 1 = Enable	1 (Enabled)	
10	Incoming Ring Group Setup	22-04	UA	0 = Disable 1 = Enable	1 (Enabled)	
11	Entry Common Abbreviated Dial	11-10-04 13-04	UA	0 = Disable 1 = Enable	1 (Enabled)	
12	Night Mode Switching (Other Group)	11-10-12	UA	0 = Disable 1 = Enable	1 (Enabled)	
13	DSS Key Assignment	30-03	UA	0 = Disable 1 = Enable	1 (Enabled)	
14	Doorbox Ring Assignment	32-02	UA	0 = Disable 1 = Enable	1 (Enabled)	
15	Extension Numbering	11-02	UA	0 = Disable 1 = Enable	1 (Enabled)	
16	Extension Name	15-01-01	UA/UB	0 = Disable 1 = Enable	1 (Enabled)	
17	Night Mode Switching (Own Group)	11-10-01	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	

18	Call Forward - Immediate/No Answer/Both Ring	11-11-01, 11-11-03, 11-11-05	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	
19	Call Forward - Busy	11-11-02	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	
20	Trunk Ring Tones	11-11-20 15-02-02	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	
21	Extension Ring Tones	11-11-20 15-02-03	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	
22	LCD Language Selection	15-02-01	UA/UB	0 = Disable 1 = Enable	1 (Enabled)	
23	Toll Restriction Override Password Setup	21-07	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	The UA level can copy as well as define the password.
24	User Programming Password	90-28	UA/UB	0 = Disable 1 = Enable	1 (Enabled)	
25	Programmable Function Keys	15-07	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	The UA level can copy as well as define the keys.
26	Virtual Extension Ring Assignment	15-09	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	
27	One Touch Key Assignment	15-14	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	
28	Trunk Name	14-01-01	UA	0 = Disable 1 = Enable	1 (Enabled)	
29	Set Automatic Transfer to Transfer	11-10-06 11-10-07	UA	0 = Disable 1 = Enable	1 (Enabled)	
30	Entry Automatic Transfer to Transfer Destination	11-10-08 24-04	UA	0 = Disable 1 = Enable	1 (Enabled)	
31	Terminal Data Copy	92-01	UA	0 = Disable 1 = Enable	1 (Enabled)	Ability to copy: • 12-05 : Night Mode Group Assignment for Extensions • 15-07 : Programmable Function Keys • 21-07 : Toll Restriction Override Password Setup • 23-02 : Call Pickup Group • 23-03 : Ringing Line Preference • 31-02-01 : Internal Paging Group Assignment
32	Dial In Name	22-11-03	UA	0 = Disable 1 = Enable	1 (Enabled)	
33	LCD Line Key Name Assignment	15-20	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	Requires software 2.x or higher.
34	IntraMail Station Mailbox Options	47-02	UA/ UB	0 = Disable 1 = Enable	1 (Enabled)	Requires software 2.x or higher.

Conditions

None

Feature Cross Reference

Maintenance, UserPro

Terminal Programming Instructions

To enter data for Program 90-38 (UserPro Data Level Setup):

1. Enter the programming mode.
2. 90 38

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-39 : Virtual Loopback Port Reset** when it is necessary to reset all of the Virtual Loop Back ports. All connected calls will be dropped when this program is executed.

Input Data

Item No.	Item	Input Data	Default
01	Virtual Loopback Reset	Dial 1 + Hold Key (To cancel, press hold key without dialing 1)	-

Conditions

None

Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-39 (Virtual Loopback Port Reset):

1. Enter the programming mode.
2. 90 39

   90-39-01
   VLP-Reset YES:1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-39-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to define the server information for updating the local data on the terminals.

Note: For the automatic upgrade feature of the Softphone to work, store the information file for the update and the update program in a remote directory according to the specification of the Softphone application.

Input Data

Server Information	1-13 • 1 = Primary DNS server address/primary DNS server address • 2 = Secondary DNS server address/secondary DNS server address • 3 = Data roming server address/data roaming server address • 4 = Local address book/local telephone book • 5 = Call history/arrival and departure history • 6 = Call progress tone/call progress tone • 7 = Softphone application updates information/Softphone updated information • 8 = Softphone application updates programs/Softphone update program • 9 = Terminal menu/terminal menu • 10 = Presence Server/presence server • 11 = XML Server/ XML server • 12 = FTP Server /FTP server • 13 = TFTP Server /TFTP server **(The "Softphone Updated Information" (#7) and "Softphone Update Program" (#8) can be set to a different server and the directory.)**

Item No.	Item	Input Data	Default
01	**Server Address Type** Set the address type of the server used.	0:IPv4 1:IPv6	0
02	**Server Address** Set the address of the server. The address used is decided based on Program 90-41-01.	IPv4 form : xxx.xxx.xxx.xxx IPv6 form : [xxxx:xxxx:xxxx:xxxx:xxxx] Max. 256 characters	IPv4:(none) IPv6:(none)
03	**Port Number** Set the port number of the server.	1-65535	0

Conditions

None

Program 90 : Maintenance Program
90-41 : Server Settings to Update Terminal Local Data

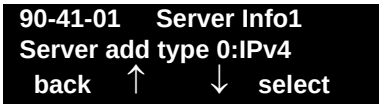
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 90-41 (Server Settings to Update Terminal Local Data):

1. Enter the programming mode.
2. 90 41



3. Enter the number of the item you want to program.

4. Enter the Server Info number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Information** to set the hardware version and firmware version of SIP MLT terminal.

