Feature Package 3

TRIAD 1/2/3 System Programming



STARPLUS Triad 1/2/3TM

System Programming Manual

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1 Customer Database Programming

This manual provides the information necessary to program the STARPLUS Triad 1/2/3 System. The described features are based on the current software release. If any of these features do not work on your system, call your sales representative regarding upgrading your system.

Introduction 1-3

Introduction

The STARPLUS Triad 1/2/3 Telephone System is programmed to meet each customer's individual needs. All programming is done at any 24-Button Executive Telephone as the programming station or through an ASCII terminal or PC. The digital display model is required for programming.

When the programming mode is entered, the digital telephone being used no longer operates as a telephone but as a programming station with all of the buttons redefined. The keys on the dial pad are used to enter data fields (Program Codes) associated with system, station, and CO line features as well as specific data that requires a numeric entry. Flexible buttons toggle on or off features, or enable entry of specific data fields. LEDs and the LCD display provide a visual indication of entered data and their value.

Programming is also performed using an ASCII terminal, or a computer capable of emulating an ASCII terminal. This form of programming is done locally (on-site) by connecting the terminal directly to the RS-232C connector on the Master Processor Board (MPB) or is performed remotely (off-site) through the use of the On Board 2400 baud modem (*Triad 3*) or the optional 2400 baud modem (*Triad 1/2*). The method and steps to program the system via a PC are identical to those used when programming from a digital key set. A button to keyboard mapping is provided (refer to *Figure 1-2: Programming Button Mapping*) to help minimize familiarization and training time.

The system must be initialized to load default data into memory at the time of installation. If this pre-programming is acceptable to the customer, initialization is all that is needed. Refer to *Table 1-1: Feature Default Values* for a listing of all the default values.

When features are programmed, tones are provided to determine if a correct or incorrect entry has been made. A solid one second tone indicates the data was accepted. An interrupted tone means an error was made. When this occurs, re-enter the data and information.

Until new data is entered and accepted, the system continues to operate under default or previously entered values.

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The system database is updated on a real-time basis as new data is entered, by pressing the Hold button. The system continues to operate with the current database and is updated with any newly entered or changed data without interruption to telephone operation or call processing in progress. However, if for example a station's attributes are changed while that station is off-hook on an active call, the newly entered data does not take effect until the station goes on-hook or becomes idle.

When using a PC to program the system, the following chart presents the data terminal characters that are equivalent to the key set buttons.



Some features must have more than one dat a field programmed for that feature to work. This information is stated in the instructions.

-	OMIN KE	Y DEFINIT Keyset	ION Term	Keyset	Term
0 1 2 3 4 5 6 7 8 9 * # TRANS FLASH adm>	0 1 2 3 4 5 6 7 8 9 * # B	FLEX 1 FLEX 2 FLEX 3 FLEX 4 FLEX 5 FLEX 6 FLEX 7 FLEX 8 FLEX 9 FLEX 10 FLEX 11 FLEX 12 MUTE HOLD	QWERTYUIOPASNCR	FLEX 13 FLEX 14 FLEX 15 FLEX 16 FLEX 17 FLEX 18 FLEX 20 FLEX 21 FLEX 22 FLEX 23 FLEX 24 ON-OFF	D F G H J K L ; Z X C V M

Figure 1-1: Data Terminal Program Codes Cross Reference

Introduction 1-5

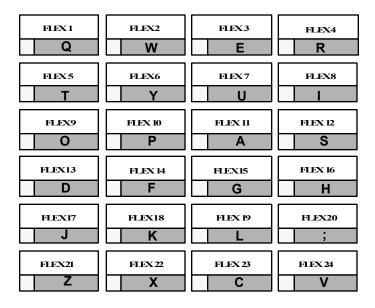


Figure 1-2: Programming Button Mapping

1-6 Introduction

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
SYSTEM PARAMETERS PROGRAMMING				
SYSTEM TIMERS	2-3	FLASH 01		
System Hold Recall Timer	2-4		1	60 sec
Exclusive Hold Recall Timer	2-5		2	180 sec
Attendant Recall Timer	2-6		3	1 min
Transfer Recall Timer	2-6		4	45 sec
Preset Forward Timer	2-7		5	10 sec
Call Forward No/Answer Timer	2-8		6	15 sec
Pause Timer	2-8		7	2 sec
Call Park Recall Timer	2-9		8	180 sec
Conference/DISA Timer	2-9		9	10 min
Paging Time-Out Timer	2-10		10	15 sec
CO Ring Detect Timer	2-11		11	3=300 ms
SLT DTMF Receiver Timer	2-12		12	20 sec
Message Wait Reminder Tone	2-12		13	000=Disabled
SLT Hook Flash Timer	2-13		14	10=1 sec
SLT Hook Flash Debounce Timer	2-14		15	030=300 ms
SMDR Call Qualification Timer	2-15		16	30 sec
Automatic Call Back Timer	2-15		17	03 sec
Reminder Ring Timer	2-16		18	00 sec
Inter-Digit Time-Out	2-17		20	5 sec
ADDITIONAL SYSTEM TIMERS	2-17	FLASH 02		
Repeat Redial Timer	2-19		1	60 sec
Attendant Display Timer	2-19		2	01 sec
Call Coverage Ring Timer	2-20		3	5 sec
Modem Answer Timer	2-21		4	25 sec
Pulse Dial Inter-Digit Timer	2-21		5	300 ms

^{*}Features available with Optional Software

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
DTMF On/Off Time Operation	2-22		6	1=100ms
SYSTEM FEATURES 1 PROGRAMMING	2-22	FLASH 05		
Attendant Override	2-24		1	Disabled
Hold Preference	2-24		2	System
External Night Ring	2-25		3	Disabled
Executive Override Warning Tone	2-26		4	Enabled
Page Warning Tone	2-27		5	Enabled
Background Music	2-27		6	Enabled
Least Cost Routing (LCR)	2-28		7	Disabled
Account Codes – Forced	2-28		8	Disabled
Group Listening	2-29		9	Disabled
Idle Speaker Mode	2-30		10	Disabled
Call Cost Display Feature	2-30		11	Disabled
Music-On-Hold	2-31		12	Enabled
Call Qualifier Tone	2-32		13	Disabled
SYSTEM FEATURES 2 PROGRAMMING	2-32	FLASH 06		
Barge In Warn Tone	2-34		1	Enabled
CO Ring Tones	2-35		2	Enabled
Verified Account Codes	2-35		3	Disabled
Call Forward Display	2-36		4	Enabled
External Day Ring	2-37		5	Disabled
Overflow Station Forward	2-37		6	Disabled
Direct Transfer Mode	2-38		7	Enabled
Station ID Lock	2-39		8	Disabled
LCR Call Progress	2-40		9	Enabled
One-Touch Recording Warn Tone	2-40		10	Enabled
Ringback on Transfer	2-41		11	Disabled

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
ACD Agent Recall	2-42		12	Disabled
911 Feature	2-42		13	Disabled
Enhanced 911	2-43		14	Disabled
VMID Station Numbers	2-44		15	STA Numbers = VMID
FLASH RATES (Program mable)	2-44	FLASH 07		
Incoming CO Line Ringing	2-46		1	Red 480 ipm flutter
Incoming Intercom Ringing	2-46		2	Red 120 ipm flutter
Call Forward Button	2-47		3	Red Steady On
Message Wait/VM Button	2-48		4	Red Steady On
Message CallBack – DSS/BLF	2-48		5	Red 120 ipm flutter
Do Not Disturb – DSS/BLF	2-49		6	Red 60 ipm Dbl Wink
Auto CallBack – DSS/BLF	2-50		7	Red 120 ipm flash
UCD Available/Unavailable – DSS/BLF	2-50		8	Red 60 ipm Dbl Wink
Transfer CO Ringing	2-51		9	Red 120 ipm flash
Recall CO Ringing	2-52		10	Red 480 ipm flutter
Queued CO Ringing	2-52		11	Green 480 ipm flutter
Exclusive Hold	2-53		12	Green 120 ipm flash
System Hold	2-54		13	Red 60 ipm Dbl Wink
In-Use Hold (I-Hold)	2-54		14	Green 60 ipm flash
Camp-On Button	2-55		15	Red 120 ipm flash
Call Back Button	2-56		16	Red 120 ipm flash
Line Queue Button	2-56		17	Red 480 ipm flutter
Do Not Disturb Button	2-57		18	Red Steady On
Intercom Hold Button	2-58		19	Red 15 ipm flash
SYSTEM PARAMETERS PROGRAMMING	2-58	FLASH 09		
MOH Assignments (Channels 3-8)	2-60		1-6	None
E911 Power Failure Station	2-61		7	None

^{*}Features available with Optional Software

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
ATTENDANT STATION ASSIGNMENT	2-62	FLASH 10		STA 100
SYSTEM TIME AND DATE	2-62	FLASH 11	1	MMM/DD/YY, 12-hour display
PBX DIALING CODES	2-64	FLASH 12		None
EXECUTIVE/SECRETARY PAIRS	2-65	FLASH 13	1-4	None
ON-BOARD RELAY PROGRAMMING	2-66	FLASH 14	1-6	None
BAUD RATE ASSIGNMENTS	2-67	FLASH 15		
Port #1 (On-Board RS-232C)	2-67		1	9600 Baud
Port #2 (On-Board Baud Modem)	2-68		2	2400 Baud
Port #3 (SIU2 Module RS-232)	2-67		3	9600 Baud
Port #4 (SIU2 Module RS-232)	2-67		4	9600 Baud
NETWORKING TABLES	2-68	FLASH 16		
Trunk Group	2-68		1	00
Station Range (FROM)	2-68		2	1000
Station Range (TO)	2-68		3	9999
IP Address	2-68		4	
Page Up	2-68		22	None
Page Down	2-68		23	None
System Number	2-68		24	None
ACCESS CODES	2-70	FLASH 20		
DISA Access Code	2-71		1	100
Database Admin Password	2-72		2	3226
STATION MESSAGE DETAIL RECORDING	2-72	FLASH 21		
SMDR Enable/Disable	2-73		1	No
Long Distance/All Calls	2-73		2	Long Distance
Character Print Assignment	2-74		3	80
Baud Rate Display	2-74		4	9600
SMDR Port Assignments *Footume available with Optional Software	2-75		5	Port #1

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
WEEKLY NIGHT MODE SCHEDULE	2-75	FLASH 22		
Automatic/Manual Operation	2-76		1 2-8	Manual=None Auto=M-F 08:00 17:00, Sat-Sun ##:## ##:##
Day of Week Programming	2-77			None
DIRECTORY DIALING	2-77	FLASH 23		
Bin/ICM Numbering	2-79		1	None
Name Changes	2-80		2	None
Clearing An Entry	2-80		3	None
Backspace To Correct Error	2-79		4	None
CABINET/CARD PROGRAMMING	2-81	FLASH 24		
Card Slots (0-11)	2-81		1-12	Slot 0
Power Supply Types (0-1) (Triad 3)	2-83		15-16	10 Amps
Cabinets (0-3)	2-82		17-20	Cabinet 0
HUNT GROUPS	2-83	FLASH 30		
Hunt Group Programming	2-83		1-12	None
Station/Pilot/Pilot Ring All Hunting Assignments	2-85		13	Pilot
VERIFIED ACCOUNT CODES	2-86	FLASH 31		
Account Code Account Code	2-86		1	None
Class of Service	2-86		2	None
Delete Code	2-87		3	None
Erase Digits	2-87		4	None
CO LINE GROUP QUEUING	2-88	FLASH 39	1-24	Enabled
CO LINES ATTRIBUTES PROGRAMMING (Press HOLD for entire range)	3-1			
PAGE A INTRODUCTION	3-3	FLASH 40	Btn 19	
DTMF/Dial Pulse Programming	3-4	Page A	1	DTMF
CO/PBX Programming	3-5		2	СО

^{*}Features available with Optional Software

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Universal Night Answer (UNA)	3-5		3	Enabled
DISA CO-to-CO	3-6		4	Enabled
Privacy	3-7		5	Enabled
Loop Supervision Programming	3-8		6	4=400 ms
DISA Programming	3-9		7	None
CO Line Group Programming	3-10		8	Group 1
Class of Service (COS) Programming	3-11		9	COS 1
CO Line Ringing Assignments	3-12		10	Station 100
CO Line Identification Display	3-14		11	Line XXX
CO Direction	3-16		12	Incoming/Outgoing
Display Ring Assignments	3-17		13	None
DID/TIE Signal	3-17		14	Wink
911 Trunk	3-18		15	Disabled
PAGE B INTRODUCTION	3-20	FLASH 40	Btn 20	
T-1 Signaling Type	3-21	Page B	1	Loop Start
T-1 Ringback	3-23		2	Enabled
T-1 Dial Tone	3-23		3	Disabled
Transmit Volume	3-24		4	5=0 dB
Preset Call Forward Destination	3-25		5	####
Preset Forward Voice Mail ID	3-25		6	####
Universal Day Answer (UDA)	3-26		7	Disabled
Music-On-Hold (per CO Line)	3-27		8	Channel 1
Ring Tone (per CO Line)	3-28		9	Tone # 00
Directory Number	3-55		10	None
SPID	3-29		11	None
PAGE C INTRODUCTION	3-30	FLASH 40	Btn 21	
Flash Timer Programming	3-31	Page C	1	10=1.0 sec

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Ring Delay Timer	3-32		2	00=Disabled
Wink Timer	3-32		3	140 ms
Release Timer	3-33		4	020=200 ms
Reseize Timer	3-33		5	200=200 sec
Guard Timer	3-34		6	05=.5 sec
Se ize Timer	3-35		7	010=0.1 sec
Preset Forward Timer	3-35		8	10 sec
DID Collect Timer	3-36		9	01 5=150 ms
T-1 Collect Timer	3-37		10	015=150 ms
MISCELLANEOUS CO PARAMETERS	3-37	FLASH 41		
Dial Pulse Parameters	3-38		1	60/40, 10 pps
DID Digits	3-39		3	3
DID Incoming Signal	3-40		5	DTMF
T-1 Incoming Signal	3-40		6	DTMF
T-1 Framing Type	3-41		7	D4SF-AMI
FLEXIBLE CO PORT ASSIGNMENT	3-42	FLASH 42		
Triad 1/2 System	3-43		1-6	CO Ports 1-48
Triad 3 System	3-43		1-18	CO Ports 1-144
ICLID PROGRAMMING	3-44	FLASH 43		
ICLID Ringing Assignment(s)	3-44		1	
View ICLID Ringing Assignments	3-46		17	
Next ICLID Route Number	3-47		18	None
Previous ICLID Route Number	3-47		19	
Se lect Route Number	3-47		20	
DID PROGRAMMING	3-47	FLASH 44		
Route Number	3-48		1	None
DID Phone Number	3-49		2	None

^{*}Features available with Optional Software

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Name Assigned to Number	3-50		3	None
Erasing a DID Table Entry	3-50		4	None
ISDN PROGRAMMING	3-52	FLASH 45	Btn 19	
BRI CO Type	3-53	Page A	1	NI 1
PRI CO Type	3-53		2	NI2
Framing	3-54		3	ESF
NT/TE M ode	3-54		4	TE
Power	3-54		5	Disabled
Directory Number	3-55		6	None
Max Out I-Frames	3-55		7	K 001
Leading 1	3-56		8	Enabled
Leading 011	3-56		9	Enabled
7/8 Digit Number Plan	<i>3-57</i>		10	ITU
Calling Number	3-58		11	Enabled
Loopback	3-58		12	Normal
10 Digit Number Plan	3-59		13	ITU
11 Digit Number Plan	3-59		14	ITU
ISDN PROGRAMMING	3-60	FLASH 45	Btn 20	
Maximum Number Retransmission	3-61	Page B	1	3
Maximum Octets	3-62		2	260
Maximum TEI ID Request	3-62		3	003
Maximum XID Retransmission	3-62		4	3 sec
T-200	3-63		5	01 sec
Minimum TEI ID Check Message	3-63		6	01 sec
Minimum TEI ID Request	3-63		7	02 sec
Message Exchange Timer	3-64		8	15 sec
Minimum XID Retransmission	3-64		9	3 sec

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Inter Digit T/O	3-64		10	25 sec
Set-up Timer	3-65		11	10 sec
Disconnect Timer	3-65		12	04 sec
Release Request	3-65		13	04 sec
Link Disconnect	3-66		14	30 sec
Call Proceeding	3-66		15	60 sec
Connect Request	3-66		16	04 sec
Restart Request Timer	3-67		17	120 sec
T-1 A LARM PROGRAMMING	3-67	FLASH 47		
Enable/Disable (Carrier Loss Alarm)	3-68		11	Enabled
Clear Alarm	3-73		12	Enabled
Minor Alarm	3-74		13	15 min
Major Alarm	3-74		14	30 min
Time Period	3-75		15	5 min
Attendant Display	3-76		16	Enabled
Carrier Loss Alarm	3-68		1	Enabled
Blue Alarm	3-76		2	Enabled
Yellow Alarm	3-70		3	Enabled
Red Alarm	3-71		4	Enabled
Bipolar Alarm	3-71		5	Enabled
Frame Slip Alarm	3-72		6	Enabled
Data Errors Alarm	3-73		7	Enabled
STATION ATTRIBUTES PROGRAMMING	4-1			
PAGE A INTRODUCTION	4-3	FLASH 50	Btn 19	
Paging Access	4-4	Page A	1	Enabled
Do Not Disturb	4-5		2	Enabled
Conference Enable/Disable (Per Station)	4-5		3	Enabled

^{*}Features available with Optional Software

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Executive Override	4-6		4	Disabled
Privacy (Per Station)	4-7		5	Enabled
System Speed Dial Access	4-8		6	Enabled
Line Queuing	4-9		7	Enabled
Preferred Line Answer	4-9		8	Enabled
Off-Hook Voice Over (OHVO)	4-10		9	Disabled
Call Forwarding	4-10		10	Enabled
Forced Least Cost Routing (LCR)	4-11		11	Disabled
ACD Supervisor Monitor with Barge-In	4-11		12	Disabled
Executive Override Blocking	4-12		13	Disabled
CO Line Ringing Options	4-13		14	Muted Ring
Name/Number Display at Idle	4-14		15	Name (Enabled)
ACD Zap Tone	4-14		16	Disabled
CO, Loop, Pool	4-15		17	Enabled
Admin Access	4-15		18	Disabled
PAGE B INTRODUCTION	4-16	FLASH 50	Btn 20	
Station I dentification	4-18	Page B	1	006 (24-Btn Key set) 6 (SLT w/o MW)
Station Day Class of Service (COS)	4-25		2	COS 1
Station Night Class of Service (COS)	4-27		3	COS 1
Speakerphone/Headset Programming	4-28		4	0 (Full Speakerphone)
Pick-Up Group(s) Programming	4-28		5	Group 1
Paging Zone(s) Programming	4-29		6	Zone 1
Line Group Access - Station	4-30		8	Group 1
LCR Class of Service (COS)	4-30		9	0 (Unrestricted Access)
Off-Hook Preference Programming	4-31		10	00=Keyset

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Flexible Button Programming	4-32		11	(blank)
Keyset Mode	4-37		12	Inactive Mode
Voice Mail ID Translation	4-37		13	XXXX=Station #
Display Flexible Buttons	4-38		14	None
Cordless Key (CKTU) Button	4-40		17	00
PAGE C PROGRAMMING	4-40	FLASH 50	Btn 21	
Internal No Answer Forward	4-42	Page C	1	None
Internal Busy Forward	4-42		2	None
External No Answer Forward	4-42		3	None
External Busy Forward	4-43		4	None
No Answer Timer	4-43		5	10 sec
Speed Dial Access	4-43		6	None
FLEXIBLE NUMBERING ASSIGNMENT	4-44	FLASH 52		
Changing a Flexible Code	4-44		1	None
Erasing a Flexible Code	4-45		2	None
Se lecting a Flexible Code	4-44		21	None
Se lecting a Fixed Code	4-44		24	None
LOCAL NUMBER/NAME TRANSLATION TABLE	2-89	FLASH 55		
Route Number	2-89		1	1
Phone Number	2-89		2	None
Name	2-90		3	None
Clear Entry	2-90		4	None
ICLID FEATURES	5-5	FLASH 56		
Enable/Disable	5-6		1	Disabled
Name in Display	5-7		2	0=Telephone Number
Baud Rate Display	5-7		3	9600
Port Assignment	<i>5-</i> 8		4	Port #1

^{*}Features available with Optional Software

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
AUTOMATIC CALL DISTRIBUTION*	6-1			
ACD GROUP PROGRAMMING*	6-3	FLASH 60		
Group Name	6-4		1	None
Alternate Group	6-5		2	None
Overflow Station	6-5		3	None
Supervisor	6-6		4	None
CIQ Threshold	6-7		5	Disabled
Wrap-up Timer	6-7		6	4 sec
Primary Agents	6-8		7	None
Se condary Agents	6-9		8	None
Guaranteed RAN	6-10		9	None
Primary RAN	6-10		10	None
Se condary RAN	6-11		11	None
Transferred RAN	6-11		12	None
Overflow Timer	6-12		13	60 sec
Call Factor	6-13		14	None
ACD TIMERS	6-14	FLASH 61		
ACD Ring Timer	6-14		1	60 sec
ACD Message Interval Timer	6-15		2	60 sec
ACD No-Answer Recall Timer	6-16		5	000=Disabled
ACD No-Answer Retry Timer	6-16		6	300 sec
ACD Guaranteed Message Timer	6-17		7	5 sec
ACD RAN ANNOUNCEMENT TABLES*	6-18	FLASH 62	1–8	None
PC/ACD INTERFACE TRACE	6-21	FLASH 63		
Event Trace Disable/Enable	6-21		1	No (Disabled)
Trace Port Assignment	6-22		2	Port #1
Baud Rate Display	6-23		3	9600 Baud

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
UNIFORM CALL DISTRIBUTION (UCD)	7-1			
UCD GROUP PROGRAMMING	7-3	FLASH 60		
Alternate UCD Group Assignment	7-4		9	None
UCD Overflow Station Assignment	7-5		3	None
UCD Primary Agent Assignments	7-5		7	None
UCD Announcement Assignment (s)	7-6		10-11	None
UCD TIMERS	7-7	FLASH 61		
UCD Ring Timer	<i>7-8</i>		1	60 sec
UCD Message Interval Timer	<i>7-</i> 8		2	60 sec
UCD Overflow Timer	7-9		3	60 sec
UCD Auto Wrap-Up Timer	7-9		4	4 sec
UCD No-Answer Recall Timer	7-10		5	000=Disabled
UCD No-Answer Retry Timer	7-11		6	300 sec
UCD ANNOUNCEMENT TABLES (RAN)	7-11	FLASH 62	1–8	None
VOICE MAIL GROUPS	8-1			
VOICE MAIL PROGRAMMING	8-3	FLASH 65		
Voice Mail Groups (440-447)	8-3		1–8	None
Alternate Voice Mail Group	8-4		9	None
Leave Mail Index Entry	8-5		10	440 = 0
Retrieve Mail Index Entry	8-6		11	440 = 1
Station Assignment(s)	8-6		12	None
VOICE MAIL OUTPULSING TABLE	8-7	FLASH 66		
Voice Mail In-Band Signaling	8-7			
(Table 0)	8-8		1	Pre=P7 Suf=None
(Table 1)	8-8		2	Pre=P7 Suf=*
(Tables 2-6)	8-7		3-7	None
(Table 7)	8-8		8	Pre=P7 Suf=2

^{*}Features available with Optional Software

Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Voice Mail Disconnect Table	8-9		9	None
VOICE MAIL IN-BAND FEATURES	8-10	FLASH 67		
Voice Mail In-Band Digits	8-10		1	Enabled
Voice Mail Transfer/Forward	8-11		2	Enabled
Voice Mail Broker	8-12		3	Enabled
VMID	8-12		4	3
VOICE MAIL INDEX TABLE	8-13	FLASH 68		
Voice Mail Group	8-13		1	None
Voice Mail ID Number	8-13		2	None
EXCEPTION TABLES PROGRAMMING	9-3			
TOLL RESTRICTION PROGRAMMING	9-8	FLASH 70		
Allow Table A Programming	9-10		1	None
Deny Table A Programming	9-12		2	None
Allow Table B Programming	9-10		3	None
Deny Table B Programming	9-12		4	None
Special Table 1 Programming	9-14		5	All Codes Denied
Special Table 2 Programming	9-14		6	All Codes Denied
Special Table 3 Programming	9-14		7	All Codes Denied
Special Table 4 Programming	9-14		8	Home
Area Code for Special Table 1	9-14		9	None
Area Code for Special Table 2	9-14		10	None
Area Code for Special Table 3	9-14		11	None
Displaying Toll Table Entries	9-16		12	None
LEAST COST ROUTING (LCR) PROGRAMMING	10-1			
LCR TABLES PROGRAMMING	10-4	FLASH 75		
3-Digit Area/Office Code Table	10-8		1	None
6-Digit Area/Office Code Table	10-9		2	None

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features	Page #	Program Code	Flex Button	Default Value
Exception Code Table	10-10		3	None
Route List Table	10-10		4	None
Insert/Del ete Table	10-13		5	None
Daily Start Time Table	10-15		6	None
Weekly Schedule Table	10-17		7	None
LCR Routing for Toll Information	10-19		8	Table 0
INITIALIZE DATABASE PARAMETERS	11-1	FLASH 80		
Initial ize System Parameters	11-4		1	Default
Initialize CO Line Attributes	11-9		2	Default
Initialize Station Attributes	11-11		3	Default
Initialize CO Port Parameters	11-13		4	Default
Initialize Exception Tables	11-15		5	Default
Initialize System Speed Numbers	11-16		6	Default
Initialize LCR Tables	11-17		7	Default
Initial ize ICLID-DID Tables	11-18		8	Default
Initialize Dir Dialing Table Parameters	11-19		9	Default
Initialize Hunt Group Parameters	11-20		10	Default
Initialize ACD*/UCD Group Parameters	11-21		11	Default
Initialize Voice Mail* Group Parameters	11-23		12	Default
Initialize DID-TIE Parameters	11-24		13	Default
Initialize Verified Account Code Table	11-25		14	Default
Initialize ISDN Parameters	11-26		15	Default
System Reset	11-28		20	
PRINTING SYSTEM DATABASE PARAMETERS	12-1	FLASH 85		
Printing System Parameters	12-4		1	Default
Printing CO Line Attributes	12-7		2	Default
Printing Station Attributes	12-9		3	Default

^{*}Features available with Optional Software

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Table 1-1: Feature Default Values

Features		Program Code	Flex Button	Default Value
Printing CO Port Parameters	12-11		4	Default
Printing Exception Tables	12-12		5	Default
Printing System Speed Numbers	12-14		6	Default
Printing LCR Tables	12-15		7	Default
Printing Entire System Database	12-27		8	Default
Printing ICLID-DID Tables	12-28		9	Default
Printing Directory Dial Table Parameters	12-42		10	Default
Printing Hunt Group Parameters	12-44		11	Default
Printing ACD*/UCD Group Parameters	12-45		12	Default
Printing Voice Mail* Group Parameters	12-46		13	Default
Printing DID-TIE Parameters	12-48		14	Default
Printing Verified Account Codes	12-49		15	Default
Printing ISDN Parameters	12-50		16	Default
LOAD DATABASE ROUTINE	1-23	FLASH 86		
Upload Database	1-23	_	1	PC Only
Download Database	1-23		2	PC Only

^{*}Features available with Optional Software

Program Mode Entry (Key Station)

Programming is performed at any 24-button Digital Display Terminal. Programming is always done at this type of station regardless of the class of service or which station has been assigned the attendant(s).

To enter the program mode:

- 1. Press the ON/OFF button (optional). LED lights and in tercom dial tone is heard.
- 2. On the dial pad, press [*][*][3][2][2][6] (default password). A confirmation tone is heard.
- 3. The ON/OFF button LED is lit. The system is ready to program.

Program Mode Entry (Data Terminal or PC)

A PC terminal connected to the RS-232C port on the MPB, or remotely through the 2400 baud modem (*Triad 3*) or optional 2400 baud modem on *Triad 1/2*, is used for database programming. When using a data terminal (ASCII or PC capable of emulating an ASCII terminal) on-site or locally, to program the system:

- 1. Press < Enter> on the terminal.
- Enter the password [default=3226VODAVI], and press < Enter> again.
 Proper entry of the password results in the Adm> prompt. Proceed
 with programming referring to Figure 1-1: Data Terminal Program
 Codes Cross Reference for terminal characters that represent the key
 set buttons. By entering [?] from the terminal, a Help screen displays.

When entering the system remotely via a PC, access to the modem is accomplished by accessing Port 499 through a direct ringing assignment or through DISA or by being transferred to Port 499.

Initialization 1-23

Initialization

The system has been pre-programmed with certain features called default data (refer to *Table 1-1: Feature Default Values*). These features are loaded into memory when the system is initialized.



The system should be initialized when installed or at any time the database has been corrupted.

Use the following procedures to return the system database to default values:

- 1. Place Switch #8 on the MPB in the ON position.
- 2. Turn the power off and on to initialize the system database to the default.
- 3. Once database is initialized, place Switch #8 in the OFF position to protect the database.

Database Programming Worksheets

Before attempting programming, it is strongly recommended that customer database worksheets be prepared (Refer to Appendix C in the *Product Description Manual*). These worksheets should become part of the permanent record of customer programming. Refer to the following sections when preparing the worksheets.

Database Upload/Download Routine

The Database Upload/Download Routine (FLASH 86) provides a maintenance facility which permits the user to download the database to a PC, when a software change is made or when the system needs to be initialized and reprogrammed. The Upload/Download Routine facilitates the programming of a database on an in-house system which is downloaded to a PC and then uploaded to a system in the field.

After the system maintenance is completed, the file saved in the PC can then be uploaded to the system.



All trace modes such as: SMDR (Flash 21), ICLID (Flash56), and Maintenance Event Traces MUST be turned off before a download is performed!

Default telephone type = 24 button model

Upload/Download through Remote Administration

First, connect on e end of an RS-232C serial cable from the RS-232C connector on the MPB to the desired Comm Port on the PC.



Use a straight-through DB-9 to DB-9 (fem ale to female) cable.

(D B-9)	Conn ec tio n	PC Side (DB-9)
1		1
2		> 2
3 ◀-		→ 3
4 -		4
5		▶ 5
6		► 6
7		7
8		8
9		9

Figure 1-3: KSU to PC Connection Configuration

Then load a communication software package (i.e., Procomm) into the PC and complete the following steps to reconfigure the system.

PROCOMM -- Downloading a Database File

1. Make necessary changes to the areas shown in the following table, and save information to capture new system settings:

Table 1-2: Database Download Settings

	System Options	Settings
	Parameters: a + [P]	
Baud Rate		9600 Baud N for Parity 8 Bits 1 Stop Bit
	Setup Options: a + [S]	
Item A Item D Item E Item F Item I Item J Item K Item L	Echo Locally Character Pacing Line Pacing Pace Character CR Translation (upload) LF Translation (upload) CR Translation (download) LF Translation (download)	OFF 0 0 0 NONE NONE NONE NONE
	Protocol Options	
Item C*	Abort xfer if CD lost	NO
* For Procor	nm Plus Version 2.01 or higher	

2. Press < Enter> and the following screen displays:

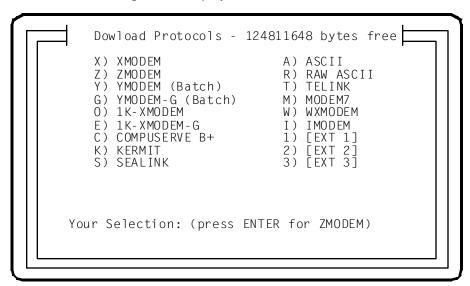
Eng. Ver. 0.0e-FFFF DATE: MM/DD/YY TIME: HH:MM:SS ENTER PASSWORD:

3. Type the password [default=3226VODAVI] and press <Enter>. Proper entry of the password results in the ADM> prompt.

4. To select the appropriate codes for the following screen capture, refer to *Figure 1-1* for terminal characters that represent the key set buttons. For assistance, type a [?] to display a Help screen.

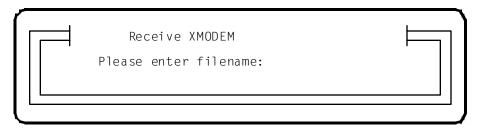
```
Eng. Ver. 0.0e-FFFF DATE: MM/DD/YY TIME: HH:MM:SS
ENTER PASSWORD:
adm>
 ADMIN PROGRAMMING
adm>,
 ENTER PROGRAM NO
adm > 86 (and press Enter)
 LOAD DATABASE ROUTINE
 ENTER BUTTON NUMBER
adm > w (and press Enter)
                                  The HOLD button on a keyset is the same
 DOWNLOAD DATABASE
                                  as the <Enter> key on the keyboard.
 PRESS HOLD
                                  Press Enter.
adm>
```

5. Press < PgDn > to display the Download Protocol screen.



6. Type **X** to send the upload file to the X-Modem for tracking and correcting errors during the upload procedure.

7. When the Receive XMODEM screen displays, enter path and file name for database file, then press <Enter> to begin the download routine.



The download is complete when a confirmation tone is heard from the communications package and the ADM> prompt returns.

- 8. Type M and press <Enter>.
- 9. Press < Alt> + <X>.
- 10. To exit Procomm and return to the DOS prompt, press < Enter >.



The Downloaded Database cannot be changed in the PC. The Upload/ Download Routine is only a method to save an existing database. Database changes are made using the remote admin capabilities.

Baud rates on I/O ports are NOT downloaded or uploaded.

The download file contains a series of ASCII strings with a checksum at the end of the string. The checksum is verified when the system receives the string. An error in the checksum results in rejection of the string. An error message is sent to the PC when a string is received with an error.



The Database must be initialized prior to an upload. The system should then be reset after the upload.

If the file uploaded from the PC contains:

- □ **Less** information in a string than required by the system database, the system maintains default info in the area not covered by string.
- More information in a string than required by the system database, the system ignores the additional information.

PROCOMM -- Uploading an ASCII Database File

1. Enter the information on the following screen capture.

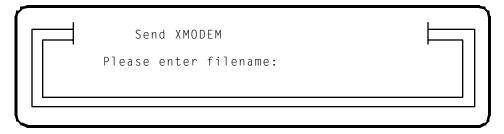
```
Eng. Ver. 0.0e-FFFF DATE: MM/DD/YY TIME: HH:MM:SS
ENTER PASSWORD:
adm>
 ADMIN PROGRAMMING
adm>.
 ENTER PROGRAM NO
adm > 86 (and press Enter)
 LOAD DATABASE ROUTINE
 ENTER BUTTON NUMBER
adm>q (and press Enter)
                                 The HOLD button on a keyset is the same
 UPLOAD DATEBASE
                                 as the <Enter> key on the keyboard.
 PRESS HOLD -
                                 Press Enter.
adm>
```

2. Press < PgUp > and the Upload Protocols screen displays:

```
Upload Protocols - 124811648 bytes free
   X) XMODEM
                              A) ASCII
   Z) ZMODEM
                              R) RAW ASCII
   Y) YMODEM (Batch)
G) YMODEM-G (Batch)
                              T) TELINK
                            M) MODEM7
   0) 1K-XMODEM
                             W) WXMODEM
   E) 1K-XMODEM-G
                             I) IMODEM
   C) COMPUSERVE B+
                             1) [EXT 1]
   K) KERMIT
                             2) [EXT 2]
   S) SEALINK
                              3) [EXT 3]
Your Selection: (press ENTER for XMODEM)
```

3. Type **X** to send the upload file to the X-Modem for tracking and correcting errors during the upload procedure.

4. When the Send XMODEM screen displays, enter a path and file name for the database file and press <Enter> to upload desired file to the system.



The upload is complete when a confirmation tone is heard and the ADM> prompt returns.

5. Type **M** and press <Enter>. The following screen displays:

```
adm>m
exiting admin...

DATE: MM/DD/YY TIME:HH:MM:SS
exiting maintenance utility...
```

- 6. Press < Alt> + <X>.
- 7. To exit Procomm and return to the DOS prompt, press < Enter >.
- 8. When the upload procedure is completed, reset the system for full activation of the database programming to take effect.