Input Data

Terminal Type	1 = 2-Button or 6-Button Value Terminal 2 = 8/12/24-Button Enhanced Terminal 3 = IP-CTS Terminal

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

VoIP

Terminal Programming Instructions

To enter data for Program 90-42 (SIP MLT Terminal Version Information):

1. Enter the programming mode.
2. 90 42

   90-42-01 Term Type1
   Software Ver 00.00.00.00
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-42-nn Term Type1
   nnnnn
   ← →

4. Enter the Terminal Type number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to delete the terminal license information delivered to the SIP MLT terminal

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Input Data	Default
01	Extension Number	Delete ?: Dial 1 + HOLD	-

Conditions

None

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 90-43 (Deleting Terminal License of SIP MLT):

1. Enter the programming mode.
2. 90 43

   90-43-01 TEL301
   Delete?(1:Yes)
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-43-nn TELnnn
   nnnnn
   ← →

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Press 1 + HOLD to delete or HOLD to skip to the next extension number.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to delete the terminal license information delivered to terminals with TCP interface.

Input Data

License Delete Code	000-000-000 - 999-999-999

Item No.	Item	Input Data	Default
01	License Deletion Code	Delete ?: Dial 1 + HOLD (Pressing only the HOLD key will cancel the process)	-

Conditions

None

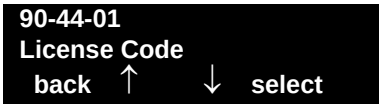
Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-44 (Deleting Terminal License of TCP I/F):

1. Enter the programming mode.
2. 90 44



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to change the Temporary Password used by the SIP MLT encryption function.

Input Data

Item No.	Item	Input Data	Default
01	**Temporary Password Change Request** Change the Temporary Password for the encryption with WebPro/PCPro. This option is only effective if Program 10-46-07 is set to "All". With the VoIP Encryption feature, this program is used to change the temporary password which is automatically set and used in the signaling encryption. If the key becomes known, the encrypted signaling message can be decoded. In this situation, with this option, the key can be changed for the signaling encryption. If you change the Temporary Password in this program, you must set the one time password in the terminal setup as well.	Change? (Yes : 1) (Pressing only the HOLD key will cancel the process)	-

Conditions

None

Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 90-45 (Temporary Passsword Change for SIP MLT):

1. Enter the programming mode.
2. 90 45

```
90-45-01
Change?(1:Yes)
 back  ↑    ↓  select
```

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to define the type of button kit used on a UX5000 keyset.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Input Data	Default
01	**Button Kit Number** When changing a keyset's button kit, this option sets the new type of button kit used.	0 = No setting 1-2 = Not Used 3 = Type-B with Cursor Key 4-10 = Not Used 11 = Type-B without Cursor Key (Retrofit) 12 = Not Used	-

Conditions

When this command is executed, the terminal is reset.

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-48 (Button Kit Information of Multi-Line Terminal):

1. Enter the programming mode.
2. 90 48

3. Enter the number of the item you want to program.

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to set up the protection mode of each multi-line (IP) terminal.

Input Data

Extension Number	Up to 8 digits

Item No.	Item	Input Data	Default
01	**Release Protection Mode** If required, release the protection state of an UX5000 IP terminal.	Release? (Yes : 1)	-
02	**Initialize Password Protection** If required, initialize the protection password of an UX5000 IP terminal.	Initialize? (Yes : 1)	-

Conditions

None

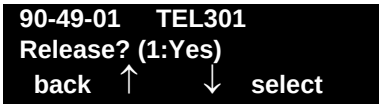
Feature Cross Reference

VoIP

Terminal Programming Instructions

To enter data for Program 90-49 (Protection Mode Setup for Multi-Line Terminal):

1. Enter the programming mode.
2. 90 49



3. Enter the number of the item you want to program.

4. Enter the terminal number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-50 : System Alarm Display Setup** to define the extension number to display any UX5000 alarms.

Input Data

System ID Number	01-50

Item No.	Item	Input Data	Default
01	**System Alarm Display Terminal** Define the extension number to display any UX5000 alarms.	Extension Number (8 digits max)	-

Conditions

None

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-50 (System Alarm Display Setup):

1. Enter the programming mode.
2. 90 50

   ```
   90-50-01    Index     1
   Alarm Disp TEL
    back   ↑      ↓   select
   ```

3. Enter the number of the item you want to program.

   ```
   90-50-nn    Index     n
   nnnnn
     ←                 →
   ```

4. Enter the Index number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-51 : Alarm Setup for Maintenance Exchange

Level:	Feature Availability
IN	• Available.

Description

Use to define the exchange date for parts which may need to be replaced after their expected life-span.

Input Data

System ID	00-50
Index Number	01-10

Item No.	Item	Input Data	Default
01	Display Name	16 Characters or less	Index 01: Power battery Index 02: Backup battery Index 03: Cooling fan Index 04-10: No Setting
02	Year	00-99	0
03	Month	01-12	0
04	Day	01-31	0

Conditions

If the UX5000 install date is set in Program 90-01, once the following time periods pass after that date, it automatically sets an exchange date.

Exchange Time Limit
Index 01: 2 years and 6 months Index 02: 3 years Index 03: 5 years Index 04-10: No Setting

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-51 (Alarm Setup for Maintenance Exchange):

1. Enter the programming mode.
2. 90 51

   90-51-01 Index 1
   Display Power battery
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-51-nn Index 1
   nnnnn
   ← →

4. Enter the Index number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-52 : System Alarm Output

Level:	Feature Availability
IN	• Available.