HYPER TERMINAL -- Uploading a Database File

After opening Hyper Terminal, and the New Connection screen displays, complete the following steps:

- 1. Type a connection name and select the appropriate icon, then click <OK>.
- 2. When the Phone Number screen displays, change the setting in the Connect Using box to: Direct to COM1, and then click < OK>.
- 3. Once the COM1 Properties screen displays, change the settings as shown, and then click <OK>.
 - □ Baud Rate = 9600
 - □ Parity = None
 - □ Data Bits = 8
 - \square Stop Bits = 1
 - ☐ Flow Control = Xon/Xoff
- 4. Press < Enter> and complete the following fields:

Screen Field	Action
ENTER PASSWORD:	Type password: XXXXVODAVI (XXXX = default password for online administration)
ADM>,	Type program number.
ADM>86	Load database routine. Type button number.
ADM>Q	Upload database. Press HOLD button.
ADM>	Press <enter> key twice.</enter>

- 5. On the tool bar, click < Transfer> and select Send File.
- 6. Change Protocol setting to XMODEM.
- 7. Click <Browse> to locate database file; double-click on the filename.
- 8. Click <Send>. Adm> prompt displays when file transfer is complete.

HYPER TERMINAL -- Downloading a Database File

After opening Hyper Terminal, and the New Connection screen displays, complete the following steps:

- 1. Type connection name and select appropriate icon, then click < OK >.
- 2. When the Phone Number screen displays, change the setting in the Connect Using box to: Direct to COM1, and then click < OK >.
- 3. Once the COM1 Properties screen displays, change the settings as shown, and then click <OK>.
 - □ Baud Rate = 9600
 - □ Parity = None
 - □ Data Bits = 8
 - \square Stop Bits = 1
 - ☐ Flow Control = Xon/Xoff
- 4. Press < Enter> and complete the following fields:

Screen Fields	Action
ENTER PASSWORD:	Type password: XXXXVODAVI (XXXX = default password for online administration)
ADM>,	Type program number.
ADM>86	Load database routine. Type button number.
ADM>W	Download database. Press HOLD button.
A DM>	Press <enter> key twice.</enter>

- 5. On the tool bar, click < Transfer> and select Receive File.
- 6. Change Receive Protocol setting to XMODEM, and click <Receive>.
- 7. Type database filename and click <OK>. The Adm> prompt displays when the file transfer is complete.

ECOM -- Uploading a Database File

After opening ECOM:

- 1. Press< Alt> + <P> to open COM Port Options.
- 2. Change COM port settings as follows, and click < OK>.
 - ☐ Baud Rate = 9600
 - □ Parity = None
 - □ Data Bits = 8
 - □ Stop Bits = 1
 - ☐ Flow Control = no boxes checked, Xon=17, Xoff=19
- 3. Press < Enter> and complete the following fields:

Screen Fields	Action
ENTER PASSWORD:	Type password: XXXXVODAVI (XXXX = default password for online administration)
ADM>,	Type program number.
ADM>86	Load database routine. Type button number.
ADM>Q	Upload database. Press HOLD button.
ADM>	Press <enter> key twice.</enter>

- 4. Press < PgUp > on key board or locate file and select Upload.
- 5. Highlight XMODEM and dick < OK>.
- 6. Type or select upload filename and click < OK>. The Adm> prompt displays when the file transfer is complete.

ECOM -- Downloading a Database File

After opening ECOM:

- 1. Press< Alt> + <P> to open COM Port Options.
- 2. Change COM port settings as follows, and click < OK>.
 - ☐ Baud Rate = 9600
 - □ Parity = None
 - □ Data Bits = 8
 - □ Stop Bits = 1
 - ☐ Flow Control = no boxes checked, Xon=17, Xoff=19
- 3. Press < Enter> and complete the following fields:

Screen Fields	Action
ENTER PASSWORD:	Type password: XXXXVODAVI (XXXX = default password for online administration)
ADM>,	Type program number.
ADM>86	Load database routine. Type button number.
ADM>W	Download database. Press HOLD button.
ADM>	Press <enter> key twice.</enter>

- 4. Press < PgDn > on keyboard or locate file and select Download.
- 5. Highlight XMODEM and dick < OK>.
- 6. Type or select download filename and click < OK > . The Adm > prompt displays when the file transfer is complete.

2 System Parameters Programming

This chapter describes the procedures and steps needed to program system features for the *Triad 1/2/3* Systems.

System Timers

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

Press FLASH and dial [01]. The following message displays:

SYSTEM TIMERS ENTER BUTTON NUMBER

Description

This section describes the procedures and steps to program system timers in the System Timers programming area. The buttons on a digital telephone are shown in the following illustration:

SYSTEM HOLD RECALL # 1 Q	EXCLHOLD RECALL ** 2 W	ATTENDANT RECALL ** 3 E	TRANSFER RECALL # 4 R
PRESET	CALL FWD	PAUSE	CALL PARK
FORWARD	NO/ANSWER	TIMER	TIMER
※ 5 T	⋇ <u>6</u> Y	※ 7 U	※ 8 I
CONF/DISA	PAGING	CO RING DETECT # 11 A	DISA/SLT
TIMER	TIMEOUT		REC⊟VER
※	※ 10 P		※ 12 S
MSG WAIT	HOOK	HOOK FLASH DEBOUNCE # 15 G	SMDR CALL
REMINDER	FLASH		QUALIFICATION
※ 13 D]	⋇ 【14 F】		∰ 16 H
AUTO CALL	REMINDER	*	INTER-DIGIT
BACK TIMER	RING		TIMEOUT
※ 17 J	* ■ 18 K		₩ 20 ;
* 21 Z	※ 22 X	<u> </u>	*

2-4 System Timers

Table 2-1: System Timer Defaults

Program	Flex	Feature	Default
Code	Button		(afterinitialization)
FLASH 01	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20	System Hold Recall Exclusive Hold Recall Attendant Recall Timer Transfer Recall Timer Preset Forward Timer Call Forward No/Answer Pause Timer Call Park Recall Timer Conference/DISA Timer Paging Timeout Timer CO Ring Detect Timer SLT DTMF Receiver Timer MSG Wait Reminder Tone SLT Hook Flash Timer SLT Hook Flash Debounce SMDR Call Qualification Timer Auto Call Back Timer Reminder Ring Timer Inter-Digit Timeout	060 seconds 180 seconds 01 minute 045 seconds 10 seconds 10 seconds 2 seconds 180 seconds 10 minutes 15 seconds 300 ms 020 seconds 000 minutes 10 (1 second) 030=.3 seconds 30 seconds 03 seconds (15 seconds

System Hold Recall Timer

Programming Steps

1. Press the SYSTEM HOLD RECALL TIMER flex button (FLASH 01, Button #1). The following message displays:

CVCTEM	1101.0	DECALL	0.00 30.0	
SYSTEM	HOLD	RECALL	000-300	
060				
060				

- 2. Enter a valid number on the dial pad that corresponds to 000-300 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The System Hold Recall Timer determines the time before a call placed on System Hold recalls the station placing the hold. If unanswered by that station, the call recalls the attendant.

By default, the System Hold Recall Timer is set for 60 seconds and is variable from 000-300 seconds. An entry of 000 disables the timer and there is no recall.

Exclusive Hold Recall Timer

Programming Steps

1. Press the EXCLUSIVE HOLD RECALL TIMER flex button (FLASH 01, Button #2). The following message displays:

EXC HOLD RECALL	000-300	
180		

- 2. Enter a valid number on the dial pad that corresponds to 000-300 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The System Hold Recall Timer determines the time before a call placed on Exclusive Hold recalls the station placing the Hold. If unanswered by that station, the call recalls the attendant.

By default, the Exclusive Hold Recall Timer is set for 180 seconds and is variable from 000-300 seconds. An entry of 000 disables the timer and there is no recall.

2-6 System Timers

Attendant Recall Timer

Programming Steps

1. Press the ATTENDANT RECALL TIMER flex button (FLASH 01, Button #3). The following message displays:

```
ATND RECALL TIMER 00-60
```

- 2. Enter a valid number on the dial pad that corresponds to 00-60 minutes.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Attendant Recall Timer determines the time a recalling call rings at the attendant station(s) before the system releases the line. When a CO Line recalls to the Attendant station and is still unanswered, the system releases the line at the expiration of this timer and automatically places the line to an idle condition.

By default, the Attendant Recall Timer is set for 1 minute and is variable from 00–60 minutes. An entry of 00 causes the Attendant(s) to ring until answered.

Transfer Recall Timer

Programming Steps

- 1. Press the TRANSFER RECALL TIMER flex button (FLASH 01, Button #4). The following message displays:
- 2. Enter a valid number on the dial pad that corresponds to 000-300 seconds.

TRANSFER RECALL	000-300	
045		

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Transfer Recall Timer determines the time a transferred call rings at the station receiving the transfer before it recalls the station making the transfer. If unanswered by that station, the call recalls the attendant. By default, the Transfer Recall Timer is set for 45 seconds and is variable from 000-300 seconds. A 000 entry disables the timer and there is no recall.

Preset Forward Timer

Programming Steps

1. Press the PRESET FORWARD TIMER flex button (FLASH 01, Button #5). The following message displays:



- 2. Enter a valid number on the dial pad that corresponds to 01-99 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Preset Forward Timer determines the time an outside line rings before being forwarded to a predetermined station. This entry works with Preset Forward station assignments in Station Programming. More than one station can be forwarded to the same party.



Initial incoming CO lines follow the Preset Call Forward Timer when encountering a station in the Forward/No Answer mode.

This timer also governs the time the DISA call rings at a station before returning to intercom dial tone, if not answered. By default, the Preset Forward Timer is set at 10 seconds and is variable from 01–99 seconds. If no preset forward destination is programmed, the feature is disabled.

2-8 System Timers

Call Forward No Answer Timer

Programming Steps

 Press the CALL FORWARD NO ANSWER TIMER flex button (FLASH 01, button #6). The following message displays:

CALL FWD NO ANS	000-600	
015		

- 2. Enter a valid number on the dial pad that corresponds to 000-600 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Call Forward No/Answer Timer is used when a station in the system specifies that no answer calls be forwarded to another station. The timer determines how long an intercomor transferred call rings before it is considered a no-answer call. The call then forwards to the designated station for handling. By default, the Call Forward No/Answer Timer is set for 15 seconds and is variable from 000-600 seconds.



Initial incoming CO lines follow the Preset Call Forward Timer when encountering a station in the Forward / No Answer mode.

Pause Timer

Programing Steps

1. Press the PAUSETIMER flex button (FLA SH 01, Button #7). The following message displays:

```
PAUSE TIMER 1-9
```

- 2. Enter a valid number on the dial pad that corresponds to 1-9 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Pause Timer determines the length of the pause when programmed for use with speed dialing and LCR Insert Tables. By default, the Pause Timer is set at 2 seconds and is variable from 1–9 seconds. There is no 0 entry. Using this feature may affect Centrex transfers.

Call Park Recall Timer

Programming Steps

1. Press the CALL PARK RECALL TIMER flex button (FLASH 01, Button #8). The following message displays:

CALL PARK	TIMER	000-600
180		

- 2. Enter a valid number on the dial pad that corresponds to 001-600 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Call Park Recall Timer determines the time before a call placed in a Call Park location recalls the station placing the call in park. If unanswered by that station, the call recalls the attendant.

By default, the Call Park Recall Timer is set at 180 seconds and is variable from 000–600 seconds. A 000 entry disables the timer and there is no recall.

2-10 System Timers

Conference / DISA Timer

Programming Steps

 Press the CONFERENCE/DISA TIMER flex button (FLASH 01, Button #9). The following message displays:

CONFERENCE TIMER	00-99
10	

- 2. Enter a valid number on the dial pad that corresponds to 01-99 minutes.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Conference/DISA Timer determines the time an unsupervised conference can continue after the initiator of the conference has exited.

By default, the Conference/DISA Timer is set at 10 minutes and is variable from 01–99 minutes. A 00 entry disables the timer and no automatic disconnect occurs.



The Conference Timer also allows the system administrator to control the time a DISA caller is allowed after establishing a Trunk-to-Trunk call. At the expiration of the Conference Timer, a tone is presented to both DISA parties, then one minute later the system automatically releases both trunks.

The Conference Timer does not affect or control a DISA-to-Station call.

Paging Time-Out Timer

Programming Steps

1. Press the PAGING TIMEOUT TIMER flex button (FLASH 01, Button #10). The following message displays:

PAGING TIMEOUT	00-60
15	

2. Enter a valid number on the dial pad that corresponds to 01-60 seconds.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Paging Time-Out Timer determines the maximum length of a page announcement (internal, external or all call). The system automatically disconnects the page at the end of this time unless the person making the page has already hung up.

By default, the Paging Time-out Timer is set at 15 seconds and is variable from 01–60 seconds. A 00 entry disables the timer and pages are not limited in length. This affects the use of the Meet Me Page feature.

CO Ring Detect Timer

Programming Steps

 Press the CO RING DETECT TIMER flex button (FLASH 01, Button #11). The following message displays:

CO RING DETECT	2-9
3	

- 2. Enter a valid number on the dial pad that corresponds to 2-9 (200 ms to 900 ms).
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The CO Ring Detect Timer controls the time necessary to detect an outside line ringing into the system.

By default, the CO Ring Detect Timer is set at 3 (300 ms), and is variable from 2-9 (200 ms to 900ms). There is no 0 or 1 entry.

2-12 System Timers

SLT DTMF Receiver Timer

Programming Steps

 Press the SLT DTMF RECEIVER TIMER flex button (FLASH 01, Button #12). The following message displays:

SLT RCVR TIMER	005-100
020	

- 2. Enter a valid number that corresponds to 005–100 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Single line telephones require the use of a DTMF receiver when going off-hook and dialing. When SMDR or toll restriction (via COS assignments) is enabled, a DTMF receiver monitors and screens the SLT digits for the duration of this timer. By adjusting this timer, the system administrator may free system DTMF receivers sooner if system SLT traffic is heavy, or provide a longer monitoring period if toll restriction becomes a problem.

Note that when LCR is enabled, the DTMF receivers are released when the expected number of digits are dialed as entered in the LCR database.

By default, the SLT DTMF Receiver Timer is set at 20 seconds and is variable from 005-100 seconds.

Message Wait Reminder Tone

Programming Steps

 Press the MESSAGE WAIT REMINDER TONE flex button (FLA SH 01, Button #13). The following message displays:

M / W TONE TIMER	000-104
000	

2. Enter a valid number on the dial pad that corresponds to 000-104 minutes.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Message Wait Reminder Timer determines the time between repeated reminder tones to a key telephone with a message waiting. Digital station users may be reminded of a message waiting on their telephone with an audible signal presented at a timed interval.

By default, the Message Wait Reminder Tone is set at 000 (disabled) and is variable from 000-104 minutes.

SLT Hook Flash Timer

Programming Steps

 Press the SLTHOOK FLASH TIMER flex button (FLASH 01, Button #14). The following message displays:

HOOK SWITCH	TIME	05-20
10		

- 2. Enter a valid number on the dial pad that corresponds to 0.5-2.0 seconds in 1/10 second increments.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The SLT Hook Flash Timer determines how long an SLT user presses the hook switch for it to be considered a valid on hook (disconnect) request. An on-hook shorter in duration (but longer than the Hook Switch Bounce Timer) is considered a Hook Flash (transfer) request. Refer to Figure 2-1.

By default, the SLT Hook Flash Timer is set at 10 (one second) and is variable from 0.5-2.0 seconds.



Some SLTs have a fixed or programmable Flash Timer (Flash or Tap butt on). This Hook Switch Timer must be set long er than the SLT Flash Timer to allow Hook Flash transfer. 2-14 System Timers

SLT Hook Flash Debounce Timer

Programming Steps

 Press the SLT HOOK FLASH DEBOUNCE TIMER flex button (FLASH 01, Button #15). The following message displays:

HOOK SWT BOUNCE	000-100	
030		

- 2. Enter a valid number on the dial pad that corresponds to 0-1 seconds in 10 ms increments.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The SLT Hook Flash Debounce Timer determines the time needed to determine a valid on-hook or off-hook condition for single line telephones. On-Hook or Off-Hook signals that are shorter in duration than this timer are ignored by the system. Refer to *Figure 2-1*.

By default, the SLT Hook Flash Debounce Timer is set to 0.30 seconds and is variable from 0-1 seconds in 10 ms increments. This is a 3-digit entry where 010 equals 0.1 seconds.

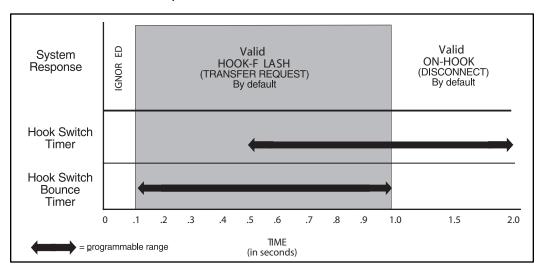


Figure 2-1: Hook Switch Activity

SMDR Call Qualification Timer

Programming Steps

 Press the SMDR CALL QUALTIMER flex button (FLASH 01, Button #16). The following message displays:

```
SMDR CALL QUAL 00-60
```

- 2. Enter a valid number on the dial pad that corresponds to 00-60 seconds in 1-second increments.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The SMDR Call Qualification Timer determines the time needed to determine a valid SMDR call for reporting purposes. By default, the SMDR Call Qualification Timer is set to 30 seconds and is variable from 00-60 seconds in 1-second increments.

Automatic Call Back Timer

Programming Steps

1. Press the AUTO CALL BACK TIMER flex button (FLASH 01, Button #17). The following message displays:

AUTO CALL BACK	00-99
03	

- 2. Enter a valid number on the dial pad that corresponds to 00-99 seconds in 1 second increments.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

2-16 System Timers

Description

The Automatic Call Back Timer in vokes a call back anytime a user listens to busy tone for a programmable period of time. By default, the Automatic Call Back Timer is set for 03 seconds (enabled), and is variable from 00-99 seconds. A value of 00 disables this timer. An Automatic Call Back does not occur when this timer is disabled.

Reminder Ring Timer

Programming Steps

 Press the REMINDER RING flex button (FLASH 01, Button #18). The following message displays:

REMINDER	RING	00-99
00		

- 2. Enter a valid number that corresponds to 00-99 seconds in 1 second increments. A value of 00 disables the timer, therefore the user only receives one ring burst at the beginning of the call.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

When a CO line rings at a busy station, the call rings at the station using muted ringing. The CO Line Ringing Option feature enables a user to receive a reminder ring instead of muted ring. This timer provides a reminder ring every time the timer expires, as long as the incoming CO line remains connected.

If the user continues their present conversation and the CO party does not hang up, the Reminder Ring timer expires and the user receives another ring burst. When the key set user ends the existing call, ringing for the CO call reverts to normal ringing.

By default, the Reminder Ring Timer is set to 00 second and is variable from 00-99 seconds in 1 second increments.

Inter-Digit Time-Out

Programming Steps

Press the INTER-DIGITTIMEOUT flex button (FLASH 01, Button #20).
 The following message displays:



- 2. Enter a valid number on the dial pad that corresponds to 01-99 seconds in 1 second increments.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Inter-Digit Time-Out feature provides inter-digit time-out programming on a system-wide basis and applies to intercom and LCR calls. DISA, DID. TIE inter-digit time-outs remain unaffected by this timer. By default, the Inter-Digit Time-out is set for 5 seconds, and is variable from 1–99 seconds.

Additional System Timers

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

Press **FLASH** and dial **[02]**. The following message displays:

SYSTEM TIMERS ENTER BUTTON NUMBER

This section describes the procedures and steps necessary to program additional System Timers in the Timers programming area.

SYSTEM REDIAL TIMER ∰ 1 Q	ATD DISPLAY TIMER	CALL CVRG RING TIMER	MODEM ANSWER T/O ∰ 4 R I
PULSE DIAL I/O TIMER # 5 T	DTMF TIME OP ERATION	※ 7 ∪	* 8 1
* 9 0	₩ 10 P	₩ 11 A	* 12 5
<u> </u>	₩ 14 F	☀ 15 G	<u> </u>
<u></u>	₩ 18 K	₩ 19 L	※ 20 ;
₩ 21 Z	¥ 22 X	業 23 €	₩ 24 V

Table 2-2: Additional System Timers Defaults

Program	Flex	Feature	Default
Code	Button		(after initialization)
		Additional System Timers	
FLASH 02	1	Repeat Redial Timer	060 seconds
	2	ATD Display Timer	01 seconds
	3	Call Coverage Ring Timer	5 seconds
	4	Modem Answer Time-out	25 seconds
	5	Pulse Dial Inter-Digit Timer	3 00 ms
	6	DTMF Time Operation	100 ms ON / 100ms OFF

Repeat Redial Timer

Programming Steps

 Press the RPT REDIAL TIMER flex button (FLASH 02, Button #1). The following message displays

RPT REDIAL	006-999
060	

- 2. Enter a valid number that corresponds to 006-999 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Repeat Redial Timer lets a digital key station press a flexible button or dial a code and redial a busy or no-answer number at specific intervals. The user is signaled via a queue callback indication.

The Redial flexible button flashes at the callback rate of 120 ipm for 15 seconds.

- ☐ If station does not answer within 15 seconds, the callback is cancelled.
- ☐ If station is busy with an internal/external call when the Redial queue callback occurs, the callback occurs after the user goes on-hook.

By default, the Repeat Redial Timer is set for 1 minute (60) and is variable from 006-999 seconds.

Attendant Display Timer

Programming Steps

1. Press the ATTENDANT DISPLAY TIMER flex button (FLASH 02, Button #2). The following message displays:

00-99		ATTENDANT DISPLAY	00-99
-------	--	-------------------	-------

2. Enter a valid number on the dial pad that corresponds to 00-99 seconds.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Attendant Display Timer modifies the way in which multiple calls ringing at the attendant station display. Currently, if two calls are ringing at an attendant station, when the station goes off hook, the first call is answered. The LCD updates to show the second call that is ringing which sometimes does not allow the station to view the current call's LCD information. This timer keeps the current call's information on the LCD for the set time period, then shows any other calls ringing in at the time.

By default, the Attendant Display Timer is set for 1 second and is variable from 00-99 seconds.

Call Coverage Ring Timer

Programming Steps

1. Press the CALL CVRG RING TIMER flex button (FLASH 02, Button #3). The following message displays:

CALL COVERAGE RING	00-99
05	

- 2. Enter a valid number on the dial pad that corresponds to 00-99 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A Call Coverage Ring Timer enables the user to place another station under a flex button. When that station rings with an internal or external call, the DSS button for that station rings or flashes.

By default, the Call Coverage Ring Timer is set for 5 seconds and is variable from 00-99 seconds. A value of 00 results in the LED flashing but the call coverage station does not ring.

Modem Answer Timer

Programming Steps

 Press the MODEM ANSWER TIMER flex button (FLASH 02, Button #4). The following message displays:

MODEM ANSWERT/O	025-999	
25		

- 2. Enter a valid number on the dial pad that corresponds to 025-999 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Modem Answer Timer determines how long the On Board modem provides a carrier tone to a distant modem. If a connection is not made at the end of this timer, the On Board modem hangs up.

By default, the Modem Answer Timer is set for 25 seconds and is variable from 25-999 seconds.

Pulse Dial Inter-Digit Timer

Programming Steps

1. Press the PULSE DIAL I/D TIMER flex button (FLASH 02, Button #5). The following message displays:

INT DIGIT PULSE	300-600	
300		

- 2. Enter a valid number on the dial pad that corresponds to 300-600 ms.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

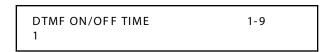
Description

This governs the inter-digit time of the Pulse Dial Digits, rotary dial mode. By default, the Pulse Dial Ring Timer is set for 300 ms and is variable from 300-600 ms.

DTMF On/Off Time Operation

Programming Steps

Press the DTMF TIME OPERATION flex button (FLASH 02, Button #6).
 The following message displays:



- 2. Enter a valid number (1-9) on the dial pad for the DTMF On and Off Times (100-900 ms).
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The DTMF On/Off Time feature lets the installer select the DTMF On/Off Time on a system-wide basis. This lets the installer customize the system for certain applications that require more than the standard DTMF Time of 100ms on and 100ms off.

By default, the DTMF Time Operation is set for 100 ms On and 100 ms Off.

System Features 1 Programming

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

Press FLASH and dial [05]. The following message displays:

SYSTEM FEATURES 1 ENTER BUTTON NUMBER

Description

This section describes the procedures and steps necessary to program System Features in the System Features programming area. The buttons on a digital telephone are shown in the following illustration:

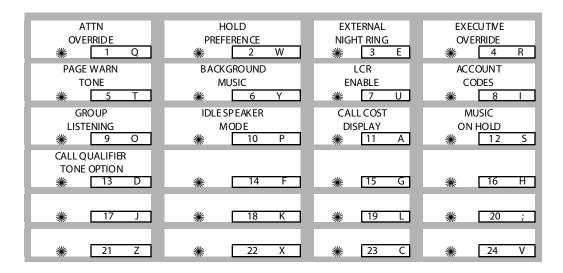


Table 2-3: System Features 1 Defaults

Program Code	Flex Button	Feature	Default (After Initialization)
FLASH 05	1 2 3 4 5 6 7 8 9 10 11	Attendant Override Hold Preference External Night Ring Executive Warning Page Warning Tone Background Music Least Cost Routing Account Code Group Listening Idle Speaker Mode Call Cost Display Feature Music On Hold	Disabled System Disabled Enabled Enabled Enabled Disabled Disabled Disabled Disabled
	5 6 7 8 9 10 11	Executive Warning Page Warning Tone Background Music Least Cost Routing Account Code Group Listening Idle Speaker Mode Call Cost Display Feature	Enabled Enabled Enabled Disabled Disabled Disabled Disabled Disabled

Attendant Override

Programming Steps

- 1. Press the ATTN OVERRIDE flex button (FLASH 05, Button #1).
- 2. Enter a valid number (0 or 1) that corresponds with the following entries:

[0] = Disabled

[1] = Enabled

ATTENDANT OVERRIDE 1-0 DISABLED

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

When the Attendant Override feature is enabled, it lets the attendant override a busy station or a station in DND. By default, Attendant Override is disabled.



Attendant Override functions ONLY when the Attendant station is assigned a flex button designated as Attendant Override.

Hold Preference

Programming Steps

- 1. Press the HOLD PREF flex button (FLASH 05, Button #2).
- 2. Enter a valid number (0 or 1) that corresponds with the following entries:

[0] = Exclusive Hold

[1] = System Hold

HOLD PREFERENCE 0-1 SYSTEM

3. Press HOLD to save the entry. A confirmation tone is heard.

The system may be programmed to have Exclusive or System Hold.

- ☐ For Exclusive Hold: Press HOLD once for Exclusive Hold, and twice for System Hold.
- ☐ For System Hold: Press HOLD once for System Hold, and twice for Exclusive Hold.

Refer to *System Timers* for System and Exclusive Hold recall times. By default, Hold Preference is System Hold.

External Night Ring

Programming Steps

- 1. Press the EXT NIGHT RING flex button (FLASH 05, Button #3).
- 2. Enter a valid number (0 or 1) that corresponds with the following entries:

[0] = Disabled

[1] = Enabled

EXTERNAL NIGHT RING 0-1 DISABLED

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

When External Night Ring is set to yes, it activates External Night Ring which produces a tone that is sent over all external page groups.

When outside lines are marked UNA, ringing activates a tone over external paging when an incoming call occurs on those lines during night service. By default, External Night Ring is disabled.

Executive Override Warning Tone

Programming Steps

- 1. Press the EXEC OVER WARN TONE flex button (FLASH 05, Button #4).
- 2. Enter a valid number (0 or 1) that corresponds with the following entries:

[0] = Disabled

[1] = Enabled

EXECUTIVE WARNING 0-1 ENABLED

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Executive Override Warning enables Executive stations to override and barge-in on other key sets engaged in conversation on a CO line. Prior to actual cut through of the third party, a warning tone is presented to all parties notifying them of the barge-in. This warning tone, however, is a programmable option on a system-wide basis, that either enables or disables the tone. When the tone is disabled, no audible signal is presented to the parties to signal the barge-in.

By default, Executive Override Warning Tone is enabled.



Use of this feature when the Executive Override Warning Tone is disabled may be interpreted as a violation of federal, state, or locallaws, and an invasion of privacy. Check applicable laws in your area before intruding on calls using this feature.



A change in volume may occur on the CO line or intercom call after the barge-in occurs. This feature also affects ACD Supervisor Barge-in warning to ne.

Page Warning Tone

Programming Steps

- 1. Press the PAGE WARN TONE flex button (FLASH 05, Button #5).
- 2. Enter a valid number (0 or 1) that corresponds with the following:
 - [0] = Disabled
 - [1] = Enabled

```
PAGE WARNING TONE 0-1
ENABLED
```

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Page Warning Tone determines whether a page warning tone sounds over the Key Telephone speakers or external paging speakers, prior to a page announcement. By default, Page Warning Tone is enabled.

Background Music

Programming Steps

- 1. Press the BACKGROUND MUSIC flex button (FLASH 05, Button #6).
- 2. Enter a valid number (0 or 1) that corresponds with the following:
 - [0] = Disabled
 - [1] = Enabled

BACKGROUND ENABLED	MUSIC	0-1
LINABLED		

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The system can be programmed to let stations activate their Background Music, in addition to Music-On-Hold. A music source must be connected to the BGM/MOH connector on the MISU. By default, the Background Music channel is enabled.

Least Cost Routing (LCR)

Programming Steps

- Press the LCR ENABLE flex button (FLASH 05, Button #7).
- 2. Enter a 0 or 1 that corresponds with the following entries:
 - [0] = Disabled
 - [1] = Enabled

LEAST COST ROUTING 0-1 DISABLED

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

When Least Cost Routing is used, it must be enabled here. Before enabling LCR, refer to the Least Cost Routing section (Flash 75) and programming tables (*Product Description Manual - Appendix C*).

When the tables are programmed, you may then enable LCR for the system. After system initialization, a default LCR database is loaded into the LCR section of memory. By default, LCR is disabled.

Account Codes - Forced

Programming Steps

- Press ACCOUNT CODES flex button (FLASH 05, Button #8) to determine whether the use of Account Codes is forced or optional.
- 2. Enter a 0 or 1 that corresponds with the following entries:
 - [0] = Disabled
 - [1] = Enabled

FORCED ACCOUNT CODE 0-1 DISABLED

3. Press HOLD to save the entry. A confirmation tone is heard.

The system can force account codes on all restricted calls.

- ☐ When Forced Account Code is enabled, and account code is entered, a station's Class of Service is upgraded to day COS1, night COS1.
- ☐ If option is disabled, a station's COS is not upgraded but the account code continues to be part of the SMDR record.

By default, using account codes is optional.

Group Listening

Programming Steps

- 1. Press the GROUP LISTENING flex button (FLASH 05, Button #9).
- 2. Enter a 0 or 1 that corresponds with the following entries:
 - [0] = Disabled
 - [1] = Enabled



3. Press HOLD to save the entry. A confirmation tone is heard.

Description

All digital key telephones have built-in speakerphones. Station users may use the speaker to monitor a call while using the handset to converse with the outside party. This enables other people in the room to listen to both parties in the conversation. Group listening is unavailable when the station is in the headset mode. By default, Group Listening is disabled.

Idle Speaker Mode

Programming Steps

- Press the IDLE SPEAKER MODE flex button (FLASH 05, Button #10).
- 2. Enter a 0 or 1 that corresponds with the following entries:
 - [0] = First digit dialed is Heard (Disabled)
 - [1] = First digit dialed is Muted (Enabled)



3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Idle Speaker Mode feature determines whether the first digit dialed is heard over the digital key telephone speaker. This feature can be enabled or disabled on a system-wide basis. By default, this mode is disabled.

Call Cost Display

Programming Steps

- 1. Press the CALL COST DISPLAY flex button (FLASH 05, Button #11).
- 2. Enter a 0 or 1 that corresponds with the following entries:
 - [0] = Disabled
 - [1] = Enabled



3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Call Cost Display feature lets a user view the approximate cost of each call made. This approximate cost also prints as part of the SMDR record. The Call Cost Display replaces the call duration display when a call is made using LCR. Cost information is programmable in LCR Flash 75. This enables users to program four separate costs based on time of day.

Costs entered in the tables are costs for one minute, however, costs are calculated using 1/10th of a minute value. These costs are rounded down and based on the call start time, even if the call extends into a different time period. The SMDR printout contains a cost calculated using 1/10th of a minute increment, however the station display updates approximately every 30 seconds. The user must use LCR to get the call cost display. By default, the Call Cost Display feature is disabled.

Music-On-Hold

Programming Steps

1. Press MUSIC-ON-HOLD flex button (**FLASH 05**, **Button #12**). Feature toggles on/off each time button is pressed; and the display updates.

[0] = Disabled

[1] = Enabled



2. Press HOLD to save the entry. A confirmation tone is heard.

Description

When connected to the system, a music source provides music to all lines on Hold, parked calls, transferred calls and calls waiting to be answered by Automatic Call Distribution (ACD) or Uniform Call Distribution (UCD). This feature is allowed or denied on a system-wide basis in programming. By default, Music-On-Hold is enabled.

Call Qualifier Tone

Programming Steps

- 1. Press the CALL QUALTONE flex button (FLASH 05, Button #13).
- 2. Enter a 0 or 1 that corresponds with the following entries:
 - [0] = Disabled
 - [1] = Enabled

CALL QUALIFIER TONE 0-1 DISABLED

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Call Qualifier Tone feature is associated with the ACD Call Qualifier code and determines if a confirmation tone is heard after the ACD Call Qualifier code is dialed. If programmed, a confirmation tone is heard.

This feature allows:

- ☐ Up to four digits for the ACD SMDR reporting functions that are compatible with the Basic ACD software package.
- □ Entry of up to twelve digits.

By default, the Call Qualification Confirmation tone is disabled.

System Features 2 Programming

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

Press **FLASH** and dial **[06]**. The following message displays:

SYSTEM FEATURES 2 ENTER BUTTON NUMBER

This section describes the procedures and steps necessary to program System Features in System Features programming area. The buttons on the digital telephone are shown in the following illustration:

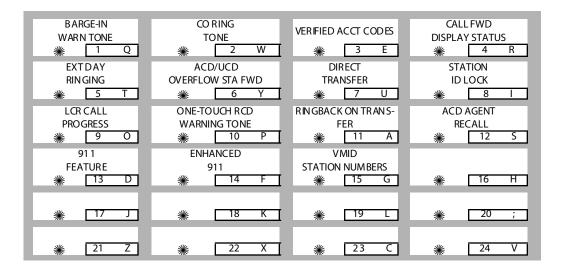


Table 2-4: System Features 2 Defaults

Program Code	Flex Button	Feature	Default (after initialization)
		System Features 2	
FLASH 06	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Barge-In Warn Tone CO Ring Tone Verified Account Codes Call Forward Display Status External Day Ringing ACD/UCD Overflow Sta Fwd Direct Transfer Station ID Lock LCR Call Progress One-Touch Record Warning Tone Ringback on Transfer ACD Agent Recall 911 Feature Enhanced 91 1 VMID Station Numbers	Enabled Enabled Disabled Enabled Disabled Disabled Enabled Disabled Enabled Enabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled

Barge-In Warn Tone

Programming Steps

1. Press the BARGEIN WARN TONE flex button (FLASH 06, Button #1). The following message displays:

BARGE IN	WARN	TO NE	0-1
ENABLED			

- 2. Enter a 0 or 1 on the dial pad to enable/disable the conference tone.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.



Display stations continue to receive the CONFERENCE display regardless of the warning tone setting.

Privacy is ensured on all communications in the system. If desired, the user may elect to disable the Barge In feature, thus allowing up to seven other stations to join existing CO Line conversations.



Disabling of the Barge In feature may be limited by federal, state, or local law, so check the relevant laws in your area before disabling privacy.

Table 2-5: CO Line Barge In Flag

Station Attempting to	CO Line in Use by Another Station		
Access CO Line	Privacy Enabled	Privacy Disabled	
Privacy Enabled	Private (no cut-through)	Private (no cut-through)	
Privacy Disabled	Private (no cut-through)	Privacy Release (cut-through allowed)	

CO Ring Tones

Programming Steps

 Press the CO RING TONE flex button (FLASH 06, Button #2). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable the tone ring signal.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The ring tone signal that notifies stations of an incoming call can be changed in administrative programming to provide distinctive ringing on a per CO line basis. A distinctive ring tone can be programmed for each CO line that rings each station.

The system provides 36 different ring patterns that can be selected for CO lines in the system. By default, CO Ring Tones is enabled.

Verified Account Codes

Programming Steps

Press the VERIFIED ACCT CODES flex button (FLASH 06, Button #3).
 The following message displays:

```
VERIFIED ACCT TONES 0-1
DISABLED
```

- 2. Enter 0 or 1 on the dial pad to enable/disable Verified Account Codes.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

The Verified Account Code/Traveling Class of Service (COS) feature provides tracking of specific calls by entering a verified, variable length (up to 12-digits) identifier. Each account code can be assigned a day and night Class-of-Service for determining the dialing privileges allowed by that account code. This lets users override a restricted station. If the dialed account code matches the Verified Account code table, an intercom dial tone is returned, otherwise an error tone is returned. SMDR must be enabled for the account code to print as part of the SMDR record. *Triad* 1/2/3 allows up to 250 12-digit account codes programmed in at FLASH 31. By default, the Verified Account Codes feature is disabled.

Call Forward Display

Programming Steps

 Press the CALL FWD DISPLAY STATUS flex button (FLASH 06, Button #4). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable Call Forward Display.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

When call forwarding is invoked, the LCD display normally indicates the call forwarding mode at all times.

This feature is enabled/disabled in administrative programming on a system-wide basis. By default, Call Forward Display is enabled.

External Day Ring

Programming Steps

1. Press the EXT DAY RINGING flex button (FLASH 06, Button #5). The following message displays:

EXTERNAL DAY RING	0-1	
DISABLED		

- 2. Enter a 0 or 1 on the dial pad to enable/disable External Day Ring.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The system can be programmed so CO lines marked for UDA provides ringing out of the external page ports when the system is in the Day Mode. By default, External Day Ringing is disabled.

Overflow Station Forward

Programming Steps

1. Press the ACD/UCD OVERFLOW STA FWD flex button (FLASH 06, Button #6). The following message displays:

OVERFLOW	STA	FWD	0-1
DISABLED			

- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

The Overflow Station Forward feature allows ACD/UCD calls reaching the ACD/UCD Overflow Station to call forward to another station. This enhancement is allowed or denied on a system-wide basis. Once enabled in programming:

- ☐ An ACD/UCD Overflow station can Busy/No-Answer forward to Voice Mail Groups, ACD/UCD Groups, Hunt Groups and stations.
- ☐ If the ACD/UCD Overflow station is busy or does not answer before the no-answer call timer expires, the ACD/UCD call forwards to the destination.

By default, this feature is disabled.

Direct Transfer Mode

Programming Steps

 Press the DIRECTTRANSFER flex button (FLASH 06, Button #7). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

When enabled, supervised transfers (screened transfers) to stations in the handset mode connect calls directly to the handset. The station user must have a direct appearance of that CO line or a Loop button. This feature is programmed on a system-wide basis. By default, the Direct Transfer Mode is enabled.

Station ID Lock

Programming Steps

1. Press the STATION ID LOCK flex button (FLASH 06, Button #8). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Station ID Lock feature enables the installer/programmer to lock the station ID of all extensions on the system. It also prevents the loss of station programming that results when a different station type is plugged into a port already designated as another station type. This feature is programmed on a system-wide basis. By default, the Station ID Lock feature is disabled.

The proper procedure(s) for changing the Station ID with the Station ID Lock feature enabled:

- 1. Enter programming mode and disable the Station ID Lock feature.
- 2. Plug the new device type into the jack. Set is automatically identified.
- 3. Enter programming mode and disable the Station ID Lock feature.
- 4. Enter programming and perform Station ID programming (FLASH 50, Page B, Button #1). Set is automatically identified.

LCR Call Progress

Programming Steps

1. Press the LCR CALL PROGRESS flex button (FLASH 06, Button #9). The following message displays:

LCR CALL	PROGRESS	0-1
ENABLED		

- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The LCR CALL PROGRESS Feature enables the installer to select, on a system-wide basis, whether users hear call progress indications. By default, the LCR Call Progress feature is enabled.



If this feature is disabled, a confirmation to ne is given after the last digit is dialed. The user does not hear the line being seized or the outpulsing of digits to the Central Office.

One-Touch Recording Warning Tone

Programming Steps

1. Press the ONE-TOUCH RCD WARNING TONE flex button (FLASH 06, Button #10). The following message displays:

RECORDO NG	WARN	TONE	0-1
ENABLED			

- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

The One-Touch Recording Warning Tone feature lets the installer enable/disable the One-Touch Recording Warning Tone on a system-wide basis. By default, the Recording Warning Tone is enabled.



Use of this feature when the One-Touch Recording Warn Tone is disabled may be interpreted as a violation of federal, state, or local laws, and an invasion of privacy. Check applicable laws in your area before recording calls using this feature.

Ringback on Transfer

Programming Steps

1. Press the RINGBACK ON TRANSFER flex button (FLA SH 06, Button #11). The following message displays:

RINGBACK DISABLED	ON XFER	0-1

- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled (Music)
 - [1] = Enabled (Ringback Tone)
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Ringback on Transfer feature provides on a system-wide basis music on hold or ringback tone to the CO caller when CO calls are transferred. Callers currently hear music. By default, the Ringback on Transfer feature is disabled.

ACD Agent Recall

Programming Steps

1. Press ACD AGENT RECALL button (FLASH 06, Button #12). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The ACD Agent Recall allows/disallows calls that have been transferred from an ACD Agent to recall the Agent.

911 Feature

Programming Steps

1. Press the 911 FEATURE flex button (FLASH 06, Button #13). The following message displays:

911 FEATURE	0-1
DISABLED	

- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled
 - [1] = Enabled

Description

The 911 Feature allows stations in the system to dial 911 without using an access code. 911 calls are placed on 911 marked lines. If all lines are busy, an existing call is dropped and the 911 call is placed.

When feature is enabled, Trunk Group/LCR Access Code 9 is not available.

Enhanced 911 (Proctor PBX-ANI-LINK Unit)

Programming Steps

1. Press the ENHANCED 911 button (FLASH 06, Button #14). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable the use of this feature.
 - [0] = Disabled
 - [1] = Enabled

Description

The Enhanced 911 feature enables 911 integration with the Proctor PBX-ANI-LINK product. Loop Start lines can be connected to the Proctor unit and programmed to be 911 lines (FLASH 40, PAGE A, Button 15). When a 911 call is made from a station in the system, the system will send 911 XXXX (XXXX=Station # that placed the 911 call) in DTMF format to the Proctor. If the station number is less than 4 digits, a leading 0 will automatically be added. The Proctor unit then accesses a call trunk and sends the information in the proper format to the 911 Center.

Conditions

- ☐ The 911 Feature (FLASH 06, button 13) must also be enabled for the Proctor Integration to work.
- □ Only the lines connected to the Proctor should have the 911 Enable programmed (FLASH 40, PAGE A, Button 15).
- □ It is recommended to have a power failure procedure in place to ensure that 911 calls are always routed. Refer to FLASH 09, Button 7 for programming information.

VMID Station Numbers

Programming Steps

 Press VMID STATION button (FLASH 06, Button #15). The following message displays:

```
VMID SAME AS STA #
PRESS HOLD
```

2. Press HOLD to save the entry. A confirmation tone is heard.

Description

The VMID Station Numbers feature must be used **after** changing station numbers with the Flexible Numbering feature. Voice Mail ID numbers will be changed to match current station numbers once HOLD is pressed. (Eliminates need for technician to program individual VMID numbers.)



This feature should be accomplished after the flexible numbers are assigned. Implementing this feature could cause the VM box numbers to be re-programmed.

Programmable Flash Rates

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

Press **FLASH** and dial **[07]**. The following message displays:

SYSTEM FLASH RATES ENTER BUTTON NUMBER

Description

This section describes the procedures and steps necessary to program the Flash Rates in the Flash Rates Programming area. The buttons on the digital telephone are shown in the following illustration:

INC CO RING I Q MSG CBCK DSS/BLF I 5 T	INC ICW RING # 2 W DND DSS/BLF # 6 Y	CALL FORWARD BTN 3 E AUTO CBCK DSS/BLF 7 U	MSGWAIT/VM BTN # 4 R UCD UNAVL DSS/BLF # 8 I
TRANSFER CORING FOR SYSTEM HOLD	RECALL CO RING # 10 P IN USE HOLD	QUEUED CO RING # 11 A CAMP-ON BTN	EXCLUSIVE HOLD # 12 S CALLBACK BTN
# 13 D LINE QUEUE BTN # 17 J	# 14 F DND BTN # 18 K	# 15 G ICM HOLD BTN # 19 L	* 16 H
₩ 21 Z	 22 X	※ 23 C	

Table 2-6: Flash Rates

Red LED Flash Rates		Green LED Flash Rates	
00 01 02 03 04 05 06 07 08 09 10 11 12 13	Off Steady On 30 ipm Flash 60 ipm Flash 60 ipm Dbl Wink 240 i pm Flash 240 i pm Flash 480 i pm Flash 120 i pm Flash 120 i pm Flash 120 i pm Dbl Flash 480 i pm Dbl Flash	15 16 17 18 19 20 21 22 23 24 25 26 27 28	Steady On 30 ipm Flash 60 ipm Flash 60 ipm Dbl Wink 240 ipm Flash 240 ipm Flash 480 ipm Flash 120 ipm Flash 120 ipm Flash 120 ipm Flash 120 ipm Dbl Flash 480 ipm Dbl Flash

Incoming CO Line Ringing

Programming Steps

 Press the INC CO RING flex button (FLASH 07, Button #1). The following message displays:

INC CO RING 00-28 RED 480 IPM FLUTTER

- 2. Enter a valid number (00-28) on the dial pad that correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Incoming CO Line Ringing flash rate is the rate at which an Incoming CO line or Loop Button flashes. This flash rate can be programmed to 29 different options identified in the flash rate table, which enables the programmer to customize the key system configuration to desired flash rates. By default, the Incoming CO Ringing flash rate is set for RED 480 ipm Flutter (08).

Incoming Intercom Ringing

Programming Steps

1. Press the INC ICM RING flex button (FLASH 07, Button #2). The following message displays:

INC ICM RING 00-28
RED 120 IPM FLUTTER

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. Refer to *Table 2-6: Flash Rates*.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

The Incoming Intercom Ringing flash rate is the rate an Incoming DSS button flashes if you have a DSS appearance for the calling station. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates.

By default, the Incoming Intercom Ringing flash rate is set for Red 120 ipm Flutter (11).

Call Forward Button

Programming Steps

Press the CALL FORWARD BTN flex button (FLASH 07, Button #3).
 The following message displays:



- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Call Forward Button flash rate is the rate at which the Call Forward button flashes when any type of forward mode is used. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Call Forward Button flash rate is set for a Red Steady On (01).

Message Wait / VM Button

Programming Steps

 Press the MSG WAIT/VM BTN flex button (FLASH 07, Button #4). The following message displays:

MSG WAIT / VM BTN 00-28 RED STEADY ON

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Message Wait/VM Button flash rate is the rate at which the Message Wait and VM button(s) flashes when you receive a message/voice mail message. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Message Wait/VM Button flash rate is set for a Red Steady On (01).



The fixed message button should not be used as a Voice Mail button.

Message Callback - DSS/BLF

Programming Steps

Press the MSG CBCK – DSS/BLF flex button (FLASH 07, Button #5).
 The following message displays:

MSG CBCK / DSS / BLF 00-28
RED 120 IPM FLUTTER

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

The Message Call Back DSS/BLF flash rate is the rate at which a DSS button of a station returning your message flashes. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Message Callback DSS/BLF flash rate is set for a Red 120 ipm Flutter (11).

Do Not Disturb - DSS / BLF

Programming Steps

 Press the DND – DSS/BLF flex button (FLASH 07, Button #6). The following message displays:

DND DSS / BLF 00-28
RED 60 IPM DBL WINK

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Do Not Disturb DSS/BLF flash rate is the rate at which a DSS button of a station flashes when you are in a Do Not Disturb mode. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Do Not Disturb DSS/BLF flash rate is set for a Red 60 ipm Double Wink (04).

Auto Callback - DSS / BLF

Programming Steps

Press the AUTO CBCK – DSS/BLF flex button (FLASH 07, Button #7).
 The following message displays:

AUTO CBCK DSS / BLF 00-28 RED 120 IPM FLASH

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Auto Callback DSS/BLF flash rate is the rate at which a DSS button of a station returning your call back flashes. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Auto Callback DSS/BLF flash rate is set for a Red 120 ipm Flash (10).

UCD Available / Unavailable - DSS / BLF

Programming Steps

Press the UCD UNAVL – DSS/BLF flex button (FLASH 07, Button #8).
 The following message displays:

UCD UNAVL DSS / BLF 00-28
RED 60 IPM DBL WINK

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

The UCD Available/Unavailable DSS/BLF flash rate is the rate at which a DSS appearance for a station in ACD/UCD Unavailable mode flashes. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, UCD Available/Unavailable DSS/BLF flash rate is set for a Red 60 ipm Double Wink (04).

Transfer CO Ringing

Programming Steps

 Press the TRANSFER CO RING flex button (FLASH 07, Button #9). The following message displays:

TRANSFER CO RING 00-28
RED 120 IPM FLASH

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Transfer CO Ringing flash rate is the rate at which a CO Line button or Loop button flashes when a call is transferred to you. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Transfer CO Ringing flash rate is set for a Red 120 ipm Flash (10).

Recall CO Ringing

Programming Steps

 Press the RECALL CO RING flex button (FLASH 07, Button #10). The following message displays:

RECALL CO RING 00-28 RED 480 IPM FLUTTER

- 2. Enter a valid number on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates

Description

The Recall CO Ringing flash rate is the rate at which a CO Line button or Loop button flashes when a call recalls to your station. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Recall CO Ringing flash rate is set for a Red 480 ipm Flutter (08).

Queued CO Ringing

Programming Steps

 Press the QUEUED CO RING flex button (FLA SH 07, Button #11). The following message displays:

QUEUED CORING 00-28 GREEN 480 IPM FLUTTER

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

The Queued CO Ringing flash rate is the rate at which a CO Line button or Loop button flashes when a queued line becomes available. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Queued CO Ringing flash rate is set for a Green 480 ipm Flutter (22).

Exclusive Hold

Programming Steps

 Press the EXCLUSIVE HOLD flex button (FLASH 07, Button #12). The following message displays:

EXCLUSIVE HOLD 00-28 GREEN 120 IPM FLASH

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Exclusive Hold flash rate is the rate at which a CO Line button or Loop button flashes when a call is placed on Exclusive Hold. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Exclusive Hold flash rate is set for a Green 120 ipm Flash (24).

System Hold

Programming Steps

 Press the SYSTEM HOLD flex button (FLASH 07, Button #13). The following message displays:



- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The System Hold flash rate is the rate at which a CO Line button or Loop button flashes when a call is placed on System Hold. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, System Hold flash rate is set for a Red 60 ipm Double Wink (04).

In-Use Hold (I-Hold)

Programming Steps

 Press the IN-USE HOLD flex button (FLASH 07, Button #14). The following message displays:

```
IN-USE HOLD 00-28
GREEN 60 IPM FLASH
```

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The In Use-Hold (I-Hold) flash rate is the rate at which a CO Line button or Loop button flashes when a call is placed on In-Use Hold (I-Hold). This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, In-Use Hold (I-Hold) flash rate is set for a Green 60 ipm Flash (17).

Camp-On Button

Programming Steps

1. Press the CAMP-ON BTN flex button (FLASH 07, Button #15). The following message displays:



- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Camp-On Button flash rate is the rate at which the Camp-On button flashes when you receive a Camp-On. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Camp-On Button flash rate is set for a Red 120 ipm Flash (12).

Call Back Button

Programming Steps

1. Press the CALL BACK BTN flex button (FLASH 07, Button #16). The following message displays:



- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Call Back Button flash rate is the rate at which the Call Back button flashes when a station at which you left a call back request becomes available. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Call Back Button flash rate is set for a Red 120 ipm Flash (10).

Line Queue Button

Programming Steps

1. Press the LINE QUEUE BTN flex button (FLASH 07, Button #17). The following message displays:

```
LINE QUEUE BTN 00-28
RED 480 IPM FLUTTER
```

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Line Queue Button flash rate is the rate at which the Line Queue button flashes after queueing onto a busy line. This button flashes when the busy line becomes available. This flash rate can be programmed to 29 different options identified in the flash rate table which enables the programmer to customize the key system configuration to desired flash rates. By default, Line Queue Button flash rate is set for a Red 480 ipm Flutter (08).

Do Not Disturb Button

Programming Steps

1. Press the DND BTN flex button (FLASH 07, Button #18). The following message displays:



- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Do Not Disturb Button flash rate is the rate at which your Do Not Disturb button flashes when you place your station in a Do Not Disturb mode. This flash rate can be programmed to 29 different options identified in the flash rate table. This enables the programmer to customize the key system configuration to desired flash rates. By default, Do Not Disturb Button flash rate is set for Red Steady On (01).

Intercom Hold Button

Programming Steps

 Press the ICM HOLD BTN flex button (FLASH 07, Button #19). The following message displays:

ICM HOLD BTN 00-28 RED 15 IPM FLASH

- 2. Enter a valid number (00-28) on the dial pad to correspond to one of the 29 available options. (Refer to *Table 2-6: Flash Rates*.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Intercom Hold Button flash rate is the rate at which your Hold button flashes when you receive an intercom call and your station's intercom mode selector switch is in the *T* position. This flash rate can be programmed to 29 different options identified in the Flash Rate table. This enables the programmer to customize the key system configuration to desired flash rates.

By default, Intercom Hold Button flash rate is set for a Red 15 ipm Flash (09).

System Parameters

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

Press **FLASH** and dial **[09]**. The following message displays:

SYSTEM PARAMETERS ENTER BUTTON NUMBER

System Parameters 2-59

Description

This section describes the procedures and steps necessary to program System Parameters in the System Parameters programming area. The buttons on the digital telephone are shown in the following illustration:

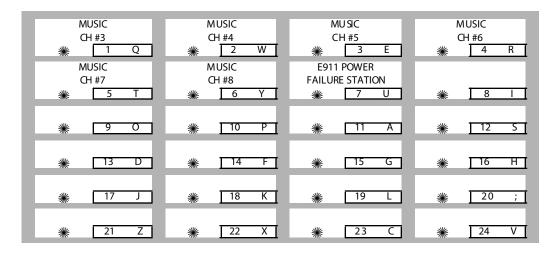


Table 2-7: System Parameters Programming

Program Code	Flex Button	Feature	Default (after initialization)	
FLASH 09	1 2 3 4 5 6 7	Music Channel #3* Music Channel #4* Music Channel #5* Music Channel #6* Music Channel #7* Music Channel #8* Proctor 911 Power Failure	### ### ### ### ###	
* Music Channels 3-8 can only be used for Music-On-Hold functions				



The leading digit feature is removed in FP3. The leading digit feature is replaced by a networking table (FLASH 16).

2-60 System Parameters

MOH Assignments

Programming Steps

 Press the MUSIC CH # flex button (FLASH 09, Button #1 through #6). The following message displays:

```
MUSIC CHANNEL X ###, 001-144
YYY

X= 3-8
```

YYY = CO Line number

- 2. Enter a valid number (001-144) that corresponds to the CO line number desired.
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The MOH Assignments feature enables the system to assign CO line circuits as additional 6 music-on-hold inputs. This increases the capacity of music channels beyond the 2 available on the MISU board for use by MOH sources.

A total of 8 channels are available for use on the system. By default, no channels are assigned.

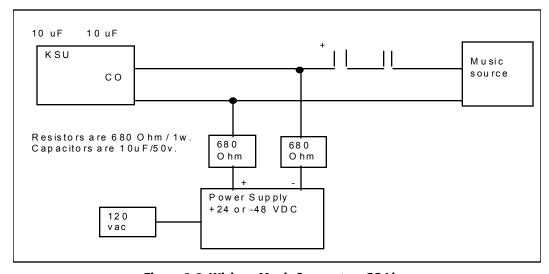


Figure 2-2: Wiring - Music Source to a CO Line

E911 Power Failure Station

Programming Steps

1. Press the E911 POWER FAILURE STATION button (FLASH 09, Button #7). The following message displays:



- 2. Enter a valid SLT station number to be used as the power failure station.
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The power failure signal is designed to be used with the normally open (NO) power failure leads from the Proctor unit connected to an SLT port or SLA device. When the leads close in power failure, this is detected as an off hook and 911 routing ceases to the Proctor unit. 911 calls are sent to Trunk Group 1 until the power failure lead opens, which is detected as an on hook. 911 calls are then routed again to the Proctor unit.

Conditions

- □ During a power failure, the station's digits are not sent to Trunk Group 1.
- □ During a power failure, 911 calls are sent on Trunk Group 1.
- ☐ The feature requires either an SLT port or an SLA port for the integration to work.

Attendant Station Assignment

Programming Steps

1. Press **FLASH** and dial **[10]**. The following message displays:

```
ATND STA ASSIGNMENT
100, ###, ###
```

- 2. Enter a valid station number (100-351) on the dial pad.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The system identifies an attendant station for the purpose of receiving recalls and activating night service. The system can have up to three attendant(s) programmed. Entering [#] three times removes that attendant assignment or different station numbers can be programmed. By default, Station 100 is assigned as the first attendant.

System Time and Date

Programming Steps

To set the time and date that appears on display telephones:

1. Press **FLASH** and dial **[11]**. The following message displays:

DATE AND TIME MMM DD YY HH: MM am

MMM = Month

DD = Day

YY = Year

HH= Hour

MM = Minute

- 2. Choose display format by pressing the appropriate button in the flexible button field. The time can be displayed in the standard 12-hour format or the 24-hour format.
- 3. Dial the time and date in the order shown below (2 digits for each entry, for a total of 10 digits):

Year

Month

Day

Hour

Minute



To <u>program</u> a pm time after selecting the 12-hour format, use 24-hour numbering, e.g., To program a time of 5:00 pm, enter 17:00.

4. Press HOLD to save the entry. A confirmation tone is heard and the display updates.



By default, the time is set for 12-hour display format. When entering the time and date, use the following data:

LED Off = 12 Hour Display

LED On = 24 Hour Display



The Date and Time can be changed or set by the First Attendant station using dial code [692].

2-64 PBX Dialing Codes

PBX Dialing Codes

Programming Steps

1. Press **FLASH** and dial **[12]**. The following message displays:

```
PBX DIAL CODES
##, ##, ##, ##, ##
```

- 2. Enter valid numbers (one right after the other) on the dial pad, up to ten digits. If a single digit code is required, enter the code followed by [#].
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.
- 4. To delete a code, enter [#] [#] and press HOLD.

Description

Five 1- or 2-digit PBX access codes can be programmed into memory. When dialed, these codes signal the system so toll restriction is applied at the next dialed digit. When a single digit code [9] is entered, it must be followed by [#] as the second digit. To delete an entry, enter [#] twice and Press HOLD. Lines must be programmed as PBX lines before these codes apply. By default, no PBX dialing codes are assigned. Programming is performed in FLASH 40, Page A, Button 2.



Table 1 -- Can be set to dial [9] for Centrex 911 calls. If the CO is set to 911, enter **yes** and the unit is on Centrex. This will dial the Centrex 9 (not LCR).

Executive / Secretary Pairs

Programming Steps

1. Press **FLASH** and dial **[13]**. The following message displays:

```
EXEC SECY PAIRINGS
###, ### PAIR 1
```

The first button is lit indicating the first pair may be program med.

- 2. Enter a valid Executive station number.
- 3. Enter a valid Secretary station number.
- 4. Press HOLD to save the data. A confirmation tone is heard and the display updates.
 - □ To program a second pair, press the second flexible button in the flexible button field and enter station numbers as in steps 2-4.
 - ☐ To program a third pair, press the third button in the flexible button field and enter station numbers as in steps 2-4.
 - ☐ To program a fourth pair, press the fourth button in the flexible button field and enter station numbers as in steps 2-4.

Description

There are four Executive/Secretary pairs available. When an Executive station is busy or in DND, intercom calls and transfers are automatically routed to the designated Secretary.



The assigned secretary may Camp-On to the Executive Station when the station is busy or in Do-Not-Disturb. There can be only one pairing of stations, with no duplicates. You cannot pair Executive 100 to Secretary 101, then pair Secretary 101 to Executive 100. The same Secretary station can be specified for more than one Executive station (101-105 and 102-105). Entering [#] six times removes the assignments. Individual pairs may be changed by pressing the associated flexible button. By default, no Executive / Secretary pairs are assigned.

On-Board Relay Programming

Programming Steps

1. Press **FLASH** and dial **[14]**. Button #1 is lit to indicate Relay #1 is selected. The following message displays:

```
RELAY X TYPE
YYYYYYYYYYY
```

X = 1-6

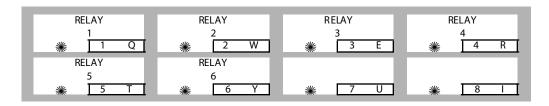
YYYYYYYYYYY = Ext Page Zone 1-2, LBC Sta XXX, Ran Start X, CO Control XX, PFT U

- 2. Press the button that corresponds to the desired relay. That button lights. Enter one of the following sequences on the keypad:
 - [1] + [1 or 2] First two External Page Zones
 - [2] +[1 through 8] = RAN Start (RAN Announcement Tables 1-8)
 - [3]= PFTU Control
 - [4] + STA # = Loud Bell
 - [5] + CO # = CO Line Control
 - [0] = Disables Relay
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Each time the user presses a relay button, the LCD updates with the relay number and the function assigned to it.

Description

The *Triad 1/2* has four (4) relays on the MISU and the *Triad 3* has six (6) relays on the MISU that can be programmed to perform certain functions. These functions are loud bell, external page control, RAN Start, PFTU control, and CO Line control.



Baud Rate Assignments

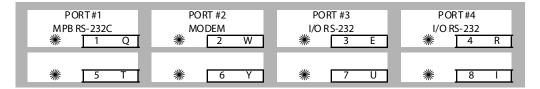
Programming Steps

Press **FLASH** and dial **[15]**. The first button is lit and ready for programming Port #1. The following message displays:

PORT	BAUD
1	9600

Description

The *Triad 1/2/3* System provides outputs such as SMDR or ICLID to the standard RS-232 connectors on the MPB or optional SIU Modules.



Port #1, #3, #4 Baud Rates

Programming Steps

- 1. Press the desired PORT# flex button (FLASH 15, Buttons #1, #3, or #4) to determine the port to program.
- 2. Enter a 1-digit number for the baud rate:

[1] = 150 Baud [5] = 2400 Baud [2] = 300 Baud [6] = 4800 Baud [7] = 9600 Baud [4] = 1200 Baud [8] = 19.2K Baud

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

PORT #1 -- On-Board RS-232C port on the MPB.

PORT #3 and #4 -- RS-232 port on the optional SIU2 board.

2-68 Networking Tables

By default, Port #1 (MPB RS-232C), Port #3 (RS-232) and Port #4 (RS-232) baud rates are set for 9600.

Port #2 Baud Rate

Programming Steps

Press the PORT#2 flex button (FLASH 15, Button #2) to verify the baud rate of the On-Board modem. The following message displays:

PORT	BAUD
2	2400

Description

PORT #2 -- On-Board 2400 Baud is standard on the *Triad 3* System, but optional on *Triad 1/2*. By default, the On-Board modem baud rate is set for 2400.

Networking Tables

Programming Steps

1. Press **FLASH** and dial **[16]**. The following message displays:

```
NETWORKING TABLES
SELECT SYS NO
```

- 2. Press the desired button, make the necessary entry, and then press HOLD after each entry to select a trunk group, station range, IP address (if applicable), and system number:
 - [1] =Select Trunk Group (0-23)
 - [2]= Station Range START (100-9999)
 - [3] = Station Range END (100-9999)
 - [4] = IP Add ress
 - [22] = Page Up
 - [23] = Page Down
 - [24] =Select system number (1-16)

Networking Tables 2-69

TRUNK GRP	STATION RANGE FRO M # 2 W	STATION RANGE TO # 3 E	IPADDRESS ₩ 4 R
<u></u> ※	₩ 6 Y	※ 7 U	₩ 8 1
* 9 0	₩ 10 P	※ 11 A	<u></u>
₩ 13 D	₩ 14 F	※ [15 G]	※ [16 H]
₩ 17 J	₩ 18 K	₩ 19 L	₩ 20 ;
₩ 21 Z	PAGE UP ※ 22 X	PAGE DOWN ** 23 C	SYSTEM NO

Description

The Networking Table identifies the system number (1-16); the CO group (0-23); the range of station numbers (from XXXX to XXXX); and the IP address.

Table 2-8: Networking Tables

System	COGroup	CO Group Station Range		IP Address
System	Co Group	From	То	ir Addless
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
Button 24	Button 1	Button 2	Button 3	

2-70 Access Codes



Only 4-digit extensions will work with Network Tables.

The numbers entered in the station range cannot conflict with the Flexible Numbering Plan.

When systems are tied to gether, each system has to have access to 911 through local lines.

Conditions

- ☐ With Flexible Numbering enabled/used, the call forwarding feature changes.
- ☐ Feature access codes cannot conflict with station numbering.
- ☐ CO line numbers are fixed and cannot be changed other than the current FLASH 42 re-assignment.
- The VMID digits need to be programmed separately.
- ☐ The SMDR will output up to 4-digit numbers in the station field. If less than 4 digits are selected in the numbering plan, leading spaces will be added in place of numbers. The 3-4 digit SMDR programming area is removed from programming in FP3. Call Accounting devices need to be configured to accept 4 digits.

Access Codes

Programming Steps

If the system is in the programming mode, continue using program codes. If starting to program here, enter the programming mode.

Press FLASH and dial [20]. The following message displays:

ACCESS CODES ENTER BUTTON NUMBER

Access Codes 2-71

Description

This section describes the procedures and steps necessary to program Access codes.



DISA Access Code

Programming Steps

1. Press the DISA ACCESS CODE flex button (FLASH 20, Button #1). The following message displays:

```
DISA ACCESS CODE
100
```

- 2. Enter a valid number (000–999) on the dial pad for the DISA access code.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The DISA Access Code feature permits assigning a 3-digit access code to the system. Anyone calling on a DISA line must use this code to gain access to system features. To disable the DISA access code, enter (#) three times. By default, 100 is the assigned access code. Use of this feature with or without access code can be abused by callers.

Database Admin Password

Programming Steps

1. Press the ADMIN PASSWORD flex button (FLASH 20, Button #2). The following message displays:

```
ADMIN PASSWORD
3226
```

- 2. Enter a valid number on the dial pad that corresponds with 0000-9999.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The password used to enter customer database programming can be customized by the programmer. This lets the system administrator block unauthorized personnel from entering database admin.



Care should be taken when changing the programming password so authorized personnel are not locked out, which could prevent or delay them from making necessary programming changes.

Station Message Detail Recording (SMDR)

Programming Steps

1. Press **FLASH** and dial **[21]**. The following message displays:

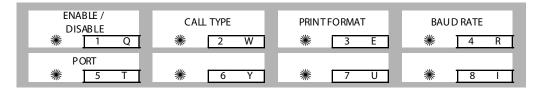
```
SDR TPE PNT BAUD PORT
NO LD 80 9600 1
```

- 2. To program SMDR features, use the flexible button(s) as defined in the following procedures.
- 3. The ENABLE/DISABLE, TYPE, and PRINT features toggle on and off each time the button is pressed. The display updates with each toggle.

4. After all entries are made, press HOLD to save the entry. A confirmation tone is heard.

Description

The *Triad 1/2/3* System can provide SMDR output to the optional RS-232C connectors on the MISU. When SMDR is desired, the following system-wide parameters determine how SMDR information is reported.



SMDR Enable / Disable

Programming Steps

Press the ENABLE/DISABLE flex button (FLASH 21, Button #1). This
feature toggles on and off each time the button is pressed. The
display updates with each toggle.

LED ON = SMDR is enabled

LED OFF = SMDR is disabled

2. Press HOLD to save the entry. A confirmation tone is heard

Description

A call accounting device can be installed allowing the system to track calls by outside line number, number dialed, time of day, date, station that placed or received the call, and duration of the call. By default, SMDR is disabled.

Long Distance / All Calls

Programming Steps

1. Press the CALL TYPE flex button (**FLASH 21, Button #2**) to determine the type of calls to record. This feature toggles on and off each time the button is pressed. The display updates with each toggle.

LED ON = Long Distance is enabled

LED OFF = All Calls is enabled

2. Press HOLD to save the entry. A confirmation tone is heard.

Description

The system can be set to record all outgoing calls or only outgoing long distance calls. Long Distance calls are defined as beginning with a 1 or 0, or containing eight or more digits. Incoming calls are only recorded if TYPE is set for all calls. By default, the system records long distance (LD) calls only.

Character Print Assignment

Programming Steps

 Press PRINT FORMAT flex button (FLASH 21, Button #3) to determine the print format of SMDR records. This feature toggles on and off each time the button is pressed. The display updates with each toggle.

LED On = 80-Character is enabled

LED Off = 30-Character is enabled

2. Press HOLD to save the entry. A confirmation tone is heard.

Description

The system can be programmed to print individual SMDR records in either a 1-line 80-character format or a 3-line 30-character format. By default, the 1-line 80-character format is selected.

Baud Rate Display

Programming Steps

The SMDR Baud Rate is programmed using Flash 15, Baud Rate Assignments. **FLASH 21, Button #4** returns an error tone when pressed. The LCD displays the current baud rate based on which port is assigned to the SMDR Port number.

Description

The *Triad 1/2/3* System provides SMDR output to the standard RS-232C connector on the optional MISU. The baud rate is displayed as 150, 300, 600, 1200, 2400, 4800, or 9600 baud.

SMDR Port Assignments

Programming Steps

- 1. Press the PORT flex button (FLASH 21, Button #5) to determine which port to use for SMDR information.
- 2. Enter a valid number for the SMDR Port number:
 - [1] = Port #1 (MPB On-Board RS-232C)
 - [3] = Port #3 (RS-232C on optional SIU)
 - [4] = Port #4 (RS-232C on optional SIU)

The LCD displays the current baud rate based on which Port number is assigned to the SMDR Port number.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

PORT #1 -- Refers to the RS-232C connector on the optional MISU.

PORT #3 -- Refers to the RS-232C connector on the optional SIU.

PORT #4 -- Refers to the RS-232C connector on the optional SIU.

By default, Port #1 is used for SMDR.

Weekly Night Mode Schedule

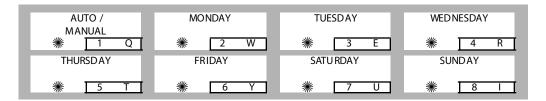
Programming Steps

Press **FLASH** and dial **[22]**. The following message displays:

```
DAY END START AUTO
MON 0800 1700 NO
```

Description

The *Triad 1/2/3* System can be programmed so it is automatically placed into and out of night mode. A programmable weekly time schedule lets the system administrator preset the time the system goes into night mode, and the time night mode is removed on a daily basis, including weekend operation.



Automatic / Manual Operation

Programming Steps

Press the AUTO/MANUAL flex button (FLASH 22, Button #1). This
feature toggles on and off each time the button is pressed. The
display updates with each toggle.

LED On = Automatic Night Mode

LED Off = Manual operation

2. If no other changes must be made, press HOLD to save the entry. A confirmation tone is heard.



Once enabled, this feature addresses the entire week.

Description

If the system is operated in the automatic night mode the attendant(s) can override the automatic mode by pressing the night key on the attendant(s) phone. The schedule does not go into effect until the attendant(s) press the night key again. When the system is placed into night mode, CO line ringing follows the night ringing assignments and stations are governed by their respective night COS.

The default times for automatic night mode are:

- Monday to Friday 08:00 17:00 (Daytime operation 8:00 am to 5:00 pm)
- □ Saturday and Sunday ##:## ##:## (24-hour night-mode operation)
 - An entry of 00:00 23:59 indicates 24 hours of day mode.
 - An entry of ##:## ##:## directs the system to ignore these days.