Description

Use to perform an output/save of the alarm information.

Input Data

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

Conditions

When “4-CTA/CTU” is set in Program 90-12-01, the entry in “Destination System Number” is ignored.

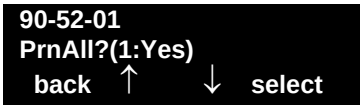
Feature Cross Reference

Maintenance

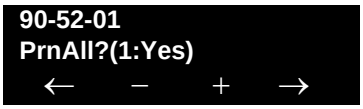
Terminal Programming Instructions

To enter data for Program 90-52 (System Alarm Output):

1. Enter the programming mode.
2. 90 52



3. Enter the number of the item you want to program.



4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you’ve exited that series’s programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to clear information from the UX5000 alarm reports.

Input Data

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

Conditions

None

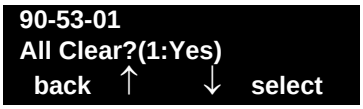
Feature Cross Reference

Maintenance

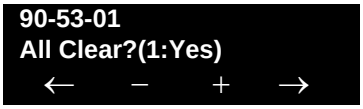
Terminal Programming Instructions

To enter data for Program 90-53 (Clear System Alarm Reports):

1. Enter the programming mode.
2. 90 53



3. Enter the number of the item you want to program.



4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
0-54 : PCPro/WebPro Setting

Level:	Feature Availability
IN	• Available with software 2.0+.

Description

Use **Program 90-54 : PCPro/WebPro Setting** to define thePCPro/Webpro settngs. These options allow for the port assignment for the PCPro and WebPro applications. This port number is used by the application to communicate with the UX5000.

The UX5000 must be reset in order for any changes to this program to take effect.

Input Data

Item No.	Item	Input Data	Default
01	**WebPro HTTP Port** Define the HTTP port number to be used by WebPro for communicating to the UX5000.	0 - 65535	80
02	**PCPro TCP Port** Define the TCP port number to be used by PCPro for communicating to the UX5000.	0 - 65535	8000

Conditions

None

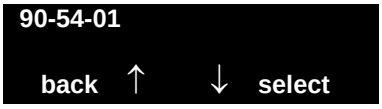
Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-54 (PCPro/WebPro Setting):

1. Enter the programming mode.
2. 90 54



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-55 : Free License Activation

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-55 : Free License Activation** to activate a free license.

Input Data

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

Conditions

None

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-55 (Free License Activation):

1. Enter the programming mode.
2. 90 55

   90-55-01
   Free License 1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   90-55-nn
   nnnnn
   ← →

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to define NTP settngs.

Input Data

Item No.	Item	Input Data	Default
01	NTP Synchronize	0 = No 1 = Yes	0
02	Server Address (xxxx.xxx.xxx.xxx)	0.0.0.0-255.255.255.255	No Entry

Conditions

None

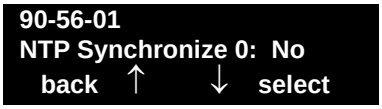
Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-56 (NTP Setup):

1. Enter the programming mode.
2. 90 56



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-57 : Backup Recovery Data

Level:	Feature Availability
SA	• Available.

Description

Use **Program 90-57 : Backup Recovery Data** to back up the UX5000 data file preserved in the flash memory on the CCPU to be used in a recovery process if needed. Up to five recovery files can be preserved in the flash memory on the CCPU.

Input Data

Data ID	1-5

Item No.	Item	Input Data	Default
01	Backup Data	Dial 1 + Hold Key (To cancel, press hold key without dialing 1)	-

Conditions

- It is recommended to back up the UX5000 data to a USB thumb drive using Program 90-03 as the recovery data cannot be transferred to another UX5000.
- Creating the recovery data takes approximately 30 seconds.
- It is recommended to perform a data recovery at a time when the UX5000 will not be busy. The process can cause the UX5000 to operate slowly.

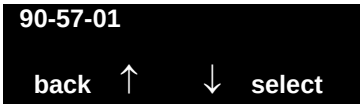
Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-57 (Backup Recovery Data):

1. Enter the programming mode.
2. 90 57



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-58 : Restore Recovery Data

Level:
SA

Feature Availability
• Available.

Description

Use **Program 90-58 : Restore Recovery Data** to restore the UX5000 data from a file preserved in the flash memory on the CCPU (saved in Program 90-57). After executing the command, the UX5000 restarts automatically.

Input Data

Data ID	1-5

Item No.	Item	Input Data	Default
01	Restore and Reset Data	Dial 1 + Hold Key (To cancel, press hold key without dialing 1)	-

Conditions

- It is recommended to back up the UX5000 data to a USB thumb drive using Program 90-03 as the recovery data cannot be transferred to another UX5000.
- The process of data recovery takes approximately 90 seconds.
- A UX5000 reset is automatically performed after the data recovery process.

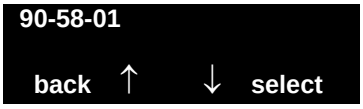
Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-58 (Restore Recovery Data):

1. Enter the programming mode.
2. 90 58



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 90 : Maintenance Program
90-59 : Delete Recovery Data

Level:
SA

Feature Availability
• Available.

Description

Use **Program 90-59 : Delete Recovery Data** to delete the stored UX5000 data file preserved in the flash memory on the CCPU (saved in Program 90-57) used in a recovery process.