Directory Dialing 2-77

Day of Week Programming

Programming Steps

The MONDAY flex button (Button #2) LED is lit. To change days of the week:

- 1. Press the appropriate DAY OF WEEK flex button (FLASH 22, Buttons 2-8).
- Enter a valid number to indicate the hour and minutes to end night mode.
- 3. Press HOLD to save the entry. (Example: 07301830 [HOLD]) A confirmation tone is heard and the display updates.

Directory Dialing

Programming Steps

To enter, change, erase or view entries in the Directory Dialing list: Press **FLASH** and dial **[23]**. The following message displays

AAA = Directory list entry number (000-199)

XXXX = a station number, a system speed dial bin number, or Local Number/Name Translation table number

nnn = *program med name (blank if none)*

Selecting a Directory List Entry

- 1. Press Flexible button #20 for a directory list entry.
- 2. Dial a valid directory list entry number (000–199).
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Scrolling Through the Directory List:

- Press the NEXT flex button (FLASH 23, Button #18) to scroll up (next entry).
- □ Press the PREV flex button (FLASH 23, Button #19) to scroll back (previous entry).

2-78 Directory Dialing

Description

Directory Dialing enables station users obtain a directory of station users and have the system dial the extension currently displayed. The *Triad 1/2/3* System provides locations for up to 200 names (000-199). Directory dialing also lets users program a name with a speed dial bin for use in later locating a speed dial number. When prompted, the system displays the name associated with a speed dial number so when the desired name is shown, the user may then have the system dial the number.

Directory Dialing also lets users associate a name with an entry in the local number/name translation table. When prompted, the system displays the name associated with the table so when the desired name is shown, the user may then have the system dial the number. The *Triad 1/2/3* System provides locations for up to 200 names.

The Directory Dialing list may be programmed and maintained at the first assigned attendant station in one of two ways. However, this admin routine lets the directory list be maintained by the system programmer locally (at Station 100) or remotely via modem access.

BIN /	NAME	CLEAR	BACKSPACE
ICM ※ 1 Q	※ 2 W	※ 3 E	₩ 4 R
※ ∑ 5 T ∑	※ 6 Y	※ 7 U	* 8 1
* 9 0	₩ 10 P	₩ 11 A	₩ 12 S
₩ 13 D	₩ 14 F	₩ 15 G	₩ 16 H
* <u>17</u> J	ENTRY ** 18 K	ENTRY ** 19 L	ENTRY # 20 ;
₩ 21 Z	※ 22 X	※ 23 C	※ 24 V

Directory Dialing 2-79

Associating Number to: Intercom Number or System Speed Dial Bin

- 1. Press the BIN/ICM flex button (FLASH 23, Button #1).
- Enter one of the following: a Station Intercom number, a System Speed Dial number, or a Local Number/name Translation Table number.

100-171 = Triad 1/2 Extension Numbers

100-351 = Triad3 Extension Numbers

1020–1999 = System Speed Numbers (with expanded memory)

600-799 = Local Number/Name Table

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

BIN/ICM – Each entry in the directory dialing list must be associated to a system speed dial bin (for calling a destination outside of the system) or to an intercom station (for calling internal station including CO line transfers).

Entering/Changing Current Name Shown on the Display

- 1. Press the NAME flex button (FLASH 23, Button #2).
- 2. Enter the name (up to 24-characters may be entered) by using keys on the dial pad as illustrated on the following page:
- If an error is made while entering the name, press the BACK SPACE flex button (FLASH 23, Button #4). This button backspaces one character at a time.

Other Codes D-31 A-21 B-22 E-32 1 = 1#8 = 8#= 01* = *# C-23 F-33 9 = 9#2 = 2#, = 02(= #1M-61 3 = 3#0 = 0 #? = 03) = #2H-42 K-52 N-62 I-43 L-53 O-63 4 = 4#Space = 11/ = 04+ = #3W-91 T-81 5 = 5#:= 12 ! = *1 = = #4R-72 X-92 U-82 S-73 Y-93 V-83 6 = 6#- = 13\$ = *2 # = ## Q-74 Z-94 ′ = 14 7 = 7#&=*4. = 24OPER

Table 2-9: Dial Pad Keys

2-80 Directory Dialing

4. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Name – A name up to 24-characters may be entered into each directory dial list entry. The names display alphabetically when accessed by a station user. It is possible to have multiple entries that are associated to the same station number or system speed dial bin. This lets the same name be entered into the list several times. For example, by last name and by first name, pointed to a station

number and a speed dial bin (home, or mobile phone number). Or, several different names associated to the same speed dial bin.

Clearing an Entry

- 1. Press the CLEAR flex button (FLASH 23, Button #3).
- Press HOLD to save the entry. A confirmation tone is heard and the display updates. The entry is erased (both the BIN/ICM assignment and the programmed name).

Clear – Entries in the table may be erased and cleared which allows placement of another entry into the list. When a system speed dial bin is deleted or changed, the name associated to the bin must also be erased. When a multiple table listing is associated to one system speed dial bin it may be necessary to clear more than one entry.

Cabinet/Card Programming

Card Types

Buttons 1 through 12 indicate peripheral card slots 0 through 11. When Cabinet/Card Programming is initially entered, Flex Button #1 LED is lit. This indicates that the user is programming the card in peripheral card slot 0.

Programming Steps

1. Press **FLASH** and dial **[24]**. The following message displays on the display:

```
CABINET 0
ENTER BUTTON NUMBER
```

 Press button that corresponds to desired cabinet (CAB). Button 17 for Triad 1/2 or button 17-20 for Triad 3. The following message displays:

```
CAB X SLOT XX 00-11
DTIB
```

- 3. Press the button corresponding to the desired CAB/SLOT location. (Buttons 1-12 indicate peripheral card slots 0-11.)
- 4. Enter a valid number for the type of card plugged into the current peripheral card slot.

```
[0] = DELETE CARD [7] = DIDB

[1] = ETIB [8] = PRIB

[2] = DTIB [9] = T1 IB

[3] = DTIBE (DT24) [10] = BRIB

[4] = SLIB [11] = BR16

[5] = LCOB [12] = VOIP

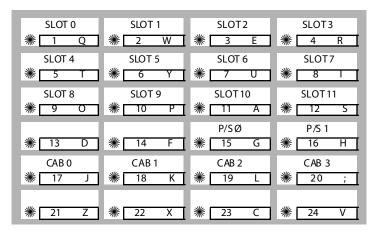
[6] = GCOB
```

5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Cabinet/Card Programming feature provides a means to assign the peripheral cards to alternative peripheral card slots.

- □ Station Assignment Numbers: Triad 1/2 = 100-171; Triad 3 = 100-351
- \Box CO Line Assignment Numbers: Triad 1/2 = 001-048; Triad 3 = 001-144



Triad 1 supported slots = 0, 1, 2, 6, and 7.

Triad 2 and Triad 3 supported slots = 0-11.

Triad 1/2 is programmed as one cabinet, even if the EKSU is installed.

Triad 1/2 uses Cabinet 0 only. Triad 3 can use Cabinets 0-3.

Triad 3 is the sole user of the power supply flex buttons



After the card slots have been programmed, the system must be reset for full activation of the database programming to take effect.

Power Supply Types (*Triad 3*)

Programming Steps

1. Press [15] for power supply 0 or [16] for power supply 1. The following message displays on the display:

```
POWER SUPPLY 00 TYPE 0-1
10 AMPS
```

- 2. Enter a valid number to indicate the current amps (0 for 10 amps or 1 for 15 amps).
- 3. Press HOLD to save the entry. A confirmation is heard and the display updates.

Hunt Groups

Hunt Group Programming

Programming Steps

1. Press **FLASH** and dial **[30]**. The following message displays:

```
HUNT 450 PLT ONE ###, ###,
###, ###, ###, ###, ###
```

The top left button in the flexible button field is lit for programming Hunt Group 1 (450).

- 2. To change Hunt Groups or enter a different Hunt Group, press flexible button 1-12 (450-461) and perform the following procedure.
- 3. Enter a valid three-digit station number, or station numbers up to eight stations per group. Hunt groups are joined together by entering another Hunt Group Pilot Number as the last entry of the group.
- 4. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

2-84 Hunt Groups

Description

The system can be programmed for up to 12 Hunt Groups. Each Hunt Group can contain up to 8 stations each. Each Hunt Group can be independently arranged to use a pilot hunting or station hunting technique. If a station is in DND or is forwarded to another station, it is considered busy.

HUNT GRP	HUNT GRP	HUNT GRP	HUNT GRP
450	451	452	453
₩ 1 Q	₩ 2 W	₩ 3 E	₩ 4 R
HUNT GRP	HUNT GRP	HUNT GRP	HUNT GRP
454	455	456	457
※ 5 T	₩ 6 Y	₩ 7 U	※ 8 I
HUNT GRP	HUNT GRP	HUNT GRP	HUNT GRP
458	459	460	461
₩ 9 0	Ж 10 P	※ 11 A	₩ 12 S

Hunt Group

Programming Steps

- 1. Press FLASH and dial [30].
- 2. To select the desired Hunt Group, press Buttons 1-12.
- 3. Enter the station number(s) (up to 24 digits and 8 stations). Hunt Groups are joined together by entering another Hunt Group Pilot number as the last entry of the group.

```
HUNT450 AAA BBB XXX XXX
XXX XXX XXX XXX XXX
```

4. Press HOLD to save the entry.

Removing Stations from a Hunt Group

- 1. Enter [#] three times on the dial pad.
- 2. Press HOLD. A confirmation tone is heard and the display updates. This removes all stations previously programmed in that group.

Hunt Groups 2-85

Description

The Hunt Group feature is used to add and delete stations from a specified Hunt Group.

Station / Pilot / Pilot Ring All -- Hunting Assignments

Programming Steps

- Press the STATION/PILOT flex button (FLASH 30, Button #13) to indicate Pilot, Pilot Ring All Hunting, or Station Hunting.
- 2. Dial a valid number (0-2):
 - [0] = Pilot (Default; shown on LCD as PLT ONE)
 - [1] = Pilot Ring All Hunting (shown on LCD as PLT ALL)
 - [2] = Station Hunting (shown on LCD as CIR)



458-461 are ONLY for RAN applications.

Description

Pilot Hunting -- Incoming CO, transferred CO, and intercom calls can be directed to a pilot number of a hunt group. The system searches sequentially (in the order the extensions were entered in the database programming) for an idle station in the group and rings that station. Calls directly to stations (by calling the extension number) within the hunt group do not hunt but receive call progress tones from the extension.

Pilot All Ring Hunting – rings all idle stations in a particular Hunt group at one time.



"All Ring" hunt groups cannot be chained together.

Station (Circular) Hunting -- Transferred CO, and intercom calls that are presented to a busy, or DND station, that are members of a Station Hunt Group, search sequentially (in the order the extensions were entered in database programming) for an idle station in the group and rings that station. Direct ringing CO Line calls to the station number ring at the station. If station hunting is desired on a direct ringing call, program the station hunting pilot number in the CO Line ring assignment list. This lets the member of the hunt group to receive private/hunt group calls.

Verified Account Codes / Traveling Class of Service

Programming Steps

1. Press **FLASH** and dial **[31]**. The following message displays:

ACCT	cos
XXXXXXXXXX	##

ACCT = Up to 12-digit account code COS = Class of Service for account codes

- 2. Press the ACCT CODE flex button (FLASH 31, Button #1). Enter up to 12 digits (0-9, *, #). [*] represents a do not care digit. The system ignores all digits after this digit when entering an account code. The [#] represents a single do not care digit.
- Press the CLASS OF SERVICE flex Button (FLASH 31, Button #2).
 Enter a 2-digit Class of Service Number (1-7) that corresponds to Class of Service 1-7. The first digit represents Day COS and the second digit represents Night COS.
- 4. Press HOLD to complete the entry. A confirmation tone is heard.

Description

The Verified Account Code/Traveling Class of Service (COS) feature provides tracking of specific calls by entering a verified, variable length (up to 12 digits) identifier. Each account code can be assigned a day and night Class of Service for determining the dialing privileges allowed by that account code. This provides a means for users to override a restricted station.

If the dialed account code matches the Verified Account code table, an intercom dial tone is returned, otherwise an error tone is returned. The use of forced Account Codes is optional, offered on a system-wide basis. SMDR must be enabled for the account code to print as part of the SMDR record. The *Triad 1/2/3* System allows up to 250 12-digit account codes and must be enabled in Flash 06, Button 3.

By default, no Account Codes are assigned.

ACCT CODE ** 1 Q	CLASS OF SERVICE ** 2 W	DELETE ACCT CODE 3 E	ERASE DIGITS # 4 R
₩ 5 T	₩ 6 Y	※ 7 U	₩ 8 1
* 9 0	※ 10 P	※ 11 A	※ 12 S
※ 13 D	※ 14 F	※ [15 G]	₩ 16 H
※ 17 J	NEXT ※ 18 K	PREV ※ 19 L	* 20 ;
₩ 21 Z	₩ 22 X	※ 23 C	₩ 24 V

Deleting the Currently Displayed Account Code

- 1. Press the DELETE CODE flex button (FLASH 31, Button #3) to delete the entire account code entry.
- 2. To display the next account code on the LCD, press the NEXT flex button (FLASH 31, Button #18).
- 3. To display the previous account code on the LCD, press the PREVIOUS flex button (FLASH 31, Button #19).

Re-enter the correct digits and press HOLD to complete the entry. A confirmation tone is heard.

Erasing Previously Entered Digits

- 1. Press the ERASE DIGITS flex button (FLASH 31, Button #4)
- 2. Each press of the button erases one digit. Continue until all desired digits are erased.
- 3. Re-enter the correct digits and press HOLD to complete the entry. A confirmation tone is heard.

CO Line Group Queuing

Programming Steps

1. Press **FLASH** and dial **[39]**. The following message displays:

CO LINE GROUP QUEUING ENTER BUTTON NUMBER

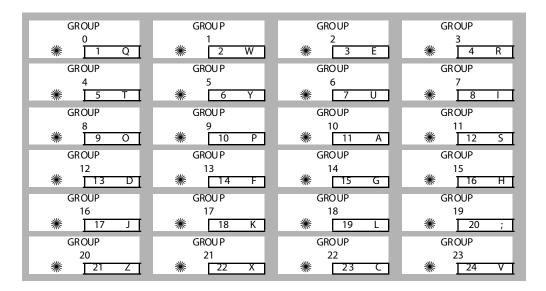
2. Press button 1-24 to select the desired CO Group to be programmed. The following message displays:



- 3. Dial a 0 or 1 to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 4. Press HOLD to save the entry. A confirmation tone is heard.

Description

The CO Line Group Queuing feature allows trunk group queuing to be turned on (enabled) or turned off (disabled) per group.



Local Number / Name Translation Table

Programming Steps

1. Press **FLASH** and dial **[55]**. The following message displays:

```
S - XXX ### ,
```

XXX = Table Number 600-799

= Route Number 000-499

The Route Number LED (Button #1) is lit.

2. Enter a Route Number (000–499) from what was entered in program code, **FLASH [43]**.

Programming a Phone Number into the Translation Table

 Press the PHONE NUMBER flex button (FLASH 55, Button #2) to enter the desired phone number into the translation table. Maximum length of a phone number is 14 digits, including hyphens. Phone numbers must be in the following format: 1-480-XXX-XXXX. (Refer to Table 2-9: Dial Pad Keys.) Press HOLD to update the database. The BACK SPACE flex button (FLA SH 55, but to n # 5) erases current number for error correction.

Programming a Name into the Translation Table

- Press the NAME flex button (FLASH 55, Button #3) to enter the desired name into the translation table. Maximum length is 24 characters. (Refer to Table 2-9: Dial Pad Keys for dial pad keys.)
- Press HOLD to update the database. The BACK SPACE flex button (FLASH 55, Button #5) erases the current letter for error correction.

Erasing a Current Phone Number/Name Entry

- □ Press the CLEAR ENTRY flex button (FLASH 5 5, But to n #4) to clear an entire phone number and name from the current index.
- Press the NEXT TABLE flex button (FLASH 55, Button #18) to advance to the next index and continue entering information into the translation table.
- □ Press the PREV TABLE flex button (FLASH 55, Button #19) to return to a previous index that is already programmed.

Locating an Existing Index for Editing

 Press the TABLE NUMBER flex button (FLASH 55, Button #20). The following message displays:

ENTER	TABLE	N U M B E R	

- 2. Enter a valid number that corresponds to the table numbers 600-799.
- 3. Press HOLD to complete the entry.

Description

An administrable table in the KSU provides a local translation from a received calling number to a name. This is administrable by the customer from the attendant console position. This table is also shared by the ICLID features. In cases of conflict between the name delivered from the CO and that in the local translation table, the local translation table rules. 200 entries are provided in this table for the *Triad* 1/2/3 System.

An option was added to the Local Number/Name translation table to route an ICLID or Caller Entered ID Digits, based on a partial compare with the number entered in the translation table.

ROUTE NUMBER	PHONE NUMBER	NAME	CLEAR ENTRY
	※ 2 W	※ 3 E	₩ 4 R
BACKSPACE			
☀ 5 T	₩ 6 Y	☀ 7 U	₩ 8 1
₩ 9 0	₩ 10 P	₩ 11 A	₩ 12 S
₩ 13 D	₩ 14 F	☀ 15 G	₩ 16 H
	NEXT	PREV	TABLE
21/4	TABLE	TABLE	NUMBER
☀ 17 J	₩ 18 K	※ 19 L	※ 20 ;
☀ 21 Z	☀ 22 X	 * * 23	₩ 24 V



If a match is found between a number in the translation table and an incoming call record, the translated name is displayed and/or stored in the unanswered call table.

3

CO Line Attributes Programming

This chapter describes the procedures and steps necessary to program CO Line attributes. If the system is in the programming mode, continue using the program codes. If starting to program here, you must first enter the programming mode. Refer to *Figure 1-2: Programming Button Mapping* in chapter 1.

Page A Introduction

Programming Steps

1. Press **FLASH** and dial **[40]**. The following message displays:

```
CO LINE ATTRIBUTES
SELECT A CO LINE RANGE
```

2. Enter a valid number for the range of lines being programmed. If only one line is being programmed, enter that number twice (001 001).



If HOLD is pressed with out entering a CO range, ALL CO lines (001-144) are selected.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates. Flexible button #19 (Page A) is lit. The following message displays to indicate current programming of that line or group of lines:

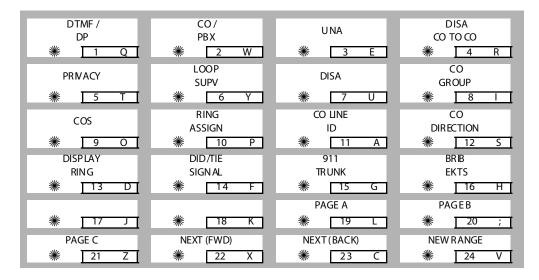
```
XXX - XXX PAGE A
ENTER BUTTON NUMBER
```

```
XXX-XXX = CO Line Range
001-048 = Triad 1/2
001-144 = Triad 3
```

Description

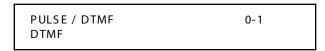
When entering the CO Line attributes portion of the database, the programmer may decide to enter information for a range of CO lines or one specific CO Line.

Range programming lets the programmer change a specific parameter or a few parameters for an entire range of CO Lines leaving intact the remaining data fields that do not require change. Those data fields continue to operate with the previously programmed data. By default, Page A is shown.



DTMF / Dial Pulse Programming

- 1. Press the DTMF/DIAL PULSE flexible button (FLASH 40, Page A, Button #1).
- 2. Enter a 0 or 1 that corresponds with the following entries:
 - [0] = Dial Pulse
 - [1] = DTMF



3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Each individual outside line can be programmed to be DTMF (tone) or dial pulse. By default, all lines are set for DTMF.

Page A Introduction 3-5

CO / PBX Programming

Programming Steps

- Press the CO/PBX flexible button (FLASH 40, Page A, Button #2).
- 2. Enter a 0 or 1 which corresponds with the following entries:

```
[0] = PBX
```

[1] = CO



3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Each individual outside line connected to the system may be programmed as a CO or PBX line. Use the PBX mark when identifying Centrex lines. By default, all lines are assigned as CO lines.

Universal Night Answer (UNA)

Programming Steps

- 1. Press the UNA flexible button (FLASH 40, Page A, Button #3).
- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.

[0] = Disabled

[1] = Enabled



3. Press HOLD to save the entry. A confirmation tone is heard.

Description

If a line is marked UNA, this activates night service answering of incoming calls on this line by stations not normally assigned access to the line(s). This station must have a direct CO appearance or an available loop key assigned to do this. Lines marked as UNA also activate Night Ringing over External Page when in the night mode if External Night Ringing is set to Yes. By default, UNA is enabled.

DISA CO-to-CO

Programming Steps

- Press the DISA CO-TO-CO flexible button (FLASH 40, Page A, Button #4).
- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled

DISA CO-TO-CO	0-1
ENABLED	

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The DISA CO-to-CO (or Conference) mark on the CO line governs a DISA caller's ability to access other outside lines. CO lines must have DISA CO-to-CO enabled to allow a DISA caller to establish an outgoing CO-to-CO connection. This allows for specific CO line access restriction on DISA calls. A station with Conference enabled can initiate a conference on CO lines regardless of the CO line conference marking. By default, DISA CO-to-CO is enabled for all CO lines.

The CO line conference flag affects a DISA caller's ability to access outgoing CO lines as shown in the following table:

Incoming DISA CO	DISA Caller Attempts to Access		
meaning 515/1 Co	CO-to-CO Enabled	CO-to-CO Disabled	
CO-to-CO Enabled	Call Allowed	Call Denied	
CO-to-CO Disabled	Call Denied	Call Denied	

Table 3-1: CO Line Conference Flag

Page A Introduction 3-7

Privacy

Programming Steps

- 1. Press the PRIVACY flexible button (FLASH 40, Page A, Button #5).
- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled



3. Press HOLD to save the entry. A confirmation tone is heard.



Disabling the privacy feature may be limited by federal, state or local law, so check the relevant laws in your area before disabling privacy.

Disabling Privacy Function

The system can be programmed to eliminate CO Line Privacy, which allows another station to join existing outside line conversations as follows:

- ☐ Stations must have a direct CO line appearance to join CO line conversations in progress.
- A station must also have Privacy disabled before the system allows that station to enter an existing conversation.
- ☐ A programmed warning tone is presented to both parties prior to actual cut-through (Flash 06, Button 1).
- □ Up to seven other stations may join an existing conversation.
- ☐ The station joining the call receives a solid red LED indication.

 By default, Privacy is enabled for all CO Lines.

Station Attempting to	CO Line in Use by Another Station		
Access CO Line	Privacy Enabled	Privacy Disabled	
Privacy Enabled	Private (no cut-through)	Private (no cut-through)	
Privacy Disabled	Private (no cut-through)	Privacy Release (cut-through allowed)	

Table 3-2: CO Line Privacy Flag

Loop Supervision Programming

Programming Steps

- 1. Press the LOOP SUPV flexible button (FLASH 40, Page A, Button #6).
- 2. Enter a valid number (1-9) on the dial pad which corresponds to 100-900 ms. (0 = disabled).

LOOP 4	SUPERVISION	0-9	
4			

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Loop Supervision is used primarily with DISA, Voice Mail/Auto Attendant and with unsupervised conference applications. It lets the system detect when loop current is broken and an outside line is no longer being used. To determine timer value for loop supervision, consult your local central office for type and duration of loop supervision signal. By default, Loop Supervision is set for 400 ms for all CO Lines.

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DISA Programming

Programming Steps

- 1. Press the DISA flexible button (FLASH 40, Page A, Button #7).
- 2. Enter a valid number (0-5) on the dial pad to indicate type of DISA desired.
 - [0] = No DISA
 - [1] = 24-Hour DISA
 - [2] = Night DISA
 - [3] = 24-Hour DISA with forwarding
 - [4] = Night DISA with forwarding
 - [5] = Telecenter 24-Hour DISA with forwarding



3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Each CO can be assigned as a DISA line using 1 of the 5 DISA types available.

- □ DISA can be programmed using Range programming.
- DISA callers are subject to the Class of Service placed on the line accessed for out dialing.
- The system administrator can control the call duration after establishing a Trunk-to-Trunk call.
- After expiration of the Conference Timer, a tone is presented to both DISA parties, then one minute later the system automatically releases both trunks.
- ☐ The Conference Timer does not affect or control a DISA-to-Station call. By default, there are no outside lines assigned as DISA lines.

CO Line Group Programming

Programming Steps

- 1. Press the CO LINE GROUP flexible button (FLASH 40, Page A, Button #8).
- 2. Enter a valid number on the dial pad (0-23) which corresponds to Groups 0-23.



3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Twenty four line groups are available for CO line assignment. Groups should be assigned according to type (local, FX, WATS, etc.). All unassigned CO lines should be programmed into a different group so they are not accessed by Line Queuing, Pooled Group access (Pool Buttons), Speed Dial, or LCR features.

Line Group 0 is for programming a line(s) as private. CO Lines assigned to Line Group 0 can only be accessed by stations with a direct CO appearance (button) on their phone. All unused COs should be placed in Line Group 0. By default, all lines are placed in Line Group 1.



When tying multiple systems to get her, use the Networking Table (FLASH 16).

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Class of Service (COS)

Programming Steps

- 1. Press the LINE COS flexible button (FLASH 40, Page A, Button #9).
- 2. Enter a valid number on the dial pad (1-5) which corresponds to five possible class-of-service to which a line may be assigned:

COS1 = No restrictions

COS2 = Table A governs, Station COS 2 and 4 are monitored

COS3 = Table B governs, Station COS 3 and 4 are monitored

COS4 = Restricts [0], [1], [*], [#] dialed as first-digit and places a 7-digit dialing limitation. Allowed are: 1-800, 1-888, 1-866, 1-877, 1-911, and 1-611. Denied are: 411, 976, and 555.

COS5 = Overrides Station COS 2, 3, 4, 5 and allows unrestricted dialing.

CLASS OF SERVICE	1-5
1	

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Through assignments of a CO Class of Service, the assigned CO line interacts with a station Class of Service, provides a canned restriction, or provides unrestricted dialing capabilities. (When a CO line is marked PBX, COS restrictions apply to the station only if one of five PBX codes are dialed first.)

			CO LINE	CLASS OF SERV	ICE	
		1	2	3	4	5
S	1	Unrestricted	Unrestricted	Unrestricted	Canned Restricted*	Unrestricted
A T	2	Table A	Table A	Unrestricted	Canned Restricted*	Unrestricted
0 N	3	Table B	Unrestricted	Table B	Canned Restricted*	Unrestricted
$\begin{bmatrix} \mathbf{C} \\ \mathbf{O} \end{bmatrix}$	4	Table A and B	Table A	Table B	Canned Restricted*	Unrestricted
S	5	Canned Restricted*	Canned Restricted*	Canned Restricted*	Canned Restricted*	Unrestricted
	6	Intercom Only	Intercom Only	Intercom Only	Intercom Only	Intercom Only

Table 3-3: Class of Service (COS)

CO Line Ringing Assignments

Programming Steps

1. Press the RING ASSIGNMENT flexible button (FLASH 40, Page A, Button #10). The display shows the following information:

RING ASSIGNMENTS ENTER DDDR

2. Enter a valid Destination (DDD) and Ring type (R) followed by the HOLD button. A confirmation tone is heard and the display updates.

^{*}Canned Restriction: No [0], [1], [#], [*] as first dialed digit, and 7-digit dialing limitation; plus 1-800, 1-888, 1-866, 1-877, 1-911, 1-611 are allowed, and 411, 976, and 555 numbers are denied.

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Table 3-4: CO Line Ringing Assignments

Valid 3-Digit Destinations (DDD)	Valid Ring Types (R)
[020-999] = System Speed Bins 1020–1999, for Off-Net Ringing ^a	[0] = No Ring; unassigned; or to delete a station
[100-171] = Triad 1/2 Extension Numbers [100-351] = Triad 3 Extension Numbers	[1] = Day Ring [D]
[440-447] = Voice Mail Groups 1–8	[2] = Night Ring [N]
[450-457] = Hunt Groups 1–8	[3] = Day/Night Ring [DN]
[499] = Direct Ringing to Modem	[4] = Special Only [S]
[550-565] = ACD Groups 1–16	[5] = Day/Special [DS]
[550-557] = UCD Groups 1–8	[6] = Night/Special [NS]
	[7] = All Modes [Day/Night/Special [A]

a. Expanded Speed Dial Bins require Expanded Memory.

${\it Adding\,Multiple\,Stations}$

Enter: DDDR HOLD DDDR HOLD DDDR HOLD...etc. (Example: 1073 HOLD, 1083 HOLD, 1093 HOLD)

Deleting a Single Station

Enter: DDD0 HOLD (Example: 1080 HOLD)

Deleting Multiple Stations

Enter: DDD0 HOLD DDD0 HOLD...etc. (Example: 1080 HOLD, 1090 HOLD)

Description

Each CO Line may be assigned to ring any station in the system; UCD, Voice Mail or Hunt Group, or Off-Net (via speed dial). CO Line ringing is programmed on a per CO Line destination basis. Each destination may be designated to ring during the day, during the night, or receive both Day and Night ringing. Stations that are assigned for initial ring-in **must have** a LOOP button (s) to answer calls if a direct CO appearance is unavailable.

An incoming CO line may be programmed to any number of stations but it cannot be programmed to ring a mixture of stations and groups in the same time period. Incoming calls directed Off-Net are connected to an outgoing system speed bin. CO lines assigned to ring multiple stations do not follow any station's forwarding. By default, all CO lines ring at the Attendant, Station 100 during Day and Night Modes.

CO Line Identification Display

Programming Steps

Each CO line in the system can be programmed to have a name associated to it in database programming.

1. Press the CO LINE IDENTIFICATION flexible button (FLASH 40, Page A, Button #11). The following message displays:

```
LINE ID
LINE 001
```

2. Enter the name by using keys on the dial pad as follows. Valid alphanumeric characters are: [A-Z], [0-9], [*], [#], [-] [spaces] and other ASCII characters as listed in *Table 3-5*.

The name may be entered in any combination up to 12 characters (this represents 24-digits entered).

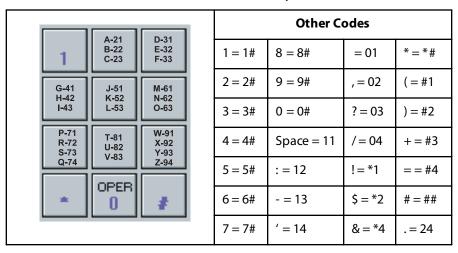


Table 3-5: Dial Pad Keys

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Co Line Identification Display feature allows the entry of a name for each line (trunk) connected to the system. Once entered into the database, LCD phones, including the Attendant stations, receive the programmed line name in place of the default LINE XXX message. This applies to all line call processing conditions where the current LINE XXX message displays. SMDR continues to print out the line number in place of the programmed name. If the line name was not programmed, the current LINE XXX display is the default. A programmable data field is available for each line in the system. Line names may be assigned using the range programming.

A message similar to the following display is used for all CO Line displays when a name is programmed for a CO Line.





Entries can be made using a key board by following the same outlined procedures using Figure 1-1.

CO Direction

Programming Steps

 Press the TRUNK DIRECTION flexible button. (FLASH 40, Page A, Button #12). The following message displays:

CO DIRECTION	0-3	
INCOMING - OUTGOING	0-3	

- 2. Enter a valid number (0-3) on the dial pad which corresponds to the desired CO type:
 - [0] = Out-of-Service (OOS)
 - [1] = In coming Only
 - [2] = Outgoing Only
 - [3] = Both Incoming and Outgoing
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

CO Lines can be programmed on a per CO Line basis for the type of CO Line desired: Incoming, Outgoing, or Incoming and Outgoing.

Incoming

- □ Incoming restricts the CO Line for incoming calls only.
- ☐ Users can place call on hold, park the call, and other stations can pick up the call.

Outgoing

- □ Outgoing restricts the CO Line to outgoing calls only.
- ☐ Users can place call on hold, park the call, and other stations can pick up the call.

Incoming and Outgoing

- □ Incoming and outgoing type allow calls to be received or dialed out.
- ☐ By default, all CO Lines default to both incoming and outgoing type.

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Display Ring Assignments

Programming Steps

Press FLASH 40, Page A, Button #13to display ring assignments.
 Assignments are displayed in sets of 8, up to the number programmed. The following format displays the assignments.

```
DDDRR DDDRR DDDRR DDDRR
DDDRR DDDRR DDDRR

DDD = Destination

RR:

[0] = No Ring
1 [D] = Day Ring
2 [N] = Night Ring
3 [DN] = Day/Night Ring
4 [S] = Special Only
5 [DS] = Day/Special
6 [NS] = Night/Special
7 [A] = All Modes (Day/Night/Special)
```

2. Press **FLASH 40, Page A, Button #13** additional times to cycle to the next group of eight ring assignments. Ring assignments are displayed in numerical order, from the lowest to the highest number.

DID/TIE Signaling

Programming Steps

1. Press **FLASH 40, Page A, Button #14**. The following message displays:

```
DID/TIE SIGNALING 0-2
WINK
```

- 2. Dial a valid number (0-2) on the dial pad.
 - [0] = Immediate Start
 - [1] = Wink Start
 - [2] = Delay Start
- 3. Press HOLD to save the entry.

Description

The DID/TIE Signaling feature can be programmed for one-way direct access inward dialing access to specific stations on specific DID lines without going through an Attendant answering position.

911 Trunk

Programming Steps

1. Press **FLASH 40, Page A, Button #15** to designate the line for 911 use. The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

When the 911 system feature is enabled (FLASH 06), this identifies which CO lines are to be used for placing 911 calls. The Attendant is alerted via the display and flexible button as to the time, date, and station number(s) that placed the 911 call.



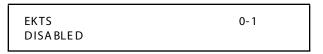
Lines must be programmed for 911 to enable the 911 feature.

Failure to enable lines for 911 disables 911 calls.

Electronic Key Telephone Service

Programming Steps

1. Press **FLASH 40, Page A, Button #16** to enable or disable extended key telephone service. The following message displays:



2. Enter a 0 or 1 on the dial pad to enable/disable this feature.

[0] = Disabled

[1] = Enabled

- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.
- 4. Reset the KSU

-or-

Reset only the card using "config" without resetting the whole telephone switch. To do this, type config at the Enter Password prompt. Then type r < space > k (k = slot number). For example, r < space > 2 indicates that the BRI card is in slot 2.



Shared numbers are routed using the standard DID tables (Flash 43 and 44).

Numbers that are not shared will only ring on the designated channel. If the designated channel is busy, the caller will receive a busy signal.

Description

Extended key telephone service (EKTS) is used with the ISDN BRI to simulate DID calling.

Conditions

- ☐ To support EKTS, telephone switch software must be 3.0G or higher and BRIB firmware must be 0.1G or higher.
- □ When ordering EKTS, request basic EKTS, not cache EKTS.
- □ Order only one SPID and one primary directory number per channel.
- □ Secondary directory numbers (e.g., DID numbers) are shared across each channel to a maximum of 32 channels.
- \Box Sharing can only be done between circuits on one card.

Page B Introduction

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode. If Page B CO Line features must be changed:

1. Press **FLASH** and dial **[40]**. The following message displays:

```
CO LINE ATTRIBUTES
SELECT A CO LINE RANGE
```

2. Enter a valid number for the range of lines being programmed. If only one line is being programmed, enter that number twice (001 001).



If HOLD is pressed without entering a CO range, ALL CO lines (001-144) are selected.

- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates. Flexible Button #19 (Page A) is lit.
- 4. Press the PAGE B flexible button (Button #20). The following message displays:

```
XXX - XXX PAGE B
ENTER BUTTON NUMBER
```

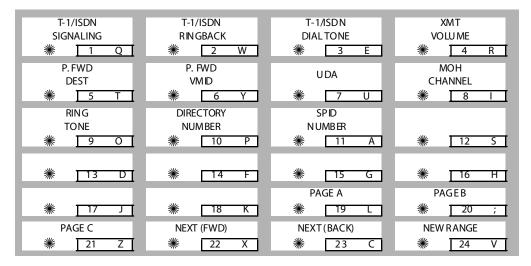
```
XXX-XXX = CO Line Range
001-048 = Triad 1/2
001-144 = Triad 3
```

Description

This section describes the procedures and steps necessary to program CO Line attributes. When entering the CO Line attributes portion of the database, the programmer may decide to enter information for a range of CO lines or one specific CO Line.