Input Data

Data ID	1-5

Item No.	Item	Input Data	Default
01	Delete Data	Dial 1 + Hold Key (To cancel, press hold key without dialing 1)	-

Conditions

None

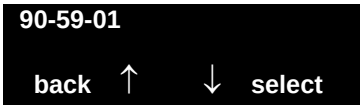
Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-59 (Delete Recovery Data):

1. Enter the programming mode.
2. 90 59



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use to display the layer status information for the T1/PRI/BRI blades. This program is view-only.

Input Data

System ID	00-50
Slot Number	01-24

Item No.	Item	Input Data	Default
01	**Link Status**	**-**	**N/A**

Conditions

None

Feature Cross Reference

T1 Trunking (with ANI/DNIS Compatibility)
ISDN Compatibilty

Terminal Programming Instructions

To enter data for Program 90-60 (T1/ISDN Layer Status Information):

1. Enter the programming mode.
2. 90 60

   ```
   90-60-01    Slot No    1
   Link Status       n/a
     ←                 →
   ```

3. Enter the number of the item you want to program.

   ```
   90-60-nn    Slot No    n
   nnnnn
     ←                 →
   ```

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. View the data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:
IN

Feature Availability
• Available.
• Input data modified to include the PVAU-NAT with software 2.g0+.

Description

Use to manually install blades. If other blades have previously been assigned, it must first be deleted before this program can be used.

Input Data

System ID	00-50
Slot Number	01-24

Item No.	Item	Input Data	Default
01	Install	0 = None 1 = Router 2 = PVAU-NAT	0

Conditions

None

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-61 (Manual Slot Installation):

1. Enter the programming mode.
2. 90 61

3. Enter the number of the item you want to program.

4. Enter the slot number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 90-62 : Security ID Information** to display information on the security ID of the CCPU. This program is view-only.

Input Data

Item No.	Item	Input Data	Default
01	Security ID	0-9 and A-F (32 digits or less)	-

Conditions

None

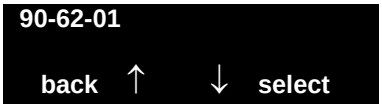
Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 90-62 (Security ID Information):

1. Enter the programming mode.
2. 90 62



3. Enter the number of the item you want to program.

4. View the data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available with software 2.g0+.

Description

Use **Program 90-65 : SIP MLT Local Area Network Setup** to define the SNMP options.

Input Data

Item No.	Item	Input Data	Default
01	**SNMP** Enable or disable SNMP.	0 = Disable 1 = Enable	0
02	**Community Name** Define the community name.	12 characters maximum	Public
03	**Target Host 1 (IP Address)** Define the IP address for the target host 1 (***.***.***.***).	0.0.0.0-255.255.255.255	None
04	**Target Host 2 (IP Address)** Define the IP address for the target host 2 (***.***.***.***).	0.0.0.0-255.255.255.255	None
05	**Target Host 3 (IP Address)** Define the IP address for the target host 3 (***.***.***.***).	0.0.0.0-255.255.255.255	None
06	**Target Host 4 (IP Address)** Define the IP address for the target host 4 (***.***.***.***).	0.0.0.0-255.255.255.255	None
07	**Target Host 5 (IP Address)** Define the IP address for the target host 5 (***.***.***.***).	0.0.0.0-255.255.255.255	None

Conditions

None

Feature Cross Reference

- VoIP

Terminal Programming Instructions

To enter data for Program 90-64 (SIP MLT Local Area Network Setup):

1. Enter the programming mode.
2. 90 64

3. Enter the number of the item you want to program.

4. View the data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Not Available.

Description

Use **Program 90-65 : 1st-Party CTI Authentication Password** with the software NAT Traversal feature to define the password for 1st-Party CTI applications.

Input Data

Item No.	Item	Input Data	Default
01	**1st-Party CTI Authentication Password** ***- Not Currently Used -*** This program sets an authentication password when a 1st-Party CTI application (with password capability) is connected to the UX5000 via a NAT router (connection outside the LAN). If there is no password defined, the UX5000 will not certify the connection. With a password defined, the incoming connection will only be connected if the password is confirmed.	16 characters maximum	nec-i

Conditions

None

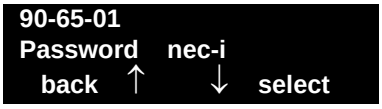
Feature Cross Reference

- Computer Telephony Integration (CTI) Applications
- VoIP

Terminal Programming Instructions

To enter data for Program 90-65 (1st-Party CTI Authentication Password):

1. Enter the programming mode.
2. 90 65



3. Enter the number of the item you want to program.

4. View the data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 92-01 : Copy by Extension Number** to copy the data for one program to another keyset, trunk, group, etc. 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, etc. from which the data will be copied.	• With Trunks: Trunk Port Number 1-200 • With Trunk Group : Trunk Group Number 1-100 • With Extension : Extension Number (up to 8 digits) • With Department Group : Department Group Number 1-64 • With DSS Console: DSS Console Number 1-4 or 1-32
	Destination Number (From) Enter the first extension, trunk, group, etc. number to which the information is to be copied.	
	Destination Number (To) Enter the last extension, trunk, group, etc. number to which the information is to be copied. If the information is only be copied to one extension, trunk, group, etc., enter the information entered in the Destination Number (From) entry.	

Program 92 : Copy Program
92-01 : Copy by Extension Number

Note: 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) (14-01-01).
14-02	Analog Trunk Data Setup	
14-04	Behind PBX Setup	
14-08	Music on Hold Source for Trunks	
14-09	ACI Conversation Recording Destination for Trunk	
20-30	Timer Class of Service for Each Outside Line	
21-03	Trunk Group Routing for Trunks	
21-12	ISDN Calling Party Number Setup for Trunk	
21-21	Toll Restriction Class of Service for Each Outside Line	
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

(Refer to Program 92-03-01 to copy these programs by port number.)