Range programming lets the programmer change a specific parameter or a few parameters for an entire range of CO Lines leaving intact the remaining data fields that do not require change. Those data fields continue to operate with the previously programmed data.

When programming the Page B features, the flexible buttons are mapped as follows:



T-1 Signaling Type

Programming Steps

1. Press the T-1 SIGNALING flexible button (FLASH 40, Page B, Button #1). The following message displays:

T-1 SIGNAL TYPE 0-7 LOOP START 2. Enter a valid number (0-7) on the dial pad that corresponds to one of the following types:

Signaling Option Description None is used for fractional T-1 spans. All unused channels in a [0] = Nonefractional T-1 span should be marked as None. [1] = Data (future) [2] = Loop Start Disconnect supervision is not supported for Loop Start emulation of T-1 circuits. [3] = Ground StartSoftware supports disconnect supervision for ground start emulation of T-1 circuits. [4] = DIDThe DID signaling (wink, delay) is controlled in Flash 45. DNIS digits from the carrier are routed via the DID table programming in Flash 44. This simulates incoming DID service only.

Table 3-6: T-1 Signaling Options

3. Press the HOLD button. A confirmation tone is heard and the display updates.

The ANI number is treated and routed as an ICLID number. It follows the Flash 43 programming for routing information.

Description

[5] = TIE

[6] = TIE/DNIS [7] = TIE/ANI

The T-1 trunk card provides the *Triad* Digital Systems with the ability to connect to digital T-1 trunk circuits. The T-1 trunk card supports either the standard D4 framing format with Alternate Mark Inversion (AMI) or Extended Superframe (ESF-B8ZS) format coding. The system can support TIE, loop start, ground start, and DID signaling per channel. The T-1 trunk card fits into one card slot, however, it takes up two card slots worth of time slots.

The T-1 signaling protocols provided are: Loop Start, Ground Start, TIE. The *Triad* Digital Systems use the TIE signaling simulation from the Central Office to add the additional protocol of Direct Inward Dial (DID).

T-1 trunking provides services called Automatic Number Identification (ANI) and Dialed Number Identification Service (DNIS). The T-1 feature supports both of these services. The *Triad* Digital Systems support ANI, DNIS, or an ANI and DNIS combination on a per channel (line) basis. By default, the T-1 Signal Type Option is Loop Start.

T-1 Ringback

Programming Steps

1. Press the RINGBACK flexible button (FLASH 40, Page B, Button #2). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

The T-1 Ringback option supports T-1 channels which require ringback tone to be transmitted to the caller while a call is ringing. Some carriers require the system to generate the ringback tone, this feature allows the system to provide this option. Ringback tone is not used with the DISA, TIE Line, or DID signal options. By default, the T-1 Ringback Option is enabled.

T-1 Dial Tone

Programming Steps

Press the DIAL TONE flexible button (FLASH 40, Page B, Button #3).
 The following message displays:

T-1 DIAL TONE	0-1
DISABLED	

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

An option has been added to support T-1 channels which do not supply dial tone. Some carriers require the system to generate dial tone to its users, while other carriers do not. (By default, the Dial Tone option is disabled.)

Transmit Volume

Programming Steps

1. Press the TRANSMIT VOLUME flexible button (FLASH 40, Page B, Button #4). The following message displays:

TRANSMIT VOLUME	0-9
0 DB	

2. Enter a valid number (0-9) for the desired volume level.

[0]	-15 dB	[5]	0 dB
[1]	-12 dB	[6]	+3 dB
[2]	-9 dB	[7]	+6 dB
[3]	-6 dB	[8]	+7.5 dB
[4]	-3 dB	[9]	+9.0 dB

3. When the desired level is selected, press HOLD to complete the entry. A confirmation to ne is heard and the display updates.

Description

Up to ten volume levels are available for each CO Line in the system. By default, all CO lines are programmed for level 5 (0 dB).



Do NOT adjust this option without consulting Technical Support first. The default settings were set to apply to most applications. Have the dB readings on all CO lines available when calling Technical Support.

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Preset Call Forward Destination

Programming Steps

1. Press the PRESET FWD DESTINATION flexible button (FLASH 40, Page B, Button #5). The following message displays:

```
PRESET FORWARD DEST ####
```

2. Enter a valid forward destination on the dial pad.

```
[1020-1999] = System Speed Bins

[100-171] = Triad 1/2 Station Extensions

[100-351] = Triad 3 Station Extensions

[440-447] = Voice Mail Groups 1-8

[450-457] = Hunt Groups 1-8

[499] = System Modem

[550-557] = UCD Groups 1-8

[550-565] = ACD Groups 1-6
```

3. A confirmation tone is heard and the LCD display updates.

Description

The Preset Call Forward Destination feature enables a CO line to initially ring at multiple stations and forward to a pre-determined destination. The destination can be a station (EKT-SLT) or Hunt group. Each CO line has a Preset Forward Timer. Each CO line also has a VMID field to allow sending of specific VM digits when a CO line forwards to a VM group. Calls ringing into ACD/UCD Groups or Voice Mail Groups continue to ring the group. The CO line does not forward when ringing one of these types of groups. By default, no destinations are assigned.

Preset Forward Voice Mail ID

Programming Steps

 Press the PRESET FWD VMID flexible button (FLASH 40, Page B, Button #6). The following message displays:

```
PRESET FORWARD VMID 0000-9999 ####
```

- 2. Enter a valid number on the dial pad that corresponds to 0000-9999 for Voice Mail ID digits.
- 3. Press HOLD to complete the entry. A confirmation tone is heard and the display updates.

Deleting Numbers Currently Entered

- 1. Press [#] button four times.
- 2. Press the HOLD button to update. (All information is erased.)

Description

The Preset Forward Voice Mail ID feature allows a programmer to assign which digits are sent to voice mail when a CO line is programmed to Preset Forward. By default, no digits are sent.

Universal Day Answer (UDA)

Programming Steps

 Press the UNIV. DAY ANSWER flexible button (FLASH 40, Page B, Button #7). The following message displays:

UNIVERSAL DAY ANSWER 0-1 DISABLED

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

UDA-assigned CO lines can signal over external page port(s). External Day ringing is programmed on a system-wide basis in administrative programming. Stations that do not have access to a line during the day can answer that line while the System is in the day mode by dialing a UDA code [#5]. To use this feature, a LOOP button or an appearance of the trunk must be present on the station. By default, the Universal Day Answer feature is disabled.

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Music-On-Hold (per CO Line)

Programming Steps

 Press the MUSIC-ON-HOLD flexible button (FLASH 40, Page B, Button #8). The following message displays:

```
MOH CHANNEL 0-8
```

2. Enter a valid number on the dial pad to change this feature.

```
[0] = No Music-On-Hold
```

[1] = Channel 1

: : : :

[8] = Channel 8

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Program Code	Flex Button	Feature	Default (after initialization)
FLASH 09	1 2 3 4 5 6	Music Channel #3* Music Channel #4* Music Channel #4* Music Channel #5* Music Channel #6* Music Channel #7* Music Channel #8* ##	
* Music Chan	nels 3-8 can or	nly be used for Music-On-H	lold functions

Table 3-7: MOH Programming Codes

Description

The Music-On-HOLD feature allows a user to select the Music-On-Hold channel for each CO line. This feature lets the system assign CO line circuits as additional music inputs. This increases the capacity of music channels beyond the two available on the MISU to be used for MOH sources. A total of eight channels are available for use on the system. The CO line can be assigned to NOT PLAY music for callers on hold. By default, Channel 1 is used for Music-On-Hold.

Ring Tone (per CO Line)

Programming Steps

Press the RING TONE flexible button (FLASH 40, Page B, Button #9).
 The following message displays:

RING TONE	00-36
00	

2. Enter a valid number on the dial pad to change this feature.

Tone# Freq Tone# Tone# Freq Tone # Freq Freq 00 697/770 10 770/1209 20 852/0 30 1336/1477 01 697/852 11 770/1336 21 941/1209 31 1336/1633 02 697/941 12 770/1477 22 941/1336 32 1336/0 03 697/1209 13 770/1633 23 941/1477 33 1477/1633 04 14 770/0 24 34 1477/0 697/1336 941/1633 05 697/1477 15 852/941 25 941/0 35 1633/0 697/1633 36 06 16 852/1209 26 1209/1336 No Ring 07 17 697/0 852/1336 27 1209/1477 80 770/852 18 852/1477 28 1209/1633 09 770/941 19 852/1633 29 1209/0

Table 3-8: Ringing Tones

Tone Duration = 50 ms/50 ms

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The ring tone signal used to notify stations of an incoming call can be changed in a dministrative programming to provide distinctive ringing on a per CO line basis. A distinctive ring tone can be programmed for each CO line that rings each station. The system provides 36 different ring patterns that can be selected for each CO line in the system.

By default, Ring Tone is set for 00 (697/770).



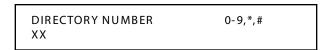
Distinctive CO Ring Tone overrides station distinctive ringing.

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Directory Number

Programming Steps

1. Press the DIRECTORY NUMBER flexible button (FLASH 40, Page B, Button #10). The following message displays:



2. Enter the directory number (Up to 24 digits (0-9, *, #)



The Directory number is provided by the Central Office. The number must be entered on the correct line for proper operation.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

SPID

Programming Steps

1. Press the SPID flexible button (FLASH 40, Page B, Button #11). The following message displays:



2. Enter the SPID number (Up to 24 digits (0-9, *, #).



The SPID number is provided by the Central Office. The number must be entered on the correct line for proper operation.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Page C Introduction

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode first.

1. Press **FLASH** and dial **[40]**. The following message displays:

CO LINE ATTRIBUTES
SELECT A CO LINE RANGE

2. Enter a valid number for the range of lines being programmed. If only one line is being programmed, enter that number twice (001 001).



If HOLD is pressed without entering a CO range, ALL CO lines (001-144) are selected.

3. Press Button #21 to select Page C. The display updates. The following message displays to indicate current programming of that line or group of lines:

XXX - XXX PAGE C ENTER BUTTON NUMBER

XXX-XXX = CO Line Range 001-048 Triad 1/2 001-144 Triad 3

Description

When entering the CO Line attributes portion of the database, the programmer may decide to enter information for a range of CO lines or one specific CO Line.

Range programming lets the programmer change a specific parameter or a few parameters for an entire range of CO lines, leaving intact the remaining data fields that do not require change. Those data fields continue to operate with the previously programmed data. (By default, Page A is shown.)

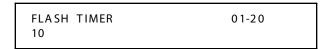
FLASH WINK RING **RELEASE** TIMER **DELAY TIMER** TIMER TIMER Q W 3 ΕĪ RESEIZE GUARD SEIZE PRESET TIMER TIMER TIMER FWD TMR 6 7 U 8 DID COLLECT T-1 TIMER **COLLECT TIMER** 9 0 10 11 Α 12 S ** 13 D 14 15 G H PAGE A PAGEB 19 20 PAGE C NEXT(FWD) NEXT(BACK) **NEW RANGE** Χ 21 Ζ 22 23 C 24

When programming the Page C features, the flexible buttons are mapped as follows:

Flash Timer

Programming Steps

- 1. Press the FLASH TIMER flexible button (FLASH 40, Page C, Button #1).
- 2. Enter a valid number on the dial pad (01–20) which corresponds to 100 ms to 2 seconds.



3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Flash is a programmable opening on a line for signaling. When using an outside line, flash lets a user obtain a new dial tone without losing the line. This is particularly useful behind a PBX or Centrex. Each CO line can be programmed for a flash time. By default, the Flash Timer is set for 10 (1.0 seconds) and is variable from 01-20 (100 ms to 2 seconds).

Ring Delay Timer

Programming Steps

 Press the RING DELAY TIMER flexible button (FLASH 40, Page C, Button #2). The following message displays:

RING DEL	AY TIMER	00-20
00		

- 2. Enter a valid number on the dial pad (00–20) which corresponds to 00-20 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Ring Delay timer was added to the *Triad 1/2/3* to accommodate ICLID interface requirements. The Ring Delay timer is started whenever a CO Line detects incoming ringing. When the timer expires, CO line ringing is detected by digital telephones and SLTs.

The purpose of this timer is to wait until after the first ring cycle to be detected by the digital system so the ICLID information is passed down the CO line prior to being answered. In some cases, it may be necessary to set the Ring Delay Timer to four seconds so all the ICLID information is received from the Central Office. By default, the Ring Delay Timer is set at 00 (disabled) and is variable from 00-20 seconds.

Wink Timer

Programming Steps

1. Press the WINK TIMER Button (FLASH 40, Page C, Button #3) in the flexible button field. The following message displays:

	TIMER	100-290
140		

- 2. Enter a valid number which corresponds to 100-290 ms.
- 3. Press HOLD button to save entry. A confirmation tone is heard and the display updates.

Description

When Wink signaling is programmed, this timer determines how long the *Triad 1/2/3* System keeps the T-1 TIE Line circuit reversed before any DTMF digits are sent from the Central Office. This option allows the installer a method to adjust the Wink Signal on a per CO Line basis. The Wink Signal can be used on DID and T-1 E & M type trunks. By default, the Wink Timer is set for 140 ms.

Release Timer

Programming Steps

1. Press the REL EASE TIMER Button (FLASH 40, Page C, Button #4) in the flexible button field. The following message displays:

RELEASE TIMER	000-255
020	

- 2. Enter a valid number on the dial pad which corresponds to 000-255 ms.
- 3. Press HOLD button to save entry. A confirmation tone is heard and the display updates.

Description

The Release Timer option allows the user to adjust the release timer on a per CO Line basis. The release timer is used on ground start type trunks.

This timer is a lead filter timer. The CO must remove ground from the tip lead for longer than this timer in order for the system to recognize it. By default, the Release Timer is set for 200 ms.

Reseize Timer

Programming Steps

1. Press the RESEIZE TIMER Button (FLASH 40, Page C, Button #5) in the flexible button field. The following message displays:

RESEIZE TIMER	000-255
200	

- 2. Enter a valid number on the dial pad that corresponds to 000–255 (0 ms to 2.55 seconds).
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

The Reseize Timer option lets the user adjust the Reseize Timer on a per CO Line basis. The Reseize Timer can be used on any trunk type. This timer sets the time period that a trunk is held disconnected after receiving a disconnect before being reseized when a device is queued for a member of the trunk group. By default, the Reseize Timer is set for two seconds.

Guard Timer

Programming Steps

1. Press the GUARD TIMER button (FLASH 40, Page C, Button #6) in the flexible button field. The following message displays:

GUARD TIMER	1-60
05	

- 2. Enter a valid number on the dial pad which corresponds to 1–60 (100 ms to 6 seconds).
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The outgoing Guard Timer is used to set the length of time a CO is held busy to outgoing seizure after a valid release is detected. If a user attempts to access a CO line before the Guard Timer expires, their LED illuminates to indicate that the line is seized, however the CO line is not actually seized until the timer expires. The user gets a busy tone, and may receive a delayed CO dial tone if the timer is set to a large value. By default, the Guard Timer is set for .5 seconds.

Seize Timer

Programming Steps

1. Press the SEIZETIMER Button (FLASH 40, Page C, Button #7) in the flexible button field. The following message displays:

SEIZE TIMER	000-255
010	

- 2. Enter a valid number on the dial pad which corresponds to 000–255 (100 ms to 2.55 seconds).
- 3. Press the HOLD button to save the entry. A confirmation tone heard and the display updates.

Description

The Seize Timer option allows the user to adjust the Seize Timer on a per CO Line basis. The Seize Timer is used on ground start type trunks. This Seize Timer is a lead filter timer. The CO must provide ground at the tip lead for longer than this timer in order for the system to recognize it. By default, the Seize Timer is set for 0.1 seconds.

Preset Forward Timer

Programming Steps

1. Press the PRESET FWD TIMER flexible button (FLASH 40, Page C, Button #8). The following message displays:

PRESET FWD T	TIMER	00-99
10		

- 2. Enter valid number on dial pad which corresponds to 00–99 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

The Preset Forward Timer determines the time an outside line rings before being forwarded to a predetermined destination. If a forward destination is programmed in the CO line field, the CO calls forward to that destination after the CO preset forward timer expires. This forward occurs regardless of how many stations the line is ringing.

The digits entered for the CO line are sent in the station field. This feature applies to initial CO ringing lines only and works with Preset Forward CO Line assignments. By default, the CO Line Preset Forward Timer is set at 10 seconds and is variable from 00-99 seconds. A [00] entry disables the timer and the feature is disabled.

DID Collect Timer

Programming Steps

1. Press the DID COLLECTTIMER Button (FLASH 40, Page C, Button #9) in the flexible button field. The following message displays:

DID COLLECT TIMER	010-200	
015		

- 2. Enter a valid number on the dial pad that corresponds to 010–200 (100 ms to 2.0 seconds).
- 3. Press HOLD button to save entry. A confirmation tone is heard and the display updates.

Description

The DID Collect Timer is only used when the DID Incoming Signaling is set for dial pulse. This is a time-out timer that looks at the incoming digits one digit at a time. If a second digit isn't detected within the 150ms, the telephone system attempts to process that digit. If a second digit is detected, the system waits 150ms to see if a third digit is received. Otherwise, the telephone system attempts to process the two digits already received. This process continues until no additional digits are received and the time-out timer expires. By default, the DID Collect Timer is set for 150 milli-seconds and is variable from 100ms to 2.0 seconds.

T-1 Collect Timer

1. Press the T-1 COLLECTTIMER flexible button (FLASH 40, Page C, Button #10). The following message is shown on the display phone:

```
T1 COLLECT TIMER 010-200 015
```

- 2. Enter a valid number on the dial pad which corresponds to 010–200 (100 ms to 2.0 seconds).
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

The T-1 Collect Timer is only used when the T-1 Incoming Signaling is set for dial pulse. This is a time-out timer that looks at the incoming digits one digit at a time.

If a second digit isn't detected within the 150ms, the telephone system attempts to process that digit. If a second digit is detected, the system waits 150ms to see if a third digit is received. Otherwise, the telephone system attempts to process the two digits already received. This process continues until no additional digits are received and the time-out timer expires.

By default, the T-1 Collect Timer is set for 150 milli-seconds and is variable from 100ms to 2.0 seconds.

Miscellaneous CO Parameters

Programming Steps

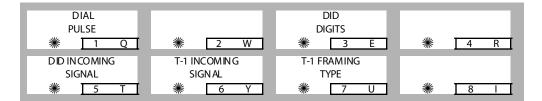
If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode first.

1. Press **FLASH** and dial **[41]**. The following message displays:

CO FEATURES ENTER BUTTON NUMBER

- 2. Select any feature by pressing the appropriate flexible button(s) in the flexible field.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

When entering the Miscellaneous CO Parameters programming area the buttons on the digital telephone are defined as shown below:



Dial Pulse Parameters

Programming Steps

1. Press the DIAL PULSE flexible button (FLASH 41, Button #1). The following message displays:

```
DIAL PULSE
60 / 40 10 PPS
```

2. Enter a valid number (0–3) which corresponds with the following entries:

```
[0] = 60/40 \, (RATIO), 10 \, pps \, (SPEED)
```

[1] = 66/33 (RATIO), 10 pps (SPEED)

[2] = 60/40 (RATIO), 20 pps (SPEED)

[3] = 66/33 (RATIO), 20 pps (SPEED)

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

The Dial Pulse option lets the installer adjust the dial pulse ratio and speed when using dial pulse (rotary) type signaling. By default, all lines are DTMF (tone) signaling. If pulse dialing is required, the individual outside line must be programmed for Dial Pulse (DP). When Dial Pulse is selected, this system-wide parameter must be set to determine the break/make ratio and the dial speed of the dial pulse signal.



This program code is only used when an outside (CO) line is programmed for Dial Pulse.

DID Digits

Programming Steps

To make a change to the number of DID Digits:

1. Press the DID DIGITS flexible button (FLASH 41, Button #3). The following message is shown on the display phone:

DID DIGITS	3-7
3	

- 2. Enter a valid number (3–7) on the dial pad which corresponds to the number of digits used for the routing of the DID Number.
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

The DID Digits option allows the installer to adjust the amount of DID Digits received from the CO. This amount is used by all DID trunks in the system.

The DID Translation table can be programmed to determine the number of digits used for the routing of a DID call. By default, the number of DID digits is set to 3.



At least one DTMF receiver MUST be installed in the system

DID Incoming Signaling

Programming Steps

There are 2 types of DID Signaling available for DID Trunks. To change the type of signaling:

 Press the DID INCOMING SIGN ALING flexible button (FLASH 41, Button #5) for programming the type of DID signaling desired.
 The following message is shown on the display phone:

DID INC SIGNALING	0-1
DTMF	

2. Enter a 0 or 1 on the dial pad.

[0] = Dial Pulse

[1] = DTMF

3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

The DID Incoming Signal option allows the installer to determine the type of incoming signaling used by all T-1 trunks in the system. By default, the type of DID Incoming Signaling is set for DTMF.

T-1 Incoming Signaling

Programming Steps

There are two types of T-1 Signaling available for T-1 Trunks. To change the type of signaling:

 Press the T1 INCOMING SIGNALING flexible button (FLASH 41, Button #6) for programming the type of T-1 signaling desired. The following message is shown on the display phone:

T1 INC SIGNAL	0-1
DTMF	

- 2. Enter a 0 or 1 on the dial pad.
 - [0] = Dial Pulse
 - [1] = DTMF
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

The T-1 Incoming Signaling option allows the installer to determine the type of incoming signaling to be used by all T-1 trunks in the system. By default, the type of T-1 Signaling is set for DTMF.

T-1 Framing Type

There are two types of T-1 Framing Types available. To change the framing type:

1. Press the T1 FRAMING TYPE flexible button (FLASH 41, Button #7) for programming the type of T-1 framing desired. The following message is shown on the display phone:



- 2. Enter a 0 or 1 on the dial pad.
 - [0] = D4SF-AMI
 - [1] = ESF-B8ZS
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

T-1 boards 9031-31 and 8031-31 will work with D4SF-AMI or ESF-B8ZS framing. The T-1 service should be ordered from the serving company. By default, the type of T-1 Framing is set for D4SF-AMI.

Conditions

☐ The T-1 board must have firmware Version 1.0 or higher.

Flexible CO Port Assignment

Programming Steps

If the CO Line numbers need to be relocated to different ports, press **FLASH** and dial **[42]**. The following message displays:

```
CO 001 002 003 004 005
006 007 008
```

Buttons 1 through 18 indicate Ports 1 through 144. When the relocation program is initially entered, Button #1 is lit to indicate that the user is programming the CO Line numbers.

Changing the CO Line Number Assigned to any Port

- 1. Dial the position number on the display (01 through 08).
- 2. Then dial the CO Line number desired and press HOLD.

Example 1 – If [01003] is dialed and the HOLD button is pressed, the CO line number of the first entry on the display changes to [003]. Since [003] was shown as the third entry on the display, that entry is blank (###).

```
CO 003 002 ### 004 005
006 007 008
```

Example 2 -- If Button #3 (CO Ports 17-24) is pressed, the following display appears:

```
CO 017 018 019 020 021
022 023 024
```

Example 3 -- If [03020] is dialed, the CO line number of the third entry on the display changes to [020]. Since [020] was shown as the fourth entry on the display, that entry is blank (###).

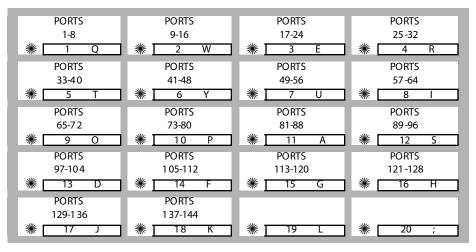
```
CO 017 018 020 ### 021
022 023 024
```



When all the CO Line numbers desired have been programmed, the system resets to update the data. This is done so that the programming of CO Lines can be done while the system is in use.

The Flexible Port Assignment feature provides a means to assign CO line numbers to any CO line port in the system. This provides complete flexibility in determining CO line numbers within the system as long as they stay within the system numbering plan. A CO line can be assigned any number between [001-048] for Triad 1/2 or [001-144] for Triad 3 on the STARPLUS Digital Systems.

The buttons on the digital telephone are defined as shown when entering the Flexible Port Assignment Feature programming area:



All CO line numbers entered are stored in a temporary database area which is uploaded to the main database when the system is reset.

Button #	CO Line#	Port #	Button#	CO Line #	Port#
1	001–008	1–8	10	073-080	73-80
2	009-016	9-16	11	081-088	81-88
3	017-024	17-24	12	089-096	89-96
4	025-032	25-32	13	097-104	097-104
5	033-040	33-40	14	105-112	105-112
6	041-048 *	41-48	15	113-120	113-120
7	049-056	49-56	16	121-128	121-128
8	057-064	57-64	17	129-136	129-136
9	065-072	65-72	18	137-144**	137-144

Table 3-9: Flexible Port Assignments

ICLID Programming

ICLID Ringing Assignments

Programming Steps

1. Press **FLASH** and dial **[43]**. The following message displays:

ROUTE 000 XXXXY

000 = Route Number (000-499)XXX = Ringing Destination

Y = Ringing Type

- 2. Press the RING ASSIGNMENT flexible button (FLASH 43, Button #1). LED #1 is lit indicating Route 000 is ready for programming.
- 3. Enter a valid Destination (XXX) and Ring type (Y) followed by HOLD. A confirmation tone is heard and the display updates.

^{*} CO Lines 001-048 available w/o MEMU installed (Triad 1/2)

^{**} CO Lines 001-144 available with MEMU installed (Triad 3)

ICLID Programming 3-45

Valid 3-Digit Destinations (XXX)Valid Ring Types (Y)[020-999] = System Speed Bins 1020–1999,
for Off-Net Ringing[0] = No Ring; unassigned; or to delete a
station[100-171] = Triad 1/2 Extension Numbers
[100-351] = Triad 3 Extension Numbers[1] = Day Ring [D][440-447] = Voice Mail Groups 1-8[2] = Night Ring [N][450-457] = Hunt Groups 1-8[3] = Day/Night Ring [DN]

[4] = Special Only [S]

[5] = Day/Special [DS]

[6] = Night/Special [NS]

[7] = All Modes [Day/Night/Special [A]

Table 3-10: ICLID Ringing Assignments

Description

[499] = Direct Ringing to Modem

[550-565] = ACD Groups 1-16

[550-557] = ACD Groups 1-8

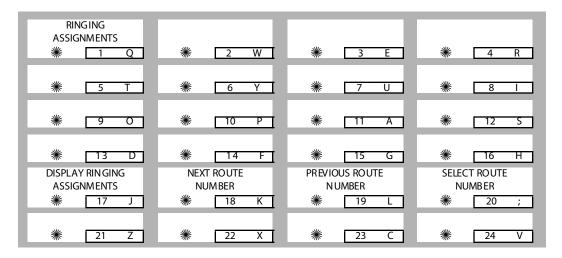
ICLID Ringing Assignments let you change the ring assignment based on the incoming number received. This feature permits you to select from 500 ringing routes for each entry in the name to number translation table and DID table (Flash 55). For example, this feature could be used to re-route selected customers to a specific ACD or UCD group and by pass the general Attendant.

The Direct Inward Dialing (DID) feature permits one-way direct inward dialing access to stations on specific DID lines from the public telephone network, without going through an Attendant answering position. DID capa bilities refer to incoming calls only.

The system accepts 3-7 digits from the Central Office. This lets the number and name field of the LCD display on a DID call be presented to the ICLID port. Calls are identified in the SMDR field as answered (I) or Unanswered (U) followed by the DID number. At least one DTMF receiver must be installed.



All previously programmed routes will be lost when up grading from FP2 to FP3.



View ICLID Ringing Assignments

Programming Steps

Press FLASH 43, button #17 to display ring assignments. Assignments
are displayed in sets of six, up to the number programmed. Press
FLASH 43, button #17 additional times to cycle to the next group of
six ring assignments.

```
ROUTE 000 DDDRR DDDR

DDDR DDDR DDDR DDDR

DDD = Destination

RR:

[0] = No Ring

[D] = Day Ring

[N] = Night Ring

[DN] = Day/Night Ring

[S] = Special Only

[DS] = Day/Special

[NS] = Night'S pecial
```

[A] = All Modes (Day/Night/Special)

Multiple station assignments are accomplished by assigning another destination with ring status, DDDR, and pressing HOLD. This can be done for up to the maximum number of stations on the system.

Ring assignments are continuous and display in order of the destination number from 020-557. A maximum of eight stations display. Additional stations and ringing assignments are displayed using button #17.

Advancing to the Next Route

Press the NEXT flexible button (FLASH 43, Button #18) to advance to the next ICLID Route number.

Returning to a Previous Route

Press the PREVIOUS flexible button (FLASH 43, Button #19) to return to the previous ICLID Route number.

Selecting a Different Route

- 1. Press the SELECT ROUTE NUMBER flexible Button (FLASH 43, Button #20) to select the desired route number.
- 2. Enter a valid ICLID route number ([000–499] for *Triad 1/2/3* Systems).
- 3. Press HOLD to change to the different route entered. A confirmation tone is heard.

Description

Keysets designated to ring on an incoming CO line but not designated to ring on the ICLID ring, may receive a ring cycle before the call is moved. The same ringing restrictions applied to CO line ringing are applied to ICLID ringing. By default, no destinations or ringing assignments exist.

Direct Inward Dialing (DID) Programming

Programming Steps

Press FLASH and dial [44]. The following message displays:

DID RRR XXXXXXX n.....n

[RRR] = Route Number (000-499) [###] = DID Number (Directory # from Central Office) [n...n] = Name Assigne d to DID Number The top left button (ROUTE) in the flexible button field is lit for programming the Route number. The LEDs for the UP Button (FLASH 44, Button #18), the DOWN Button (FLASH 44, Button #19) is also lit.

Changing to a Different DID Route Number

 Press either the UP Button (FLASH 44, Button #18), -or-

Press the DOWN Button (FLASH 44, Button #19).

2. Enter a valid Route Number (000-499) to be associated with the DID Number.

This Route Number is the same Route Number in the ICLID Ringing Assignments Table (FLASH 43) and determines the destination of the DID number associated with this Route Number. The display shows the route number as it is entered.

3. Press the HOLD button to save the entry. A confirmation tone is heard.

Description

DID calls are treated as an incoming call and follow the same rules established for CO lines. DID information transferred from the network is captured and translated to direct a specific DID number to a specific station, ACD or Hunt group of stations, or Voice Mail group. The DID call appears at the destination station under an assigned LOOP or CO button.

When receiving a DID call, the destination station hears the CO line ringing and the assigned CO or LOOP button flashes at the incoming CO line flash rate. The destination station then presses the flashing CO or LOOP button, is connected to the incoming DID call, and CO line ringing stops and the LED for the CO or LOOP button lights steady.

If the outside caller disconnects from a two-party conversation, the Central Office opens the loop and returns the line to idle state. The *Triad 1/2/3* Digital Systems detects the disconnect signal, release the line, and provides a busy tone to the keyset/SLT (unless the SLT is a VM port), and disconnects from the DID line. If the extension called hangs up the phone, the central office detects disconnects, and returns the line to the idle state.

ROUTE PHONE CLEAR NAME NUMBER NUMBER **ENTRY** 4 BACK **SPACE** 6 UP DOWN 18 19 22 23 Χ ٧

The buttons on the digital telephone are defined as shown when entering the DID Table programming area:

By default, all entries in the DID Table (000-999) have phone numbers assigned. Refer to *Table 3-11: DID & ICLID Default Table Entries* for additional information.

DID Phone Number

Programming Steps

- 1. Press the PHONE NUMBER flexible button (FLASH 44, Button #2) to program the DID Number.
- 2. Enter the DID Number to be associated with a valid Route Number (000–499). Up to 7 digits can be entered.
 - By default, only the last three digits are used for routing which is determined in Flash 45.
- 3. Use the BACK SPACE flexible button (**FLASH 44, Button #5**) to erase the current number or to correct for errors.
- 4. Press HOLD to save the entry. A confirmation tone is heard.

 If the DID number is already in the DID Translation Table, the Route Number associated with the DID number displays.



By default, the DIDT able is filled with numbers. If error tone is received when the HOLD button is pressed, the DID Table is full and an entry needs to be deleted to make room for this new phone number.

Name Assigned to DID Number

Programming Steps

- 1. Press the NAME flexible button (FLASH 44, Button #3) to enter the desired name for the DID trunk. Maximum length is 8-characters.
- 2. Press the HOLD button to update the database. A confirmation tone is heard.
- 3. Use the BACK SPACE flexible button (**FLASH 44**, **Button #5**) to erase the current letter to correct for errors.

DID Name and Number Codes

The display shows the DID name or number as it is entered.

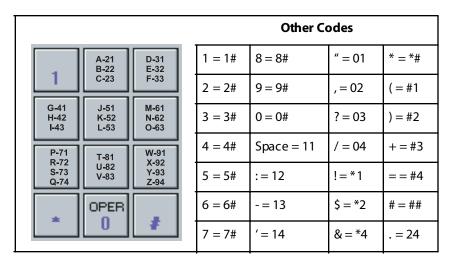


Figure 3-1: DID Name/Number Codes

Erasing a DID Table Entry

Programming Steps

Clearing Entries from DID Table

- 1. Press the CLEAR ENTRY Button (FLASH 44, Button #4) to clear an entire Phone Number, Name and Route from the DID Table.
- 2. Press the HOLD button to save the entry. A confirmation tone is heard.

Changing to a Different DID Route

Press the UP button **(FLASH 44, Button #18)** to advance to the DID Route Number,

-or-

Press the DOWN button (**FLASH 44, Button #19**) to return to a previous DID Route Number.

Description

By default, all entries in the DID Table (000–999) have phone numbers assigned. The following table shows the default configuration for the DID Table entries and the ICLID Ringing assignments.

Table 3-11: DID & ICLID Default Table Entries

DID Translation Table		ICLID Translation Table	
DID Table Entry	Default Route(s)	ICLID Table Entry	Default Destination
000-098 099 100-198 199 200-298 299 300-398 399 400-498 499 500-598 599 600-698 699 700-798 799 800-898 899 900-998	100-198 199 100-198 199 100-198 199 100-198 199 100-198 199 100-198 199 100-198 199 100-198 199	100-198 199 100-198 199 100-198 199 100-198 199 100-198 199 100-198 199 100-198 199 100-198 199	100A-198A 499A 100A-198A 499A 100A-198A 499A 100A-198A 499A 100A-198A 499A 100A-198A 499A 100A-198A 499A 100A-198A 499A 100A-198A 499A

Route 000 in the ICLID Ringing Assignment Table is used as the intercept route. Calls to numbers not contained in the DID table follow Route 000. If Route 000 is defaulted to None, the call follows Route 001.

Route 001 is used as the Busy DID Route. DO NOT program any entries in this Route if you intend to provide a busy tone to callers dialing a busy DID/DVIS number.

ISDN Programming - Page A

Programming Steps

1. Press **FLASH** and dial **[45]**. The following message displays:

```
ISDN ATTRIBUTES
SELECT A SLOT RANGE
```

2. Enter a valid number for the range of lines being programmed. If only one line is being programmed, enter that number twice (001 001).



If HOLD is pressed without entering a CO range, ALL CO lines (001-048 or 001-144) are selected.

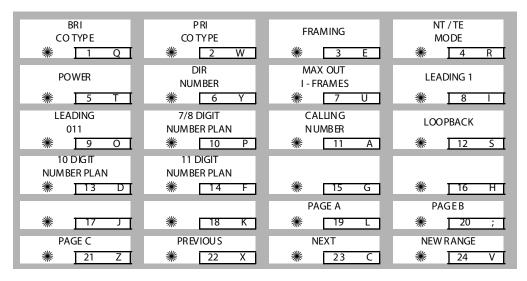
 Press HOLD to save the entry. A confirmation tone is heard and the display updates. Flexible button #19 (Page A) is lit. The following message displays to indicate current programming of that line or group of lines:

```
XXX - XXX PAGE A
ENTER BUTTON NUMBER
```

```
XXX-XXX = CO Line Range
001-048=Triad 1/2
001-144 = Triad 3
```

Description

This section describes the procedures and steps necessary to program CO Line attributes. When entering the CO Line attributes portion of the database, the programmer may decide to enter information for a range of CO lines or one specific CO Line. Range programming lets the programmer change a specific parameter or a few parameters for an entire range of CO Lines leaving intact the remaining data fields that do not require change. Those data fields continue to operate with the previously programmed data. By default, Page A is shown.