Program No.	Program Name	Note
15-01	Extension Basic Data Setup (include Virtual Extension)	Copy all data except extension name (item 01). (15-01-01)
15-02	Multi-Line Terminal Basic Data Setup	
15-03	Single Line Terminal Basic Data Setup	
15-04	PHS Terminal Basic Data Setup	Copy Item 11, 12 and 13.
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 for Muli-Line Terminal	
15-11	Virtual Extension Delayed Ring Assignment for Muli-Line Terminal	
15-12	Conversation Recording Destination for Extension	
15-18	Enhanced Virtual Extension Key Setting	
20-06	Class of Service for Extension	
21-02	Trunk Group Routing for Extensions	
21-04	Toll Restriction Class for Extensions	
21-11	Hotline Assignment	
23-02	Call Pickup Group	
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). (16-01-01)
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	

Intercom Base

Program No.	Program Name	Note
32-02	Door Box Ringing	

Conditions

Using this program to copy a keyset's Programmable Function Keys will copy all the keys whether 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 doesn't exist on the terminal (will display as "DUPLICATE DATA"). It is recommend to either clear these non-existent keys or to only copy from an extension which has the same or fewer number of keys than the extension to which the programming is being copied.

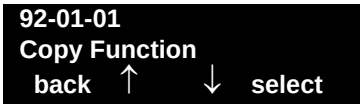
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 92-01 (Copy by Extension Number):

1. Enter the programming mode.
2. 92 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 92 : Copy Program
92-02 : Delete All Extension Numbers

Level:	Feature Availability
IN	• Available.

Description

Use **Program 92-02 : Delete All Extension Numbers** to delete all extension numbers as defined in Programs 11-01 and 11-04. However , the extension number of first the port will not deleted to allow for terminal program access.

Input Data

Item No.	Item	Input Data
01	**Delete All Extension Numbers**	To Delete: Press 1 + Hold key To Cancel: Only Press Hold key

Conditions

None

Feature Cross Reference

- Maintenance

Terminal Programming Instructions

To enter data for Program 92-02 (Delete All Extension Numbers):

1. Enter the programming mode.
2. 92 02

   92-02-01
   Ext No. Del YES:1
   back ↑ ↓ select

3. Enter the number of the item you want to program.

   92-02-xx
   Optionxx
   ← →

4. Enter data for the item you selected + HOLD.
5. Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 92-03 : Copy by Port Number** to copy the data for a keyset to another keyset based on the port number. Refer to the following chart to see which programs which can be copied.

Copy Program is applicable only for the following programs.
(Refer to Program 92-01-01 to copy these programs by extension number.)

Program No.	Program Name	Note
15-01	Extension Basic Data Setup (include Virtual Extension)	Copy all data except extension name (item 01).
15-02	Multi-Line Terminal Basic Data Setup	
15-03	Single Line Terminal Basic Data Setup	
15-04	PHS Terminal Basic Data Setup	Copy Item 11, 12 and 13.
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	
20-06	Class of Service for Extension	
21-02	Trunk Group Routing for Extensions	
21-04	Toll Restriction Class for Extensions	
21-11	Hotline Assignment	
23-02	Call Pickup Group	
23-03	Ringing Line Preference	
23-04	Ringing Line Preference for Virtual Extensions	
24-03	Park Group Assignment	
31-02	Internal Paging Group Assignment	

Input Data

Item No.	Item	Input Data
01	**Copy Function** Enter the program from which the data will be copied.	4-Digit Program Number (ex: 15-07 = 1507)
	Copy Source Enter the extension port number from which the information is to be copied.	Extension Number (max. 8 digits)
	Copy Start Enter the first extension port number to which the information is to be copied.	Extension Number (max. 8 digits)
	Copy End Enter the last extension port number to which the information is to be copied. If the information is only be copied to one port number, enter the information entered in the Copy Start entry.	Extension Number (max. 8 digits)

Conditions

Using this program to copy a keyset's Programmable Function Keys will copy all the keys whether 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 doesn't exist on the terminal (will display as "DUPLICATE DATA"). It is recommend to either clear these non-existent keys or to only copy from an extension which has the same or fewer number of keys than the extension to which the programming is being copied.

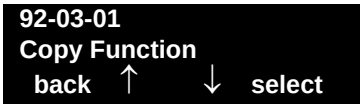
Feature Cross Reference

None

Terminal Programming Instructions

To enter data for Program 92-03 (Copy by Port Number Program):

1. Enter the programming mode.
2. 92 03



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 92 : Copy Program
92-04 : Extension Data Swap

Level:	Feature Availability
IN	• Available.

Description

Use **Program 92-04 : Extension Data Swap** to swap an extension's programming to another extension number.

The following extension-based programs will be swapped:

Program No.	Program Name
11-02	Extension Numbering
12-05	Night Mode Group Assignment for Extensions
13-03	Abbreviated Dialing Group Assignment for Extensions
13-06	Station Abbreviated Dial Number and Name
15-01	Extension Basic Data Setup (include Virtual Extension)
15-02	Multi-Line Terminal Basic Data Setup
15-03	Single Line Terminal Basic Data Setup
15-06	Trunk Access Map for Extension
15-07	Programmable Function Key
15-08	Incoming Virtual Extension Ring Tone Setup
15-09	Virtual Extension Ring Assignment
15-10	Incoming Virtual Extension Ring Tone Order Setup
15-11	Virtual Extension Delayed Ring Assignment
15-12	Conversation Recording Destination for Extension
15-13	Loop Keys
15-14	Programmable One-Touch Keys
15-18	Virtual Extension Key Enhance Options
15-19	System Terminal Book Setup for Extension
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 Extensions
21-04	Toll Restriction Class for Extensions
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 Extensions
21-15	Individual Trunk Group Routing for Extensions

21-18	IP Trunk Calling Party Number Setup for Extensions
21-19	IP Trunk (SIP) Calling Party Number Setup for Extensions
21-20	SIP Trunk Call Discernment Setup for Extensions
22-04	Incoming Extension Ring Group Assignment
22-06	Normal Incoming Ring Mode
23-02	Call Pickup Group
23-03	Ringing Line Preference
23-04	Ringing Line Preference for Virtual Extensions
24-03	Park Group Assignment
24-06	Fixed Call Forwarding
24-07	Fixed Call Forwarding Off-Premise
24-08	Call Forwarding for Centrex
26-04	ARS Class of Service
26-07	Not used in U.S.
31-02	Internal Paging Group Assignment
41-02	ACD Group and Agent Assignments
41-17	ACD Login Mode Setup
42-02	Hotel/Motel Terminal Setup
90-28	User Programming Password Setup
92-05	Data Swap Password of each Extension Setup

Input Data

Item No.	Item	Input Data
01	**Extension Data Swap** Enter the two extension numbers which should be swapped. After pressing HOLD, the UX5000 data for the programs listed in the table above will be swapped. Any user-defined programming stored in the SRAM will not be swapped (for example, Call Forward set up, Selectable Display Messaging, etc.).	**Extension Number 1:** Extension Number (max. 8 digits) **Extension Number 2:** Extension Number (max. 8 digits)

Program 92 : Copy Program
92-04 : Extension Data Swap

Conditions

- Any user-defined programming stored in the SRAM will not be swapped (for example, Call Forward set up, Selectable Display Messaging, etc.).
- ***The extensions to be swapped must be idle*** while the swap is performed, or an "Invalid" error message will be received.
- Data for virtual extension's cannot be swapped.
- When a swap is performed, the following actions are executed for the swapped extensions.
  - Camp On Clear (Program 11-12-05)
  - Common Cancel (Program 11-12-37)
  - Last Number Redial Clear (Program 11-17-17)
  - Saved Number Clear (Program 11-12-18)
  - Incoming History data is deleted.
- ***Using Program 92-04-01 will also swap the order in which these extensions are displayed in all extension-related programs***. This means that the UX5000 will no longer display all the extension numbers from low to high. For example, if port 2 and 6 were swapped, when viewing the extensions in 15-02-01, the extensions will display in the following order: 301, 306, 303, 304, 305, 302.

Feature Cross Reference

Maintenance

Terminal Programming Instructions

To enter data for Program 92-04 (Extension Data Swap):

1. Enter the programming mode.
2. 92 04

3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Level:	Feature Availability
IN	• Available.

Description

Use **Program 92-05 : Data Swap Password** to define the password to be used by each extension when using the Extension Data Swap feature using a service code.

Input Data

Item No.	Item	Input Data	Default
01	**Password for Extension Data Swap** This program defines the password to be used by each extension when using the Extension Data Swap feature using a service code defined in Program 11-15-12.	0 - 9, *, # (Fixed 4 digits)	No Setting

The following extension-based programs will be swapped:

Program No.	Program Name
11-02	Extension Numbering
12-05	Night Mode Group Assignment for Extensions
13-03	Abbreviated Dialing Group Assignment for Extensions
15-01	Extension Basic Data Setup (include Virtual Extension)
15-02	Multi-Line Terminal Basic Data Setup
15-03	Single Line Terminal Basic Data Setup
15-06	Trunk Access Map for Extension
15-07	Programmable Function Key
15-08	Incoming Virtual Extension Ring Tone Setup
15-09	Virtual Extension Ring Assignment
15-10	Incoming Virtual Extension Ring Tone Order Setup
15-11	Virtual Extension Delayed Ring Assignment
15-12	Conversation Recording Destination for Extension
15-13	Loop Keys
15-14	Programmable One-Touch Keys
16-02	Department Group Assignment for Extensions
20-06	Class of Service for Extension
21-02	Trunk Group Routing for Extensions
21-04	Toll Restriction Class for Extensions
21-07	Toll Restriction Override Password Setup

Program No.	Program Name
21-10	Dial Block Restriction Class Per Extensions
21-11	Hotline Assignment
21-13	ISDN Calling Party Number Setup for Extensions
21-15	Individual Trunk Group Routing for Extensions
21-18	IP Trunk Calling Party Number Setup for Extensions
21-19	IP Trunk (SIP) Calling Party Number Setup for Extensions
21-20	SIP Trunk Call Discernment Setup for Extensions
22-04	Incoming Extension Ring Group Assignment
22-06	Normal Incoming Ring Mode
23-02	Call Pickup Group
23-03	Ringing Line Preference
23-04	Ringing Line Preference for Virtual Extensions
24-03	Park Group Assignment
24-06	Fixed Call Forwarding
24-07	Fixed Call Forwarding Off-Premise
26-04	ARS Class of Service
26-07	Not used in U.S.
31-02	Internal Paging Group Assignment
41-02	ACD Group and Agent Assignments
41-17	ACD Login Mode Setup
42-02	Hotel/Motel Terminal Setup
92-05	Password for Extension Data Swap