Basic Rate Interface (BRI) CO Type

Programming Steps

- 1. Press BRI CO TYPE flexible button (FLASH 45, Page A, Button #1).
- 2. To view a CO type setting, enter a valid number (0-7).



Description

Changes to BRI CO Type area are not possible at this time (setting = NI1).

Primary Rate Interface (PRI) CO Type

Programming Steps

- 1. Press PRI CO TYPE flexible button (FLASH 45, Page A, Button #2).
- 2. To view a CO type setting, enter a valid number (1-1).



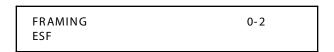
Description

Changes to PRI CO Type area are not possible at this time (setting = NI2).

Framing

Programming Steps

- 1. Press the FRAMING flexible button (FLASH 45, Page A, Button #3).
- 2. To view a Framing setting, enter a valid number (0-2).



Description

Changes to the Framing area are not possible at this time (setting = ESF).

NT / TE Mode

Programming Steps

- Press the NT/TE MODE flexible button (FLASH 45, Page A, Button #4).
- 2. To view an NT/TE setting, enter a valid number (0-1).



Description

The TE Mode setting cannot be changed.

Power

Programming Steps

1. Press the POWER flexible button (FLASH 45, Page A, Button #5).



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled

3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

Default = Disabled

Directory Number

Programming Steps

 Press the DIRECTORY NUMBER flexible button (FLASH 45, Page A, Button #6).

DIRECTORY NUMBER	0-9,*,#
XX	

- 2. Enter a valid number (0-9,*,#) on the dial pad (up to 24 digits). This number is sent as the calling party number on all channels of the selected PRIB.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Max Out I-Frames

Programming Steps

 Press the MAX OUT I-FRAMES flexible button (FLASH 45, Page A, Button #7).

MAX	OUT I - FRAMES	000-127
K	001	

- 2. Enter a valid number (000-127) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Leading 1

Programming Steps

1. Press the LEADING 1 flexible button (FLASH 45, Page A, Button #8).



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

0 disables the leading 1 from being sent to the CO when users dial national long distance numbers. 1 enables the leading 1 to be sent to the CO on national long distance numbers. If enabled, and the user does not dial a 1, the 1 will automatically be applied. Default = Enabled

Leading 011

Programming Steps

1. Press the LEADING 011 flexible button (FLASH 45, Page A, Button #9).



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

0 disables the leading 011 from being sent to the CO when users dial international numbers. 1 enables the leading 011 to be sent to the CO on international numbers. If enabled, and the user does not dial a 011, the 011 will automatically be applied. Default = Enabled

7/8 Digit Number Plan

Programming Steps

 Press the 7/8 DIGIT NUMBER PLAN flexible button (FLASH 45, Page A, Button # 10).



- 2. Enter a 0 or 1 on the dial pad to select the desired Number Plan.
 - [0] = Selects ITU number plan
 - [1] = Selects CO number plan
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

Default = ITU (ISDN plan)



When connecting a PRI to a Nortel DMS 100, enter a 1 for the number plan.

Nortel DMS 100 Only

- 1. Change Flash 45, button 10 (Numbering Plan) to CO by dialing 1 HOLD.
- 2. Set the definition in the DMS 100 Central Office Switch.
 - The DMS 100 Office refers to this switch as National or N12 Standard so they know not to look at this parameter in their switch.
 - □ LTDEF should be set to NI PRI N12 V1.

Calling Number

Programming Steps

 Press the CALLING NUMBER flexible button (FLASH 45, Page A, Button #11).



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

0 disables the calling party number from being sent to the CO. 1 will enable the calling party number feature and the number will be sent to the CO. Default = Enabled

Loopback

Programming Steps

 Press the LOOPBACK flexible button (FLASH 45, Page A, Button #12).

LOOPBACK	0-2
NORM AL	

- 2. Enter a valid number (0-2) on the dial pad.
 - [0] = Normal mode
 - [1] = Near end mode
 - [2] = Far end mode
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

Default = Normal

10 Digit Number Plan

Programming Steps

 Press the 10 DIGIT NUMBER PLAN flexible button (FLASH 45, Page A, Button #13).



- 2. Enter a 0, 1, or 2 on the dial pad to select the desired Number Plan.
 - [0] = Selects ITU number plan
 - [1] = Selects CO number plan
 - [2] = Unknown
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

Default = ITU

11 Digit Number Plan

Programming Steps

1. Press the 10 DIGIT NUMBER PLAN flexible button (FLASH 45, Page A, Button #14).



- 2. Enter a 0, 1, or 2 on the dial pad to select the desired Number Plan.
 - [0] = Selects ITU number plan
 - [1] = Selects CO number plan
 - [2] = Unknown
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Description

Default = ITU

ISDN Programming - Page B

Programming Steps

1. Press **FLASH** and dial **[45]**. The following message displays:

ISDN ATTRIBUTES SELECT A SLOT RANGE

2. Enter a valid number for the range of lines being programmed. If only one line is being programmed, enter that number twice (001 001).



If HOLD is pressed without entering a CO range, ALL CO lines (001-048 or 001-144) are selected.

- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates. Flexible button #19 (Page A) is lit.
- 4. Press button #20 to select Page B. The following message displays to indicate current programming of that line or group of lines:

XXX - XXX PAGE B ENTER BUTTON NUMBER

XXX-XXX = CO Line Range 001-048 = Triad 1/2 001-144 = Triad 3

Description

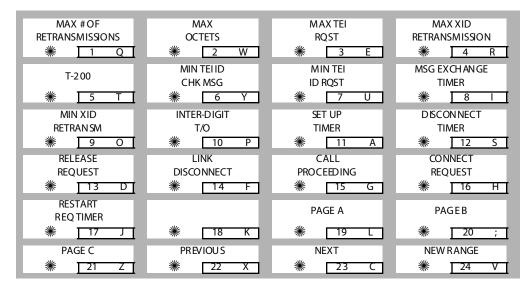
When entering the CO Line attributes portion of the database, the programmer may decide to enter information for a range of CO lines or one specific CO Line. Range programming lets the programmer change a specific parameter or a few parameters for an entire range of CO Lines leaving intact the remaining data fields that do not require change.



IMPORTANT --

These timers **should not be adjusted** UNLESS working with Technical Support or your telephone company.

Those data fields continue to operate with the previously programmed data.



Maximum Number Retransmission

Programming Steps

1. Press the MAX # RETRANSMSN flexible button (FLA SH 45, Page B, Button #1).

MAX #	RETRANSMSN	0-9
N 20 0	3	

- 2. Enter a valid number (0-9) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Maximum Octets

Programming Steps

1. Press the MAX OCTETS flexible button (FLASH 45, Page B, Button #2).

MAX OCTETS		000-999
N 20 1	260	

- 2. Enter a valid number (000-999) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates. (000 = Disable)

Maximum TEI ID Request

Programming Steps

1. Press the MAX TEI ID RQST flexible button (FLASH 45, Page B, Button #3).

MAX TEI ID	RQST	000-999
N 20 2	003	

- 2. Enter a valid number (000-999) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Maximum XID Retransmission

Programming Steps

1. Press the MAX XID RETRANSMISSION flexible button (FLASH 45, Page B, Button #4).

MAX XID	RETRANSMISSION	0-9
N204	3	

- 2. Enter a valid number (0-9 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display up dates.

T-200

Programming Steps

1. Press the T-200 flexible button (FLASH 45, Page B, Button #5).



- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Minimum TEI ID Check Message

Programming Steps

1. Press the MIN TEI ID CHK MSG flexible button (FLASH 45, Page B, Button #6).

MIN TEI	ID CHK MSG	00-99	
T201	01		

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Minimum TEI ID Request

Programming Steps

1. Press the MIN TEI ID RQST flexible button (FLA SH 45, Page B, Button #7).

MIN TEI	ID RQST MSG	00-99
T202	02	

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Message Exchange Timer

Programming Steps

1. Press the MSG EXCHANGETIMER flexible button (FLASH 45, Page B, Button #8).

MSG	EXCHANGE	TIMER	00-99
T203		15	

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Minimum XID Retransmission

Programming Steps

1. Press the MIN XID RETRANSMSN flexible button (FLASH 45, Page B, Button #9).

MIN XID	RETRANSMSN	0-9
T204	3	

- 2. Enter a valid number (0-9 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Inter-Digit T / O

Programming Steps

1. Press the INTER-DIGITT/O flexible button (FLASH 45, Page B, Button #10).

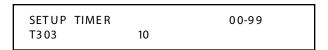
INTER-DIGIT	T/O	00-99	
T3 02	25		

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Set-Up Timer

Programming Steps

1. Press the SET UP TIMER flexible button (FLASH 45, Page B, Button #11).



- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Disconnect Timer

Programming Steps

1. Press the DISCONNECT TIMER flexible button (FLASH 45, Page B, Button #12).

DISCONNECT TI	MER	00-99
T3 05	04	

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Release Request

Programming Steps

1. Press the RELEASE REQUEST flexible button (FLASH 45, Page B, Button #13).

RELEASE REQUEST	00-99
T3 08 04	1

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Link Disconnect

Programming Steps

 Press the LINK DISCONNECT flexible button (FLASH 45, Page B, Button #14).

LINK	DISCONNECT	20-30
T3 09	30	

- 2. Enter a valid number (20-30 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Call Proceeding

Programming Steps

1. Press the CALL PROCEEDING flexible button (FLASH 45, Page B, Button #15).

CALL PROCEEDING		00-99	
T3 10	60		

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Connect Request

Programming Steps

1. Press the CONNECT REQUEST flexible button (FLASH 45, Page B, Button #16).

CONNECT REQUEST		00-99	
T313	04		

- 2. Enter a valid number (00-99 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

Restart Request Timer

Programming Steps

1. Press the RESTART REQ TIMER flexible button (FLASH 45, Page B, Button #17).

RESTART R	EQ TIMER	0-200
T3 16	120	

- 2. Enter a valid number (0-200 seconds) on the dial pad.
- 3. Press the HOLD button. A confirmation tone is heard and the display updates.

T-1 Alarm Programming

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

1. Press **FLASH** and dial **[47]**. The following message displays:

```
T1 ALARM
ENTER BUTTON NUMBER
```

- 2. Press a button (1-7) that represents the desired alarm setting.
 - □ These settings govern all T-1 Trunk cards installed in the system.
 - □ The LED lights steady when the button is pressed.
 - ☐ Once the desired alarm is selected, the following conditions can be programmed:

Button #12 = Clears the alarm

Button #13 = Minor threshold setting

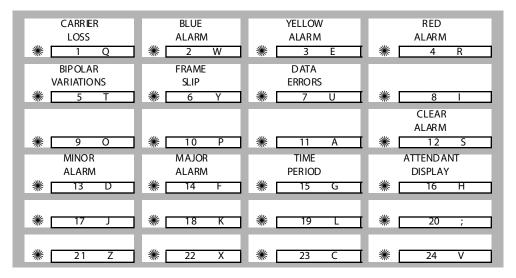
Button #14 = Major threshold setting

Button #15 = Time period for Minor/Major alarms

Button #16 = Sends LCD message of Major alarms to first
Attendant Station

The T-1 Trunk card and the system software provide tools to help detect and isolate problems which may occur with the T-1 circuit. There are six LEDs mounted on the outside edge of the T-1 Trunk card which either light or flash to indicate a variety of conditions on the T-1 circuit. The Central Office Maintenance Center can send a command to place the CSU into Line Loop Back mode. If there is no CSU, the T-1 Trunk card responds to the Line Loop Back command.

The buttons on the digital telephone are defined as shown below when entering the T-1 Alarm programming area:



Enable/Disable (Carrier Loss Alarm)

Programming Steps

Press the CARRIER LOSS flexible button (FLASH 47, Button #1).
 Button #1 and Button #11 LEDs are lit steady. The following message displays:

CARRIER LOSS	0-1
ENABLED	

2. Enter a 0 or 1 on the dial pad to enable/disable this feature.

- [0] = Disabled
- [1] = Enabled
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

A Receive Carrier Loss (RCL) condition is declared when no bits have been received by the T-1 Trunk card for 150ms. It causes an Out of Frame (OOF) condition, and 2.5 seconds later a RED Carrier Failure Alarm (CFA) state. During the time the RCL and RED alarm are declared, incoming and outgoing signal bits are frozen. Outgoing calls cannot be made. By default, the Carrier Loss alarm is enabled on all T-1 trunks.

Blue Alarm

Programming Steps

Press the BLUE ALARM flexible button (FLASH 47, Button #2).
 Button #2 and Button #11 LEDs are lit steady. The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.
- 4. Continue programming the Blue Alarm parameters using the steps provided earlier in this section for Clearing the alarm, Minor alarm, Major alarm, Time Period and Attendant display.

Description

The Blue Alarm signal is an unframed all ones signal. It is transmitted by a remote device (usually a CSU) and when received, indicates a transmission failure upstream of that device toward the local end. The AIS alarm signal is also known as the *keep alive* signal in that it prevents the T-1 circuit repeaters from malfunctioning when transmit from the remote end is lost. By default, the Blue Alarm is enabled for all T-1 Trunks.

Yellow Alarm

Programming Steps

1. Press the YELLOW flexible button (FLASH 47, Button #3). Button #3 and Button #11 LEDs are lit steady. The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD button to save entry. A confirmation tone is heard and the display updates.
- Continue programming the Yellow Alarm parameters using steps provided in this section for Clearing the alarm, Minor alarm, Major alarm, Time Period and Attendant display.

Description

The Yellow Alarm is recorded when the T-1 Trunk card detects a yellow Carrier Failure Alarm (CFA) signal from the distant end for a minimum 335 ms (for D-4 framing). The Yellow Alarm is transmitted by the remote system because of a RED alarm condition there. By default, the Yellow Alarm is enabled for all T-1 Trunks.

Red Alarm

Programming Steps

Press the RED ALARM flexible button (FLASH 47, Button #4).
 Button #4 and Button #11 LEDs are lit steady. The following message displays:

RED ALARM	0-1
ENABLED	

2. Enter a 0 or 1 on the dial pad to enable/disable this feature.

[0] = Disabled

[1] = Enabled

- 3. Press HOLD button to save entry. A confirmation tone is heard and the display updates.
- 4. Continue programming the Red Alarm parameters using the steps provided in this section for Clearing the alarm, Minor alarm, Major alarm, Time Period and Attendant display.

Description

The Red Alarm is declared by the T-1 Trunk card when a loss of signal is detected, or an Alarm Indication Signal is received. A Red Alarm can be caused by a loss of carrier signal, a receive out of frame sync condition, or an alarm indication signal. By default, the Red Alarm is enabled for all T-1 trunks.

Bipolar Variations Alarm

Programming Steps

1. Press the BIPOLAR VARIATIONS flexible button (FLASH 47, Button #5). Button #5 and Button #11 LEDs are lit steady. The following message displays:

BIPOLAR VARIATIONS	0-1
ENABLED	

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.
- 4. Continue to program Bipolar Variations Alarm parameters using the steps in this section for Clearing the alarm, Minor alarm, Major alarm, Time Period, and Attendant display.

Description

Excessive Bipolar Violations (BPV) are declared when a T-1 Trunk card detects a BPV rate in excess of $1x10^{+6}$ errors in 1000 seconds. By default, Bipolar Variations are enabled at all T-1 trunks.

Frame Slip Alarm

Programming Steps

1. Press FRAME SLIP flexible button (FLASH 47, Button #6). Button #6 and Button #11 LEDs are lit steady. The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD button to save entry. A confirmation tone is heard and the display updates.
- 4. Continue to program the Frame Slip Alarm parameters using steps provided in this section for Clearing the alarm, Minor alarm, Major alarm, Time Period and Attendant display.

Description

When a Frame Slip or change in frame alignment is detected, the T-1 Trunk card freezes all incoming signaling states and realigns the receive buffer. If all alarm conditions are clear, signaling states are released and normal operation resumes. By default, Frame Slip is enabled on T-1 trunks.

Data Errors Alarm

Programming Steps

Press the DATA ERRORS flexible button (FLASH 47, Button #7).
 Button #7 and Button #11 LEDs are lit steady. The following message displays:

DATA ERRORS 0-1 ENABLED

2. Enter a 0 or 1 on the dial pad to enable/disable this feature.

[0] = Disabled

[1] = Enabled

- 3. Press HOLD button to save entry. A confirmation tone is heard and the display updates.
- 4. Continue to program the Data Error Alarm parameters using steps provided in this section for Clearing the alarm, Minor alarm, Major alarm, Time Period and Attendant display.

Description

By default, Data Errors Alarm is enabled for all T-1 Trunks.

Clear Alarm

Programming Steps

1. Press the CLEAR ALARM flexible button (FLASH 47, Button #12). Button #12 LED is lit steady. The following message displays:

DATA ERRORS CLEAR ALARM PRESS HOLD

2. Press the HOLD button to clear the alarm. A confirmation tone is heard

Description

The Clear Alarm option allows the alarm condition reported to the Attendant Display to be cleared.

Minor Alarm

Programming Steps

1. Press the MINOR ALARM flexible button (FLASH 47, Button #13). Button #13 LED is lit steady. The following message displays:

DATA ERRORS 00-99 MINOR ALARM 15

- 2. Enter a valid number (00-99) on the dial pad which represents the threshold limit.
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

If the error counter for an Alarm Code reaches the number programmed as a Minor Alarm within the time (in minutes) entered in the Time Period, the system reports a Minor Alarm condition. By default, the Minor Alarm threshold is set for 15 minutes and is variable from 00 to 99 minutes.

Major Alarm

Programming Steps

1. Press the MAJOR ALARM flexible button (FLASH 47, Button #14). Button #14LED is lit steady. The following message displays:

DATA ERRORS 00-99 MAJOR ALARM 30

- 2. Enter a valid number (00-99) on the dial pad which corresponds to the time period limit.
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

If the error counter for an Alarm Code reaches the number programmed as a Major Alarm within the time (in minutes) entered in the Time Period, the system reports a Major Alarm condition. By default, the Major Alarm threshold is set for 30 minutes and is variable from 00 to 99 minutes.

Time Period

Programming Steps

1. Press the TIME PERIOD flexible button (FLASH 47, Button #15). Button #15 LED is lit steady. The following message displays:

DATA ERRORS		00-99
TIME PERIOD	05	

- 2. Enter a valid number (00-99) on the dial pad which represents the time period limit.
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

The Time Period option represents the length of time set for Minor and Major alarm conditions to occur. By default, the Time Period is set for five (5) minutes.

Attendant Display

Programming Steps

 Press the ATENDANT DISPLAY flexible button (FLASH 47, Button #16). Button #16 LED is lit steady. The following message displays:

DATA ERRORS 0-1 ATT DISPLAY ENABLED

- 2. Enter a valid number (0 or 1) on the dial pad.
 - [0] = No alarm
 - [1] = Alarm enabled
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

The Attendant Display option determines whether the first Attendant station should be notified of any alarm conditions when they occur. By default, all alarm conditions are enabled to be sent to the first Attendant station LCD display.

4

Station Attributes Programming

This chapter describes the steps and procedures necessary to program station attributes.

Page A Introduction

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

1. Press **FLASH** and dial **[50]**. Flexible button #24 (New Range) is lit and the following message displays:

STATION ATTRIBUTES
SELECT A STATION RANGE

2. Enter the range of station numbers to be programmed. If only one station is being programmed, enter that number twice (100100).



If HOLD is pressed without entering a station range, ALL stations (100-171 or 100-351) are selected.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates. Flexible button #19 is lit. The display updates to reflect current programming for Page A:

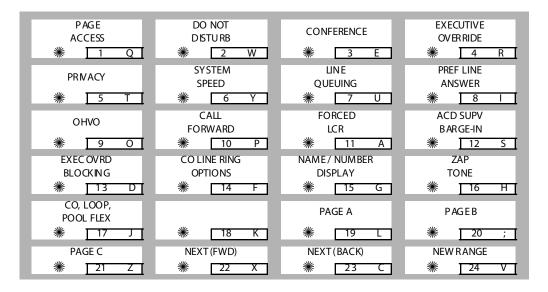
XXX - XXX PAGE A ENTER BUTTON NUMBER

XXX-XXX = Station Range (Triad 1/2=100-171; Triad 3=100-351)

Description

Range programming enables the programmer to change a specific parameter or a few parameters for a range of stations, leaving intact the remaining data fields not requiring changes. Those data fields continue to operate with the previously programmed data. By default, Page A is shown.

When programming the Page A features, the flexible buttons are mapped as follows:



Paging Access

Programming Steps

 Press the PAGE ACCESS flexible button (FLASH 50, Page A, Button #1). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Stations can individually be allowed or denied the ability to make pages. This applies to all internal and external zone paging. A station denied access to paging may still answer a meet-me page announcement. (Station COS 6 does not deny a station the ability to make a page.) By default, Paging is enabled at all stations.

Page A Introduction 4-5

Do Not Disturb

Programming Steps

 Press the DO NOT DISTURB flexible button (FLASH 50, Page A, Button #2). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Stations can be individually allowed or denied the ability to place their telephone in Do Not Disturb. By default, Do Not Disturb is enabled at all stations. The first programmed Attendant cannot utilize DND.

Conference Enable / Disable (Per Station)

Programming Steps

 Press the CONFERENCE flexible button (FLASH 50, Page A, Button #3). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Conference Enable/Disable feature lets the system be programmed on a per Station basis for the ability to initiate a conference.

Executive Override

Programming Steps

 Press the EXECUTIVE OVERRIDE flexible button (FLASH 50, Page A, Button #4). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.



Use of this feature when the Executive Override Warning Tone is disabled may be interpreted as a violation of federal, state, or local laws, and an invasion of privacy. Check applicable laws in your area before intruding on calls using this feature.



A change in volume may occur on the CO line or intercom call after the barge-in occurs.

Description

The Executive Override feature lets certain stations be designated as Executive stations with the ability to override and barge-in on other key sets engaged in a CO line or intercom conversation. If Supervisor Monitor with barge-in function is denied, this feature MUST be disabled An optional warning tone is programmed on a system wide basis to enable or disable the tone. This tone is presented to all parties prior to actual cut through of the third party.



The Executive Override Blocking feature (FLASH 50, Page A, Button #13) allows or disallows an Executive to override an extension. This prevents an extension with override capability from overriding designated stations.

By default, Executive Override is disabled for all stations. Supervisor Barge-In can be programmed in [FLASH 50, Page A, Button #12].

Page A Introduction 4-7

Privacy (Per Station)

Programming Steps

Press the PRIVACY flexible button (FLASH 50, Page A, Button #5).
 The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.



Disabling the privacy feature may be limited by federal, state, and locallaw, so check the relevant laws in your area before disabling privacy.

For Single Line Telephones:

- 1. Enter a 0 or 1 on the dial pad to enable/disable the Camp-On feature.
 - [0] = No Camp-On is allowed
 - [1] = Camp-On is allowed
- 2. Press HOLD to save the entry. A confirmation tone is heard.

Description

The system provides privacy on all communications in the system which prevents other stations from accidentally entering an existing conversation. However, the system provides the ability for a station to join an existing outside CO line conversation (on a per station basis). Each station can be granted the privilege to join an existing CO line conversation by simply pressing the CO line button of a CO line in use.

Privacy on an SLT can be useful in situations where a modem is using the SLT port for data transmission. Disabling this feature lets data transfer proceed without being interrupted with a Camp On tone. Both the station and the CO Line must have Privacy disabled before the system allows cut-through.

☐ If Privacy is disabled and a station joins an existing call, a programmable warming tone is presented to both parties prior to actual cut-through.

If Privacy is disabled, up to eight other stations may join in on an existing conversation.

Privacy is enabled for all stations in default.

Table 4-1: Station Privacy Flag

Station Attempting to	CO Line in Use by Another Station		
Access CO Line	Privacy Enabled	Privacy Disabled	
Privacy Enabled	Private (No Cut-through)	Private (No Cut-through)	
Privacy Disabled	Private (No Cut-through)	Privacy Released (Cut-through Allowed)	

System Speed Dial Access

Programming Steps

 Press the SPEED flexible button (FLASH 50, Page A, Button #6). The following message displays:

SYSTEM SPEED	0-1
ENABLED	

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Stations can be individually allowed or denied the ability to use system speed dial (100–999) numbers with expanded memory. (*System speed numbers 060-099 are not monitored by toll restriction.*) Stations cannot be prevented from using station speed dial. By default, System Speed Dialing is enabled at all stations.



When up grading software from FP2 to FP3, all previously programmed speed dial buttons will be lost.

Page A Introduction 4-9

Line Queuing

Programming Steps

Press the QUEUING flexible button (FLASH 50, Page A, Button #7).
 The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Stations can be allowed or denied the ability to manually queue for a busy group of CO lines. Even when disabled, stations have automatic LCR queuing privileges. By default, CO Line Queuing is enabled at all stations.

Preferred Line Answer

Programming Steps

1. Press the PREF LINE AN SWER flexible button (FLASH 50, Page A, Button #8). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Stations can be given the ability to answer a call by simply going off-hook. By default, Preferred Line Answer is enabled on all stations.

Off-Hook Voice Over (OHVO)

Programming Steps

 Press the OHVO flexible button (FLASH 50, Page A, Button #9). The following message displays:

OFF HOOK VOICE OVER 0-1 DISABLED

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

When enabled, the Off-Hook Voice Over feature allows a digital station to receive OHVO while on a call. A station can be denied the ability to receive OHVO calls by disabling this feature. By default, Off-Hook Voice Over is disabled for all stations. The station must be in HorP mode to enable this feature.

Call Forwarding

Programming Steps

 Press the CALL FORWARD flexible button (FLA SH 50, Page A, Button #10). The following message displays:

CALL FORWARD ENABLED	0-1	
LINABLED		

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Stations can be allowed or denied the ability to forward incoming CO calls, intercom calls, or transferred outside lines to another station or group. By default, Call Forwarding is enabled at all stations.

Page A Introduction 4-11

Forced Least Cost Routing (LCR)

Programming Steps

 Press the FORCED LCR flexible button (FLASH 50, Page A, Button #11). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Stations may be forced to place outgoing CO calls by use of LCR (dial [9]) to access an outside line. This lets the system administrator control dialing patterns and lines used for outgoing CO calls. This can be enabled/disabled on a per-station basis for additional flexibility and control. Forced LCR is optional (disabled) for all stations, and eliminates access to all other line groups.

ACD Supervisor Monitor with Barge-In

Programming Steps

1. Press the SUPV BARGE-IN flexible button (FLASH 50, Page A, Button #12). The following message displays:

ACD SUPV	BARGE	IN	0-1
DISABLED			

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled

3. Press HOLD to save the entry. A confirmation tone is heard.



The use of Supervisor Monit or with Barge-In is limited by federal law and may also be limited or prohibited by state or local law, so check the relevant laws in your area before employing these features.

Achange involume may occur on the CO line or intercom call after the barge-in occurs.

Description

This feature is available with optional software. The ACD Supervisor Monitor with Barge-In feature provides a means for an ACD Supervisor to monitor an agent's call in progress and coach sales techniques or customer relations skills. When used, a supervisor may intrude into an agent's call in a listen-only mode or in a true conference mode. Prior to barge-in, a supervisor must log into the agent's group using the supervisor log-in code 576XXX. This feature is available with or without a warning tone. By default, the Supervisor Monitor with Barge-In feature is disabled.



Executive Override is a system feature and, therefore, takes precedence over this feature. If Supervisor Monit or with Barge-In is used properly, Executive Override MUST be disabled. Otherwise, the barge-in is performed with the MUTE button OFF.

Executive Override Blocking

Programming Steps

1. Press the EXECUTIVE OVERRIDE BLOCKING flexible button (FLASH 50, Page A, Button #13). The following message displays:

EXEC OVERRIDE BLOCK 0-1 DISABLED

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Page A Introduction 4-13

Description

The Executive Override Blocking feature allows or disallows override of an extension. This prevents a user with override capability from overriding a station. By default, Executive Override Blocking is disabled at all stations.

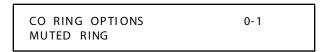


The Executive Override Blocking feature also blocks an ACD Supervisor Monitor with Barge-In.

CO Line Ringing Options

Programming Steps

1. Press the RINGING OPTIONS flexible button (FLASH 50, Page A, Button #14). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Reminder Ring
 - [1] = Muted Ring
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

When a CO call rings at a busy station, the call rings at the station using a muted ring signal. This option lets a user receive a reminder ring at their station, instead of a muted ring. In addition, a Reminder Ring Timer has also been added to the system to provide the reminder ring every time the timer expires, for as long as the incoming CO line has not been disconnected. By default, Muted Ringing is allowed at all stations.

Name / Number Display At Idle

Programming Steps

1. Press the NAME/NUMBER DISPLAY flexible button (FLASH 50, Page A, Button #15). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Extension Number
 - [1] = Name
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Name/Number Display feature displays the standard idle LCD showing the programmed 7-digit name and station number together. This option is programmable on a per station basis, however, the feature must be enabled/disabled in admin programming.

If a station has this feature enabled but has not programmed a name, the name portion of the LCD is blank. The idle display priority is UCD/ACD, Hunt, Station/Name, or Station. By default, the Name displays on the LCD.

Zap Tone

Programming Steps

Press the ZAP TONE flexible button (FLASH 50, Page A, Button #16).
 The following message displays:

ACD ZAP TONE	0-1
DISABLED	

- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disable feature
 - [1] = Enable feature
- 3. Press HOLD to save the entry. A confirmation tone is heard.

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Description

The Zap Tone feature enables ACD agents in the headset mode, to have ACD calls connected to them automatically. The feature removes the requirement for the agent to press the ON/OFF button to answer ACD calls. ACD calls are connected when the agent is logged into any group and is available. By default, this feature is disabled.

CO Loop Pool

Programming Steps

1. Press the CO LOOP POOL flexible button (FLASH 50, Page A, Button #17). The following message displays:



- 2. Enter a 0 or 1 on the dial pad to enable/disable this feature.
 - [0] = Disable
 - [1] = Enable
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The CO Loop Pool feature enables the station user to program CO Line, Loop, and Pool Keys using flexible button programming. By default, this feature is enabled.

Administration Access

Programming Steps

1. Press the ADMIN ACCESS flexible button (FLASH 50, Page A, Button #18). The following message displays:

ADMIN ACCESS	0-1
DISABLED	

2. Enter a 0 or 1 on the dial pad to enable/disable this feature.

[0] = Disable

[1] = Enable

3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The Administration Access feature allows a station to access Database Administration. Each station can be enabled/disabled for system programming. By default, feature is disabled.



Station 100 always has programming access regardless of this setting.

Page B Introduction

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

1. Press **FLASH** and dial **[50]**. Flexible button #24 (New Range) is lit and the following message displays:

STATION ATTRIBUTES
SELECT A STATION RANGE

2. Enter the range of station numbers to be programmed. If only one station is being programmed, enter that number twice, e.g., [100100].



If HOLD is pressed with out entering a station range, all stations (100-171 or 100-351) are selected.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates. Flexible button #19 (Page A) is lit.

4. Press button #20. The display updates to reflect current programming for Page B.

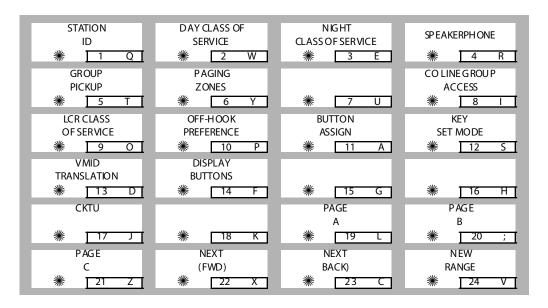
```
XXX - XXX PAGE B
ENTER BUTTON NUMBER
```

XXX = Station Range (Triad 1/2 = 100 - 171, Triad 3 = 100 - 351)

Description

Range programming enables the programmer to change a specific parameter or a few parameters for a range of stations, leaving intact the remaining data fields not requiring changes. Those data fields continue to operate with the previously programmed data.

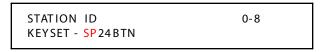
When programming the Page B features, the flexible buttons are mapped as follows:



Station Identification

Programming Steps

1. Press the STATION ID flexible button (FLASH 50, Page B, Button #1).



2. Enter a valid number on the dial pad to identify type of telephone:

[1-5]=DSS Console (Refer to "Station ID for DSS / DLS Console With Map" for details.)

[6]=SLT without Message Wait

[7]=SLT with Message Wait (90 Vdc)

[006]= 24-Button Telephone

[007]=12-Button Telephone

[008]=8-Button Telephone

[009]=16-Button Telephone

[015]=SLA

[016]=Large Display 30-Button Telephone

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Each system port must be programmed to identify the type of station that operate on that port. Each station type must be identified. By default, all Key Telephone Boards (DTIB) default to ID 006 (24-Button Digital Telephone), all Single Line Boards (SLIB) default to ID 6.



When i dentifying a station as a DSS/DLS console, you must also enter the station number of the key telephonet owhich the DSS/DLS console is associated. To associate a DSS console with Station 100, the entry would be 1100 [HOLD].

Station ID for DSS / DLS Console With Map

Programming Steps

- 1. Dial **[1-5]** on the dial pad.
- 2. Enter a valid station number (100-351) to which the DSS/DLS Console is associated.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

```
STATION ID 0-8
DSS MAP X A5SSOC XXX
```

X = 1-5

XXX = Station Range: 100-171 = Triad 1/2 100-351 = Triad 3

MAP #1 by default has all 12 CO Lines and all 36 Stations, 100–135. This provides a default layout for a 12x36 configuration. Station/Feature buttons are flexible and can be changed by the station user. CO Line buttons are NOT changeable.

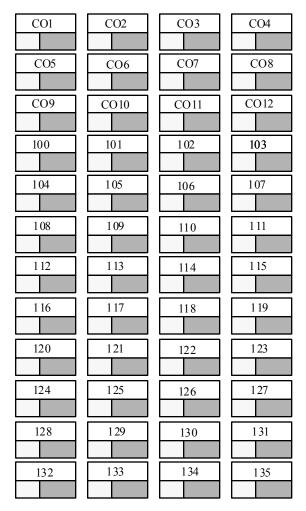


Figure 4-1: DSS Console Map #1 (12 CO Lines/Stations 100-135)

MAP #2 by default has 48 Stations, 100–147. All buttons are flexible and can be changed by the station user. This map can be duplicated on another DSS/DLS console and assigned to the same station.

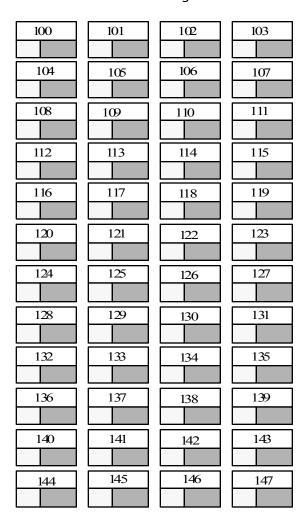


Figure 4-2: DSS Console Map #2 (Stations 100-147)

MAP #3 is intended to be used with Map #2 in that it has the remaining stations, 148-195 to provide a full Station mapping. All of the buttons on Map #3 are flexible and can be changed by the station user. This map can be duplicated on another DSS/DLS console and assigned to the same station.

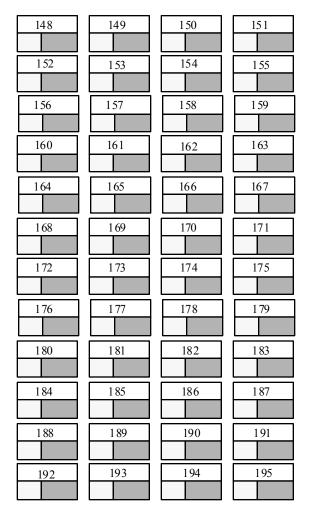


Figure 4-3: DSS Console Map #3 (Stations 148-195)

MAP #4 by default has CO Lines 1-48 that appear in sequential order.