Conditions

- Any user-defined programming stored in the SRAM will not be swapped (for example, Call Forward set up, Selectable Display Messaging, etc.).
- The extensions to be swapped must be idle while the swap is performed, or an "Invalid" error message will be received.
- Data for virtual extension's cannot be swapped.
- When a swap is performed, the following actions are executed for the swapped extensions.
  - Camp On Clear (Program 11-12-05)
  - Common Cancel (Program 11-12-37)
  - Last Number Redial Clear (Program 11-12-17)
  - Saved Number Clear (Program 11-12-18)
  - Incoming History data is deleted.
- Using this option will also swap the order in which these extensions are displayed in all extension-related programs . This means that the UX5000 will no longer display all the extension numbers from low to high. For example, if port 2 and 6 were swapped, when viewing the extensions in 15-02-01, the extensions will display in the following order: 301, 306, 303, 304, 305, 302.

Feature Cross Reference

- Maintenance

Terminal Programming Instructions

To enter data for Program 92-05 (Data Swap Password):

1. Enter the programming mode.
2. 92 05

3. Enter the number of the item you want to program.

4. Enter the extension number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 92 : Copy Program
92-06 : Fill Extension Data

Level:	Feature Availability
IN	• Available.

Description

Use **Program 92-06 : Fill Extension Data** to fill program entries for a range of extensions to the same as a designated source extension. In addition, program data can be deleted for a range of ports (see Program 92-07).

Input Data

Item No.	Item	Input Data
01	**Fill Extension Data** Enter the 4-digit program number you would like to fill. For example, Program 11-02 would be entered as "1102". Enter the source extension number (the extension which contains the data to be used) and press HOLD. Next, enter the first extension number to be filled and press HOLD. Enter the last extension number to be filled and press HOLD. The data from the source extension for that program will then be entered into the range of extensions defined.	• 4-Digit Program Number (no hyphens) • Source Extension Number • First Extension Number in Destination • Last Extension Number in Destination

The Fill program can be used only with the following programs:

Program No.	Program Name
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

Conditions

- With the Fill function, if the data is out of range, the display will show "Invalid Data" and allow you to reenter the range.
- If data to be filled is duplicate data, the display will show "Fail to fill" and allow you to reenter the range.

Feature Cross Reference

- Maintenance

Terminal Programming Instructions

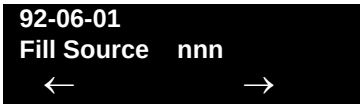
To enter data for Program 92-06 (Fill Extension Data):

1. Enter the programming mode.
2. 92 06

3. Enter the number of the item you want to program.

4. Enter the 4-digit program number you would like to fill (xxxx).

5. Enter the source extension number (which contains the data to be used) + HOLD.



6. Enter the first extension number to be filled + HOLD.

7. Enter the last extension number to be filled + HOLD.

8. Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 92 : Copy Program
92-07 : Delete Port Data

Level:	Feature Availability
IN	• Available.

Description

Use **Program 92-07 : Delete Port Data** to delete data for a range of ports.

Input Data

Item No.	Item	Input Data
01	**Delete Port Data** Enter the 4-digit program number you would like to delete. For example, Program 11-02 would be entered as "1102". Enter the first port number to be deleted and press HOLD. Enter the last port number to be deleted and press HOLD. The data for that program will then be erased for the range of ports defined.	• 4-Digit Program Number (no hyphens) • First Port Number to be Deleted • Last Port Number into be Deleted

The Delete program can be used only with the following programs:

Program No.	Program Name
11-02	Extension Numbering (ports 001-512)
11-04	Virtual Extension Numbering (ports 001-256)
11-06	ACI Extension Numbering (ports 01-96)
11-07	Department Group Pilot Numbers (groups 01-64)
11-08	ACI Group Pilot Number (groups 01-16)
11-17	ACD Group Pilot Number (groups 01-64)

Conditions

- If the range of ports entered for the Delete function includes all ports, port 001 will not be deleted (to ensure terminal programming can still be accessed).

Feature Cross Reference

- Maintenance

Terminal Programming Instructions

To enter data for Program 92-07 (Delete Port Data):

1. Enter the programming mode.
2. 92 07

3. Enter the number of the item you want to program.

4. Enter the 4-digit program number you would like to delete (xxxx).

5. Enter the first port number to be deleted + HOLD.

6. Enter the last port number to be deleted + HOLD.

7. Press MIC to exit that series's programming section.

- For Your Notes -

Level:	Feature Availability
IN	• Available.

Description

Use to adjust certain UX5000 functions. These programs should be left at default, when possible.

Input Data

Item No.	Item	Input Data	Default	Related Programs
16	**System Clock Adjustment** Automatically adjust the UX5000 clock forward or backward at every midnight. This program can be used for a UX5000 chassis that does not accurately keep the time. The UX5000 is able to automatically adjust the UX5000 clock at every midnight. ***This program is only available through terminal programming.***	• 0 = No adjustment • 1 - 127 = seconds to be added to clock • 128 - 255 = seconds to be backed up on the clock (-128 to -1 seconds).	0	
21	**Park Key Search Mode** This option will determine whether the Automatic Park Search feature will choose a park orbit in ascending or descending order.	• 0 = Ascending order search • 1 = Descending order search	0	20-11-27
52	**Setting of Gain of IntraMail** This is a system-wide option and is used to allow the trunk gain to be applied to the voice mail. This option is used to resolve a low volume issue some users may experience on recorded messages from outside callers. This program is only available through terminal programming and it is recommended not to change this option unless required.	• 0: 0dB • 1:Trunk gain setting used	0	