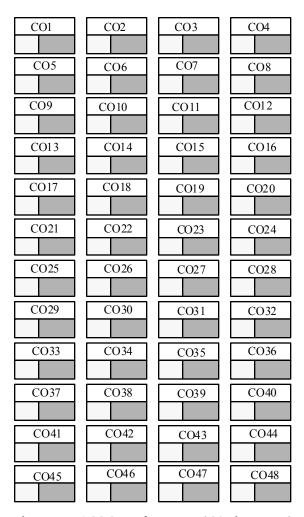


Figure 4-4: DSS Console Map #4 (CO Lines 1-48)

MAP #5 by default has CO Lines 49-96 that appear in sequential order. Provides the receiving station with CO Line buttons when used in conjunction with DSS Map #4 for a full 96 CO Line mapping.

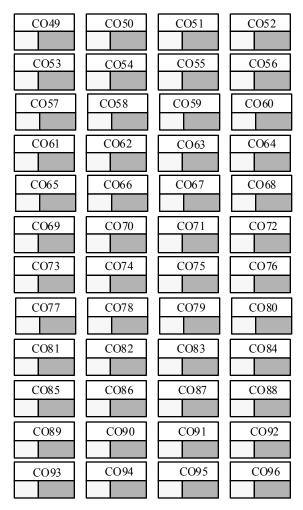


Figure 4-5: DSS Console Map #5 (CO Lines 49-96)

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Station Day Class of Service (COS)

Programming Steps

1. Press the DAY COS flexible button (FLASH 50, Page B, Button #2).



The seven classes of service are:

COS 1 = No restrictions

COS 2 = Table A governs

COS 3 = Table B governs

COS 4 = Table A and B govern

COS 5 = Restricts [0], [1], [*], [#] dialed as first-digit with a 7-digit maximum

COS 6 = Intercom Only (no CO line access - results in a 911 block unless 911 Feature is active)

COS 7 = Restricts [0], [1], [*], [*] dialed as first-digit with a 10-digit maximum

2. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Each station must be assigned a certain COS for Day Mode operation and for Night Mode operation. Class of Service (COS) determines the station's dialing privileges. By default, all stations are assigned a COS 1 for Day Mode.

Table 4-2: Class of Service (COS)

		CO Line Class of Service				
		1	2	3	4	5
	1	Unrestricted	Unrestricted	Unrestricted	Canned Restricted*	Unrestricted
S T A	2	Table A	Table A	Unrestricted	Canned Restricted*	Unrestricted
T I O	3	Table B	Unrestricted	Table B	Canned Restricted*	Unrestricted
N	4	Table A&B	Table A	Table B	Canned Restricted*	Unrestricted
0 S	5	Canned Restricted*	Canned Restricted*	Canned Restricted*	Canned Restricted*	Unrestricted
	6	Intercom Only	Intercom Only	Intercom Only	Intercom Only	Intercom Only
	7	Canned Restricted*	Canned Restricted*	Canned Restricted*	Canned Restricted*	Unrestricted

^{*} Canned Restriction: No [0], [1], [#], [*] as first dialed digit, and 7-digit dialing limitation; plus 1-800, 1-888, 1-866, 1-877, 1-911, 1-611 are allowed, and 411, 976, and 555 numbers are denied. COS 7 allows 10-digit dialing maximum.

Station Night Class of Service (COS)

Programming Steps

1. Press the NIGHT COS flexible button (FLASH 50, Page B, Button #3).

NIGHT COS 1-7

The seven Classes of Service are:

COS 1 = No restrictions.

COS 2 = Table A governs

COS 3 = Table B governs

COS 4 = Table A and B govern

COS 5 = Restricts [0], [1], [*], [#] dialed as first-digit and places a 7-digit maximum.

COS 6 = Intercom Only (no CO line access - results in a 911 block unless 911 Feature is active)

COS 7 = Restricts [0], [1], [*], [*] dialed as first-digit with a 10-digit maximum.

2. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Each station must be assigned a COS for Night Mode operation. The Night COS goes into affect when the system is manually or automatically placed into Night Mode. This prevents misuse of phones after hours. Class of Service (COS) determines the station's dialing privileges. By default, all stations are assigned a COS 1 for Night Mode.

Speakerphone / Headset

Programming Steps

1. Press the SPEAKERPHONE flexible button (FLASH 50, Page B, Button #4). The following message displays:

SP EA KE RP H ON E	0-4
FULL SPEAKERPHONE	

- 2. Enter a valid number (0-4) on the dial pad to identify the speakerph one operation.
 - [0] = Works as normal speakerphone. Full speakerphone capabilities on CO lines and Intercom.
 - [1]= Speakerphone enabled for intercom calls only. Speakerphone capabilities disabled for outgoing CO line calls (monitoring and on-hook dialing are still permitted).
 - [2] = Permits toggling of speakerphone and headset operation via the [634] Headset code.
 - [3] = Forces the telephone to always ring in the tone intercom mode.
 - [4] = Forces the telephone to the hand-free intercom mode always.
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

Speakerphones are programmable. By default, all stations are assigned an ID of 0 (Full Speakerphone).

Pickup Group(s)

Programming Steps

 Press the GROUP PICKUP flexible button (FLASH 50, Page B, Button #5). The following message displays:

PICKUP GROUPS 1	0-8
--------------------	-----

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2. Enter a valid number (1-8) to program Pickup Groups.

```
[0] = No Group [5] = Group 5

[1] = Group 1 [6] = Group 6

[2] = Group 2 [7] = Group 7

[3] = Group 3 [8] = Group 8

[4] = Group 4
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Stations are assigned to pick-up groups. Stations can be in any combination of the eight groups or in no group at all. By default, all stations are in Group 1.

Paging Zone(s)

Programming Steps

1. Press the PAGING ZONES flexible button (FLASH 50, Page B, Button #6). The following message displays:

PAGE ZONE	0-8
•	

2. Enter a valid number (1-8) to program Paging Zone(s).

```
[0] = No Zone [5] = Zone 5

[1] = Zone 1 [6] = Zone 6

[2] = Zone 2 [7] = Zone 7

[3] = Zone 3 [8] = Zone 8

[4] = Zone 4
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Stations are assigned to Page Zones. At least one station must be assigned to a Zone for that Zone to be active. Stations can be in any combination of the eight zones or in none of the zones. By default, all stations are in Zone 1.

Line Group Access - Station

Programming Steps

 Press the CO LINE GROUP ACCESS flexible button (FLASH 50, Page B, Button #8). The following message displays:

```
LINE GROUP ACCESS 1-23
```

2. To add a Line Group, enter a valid number (00, or 01–23) to designate the outside line groups that the station can access, press 1, and then press HOLD to save the entry. A confirmation tone is heard and the display updates.



00+1+HOLD = No Access (911 calls are blocked unless 911 Feature is active).

01+1+HOLD = Access to Group 1 by dialing Code 9 or 801 (Code 800 if 911 Feature is active).

Users access Line Groups 2-23 by dialing 802-823, respectively.

3. To delete a Line Group, enter a valid number (00, or 01-23), press 0, and then press HOLD. A confirmation tone is heard and the display updates.

Description

A station can access any combination of outside line groups, or a station may not be allowed access to outside lines. CO line groups are used primarily by single line telephones or for flexible buttons assigned as pooled group buttons on a Key Telephone. By default, stations are allowed access to Group 1.

LCR Class of Service (COS)

Programming Steps

1. Press the LCR COS flexible button (FLASH 50, Page B, Button #9). The following message displays:

LCR C	LASS	OF	SERVICE	0-6
0				

- Enter a valid number (0–6) to correspond to the LCR Class of Service desired.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Stations can be given a class of service assignment for Least Cost Routing. The range is between 0-6, with 0 being unrestricted and 6 the most restricted. A station can use LCR routes with a priority number equal to or higher than the stations LCR COS assignment. Stations are given unrestricted access (0).

Off-Hook Preference

Programming Steps

 Press the OFF-HOOK PREF flexible button (FLASH 50, Page B, Button #10). The following message displays:



- 2. Enter a valid button number (01–24) or (00) to indicate no specific button is preferred. (SLTs use [01] to enable or [00] to disable.)
- 3. Enter a 0 or 1 to disable/enable the Off-Hook Preference as follows: [0] = Disables programmable preference so users may not change the off-hook preference as set in programming. Also use for SLT stations. [1] = Enables programmable preference to key station users so that they may change the off-hook preference through a user dial code.
- 4. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Off-Hook Preference feature lets a key station user automatically have a flex button selected when going off-hook or pressing the ON/OFF button. An SLT user may have a particular CO line or a CO line group selected automatically when going off-hook. This may be established in programming so that key station users can select and/or change their off-hook preference through the use of a dial code [691]+BB (01-24).

Dialing [691]+00 disables Off-Hook Preference. This user programmable preference may be allowed or denied in programming. When establishing an off-hook preference for SLT stations, it is necessary to program the SLTs CO line, or line group, to access when going off-hook, using a flex button programming procedure. By default, all digital telephones can change their preference but no button is assigned (00). SLT stations cannot use this feature.

Flexible Button

Programming Steps

1. Press the BUTTON ASSIGN flexible button (FLASH 50, Page B, Button #11). The following message displays:

FLEX BUTTON PROG ENTER BUTTON DATA

- 2. Enter a valid button number [01-24] to program followed by the desired button function as follows:
 - [0] = Flexible/user changeable
 - [1] = CO line
 - [2] = Loop button/all-purpose CO appearance
 - [3] = Pool for specific groups
 - [4] = Direct feature programmable
 - [#] = Locks button

Description

Each Digital Telephone has 8, 12 or 24 flexible buttons that can be programmed. One of the following six operations can be selected in programming for each button.

Assigning a Flexible Button (user programmable)

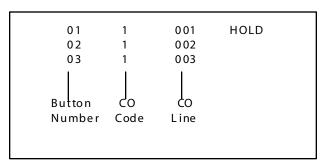
Enter: [BB], [0], [HOLD]

When a button is assigned as a flexible button [0], the user can program any features or functions on the buttons to which they have access.

Assigning a CO Line Button

Enter: [BB], [1], [LLL], [HOLD]

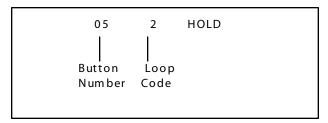
LLL = CO Line (Triad 1/2=001-048, Triad 3=001-144



Buttons assigned as specific CO lines provide direct access and appearance of the CO line at a station. The station receives call status indications such as LED flash rates for incoming ringing when the line is placed on HOLD, etc. CO Line ringing is programmed in CO Line Attribute programming.

Assigning a Loop Button

Enter: [BB], [2], [HOLD]

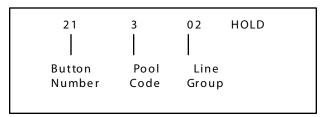


Used for a station without direct CO line appearance to answer the line ringing in or transferred to the station. It is recommended that all stations be given a loop button so they can receive a transferred call on a line for which they have no button access.

Assigning a Pool Group Button

Enter: [BB], [3], [GG], [HOLD]

 $GG = Line\ Group\ Number(00-23)$



Some or all outside CO lines may be grouped together and accessed via a POOL button for the purpose of placing an outgoing CO call. Pressing this button accesses the highest numbered unused CO line in that CO line group.



When upg rading software from FP2 to FP3, which supports this feature, all previously programmed trunk groups will be lost.

Assigning a Feature Button (admin programmable)

Enter: [BB], [4], [XXX], [HOLD]

This feature enables flexible buttons to be programmed from a remote location. Range programming can be used to assign these buttons to multiple stations. When a button is assigned as a feature button [4], the programmer can program any features on the buttons.

Unassigning (lock out) a Button

Enter: [BB], [#], [HOLD]

If SLT stations must be programmed for off-hook preference, program the desired CO line, or CO line group the SLT must access when going off-hook.

Assigning a CO Line for an SLT (with off-hook preference)

Enter: [01], [1], [LLL], [HOLD]

 $LLL = CO \ Lines \ (Triad \ 1/2 = 001 - 048, \ Triad \ 3 = 001 - 144)$

Assigning a CO Line Group for an SLT (with off-hook preference)

Enter: [01], [3], [GG], [HOLD]

 $GG = Line\ Group\ Number(00-23)$

Table 4-3: Flex Button Codes for Remote Programming

Account Code	627	Disable CO Outgoing	602
ACD Call Qualifier	570+[XXX]	Distinctive Ringing (Station)	695+[01-35]
ACD Calls in Queue Display	579+[XXX]	Do Not Disturb	631
ACD Login (Primary Grp)	572+[XXX]	Executive Override	625
ACD Login (Secondary Grp)	582+[XXX]	Group Pickup	771
ACD Member Status	573	Headset Mode	634
ACD Secondary Grp Logout	581	Hunt Groups	450-457
ACD Supervisor Help	574	ICLID Answered Call	659
ACD Supervisor Login	576+[XXX]	ICLID Unanswered Call	635
ACD Supervisor Logout	575+[XXX]	Intercom Button	645
ACD Supervisor Status	577+[XXX]	Page - All Call	700
ACD/UCD Avail/Unavail	566	Page - External	761-762
ACD/UCD Calls in Queue	567	Page - Internal All Call	709
Answering Mach. Emulation	654+[0, 1]	Page - Internal Zone	701-708
Attendant Avail/Unavail	607	Page - Meet Me	770
Attendant Override	601	LCR	773
Background Music	632	LCR Queue Cancel	626
Call Back	622	Line Queue	621
Call Coverage (Non-Ringing)	647+[XXX]	Mailbox Button (IDX = 001-255)	644+[IDX]
Call Coverage (Ringing)	646+[XXX]	Night Service	604
Call Factor	580+[5XX]+F	OHVO	628
Call Forward	640	One-Touch Record (VM 440-447)	649+[44V]
Call Park (Personal)	438	Overflow Avail / Unavail	578
Call Park (Station)	439	Personalized Message	633+[XX]
Call Park (System)	430-437	Primary ACD Group Logout	571+[XXX]
Caller ID Name/Nbr Toggle	653	Release Key	641
CO Line Direct Access	88+[LLL]	Repeat Redial	643
CO Off-Net Forward	603	Station Speed Bins	000-019
Conference	624	System Speed Bins	020-999
Custom Message	694	Triad 1/2/3 DSS	100-351
Dial by Name	772	Universal Day / Night Answer	774
Directory Dial	680	VM Pilot Groups	440-447

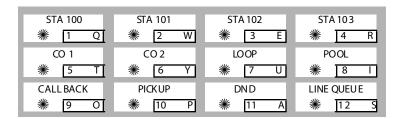
Digital Keysets

Specific buttons may be assigned as unused or locked out. When a button is programmed as unused, the button may not be programmed by the station user using flex button programming procedures.

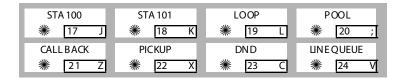
24-Button Default

STA 100	STA 101	STA 102	STA 103
₩ 1 Q	 ₩ 2 W	₩ 3 E	₩ 4 R
STA 104	STA 105	STA 106	STA 107
₩ 5 T	 ★ 6 Y	₩ 7 U	₩ 8 1
STA 108	STA 109	STA 110	STA 111
₩ 19 0	₩ [10 P]	₩ <u></u> 111 A	₩ 12 S
CO 1	CO 2	CO3	CO 4
₩ 13 D	₩ 14 F	₩]15 G	₩ 16 H
CO 5	CO 6	LOOP	POOL
₩ 17 J	₩ 18 K	₩ 19 L	₩ 20 ;
CALL BACK	PICKUP	DND	LINE QUEUE

12-Button Default



8-Button Default



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Keyset Mode

Programming Steps

 Press the KEYSET MODE flexible button (FLASH 50, Page B, Button #12). The following message displays:

KEYSET MODE 0-5 INACTIVE MODE

- 2. Enter a valid number (0-4) to change the mode of a digital telephone:
 - [0] = Inactive Mode (normal mode without CTI box)
 - [1] = PC Phone (Discovery Desktop) Mode at 4800 baud
 - [2] = ATD Command Mode at 4800 baud
 - [3] = ATH Command Mode at 4800 baud
 - [4] = CKTU Mode at 4800 baud
 - [5] = SPI Mode at 4800 baud
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Keyset Mode feature lets the station user determine the mode in which the Digital Telephone with CTI Box (optional) operates. The 5 modes are: Inactive, PC Phone (Discovery Desktop), ATD Command, ATH Command and CKTU. Through the use of a dial code, the station user can also determine the baud rate for each mode selected. This setting is stored in back-up memory in the event of a power outage or system reset. By default, Keyset is set for Inactive Mode.

Voice Mail ID Translation

Programming Steps

1. Press the VM ID TRANSLATION flexible button (FLASH 50, Page B, Button #13). The following message displays:

VOICEMAIL ID	0000-9999	
0100		

2. Enter a VM ID number which corresponds to 0000 to 9999.

3. Press HOLD to up date the table. A confirmation tone is heard and the display updates.

Description

The Voice Mail ID Translation feature enables programming of the station number sent to the Voice Mail via In-Band integration. By default, the station number is sent to the Voice Mail system. In station programming, there is a field to insert a 4-digit entry (0000-9999) which can be sent to the Voice Mail system in place of the station number. By default, Station Numbers are assigned as VMID Digits. (In FLASH 67, Button 4 toggles between 3 and 4 digits.)

Display Flexible Buttons

Programming Steps

Press the DISPLAY BUTTONS flexible button (FLASH 50, Page B, Button #14) to display programming assignments. The following message displays:

```
BUTTONS XXX - YYY 01D100 02D101 03D103 04D104
```

```
XXX = Station Number

BB = Button Number

YYY = Button Function (Refer to Table 4-4)
```

Description

Each time the DISPLAY BUTTONS flexible button is subsequently pressed, the next four buttons display starting with the lowest button number.

- When a button is assigned as Flex Button [0], the user can program any features or functions on the buttons to which they have access.
- ☐ When the buttons are programmed with user programmed functions, the display shows the function assigned to the button.

Table 4-4: Flex Button Display Designations

Flex		Flex	
Button	Designation	Button	Designation
A[AAA]	ACD Group with Pilot Number	MMP	Meet Me Page
ACC	Account Code Enter	MUL	Flexible Button
ACP	Al I Call Page	MUS	Background Music
ALI	Agent Login	NTS	Night Ser vice
ALO	Agent Logout	OFD	ACD Overflow Station Avail/Unavail
AMD	Agent Member Display	OHP	Off-Hook Preference
ANS	Answering Mach. Emulation Mode	OHV	Off-Hook Voiæ Over
AOR	Attendant Override (attn)	P[CCC]	Call Park with Park Location
AVL	ACD or UCD Avail/Unavail	PKU	Pickup
CBK	Call Back	PL[GG]	Pool with CO Line Group Number
CID	Caller ID Name / Number Toggle	PPK	Personal Park
CIQ	ACD or UCD Calls in Queue	S[YY]	Speed Dial Button with Bin Number
CO[LLL]	CO Line Button (CO Line [LLL])	SCP	Station Call Park
CQD	ACD Calls in Queue Display	SLI	Supervisor Login
D[XXX]	Station DSS / BLF	SLO	Supervisor Logout
DND	Do Not Disturb	SNR	Save Number Redial
DRG	Distinctive Ringing	STS	Supervisor Status Display
DUA	Display Unanswered Calls	U[UUU]	UCD Group with Pilot Number
EAC	External All Call	UNA	Uni versal Night Answer
EOR	Executive Override	V[VVV]	VM Group with Pilot Number
EP[N]	External Page with Zone		
FFW	Incoming Transfer CO Line		LEGENDS
H[HHH]	Hunt Group with Pilot Number	[AAA]	ACD Group Pilot Number
HLP	Agent Help	[CCC]	Call Park Location
HST	Headset Mode	[GG]	Pool or CO Line Group Number
IAC	Internal All Call Page	[HHH]	Hunt Group Number
IP[N]	Internal Page with Zone	[LLL]	CO Line Number
LCR	LCR Access	[N]	Page Zone Number
LP	Loop	[UUU]	UCD Group Pilot Number
IAC	Internal All Call Page	[VVV]	Voice Mail Group Num ber
LNR	Last Number Redial	[XXX]	Station Number
LQU	Line Queue	[YY]	Speed Dial Bin
M[ZZ]	Personalized Message w/ Msg Nbr	[<i>ZZ</i>]	Personalized Message Number

Cordless KTU (CKTU) Feature Button

Programming Steps

Press the CORDLESS KEY flexible button (**Flash 50, Page B, Button #17**) to assign the FEAT Buttons. The following message displays:

CORDLESS KEY BTN 00-30 XX

XX = Assigned FEAT Button

00 = None

01-24 = Button 1-24 (01-30 for Large Screen Display telephone)

Description

If a CKTU is associated with the station, the FEAT Button on the CKTU may be assigned to function as any one (1) of the 24 Flexible Buttons on the telephone. This programming area defines which Flexible Button on the telephone is applied to the CKTU FEAT Button. Not all features are available to be assigned to the CKTU FEAT button. By default, no button (00) is assigned to the FEAT.

Page C Introduction

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

1. Press **FLASH** and dial **[50]**. Flexible button #24 (New Range) is lit and the following message displays:

STATION ATTRIBUTES
SELECT A STATION RANGE

2. Enter the range of station numbers to be programmed. To program only one station, enter the number twice (100100).



If the HOLD button is pressed without entering a station range, ALL stations are selected.

- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates. Flexible button #19 (Page A) is lit.
- 4. Press button #21. The display updates to reflect current programming for Page C.

```
XXX-XXX PAGE C
ENTER BUTTON NUMBER
```

XXX-XXX = Station Range (Triad 1/2=100-171, Triad 3=100-351)

Description

Range programming enables the programmer to change a specific parameter or a few parameters for a range of stations, leaving intact the remaining data fields not requiring changes. Those data fields continue to operate with the previously programmed data.

When programming the Page C features, the flexible buttons are mapped as follows:

INTERNAL NO ANSWER FWD # 1 Q	INTERNAL BUSY FWD # 2 W	EXTERN AL NO ANSWER FWD # 3 E	EXTERNAL BUSY FWD # 4 R
NO ANSWER TIMER	SYSTEM SPEED BIN		
₩ 5 T	※ 6 Y	₩ 7 U	※ 8 Ⅰ
* 9 0	<u> </u>	₩ 11 A	₩ 12 5
₩ 13 D	※ □14 F	₩ [15 G]	₩ [16 H]
₩ 17 J	※ 18 K	PAGE A ※ 19 L	PAGE B ※ 20 ;
PAGEC ₩ 21 Z	NEXT(FWD) ※ 22 X	NEXT (BACK) 	NEW RANGE ※ 24 V

Preset Call Forward

Programming Steps

To program internal and external calls with separate Busy and No Answer destinations, perform the following steps.



Valid destination entries are: 1020-1999 = Speed bins 100-351 = Station numbers 440-447 = Voice mail groups 450-457 = Hunt groups 550-565 = ACD groups

Internal No Answer Destination

1. Press FLASH 50, Page C, Button #1. The following message displays:

```
INTERNAL NO ANSWER FWD ####
```

- 2. Enter a valid number and press HOLD.
- 3. To delete the entry, press the [#] key and then press HOLD.

Internal Busy Destination

1. Press **FLASH 50**, **Page C, Button #2**. The following message displays:

```
INTERNAL BUSY FWD
####
```

- 2. Enter a valid number and press HOLD.
- 3. To delete the entry, press the [#] key and then press HOLD.

External No Answer Destination

1. Press **FLASH 50**, **Page C, Button #3**. The following message displays:

```
EXTERNAL NO ANSWER FWD
####
```

- 2. Enter a valid number and press HOLD.
- 3. To delete the entry, press the [#] key and then press HOLD.

External Busy Destination

1. Press FLASH 50, Page C, Button #4. The following message displays:

```
EXTERNAL BUSY FWD
####
```

- 2. Enter a valid number and press HOLD.
- 3. To delete the entry, press the [#] key and then press HOLD.

No Answer Timer

1. Press FLASH 50, Page C, Button #5. The following message displays:

NO ANSWER TIMER	00-99
10	

2. Enter a valid number (00-99) and press HOLD (00=disable).

Description

The Preset Call Forward feature provides separate Busy and No Answer destinations for internal and external calls with a No Answer Timer associated to each station. External calls ringing that particular station, transferred calls, and internal calls follow this Preset Forward feature. By default, the Timer is set at 10 seconds.

Conditions

Station Forwarding overrides the Preset Forward settings.

Speed Dial Access

Programming Steps

 Press the SPEED DIAL ACCESS button (FLASH 50, PAGE C, Button #6). The following message displays:

SYS SPEED BIN	100-999
###-###	

- 2. Enter a range of speed bins to be allowed (100-999).
- 3. Press HOLD to save the entry.

Description

The System Speed Dial Access feature has 900 entries available (with expanded memory). A station can be allowed or denied access to bins 100-999. Stations may be granted the ability to dial all Speed Dial Numbers within the range.

Flexible Numbering Assignment

Programming Steps

Press **FLASH** and dial **[52]**. The following message displays:

FIX: 100 FLEX: 100 NAME: STATION 100

Selecting a Fixed or Flexible Code

- 1. Press Button 24 (Fixed) or Button 21 (Flex).
- 2. Enter the desired code to change.
- 3. Press HOLD. The Fixed and Flex Number as well as a description of the code displays on the LCD.



You can scroll through Fixed Codes by using the PREVIOUS button (23) or the NEXT button (22).

Changing a Flexible Code

- 1. Select the desired code.
- 2. Press Button 1. The red LED illuminates.
- 3. Delete the Flex Number by pressing button 2 and then pressing HOLD. The Flex number field will be blank.
- 4. Enter the new code (3-4 digits).
- 5. Press HOLD.



Station/Pilot numbers can only contain 0-9.

Feature codes can contain 0-9, *, #.

Erasing a Flexible Code

- 1. Select the desired code.
- 2. Press Button 1 (must be lit).
- 3. Press Button 2.
- Press HOLD.

Description

The Flexible Numbering feature allows the system numbering plan to be modified from its default value to accommodate specific customer requirements. Station, Pilot, and Feature Access Code numbers may be changed with this feature. The length of these numbers may also be modified to meet specific customer applications.

The buttons on the key telephone are defined as shown when entering the Flexible Numbering Assignment feature programming area:

CHANGE FLEXIBLE CODE # 1 Q	ERASE FLEXIBLE CODE # 2 W	※ 3 E	*
₩ 5 T	※ 6 Y	※ 7 U	₩ 8 I
* 9 0	※	※ □ 11 A	₩ 12 S
₩ 13 D	※	※ □ 15 G	₩ 16 H
※	※	※ 19 L	* 20 ;
NEW FLEXIBLE CODE ENTRY # 21 Z	NEXT FIXED CODE ENTRY 22 X	PREVIOUS FIXED CODE ENTRY 23 C	NEW FIXED CO DE ENTRY # 24 V

Conditions

- □ Feature access codes cannot conflict with station numbering.
- □ CO line numbers are fixed and cannot be changed other than the current FLASH 42 re-assignment.
- If no VM ID digits are programmed in the station field, the flexible number assigned to the station will be sent to the VM unit.
- □ Flash 06, Button #15 is the programming area to automatically assign the VMID digits to be the same as the flexible station numbering.

- ☐ The SMDR will output 4 digit numbers in the station field. If less than 4 digits is selected in the numbering plan, leading spaces will be added in place of the numbers. The 3-4 digit SMDR programming area will be removed from programming.
- ☐ The Discovery ACD event trace source and destination fields will be 4 digits. Station numbers less than 4 digits will be prefixed with leading zeros.
- ☐ The programming will print out as part of the CO-STA port programming area. The flexible numbering can be initialized in the CO-STA initialization area.
- If programming with a telephone All programming will be done using Fixed Codes, regardless of the flexible codes.
 EXAMPLE: If a station has been renumbered from 4500-4851, in programming they are still referred to as 100-351.
- ☐ The leading digit feature is removed in FP3. The leading digit feature is replaced by networking feature (FLASH 16).

Table 4-5: Default Numbering Plan

Function	Code	Function	Code	Function	Code
911 Atnd Alert Clear	608	Call Park - Station	439	Name In Display	690
Account Code	627	Call Park P/U - Station	#6	Night Service	604
ACD Call Factor	580	Camp On	620	Off-Hook Preference Prog	691
ACD Call Qualifier	570	Cancel LCR Que ue	626	OHVO	628
ACD Group 1-16	550-565	Clear Fwd, DND, Msg	662	On e Touch Record	649
ACD CIQ Display Btn	579	Clear VM Alarm	656	Page - All Call	700
ACD CIQ Status Disp	567	CO Line Direct Access	88	Page - Ext Zone All, 1, 2	760-762
ACD Help	574	CO Line Group 0-23	800-823	Page - Int Zon e 1-8, All	701-709
ACD Member Display	573	CO Line Queue	621	Page - Meet Me (Ans)	770
ACD Overflow Avail/Unav	578	Conference	624	Pause/Resume Rec	655
ACD PRI Login	572	Cus to m Ms g	694	Personalized Msgs	633
ACD PRI Logout	571	Dial By Name	6 *	Pickup Park Group 1-8	#430-#437
ACD Sec Login	582	Directory Dial	680	Pool All	824
ACD Sec Logo ut	581	Dir List Pgm Code	693	Release	641
ACD Supv Disp	577	Distinctive Ring	695	Repeat Redial	643
ACD Supv Login	576	Do Not Disturb	631	Save Number Redial	[SPEED]+[米]
ACD Supv Logout	575	DTMF Receiver Test	657	Set Clock	692
ACD/UCD Avail/Unav	566	Executive Override	625	SLT Directed Call P/U	#1
Ans Machine Ring	6540	Flash	660	SLT Message Wait Return	663
Ans Machine Spkr	6541	Gro up Call Pickup	#0	SLT Conference Park	664
Atnd Clear T-1 Alarm	606	Headset Mode	634	SLT Speed Dial	668
Atnd Disable CO Line	602	HPT	667	SLT Speed Prog	661
Atnd Off-Net Forward	603	Hunt Group 1-8	450-457	Station 100-351	1 00-351
Atnd Override	601	ICLID Ans Call	659	Station Relocate	636
Atnd Unans CO Call Xfer	639	ICLID Name/Number	653	Stop Trace	658
Atnd Un available	607	ICLID Unans Call	635	Telecenter Adm	652
Atten dant	0	Intercom Button	645	Telecenter Ext	650
Background Music	632	Keyset Mode	648	Tone Ring	6#
Call Back	622	Last Number Redial	[SPEED]+[#]	UNA/UDA	#5
Call Coverage	647	LCR	800	VM Group 1-8	440-447
Call Coverage Ring	646	Loop Key (Reqs Btn)	89	VM Msg Cancel	421
Call Forward	640	Mailbox Button	644	VM Msg Set	420
Call Forward Override	5#	Modem	499	VM Msg Set W/Count	422
Call Forward - Remote	642	MPB Version	605	Volume	638
Call Park - Group 1-8	430-437	Msg Wait	623		
Call Park - Personal	438	Mute	629		

5 ICLID (Caller ID) Route Programming

This chapter provides the functional and implementation definitions for adding the ICLID features to the *STARPLUS Triad* 1/2/3 System.

Introduction 5-3

Introduction

ICLID, or Caller ID, is a service provided from the telephone company. Usually this service provides the number and name (not available in some cases) of the calling party for identification prior to answering the call. Calling party number and name are delivered in between this first and second ring using FSK (Frequency Shift Key) format.

For this feature to operate properly, it must be activated from the Central Office so the numbers or name, if available, of the calling party are delivered over the individual tip and ring of the CO lines during the first silent interval between ringing.

Calling Number / Name Display

Whenever an incoming call is received at the system, the number received with the ringing signal is stored in the line control tables and used during the call processing.



If two lines are ringing at the same time, the display shows the oldest line information. After one of the lines is answered, the display shows the information on the unanswered lines.

The *Triad 1/2/3* System can use the Caller ID information to display the number and/or name of the calling party on the system telephone display. By default, the system displays the telephone number of the caller. The system can be changed to display the name (if provided) in place of the telephone number.

5-4 Introduction

The system also offers a Number/Name Translation Table. This allows numbers to be matched to names in a system table. If a name/number from the telephone company matches an entry in the table, the name programming in the table is presented in place of the name provided from the telephone company.

00 00 00 00 01 11 11 11 11 122 22 2 12 34 56 78 90 12 34 56 7 8 9 01 23 4

bbbbnnnnnnnnnnnnnbbbb

-or-

XXXXXXXXXXXXXXXXXXXXXXXXXX

If no name is available, supplied from the Central Office or internally from the translation table, the delivered number is positioned centered in the display as shown above for the 14Ns.

An option was added to the Local Number/Name Translation Table to route ICLID or Caller Entered ID Digits based on a partial compare with the number entered in the translation table.

ICLID Features 5-5

Incoming Number/Name for SMDR Records

When the Incoming Number/Name feature is implemented, the system operates normally in the absence of ICLID information or the failure of the ICLID equipment. If the information is present at the time that an SMDR record is generated for a call, it alters the content and format of the SMDR output record.

- If the calling number is available, the number is output in the SMDR record in the same location as the dialed number is located in the outgoing call record.
- If the calling name is present, an additional line is output in the SMDR identifying the name. This record immediately follows the normal SMDR record. The normal SMDR record includes an indicator that states the following record with name identification is present.

Unanswered calls are recorded in the SMDR record for incoming calls with a U indicator to provide caller identification for statistical and call-back purposes.

ICLID Features

Programming Steps

1. Press **FLASH** and dial **[56]**. The following message displays:

```
ICLID NAME BAUD PORT
NO YES 9600 1
```

2. To program ICLID features, use the flexible button(s) as defined in the following procedures.

```
Button # 1 = Disable/Enable
```

Button #2 = Name In Display

Button #3 = Baud Rate Display

Button #4 = Port Assignment

3. After all entries are made, press HOLD to accept the data.

5-6 ICLID Features

Description

The *Triad 1/2/3* System provides ICLID input on the RS-232C connector on the MPB, or to the optional SIU2 Module. When ICLID is desired, the following system-wide parameters determine how the ICLID information is distributed. When entering the ICLID features programming area the buttons on the digital telephone are defined as shown below:



Enable / Disable

Programming Steps

- 1. Press the DISABLE/ENABLE flexible button (FLASH 56, Button #1).
- 2. Enter a valid number (0 or 1) to enable/disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

ICLID (Incoming Calling Line IDentification) was added to the Triad 1/2/3 System. These features are unavailable unless the Basic ICLID Software package was purchased separately. For this feature to operate properly, it must be activated from the Central Office so the numbers of the calling party are delivered over the individual tip and ring of the CO lines during the first silent interval between ringing. By default, ICLID is disabled.

ICLID Features 5-7

Name in Display

Programming Steps

 Press the NAME flexible button (FLASH 56, Button #2) to determine whether the name shows in the LCD display instead of the incoming telephone number.

- 2. Enter a 0 or 1 on the dial pad.
 - [0] = Telephone number in display
 - [1] = Name in display
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Description

The system can be set to display the incoming telephone number or the person's name on the LCD display. By default, the system shows the telephone number on the LCD display.

Baud Rate Display

Programming Steps

The ICLID baud rate is programmed using **FLASH 15** Baud Rate assign ments. The LCD displays the current baud rate based on which number is assigned to the ICLID Port number.



When FLASH 56, Button #3 is pressed, an error tone is received.

Description

The *Triad 1/2/3* System can provide ICLID input on the standard RS-232C on the optional MISU. The baud rate is displayed as 150, 300, 600, 1200, 2400, 4800, or 9600 baud. The default is 9600 baud.

5-8 ICLID Features

Port Assignment

Programming Steps

- 1. Press the PORT flexible button (FLASH 56, Button #4) to determine which port to use for ICLID information.
- 2. Enter a valid number for one of the ICLID Ports:

```
[1] = Port # 1 MPB On-Board RS-232C (default)
```

- [2] = Port # 2 On-Board Modem
- [3] = Port # 3 Serial Interface Unit (SIU2)
- [4] = Port #4 Serial Interface Unit (SIU2)

```
ICLID NAME BAUD PORT
NO YES 9600 1
```

(LCD displays current baud rate assigned to the ICLID Port number.)

3. Press HOLD to accept the data. A confirmation tone is heard and the display updates.

By default, the On-Board Modem baud rate is 2400 Baud.

6 Automatic Call Distribution (ACD)

The ACD Group feature is available with optional software.