56	**Terminal Pro Operation Mode Setting <Aspire Keyset Only>** This option is used to change the operational mode of terminal programming (key operation and cursor initial position) to the UX5000 mode (MIC key used to exit program option and cursor on first line) or to change to the Aspire mode (MSG key used to exit program option and cursor on second line). ***Note: Changing this option when UX5000 keysets are used for programming will cause difficulties in programmin as there is no MSG key which is required to escape from a program option (the HOLD key must be continually pressed until all options of the program have been scrolled through).***	• 0 = UX5000 Mode • 1 = Aspire Mode	0	99-01-69
69	**Terminal Programming Initial Cursor Position** Determine the location of the cursor when in the terminal program mode. Selecting UX5000 Mode (0) will place the cursor on the first line, selecting Aspire Mode (1) will place the cursor on the second line.	• 0 = UX5000 Mode • 1 = Aspire Mode	0	99-01-56

Conditions

None

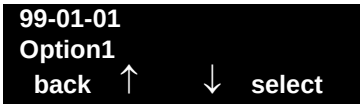
Feature Cross Reference

- Maintenance
- Park
- Time and Date
- Voice Mail

Terminal Programming Instructions

To enter data for Program 99-01 (MF Options):

1. Enter the programming mode.
2. 99 01



3. Enter the number of the item you want to program.

4. Enter data for the item you selected + HOLD.
5. Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

Program 99 : Manufacturer Options
99-02 : Nondisclosure Options Firmware Download

Level:	Feature Availability
IN	• Available.

Description

Use **Program 99-02 : Nondisclosure Options Firmware Download** to downgrade a particular blade's firmware.

This option is only available through terminal programming. ***It is only recommended to downgrade firmware when advised by NEC's Technical Service department.***

In order to downgrade a blade's firmware, you will need to copy a older version of firmware to the "Firmware" directory onto the USB which will be inserted into the CCPU.

Note: Do not insert the USB flash drive into the CCPU with the power on as certain versions may cause the CCPU to reset.

To determine the correct file to move to the USB flash drive, refer to the following format:

- First 2 digits = Last 2 characters of the blade ID
- Next 2 digits = Firmware version (for example "12" equals "version 1.2"
- Last 2 digits = Order of file and total number of numbers (for example, 16 means that the file is the first file and the firmware is divided into 6 files)

*If a firmware file consists of several files, each file will be copied automatically from the USB. If there are multiple files for a blade, **be sure to copy all the blade firmware files** to the USB flash drive.*

Input Data

Package Type	Blade Type (Real Unit ID): 0-255	Blade ID:
	ESIU: 18	ESIU: 0x0**12**
	Combo: 27	Combo: 0x0**1B**
	SLIU: 32	SLIU: 0x0**20**
	COIU: 48	COIU: 0x0**30**
	DIOPU: 64	DIOPU: 0x0**40**
	TLIU: 80	TLIU: 0x0**50**
	BRIU: 96	BRIU: 0x0**60**
	PRIU: 112	PRIU: 0x0**70**
	T1IU: 114	T1IU: 0x0**72**
	CSIU: 144	CSIU: 0x0**90**
	E1IU: 148	E1IU: 0x0**94**
	VMS: 160	VMS: 0x0**A0**
	IVR: 164	IVR: 0x0**A4**
	UMS: 163	UMS: 0x0**A3**
	CNF: 165	CNF: 0x0**A5**
	VOIPU: 177	VOIPU: 0x0**B1**
	GSWUB: 183	GSWUB: 0x0**B7**
	GSWUE: 185	GSWUE: 0x0**B9**
	VOIPDB: 180	VOIPDB: 0x0**B4**
	RTU(J): 181	RTU(J): 0x0**B5**
	RTU(N): 182	RTU(N): 0x0**B6**
	APSU: 192	APSU: 0x0**C0**
	CCH: 208	CCH: 0x0**D0**

Item No.	Item	Input Data	Default	Related Programs
01	**Firmware Download Mode** If "Normal" is selected, when there are two or more files, the most recent file is downloaded. If firmware needs to be downgraded, select "1" and define the version in Program 99-02-02.	• 0 = Normal • 1 = Version specification	0	99-02-02
02	**Firmware Version** The data in this option is referred to when 99-02-01 is set to 1. The UX5000 then uses the data in this option to determine the firmware version to be used for downgrading. If the file for the firmware version entered does not exist, no file is downloaded. When the firmware contains a letter, use Line Keys 1-6 to enter A-F. The entry must be 4 digits. So, for example, firmware "0.5" would be entered as "00.05", while firmware "1.B" would be entered as "01.0B".	• 00.00 - FF.FF	00.00	99-02-01

Conditions

None

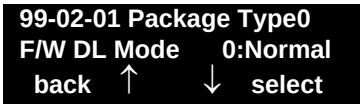
Feature Cross Reference

- Maintenance

Terminal Programming Instructions

To enter data for Program 99-02 (Nondisclosure Options Firmware Download):

1. Enter the programming mode.
2. 99 02



3. Enter the number of the item you want to program.

4. Enter the Package Type number to be defined or press FLASH to use the displayed entry.
5. Enter data for the item you selected + HOLD.
6. Enter data for the next item in the program.
   OR
   Press MIC once to enter a new item number.
   OR
   Press MIC until you've exited that series's programming section.

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