ACD Group Programming

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

- 1. Press FLASH and dial [60].
- 2. Enter the group number (550-565) on the dial pad.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

There can be 16 ACD groups of up to 252 stations each. The ACD groups use a pilot hunting technique. If the pilot number is dialed, the assigned stations in that ACD group are searched for the station in an idle condition for the longest period of time.

Each ACD Group may have an assigned Alternate ACD Group, an Overflow Station, and up to 252 stations as ACD members. The eight system RAN ports (tables) may also be referenced on a per ACD group basis. By default, ACD Group Tables are empty. The buttons on the digital telephone are defined as shown:

GROUP NAME	ALTERNATE GROUP	OVERFLOW STATION	SUPERVISOR
₩ 1 Q	₩ <u>2</u> W	※ 3 E	₩ 4 R
CIQ	WRAP-UP	PRIMARY	SECONDARY
THRESHOLD	TIMER	AGENTS	AGENTS
※ 5 T	₩ 6 Y	※ 7 U	₩ 8 1
GUARANTEED	PRIMARY	SECOND ARY	TRANSFERRED
RAN	RAN	RAN	RAN
₩ 9 0	₩ 10 P	※ 11 A	
OVERFLOW TIMER	CALL FACTOR		
☀ 13 D	※ <u> </u>	☀ 15 G	☀ 16 H
☀ 17 J	※ <u>□ 18 K</u> <u></u>	₩ 19 L	* 20 ;
	PREVIOUS	NEXT	NEW
	GROUP	GROUP	RANGE
☀ 21 Z	☀ 22 X	 ★ 23 C	 ★ 24 V

ACD Group Name

Programming Steps

1. Press the GROUP NAME flexible button (FLASH 60, Button #1). The following message displays:

```
ACD5XX NAME
ACD5XX
```

2. Enter the desired name using the dial pad (up to eight characters).

Other Codes D-31 B-22 C-23 E-32 F-33 1 = 1#8 = 8#= 01* = *# 2 = 2#9 = 9#, = 02(= #1J-51 M-61 H-42 K-52 N-62 O-63 3 = 3#0 = 0#? = 03) = #2I-43 L-53 Space = 114 = 4#/ = 04+ = #3W-91 P-71 T-81 R-72 X-92 U-82 5 = 5#:= 12 !=*1 == #4 S-73 Y-93 V-83 Q-74 Z-94 6 = 6#-= 13 \$ = *2 # = ## OPER 7 = 7#' = 14& = *4 . = 24

Table 6-1: Dial Pad Keys

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A Group Name can be assigned to each of the 16 ACD groups to provide each with a unique identification. A Group Name only appears during a ringing ACD call. A Group Name is not presented on an idle display.

Alternate ACD Group Assignment

Programming Steps

Press the ALTERNATE GROUP flexible button (FLASH 60, Button #2).
 The following message displays:

```
ACD5XX ALTERNATE GROUP
XXX
```

- 2. Enter desired pilot number (550 to 565) of the alternate ACD group.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting an Alternate ACD Group

- 1. Press [#] three times.
- 2. Then press the HOLD button.

Description

An Alternate ACD Group can be programmed so if no station in a group is available, the alternate group is checked for an available station. This provides a way to chain or link ACD groups together.

ACD Overflow Station Assignment

Programming Steps

- 1. Press the OVERFLOW ASSIGN flexible button (FLASH 60, Button #3).
- 2. Enter a valid station number to designate the ACD Group's overflow station.

```
ACD5XX OVERFLOW STATION
XXX
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting an ACD Overflow Station

- 1. Press [#] three times.
- 2. Then press the HOLD button.

Description

When an overflow station is assigned, callers that remain in queue for a specified amount of time are routed to the assigned overflow station. The overflow station may not be one of the ACD group stations. Only CO calls transferred to a ACD group overflow to the overflow station when RAN tables are assigned.

ACD Supervisor

Programming Steps

- 1. Press the ACD SUPV flexible button (FLASH 60, Button #4).
- 2. Enter a valid station number of the desired ACD Supervisor station.

```
ACD5XX SUPERVISOR STA
XXX
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting an ACD Supervisor Station

- 1. Press [#] three times.
- 2. Then press the HOLD button.

Description

The ACD Supervisor Station assignment feature provides a means to assign each ACD group a supervisor. This Supervisor Station can receive the calls in queue display in real time, receives No Answer/Out of Service conditions, HELP displays from the groups to which the supervisor is assigned, and can barge-in on active calls in their ACD Group or groups.

A supervisor can be assigned in ADMIN to a group or groups to receive the help request and out of service (OOS) messages. If a supervisor station is assigned in ADMIN, it is considered logged in. A supervisor can dial a supervisor login code [576] followed by the ACD group that the supervisor is logging into and their 4-digit Agent ID number.

ACD CIQ Threshold

Programming Steps

1. Press the CIQ THRESHOLD flexible button (FLA SH 60, Button #5). The following message displays:

ACD5XX CIQ THRS HOLD	00-99
00	

- 2. Enter a valid value on the dial pad that corresponds to 00–99 calls.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The ACD CIQ Threshold feature determines how many calls appear in queue before the LED flashes at 240 ipm flutter. Once the number of calls in queue falls below the CIQ threshold, the LED extinguishes. By default, this feature is disabled.

Conditions

- □ Any ACD station can have a button assigned to view the calls in queue of any ACD group.
- ☐ The CIQ flexible button (579+5XX) must be assigned on the telephone(s).

ACD Auto Wrap-Up Timer

Programming Steps

1. Press the WRAP-UP TIMER flexible button (FLASH 60, Button #6). The following message displays:

ACD5XX	W RA P-UP	000-999
004		

- 2. Enter a valid number on the dial pad which corresponds to 000-999 seconds (000=disable).
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

After completion of a ACD call (on-hook) the agent is not subjected to another ACD call for the duration of the Auto Wrap-Up Timer allowing the agent to finish call related work or access other facilities. This lets agents remove themselves from the group (e.g., DND, Call Forward) or originate another call. By default, the ACD Auto Wrap-Up Timer is set for 4 seconds and is variable from 000-999 seconds.

Primary Agents

Programming Steps

Press the PRIMARY AGENT flexible button (FLASH 60, Button #7).
 The following message displays:

ACD5XX PRIMARY AGENTS END

- 2. To **add** a station as a primary agent of the ACD group, use the dial pad as follows:
 - \Box Enter SSS 1 (SSS = station).
 - □ Press the HOLD button.
- 3. To **delete** a station from being a primary agent of the ACD group, use the dial pad as follows:
 - \Box Enter SSS 0 (SSS = station).
 - ☐ Press HOLD to save the entry. A confirmation tone is heard and the display updates.
- 4. To **view** primary agents in the ACD group, press button #7. (Each depression toggles through seven agents at a time.)

Description

The Primary Agent Assignment feature allows the stations serving as primary agents to be entered into the ACD group. Agents can login to both a primary and secondary group. A primary agent's ACD calls from their primary group are always presented ahead of any ACD calls in their secondary group.



Overflow Station Forward (Flash 06, button #6) allows/disallows excess calls to be forwarded to another station.

ACD Agent Recall (Flash 06, button #12) allows/disallows calls that have been transferred from an ACD Agent to recall the Agent.

Secondary Agents

Programming Steps

Press the SECONDARY AGENT flexible button (FLA SH 60, Button #8).
 The following message displays:

ACD5XX SECONDARY AGENTS END

- 2. To **add** a station as a secondary agent of the ACD group, use the dial pad as follows:
 - \square Enter SSS 1 (SSS = station).
 - □ Press HOLD.
- 3. To **delete** a station from being a secondary agent of the ACD group, use the dial pad as follows:
 - \Box Enter SSS 0 (SSS = station).
 - ☐ Press HOLD to save the entry. A confirmation tone is heard and the display updates.
- 4. To **view** secondary agents in the ACD group, press button #7. (Each depression toggles through seven agents at a time.)

Description

The Secondary Agent Assignment feature allows the stations serving as secondary agents to be entered into the ACD group. Agents can login to both a primary and secondary group. A primary agent's ACD calls from their primary group are always presented ahead of any ACD calls in their secondary group.

Guaranteed RAN

Programming Steps

Press the GUARANTEED RAN flexible button (FLASH 60, Button #9).
 The following message displays:



- 2. Enter a valid number (1-8 for) the desired RAN Announcement Table or a (#) to remove the entry.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A Guaranteed Message announcement may be assigned to the group to force callers to listen to the announcement prior to entering the queue or ringing an agent.

Callers listening to this type of announcement may dial digits (up to 14) using their dial pad. These digits can then be compared against the Local Number/Name Translation Table and routed to destinations based on table overrides. These digits (or a translation table entry's digit/name) then show on an agent's display as calling number identification digits.

This RAN function is only used for incoming CO calls to ACD Groups.

Primary RAN

Programming Steps

1. Press the PRIMARY RAN flexible button (FLASH 60, Button #10). The following message displays:



- 2. Enter a valid number (1-8) for the desired RAN Announcement Table or a (#) to remove the entry.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A Primary Message Announcement may be assigned to the group. This message is the first one presented to the caller, if the guaranteed message has not been enabled and the call has been transferred to the ACD Group.

This message plays after the Message Interval Timer expires and no agents are available.

Secondary RAN

Programming Steps

Press the SECONDARY RAN flexible button (FLASH 60, Button #11).
 The following message displays:



- 2. Enter a valid number (1-8) for the desired RAN Announcement Table or a (#) to remove the entry.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A Secondary Message Announcement may be assigned to the group. This announcement can be used for follow-up information after the Primary messages.

Transferred RAN

Programming Steps

 Press the TRANSFERRED RAN flexible button (FLASH 60, Button #12). The following message displays:



2. Enter a valid number (1-8) for the desired RAN Announcement Table or a (#) to remove the entry.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Transferred RAN Message is for CO callers who are transferred to an ACD group. This forces callers transferred to an ACD Group to listen to the announcement prior to entering the queue or ringing an agent.

ACD Overflow Timer

Programming Steps

Press the OVERFLOW TIMER flexible button (FLASH 60, Button #13).
 The following message displays:

ACD5XX	OVERFLOW	000-600
060		

- 2. Enter a valid number on the dial pad which corresponds to 000-600 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The ACD Overflow Timer determines the total length of time a caller remains in queue for a particular ACD group. When the timer expires, the caller is routed to the designated overflow station.

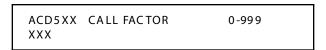
The timer starts when an incoming call is answered and presented to the first recorded announcement. Transferred CO callers overflow at the expiration of the Overflow Timer.

By default, the ACD Overflow Timer is set for 60 seconds and is variable from 000–600 seconds.

Call Factor

Programming Steps

1. Press the CALL FACTOR flexible button (FLASH 60, Button #14). The following message displays:



- 2. Enter a valid number (0-999 minutes) for the desired call factor time. (0 disables this function.)
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Call Factor feature is used exclusively with the digital voice mail to provide the average call duration to the caller. This feature can be activated from administration or the ACD supervisor can use a flexible button, [580]+5XX (ACD Group number)+XXX (Call Factor), to enter the factor (average call duration).

The following formula is used to calculate the average call duration:

(Place in Queue) (Call Factor)
----Number of Agents Logged into Group

6-14 ACD Timers

ACD Timers

Programming Steps

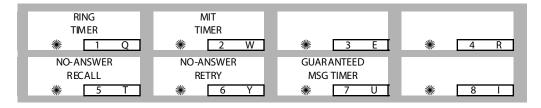
Press **FLASH** and dial **[61]**. The following message displays:

```
ACD TIMERS
ENTER BUTTON NUMBER
```

Description

Six timers for ACD operation are programmable on a system-wide basis. The ACD timers include: A Ring Timer, Message Interval Timer, an Overflow Timer (Flash 60, Button #13), a No/Answer Recall Timer, a No/Answer Retry Timer, and a Guaranteed Message Timer. Each timer is described in the following section.

The buttons on the digital telephone are defined as shown when entering the ACD Timers programming area:



ACD Ring Timer

Programming Steps

1. Press the RING TIMER flexible button (FLASH 61, Button #1). The following message displays:



- 2. Enter a valid number which corresponds to 000-300 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

ACD Timers 6-15

Description

The ACD Ring Timer determines how long a call rings into a busy ACD group before being presented to the first recorded announcement. By default, the ACD Ring Timer is set for 60 seconds, and is variable from 000–300 seconds.



A RAN Table must be specified in ACD programming. If a RAN Table is NOT specified, incoming CO callers are not answered but continue to receive ringback.

ACD Message Interval Timer

Programming Steps

 Press the MIT TIMER flexible button (FLA SH 61, Button #2). The following message displays:

MESSAGE INTERVAL	000-600	
060		

- 2. Enter a valid number on the dial pad which corresponds to 000-600 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.



The ACD Ring and Message Interval timers only apply when RAN ports are specified. If RAN ports are not specified, incoming callers continue to receive a ringback tone.

Description

The ACD Message Interval Timer (MIT) determines the length of time a caller remains in queue (listening to MOH, if provided) between recorded announcements. By default, the ACD Message Interval Timer is set for 60 seconds and is variable from 000-600 seconds.

6-16 ACD Timers

ACD No-Answer Recall Timer

Programming Steps

1. Press the NO-ANSWER RECALL TIMER flexible button (FLASH 61, Button #5). The following message displays:

NO - ANS RECALL	000-300
000	

- 2. Enter a valid number which corresponds to 000-300 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

If a call routed to a station via ACD is not answered by the ACD Agent/Station before the No-Answer Recall Timer expires, the call is returned to ACD Queue with the highest priority. In addition, the station that failed to answer the ringing ACD call is placed into an out-of-service (OOS) state. By default, the ACD No-Answer Timer is at 000 (disabled) and is variable from 000–300 seconds.

ACD No-Answer Retry Timer

Programming Steps

1. Press the NO-ANSWER RETRY TIMER flexible button (FLASH 61, Button #6). The following message displays:

NO ANSWER RETRY 000-999 300

- 2. Enter a valid number on the dial pad which corresponds to 000-999 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

ACD Timers 6-17

Description

When the No-Answer Recall Timer expires, a station that failed to answer the ringing ACD call is placed into an out-of-service (OOS) state. The station that was taken out-of-service (OOS) is placed back in service if the agent presses the available flex button or dials the available flex code. The agent is placed back in service if the No-Answer Retry Timer expires.

If the agent does not answer their next ACD call, they are taken out-ofservice. This cycle continues until the station answers calls, logs out, or goes unavailable.

By default, the ACD No-Answer Retry Timer is set for 300 seconds and is variable from 000–999 seconds.

Guaranteed Message Timer

Programming Steps

 Press the GUARANTEED MESSAGE TIMER flexible button (FLASH 61, Button #7). The following message displays:

005

- 2. Enter a valid number on the dial pad which corresponds to 000-300 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Guaranteed Message Timer determines how long a call rings before being answered by Guaranteed Message RAN when the Guaranteed Message RAN feature is added to an ACD Group.

By default, the Guaranteed Message Timer is set for 5 seconds and is variable from 000-300 seconds.

ACD Announcement Tables

Programming Steps

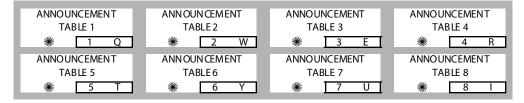
If Recorded Announcement (RAN) devices are installed to operate with ACD, these tables must be programmed.

1. Press FLASH and dial [62]. The following message displays:

```
ANNOUNCEMENT TABLE 1
TYPE # INDX ### TIME ###
```

The top left button in the flexible button field is lit for programming ACD RAN Announcement Table #1.

2. To change to another ACD RAN Announcement Table, press **FLASH 62** and a flexible button 2-8 for Tables 2-8 respectively.



To program a table for a CO line port:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [1] for CO Port Interface.
- 3. Dial [001-144] for CO Lines used.
- 4. Enter message duration (000-300 seconds).
- 5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

To program a table for an SLT port:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [2] for SLT Port Interface.
- 3. Dial [100-171] for *Triad* 1/2, or [100-351] for *Triad* 3 SLT stations used.
- 4. Enter message duration (000-300 seconds).
- 5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

To program a table for a RAN Hunt Group port:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [3] for RAN Hunt Group.
- 3. Dial [458-461] for RAN Hunt Group used.
- 4. Enter message duration (000-300 seconds).
- 5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

To program a table for Digital Voice Mail:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [4] for the Digital Voice Mail function.
- 3. Dial [44X] (X=0-7) for the Voice Mail Group.
- Dial a three-digit menu number [000-999].
- 5. Dial [0-9].
 - 0 = No DTMF Detection, No Messages Played. (Default)
 - 1 = DTMF Detection, No Message.
 - 2 = No DTMF, Place In Queue Message.
 - 3 = DTMF Detection, Place In Queue Message.
 - 4 = No DTMF, Hold Time Message.
 - 5 = DTMF Detection, Hold Time Message.
 - 6 = No DTMF, Both Messages.
 - 7 = DTMF Detection, Both Messages.
 - 8 = Not used at this time.
 - 9 = Not used at this time.
- 6. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Clearing Entries

- 1. Press the [#] button.
- 2. Then press HOLD.

Description

Determines the type, index (port) number and message length for the eight available Recorded Announcements (RAN). There are eight RAN Tables that can be programmed. Table 1 can be the answer port for unanswered in coming calls to an ACD group.

The type can be either a CO line port, an SLT port, Digital Voice Mail, or a RAN Hunt Group port. The index number specifies which circuit for the type of interface. The message length is used to match the maximum length of the message to the device that is used.

Digital Voice Mail can be used as a RAN Announcer for ACD Groups. A men u is provided to play the announcement, as well as collect DTMF digits and route the caller to an alternate destination. In addition, a place in queue and an average hold time message can be played to the caller. The ability to detect DTMF, play average hold time, and place in queue are all programmable in this area.

When using the Digital Voice Mail as a RAN Announcer, the following options are available:

Table 6-2: Voice Mail RAN Announcer Options

Option	Action
0	Do NOT take a menu action on any DTMF dialed by the caller; DO NOT play Place in Queue or Hold Time message. (Default)
1	Take menu action only on DTMF dialed by the caller; DO NOT play Place in Queue or Hold Time message.
2	DO NOT take menu action on any DTFM dialed by user; play the Place in Queue message only.
3	Take menu action on DTMF; play the Place in Queue message.
4	DO NOT take menu action on any DTFM dialed by user; play the Hold Time Message only.
5	Take menu action on DTMF; play Hold Time message.
6	DO NOT take menu action on any DTFM dialed by user; play the Place in Queue and Hold Time message. (No Message Duration for type [4] entries is required.)
7	Take menu action on DTMF; play the Place in Queue and Hold Time message.
8-9	Not used at this time



DVM software version must be 2.89 or greater to have RAN functionality.

PC / ACD Interface Trace

Programming Steps

Press FLASH and dial [63]. The following message displays:

```
ACD _ EVT _ TRACE I/O BAUD
NO 1 9600
```

Description

The PC/ACD Interface Trace feature is available with optional software. The PC/ACD Interface Trace feature provides an event trace output which is compatible with Discovery ACD Reporting package. The buttons on the digital telephone are defined as shown when entering the PC/ACD Event Trace feature programming area:



Enable / Disable

Programming Steps

1. Press the DISABLE/ENABLE flexible button (FLASH 63, Button #1). The following message displays:

```
ACD _ EVT _ TRACE I/O BAUD
YES 1 9600
```

2. Press the ENABLE/DISABLE flexible button.

LED On = YES (Enabled) LED Off = NO (Disabled)

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The PC/ACD Interface Trace provides a series of events trace output which is compatible with the Discovery ACD Reporting package. By default, the PC/ACD Event Trace is disabled (NO).

Trace Port Assignment

Programming Steps

- 1. Press TRACE PORT ASSIGNMENT flexible button (FLASH 63, Button #2) to determine which port to use for PC/ACD Interface Trace.
- 2. Enter a valid number for the PC/ACD Event Trace Port number:

```
[1] = Port #1 (MPB On-Board RS-232-C)
```

[2] = Port #2 (On-Board Modem)

[3] = Port #3 Serial Interface Unit (SIU2)

[4] = Port #4 Serial Interface Unit (SIU2)

The LCD displays the current baud rate based on which Port number is assigned to the ACD SMDR Port number (default is Port #1).

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

By default, the trace port assignment is set to 1.

Baud Rate Display

Programming Steps

The PC/ACD Port Baud Rate is programmed using **Flash 15** baud rate assign ments. The LCD displays the current baud rate based on which Port number is assigned to the ACD SMDR Port number.

The following message displays:

PORT	BAUD		
1	9600		

Description

The STARPLUS Triad 1/2/3 can provide PC/ACD Reporting output to the standard RS232C I/O ports on the MPB or the optional SIU2 module connector(s. The baud rate is displayed as 150, 300, 600, 1200, 2400, 4800, 9600, or 19.2K baud. By default, the PC/ACD baud rate is set to 9600.

7

Uniform Call Distribution (UCD)

This chapter provides the functional steps necessary to use the UCD features with the *STARPLUS Triad 1/2/3* System. To implement the call coverage desired, you must first enter the Programming Mode.

UCD Group Programming

Programming Steps

1. Press **FLASH** and dial **[60]**. The following message displays:

UCD ATTRIBUTES SELECT A GROUP

- 2. Enter the group number (550-557) on the dial pad.
- 3. Press HOLD.

Description

There can be eight UCD Groups of no more than eight stations each. The UCD Groups use a pilot hunting technique. If the pilot number is dialed, the assigned stations in that UCD Group are searched for the station which has been in an idle condition for the longest time period.

Each UCD Group may have an assigned Alternate UCD Group, an Overflow Station, and up to eight stations as UCD members. The two system RAN ports (tables) may also be referenced on a per UCD Group basis. By default, UCD Group Tables are empty.

UCD OVERFLOW **ALTERNATE UCD GROUP ASSIGN** Q W R PR IM ARY **AGENTS** 6 U 8 **PRIMARY SECOND ARY** RAN RAN 9 0 10 Р 11 Α 12 13 D 14 15 G 16 **PREVIOUS** NEXT NEW **GROUP GROUP** RANGE 22 24

The buttons on the digital telephone are defined as shown when entering the UCD Group(s) programming area:

Alternate UCD Group Assignment

Programming Steps

- 1. Press the ALTERNATE UCD GROUP flexible button (FLASH 60, Button #2).
- 2. Enter the pilot number (550 to 557) for desired Alternate UCD Group.

```
UCD5XX ALTERNATE GROUP
XXX
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting an Alternate UCD Group

- 1. Press [#] three times.
- 2. Then press the HOLD button.

Description

An Alternate UCD Group can be programmed so if no station in a group is available, the alternate group is checked for an available station. This provides a way to chain or link UCD Groups together.

UCD Overflow Station Assignment

Programming Steps

- 1. Press the OVERFLOW ASSIGN flexible button (FLASH 60, Button #3).
- 2. Enter a station number to designate the UCD Groups Overflow Station.

```
UCD5XX OVERFLOW STATION
XXX
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting an UCD Overflow Station

- 1. Press [#] three times.
- 2. Then press the HOLD button.

Description

When an Overflow Station is assigned, callers that remain in queue for a specified amount of time are routed to the assigned Overflow Station. The Overflow Station MAY NOT be one of the UCD Group stations. Only CO calls transferred to a UCD Group, overflow to the Overflow Station when RAN Tables are assigned.

UCD Primary Agent Assignments

Programming Steps

1. Press the PRIMARY AGENT flexible button (FLASH 60, Button #7). The following message displays:

```
UCD5XX PRIMARY AGENTS
XXX XXX XXX XXX XXX
```

- 2. To **add** a station as a primary agent of the UCD group, use the dial pad as follows:
 - \square Enter SSS 1 (SSS = station).
 - □ Press the HOLD button.

- 3. To **delete** a station from being a primary agent of the UCD group, use the dial pad as follows:
 - \Box Enter SSS 0 (SSS = station).
 - ☐ Press HOLD to save the entry. A confirmation tone is heard and the display updates.
- 4. To **view** primary agents in the UCD group, press button #7.

Description

The Primary Agent Assignment feature allows the stations serving as primary agents to be entered into the UCD group. Up to 8 UCD Agents can be entered into a Group.

UCD Primary RAN Assignments

Programming Steps

1. Press the PRIMARY RAN flexible button (FLASH 60, Button #10).



- 2. Enter a valid number (1-8) for the desired RAN Announcement Table or a (#) to remove the entry.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A Primary Message Announcement may be assigned to the group. This message is the first one presented to the caller.

Secondary RAN

Programming Steps

Press the SECONDARY RAN flexible button (FLASH 60, Button #11).
 The following message displays:

UCD5XX	SECONDARY	RAN	1-8
Х			

UCD Timers 7-7

2. Enter a valid number (1-8) for the desired RAN Announcement Table or a (#) to remove the entry.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A Secondary Message Announcement may be assigned to the group. This announcement can be used for follow-up information after the Primary message.

UCD Timers

Programming Steps

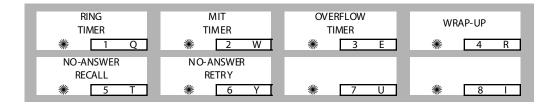
Press **FLASH** and dial **[61]**. The following message displays:

UCD TIMERS ENTER BUTTON NUMBER

Description

Six timers for UCD operation are programmable on a system-wide basis. The UCD timers include: a Ring Timer, Message Interval Timer, an Overflow Timer, an Auto Wrap-Up Timer, a No/Answer Recall Timer, and a No/Answer Retry Timer. Each timer is described in the following section

The buttons on the digital telephone are defined as shown when entering the UCD Timers programming area:



7-8 UCD Timers

UCD Ring Timer

Programming Steps

1. Press the RING TIMER flexible button (FLASH 61, Button #1). The following message displays:

RING	000-300
060	

- 2. Enter a valid number on the dial pad which corresponds to 000-300 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The UCD Ring Timer determines how long a call rings into a busy UCD group before being presented to the first recorded announcement. By default, the UCD Ring Timer is set for 60 seconds, and is variable from 000–300 seconds.



A RAN Table must be specified in UCD programming. If a RAN Table is NOT specified, incoming CO callers are not answered but continue to receive rin aback.

UCD Message Interval Timer

Programming Steps

1. Press the MIT TIMER flexible button (FLASH 61, Button #2). The following message displays:

MESSAGE INTERVAL	0 00-60 0
060	

- 2. Enter a valid number on the dial pad which corresponds to 000-600 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.



The UCD Ring and Message Interval Timers only apply when RAN ports are specified. If RAN ports are not specified, incoming callers continue to receive a ring back tone.

UCD Timers 7-9

Description

The UCD Message Interval Timer (MIT) determines the length of time a caller remains in queue (listening to MOH, if provided) between recorded announcements. By default, the UCD Message Interval Timer is set for 60 seconds and is variable from 000 to 600 seconds.

UCD Overflow Timer

Programming Steps

1. Press the OVERFLOW TIMER flexible button (FLASH 61, Button #3). The following message displays:

OVERFLOW	000-600
060	

- 2. Enter a valid number on the dial pad which corresponds to 000-600 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The UCD Overflow Timer determines the total length of time a caller remains in queue for a particular UCD group. When the timer expires, the caller is routed to the designated overflow station.

The timer starts when an incoming call is answered and presented to the first recorded announcement. Transferred CO callers overflow at the expiration of the Overflow Timer. By default, the UCD Overflow Timer is set for 60 seconds and is variable from 000–600 seconds.

UCD Auto Wrap-Up Timer

Programming Steps

1. Press the WRAP-UP TIMER flexible button (FLASH 61, Button #4). The following message displays:

UCD5XXA	WRAP-UP	000-999
004		

7-10 UCD Timers

2. Enter a valid number on the dial pad which corresponds to 000-999 seconds.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

After completion of a UCD call (on-hook) the agent is not be subjected to another UCD call for the duration of the Auto Wrap-Up Timer allowing the agent to finish call related work or access other facilities. This lets agents remove themselves from the group (i.e., DND, Call Forward) or originate another call. By default, the UCD Auto Wrap-Up Timer is set for 4 seconds and is variable from 000 to 999 seconds.

UCD No-Answer Recall Timer

Programming Steps

1. Press the NO-ANSWER RECALL TIMER flexible button (FLASH 61, Button #5). The following message displays:

NO - ANS RECALL	000-300	
000		

- 2. Enter a valid number on the dial pad which corresponds to 000-300 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

If a call routed to a station via UCD is not answered by the UCD Agent/Station before the No-Answer Recall Timer expires, the call is returned to UCD Queue with the highest priority. In addition, the station that failed to answer the ringing UCD call is placed into an out-of-service (OOS) state. By default, the UCD No-Answer Timer is at 000 (disabled) and is variable from 000–300 seconds.

UCD No-Answer Retry Timer

Programming Steps

 Press the NO-ANSWER RETRY TIMER flexible button (FLASH 61, Button #6). The following message displays:

300

- 2. Enter a valid number on the dial pad which corresponds to 000-999 seconds.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

When the No-Answer Recall Timer expires, a station that failed to answer the ringing UCD call is placed into an Out-Of-Service (OOS) state.

The **station** that was taken out-of-service is placed back in service if the agent hits their available flex button or dials the available flex code.

The **agent** is placed back in service if the No-Answer Retry Timer expires. If the agent does not answer their next UCD call, they are taken out-of-service again.

This cycle continues until the station: answers calls, logs out, or goes unavailable. By default, the UCD No-Answer Retry Timer is set for 300 seconds and is variable from 000–999 seconds.

UCD Announcement Tables

Programming Steps

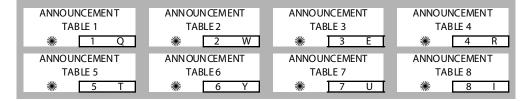
If Recorded Announcement (RAN) devices are installed to operate with UCD, these tables must be programmed.

1. Press **FLASH** and dial **[62]**. The following message displays:

ANNOUNCEMENT TABLE 1
TYPE # INDX ### TIME ###

The top left button in the flexible button field is lit for programming UCD RAN Announcement Table #1.

2. To change to another UCD RAN Announcement Table, press **FLASH 62** and a flexible button 2-8 for Tables 2-8 respectively.



To program a table for a CO line port:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [1] for CO Port Interface.
- 3. Dial [001-144] for CO Lines used.
- 4. Enter message duration (000-300 seconds).
- 5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

To program a table for an SLT port:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [2] for SLT Port Interface.
- 3. Dial [100-171](Triad 1/2), or [100-351](Triad 3), for SLT stations used.
- 4. Enter message duration (000-300 seconds).
- 5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

To program a table for a RAN Hunt Group port:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [3] for RAN Hunt Group.
- 3. Dial [458-461] for RAN Hunt Group used.
- 4. Enter message duration (000-300 seconds).
- 5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

To program a table for Digital Voice Mail:

- 1. Press the TABLE X flexible button (1-8).
- 2. Dial [4] for the Digital Voice Mail function.
- 3. Dial [44X] (X=0-7) for the Voice Mail Group.
- 4. Dial a three-digit menu number [000-999].
- 5. Dial [0-9].
 - 0 = No DTMF Detection, No Messages Played. (Default)
 - 1 = DTMF Detection, No Message.
 - 2 = No DTMF, Place In Queue Message.
 - 3 = DTMF Detection, Place In Queue Message.
 - 4 = No DTMF, Hold Time Message.
 - 5 = DTMF Detection, Hold Time Message.
 - 6 = No DTMF, Both Messages.
 - 7 = DTMF Detection, Both Messages.
 - 8 = Not used at this time.
 - 9 = Not used at this time.
- 6. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Clearing Entries

- 1. Press the [#] button.
- 2. Then press HOLD.

Description

Determines the type, index (port) number and message length for the eight available Recorded Announcements (RAN). There are eight RAN Tables that can be programmed. Table 1 can be the answer port for unanswered in coming calls to a UCD group.

The type can be either a CO line port, an SLT port, Digital Voice Mail, or a RAN Hunt Group port. The index number specifies which circuit for the type of interface. The message length is used to match the maximum length of the message to the device that is used.

Digital Voice Mail can be used as a RAN Announcer for UCD Groups. A men u is provided to play the announcement, as well as collect DTMF digits and route the caller to an alternate destination. In addition, a place in queue and an average hold time message can be played to the caller. The ability to detect DTMF, play average hold time, and place in queue are all programmable in this area.

When using the Digital Voice Mail as a RAN Announcer, the following options are available:

Table 7-1: Voice Mail RAN Announcer Options

Option	Action
0	Do NOT take a menu action on any DTMF dialed by the caller; DO NOT play Place in Queue or Hold Time message. (Default)
1	Take menu action only on DTMF dialed by the caller; DO NOT play Place in Queue or Hold Time message.
2	DO NOT take menu action on any DTFM dialed by user; play the Place in Queue message only.
3	Take menu action on DTMF; play the Place in Queue message.
4	DO NOT take menu action on any DTFM dialed by user; play the Hold Time Message only.
5	Take menu action on DTMF; play Hold Time message.
6	DO NOT take menu action on any DTFM dialed by user; play the Place in Queue and Hold Time message. (No Message Duration for type [4] entries is required.)
7	Take menu action on DTMF; play the Place in Queue and Hold Time message.
8-9	Not used at this time



DVM software version must be 2.89 or greater to have RAN functionality.

8 Voice Mail Groups (VM)

This chapter provides the functional steps necessary to use the Voice Mail features with the *STARPLUS Triad 1/2/3* System. To implement the voice mail options desired, you must first enter the Programming Mode.

Voice Mail Programming

Programming Steps

1. Press FLASH and dial [65]. The following message displays.

```
VM 44G AAA LLL R XXX, XXX,
XXX, XXX, XXX, XXX, XXX
```

[G] = Voice Mail Group Number (0-7)

[AAA] = Alternate Group (440-447)

[LLL] = Le ave MailIndex

[R] = Retrieve Mail Index from outpulsing table for retrieving messages (0-7)

[XXX] = Voice Mail Station Numbers (ports) up to 24 stations maximum

The top left button in the flexible button field is lit for programming Voice Mail Group 440.

2. To change Voice Mail groups or enter further voice mail groups, press the appropriate flexible button, 1-8 (440–447) and perform the following procedures.



If installing a STARPLUS Voice Mail system, skip directly to Button 12 and enter voice mail ports.

Certain programming is required in the Voice Mail system connected to the Triad 1/2/3 System for proper operation.

Tone Mode Calling option (6#) must be programmed as leading digits in transfer sequence(s) of Voice Mail system to force tone ringing to key telephones in the hands-free mode.

Description

Up to 8 Voice Mail groups can be configured in the STARPLUS Triad 1/2/3 System. Each group can contain up to 24 Voice Mail designated ports, each of which interfaces with a port on an SLT card (or DIDB if using a Digital Voice Mail).

An externally provided Voice Mail system or Auto Attendant must be connected to the *Triad 1/2/3* System for Voice Mail or Auto Attendant operation. Voice Mail automatically handles unanswered calls. Station user can then retrieve messages left at their stations.

Auto Attendants can handle incoming calls and route callers to station users without intervention from the systems Attendant. Direct incoming ring to Voice Mail/Auto Attendant groups can be done directly through CO Line Ringing Assignments. By default, all Voice Mail stations are assigned to Pick-Up Group 1. The buttons on the digital telephone are defined as shown when entering the Voice Mail programming area:

VM G ROUP 440 ※ 1 Q	VM GROUP 441 ※ 2 W	VM GROUP 442 ※ 3 E	VM G ROUP 443 ※ 4 R
VM G ROUP 444 ※ 5 T	VM GROUP 445 ₩ <u>6 Y</u>	VM GROUP 446 ※ 7 U	VM G ROUP 447 ※ 8 Ⅰ
ALTERN ATIVE VM G ROUP # 9 0	LEAVE ፠ 10 P	RETRIEVE ፠ 11 A	STATION ASSIGN ₩ 12 S
₩ 13 D	₩ [14 F]	₩ [15 G]	₩ 16 H
<u>₩</u> 17 J	₩ 18 K	₩ 19 L	* 20 ;
₩ 21 Z	※ 22 X	※ 23 C	

Alternate Voice Mail Group

Programming Steps

- 1. Press the ALTERNATE VM GROUP flexible button (FLASH 65, Button #9).
- 2. Enter the pilot number (440 to 447) of the desired group.

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting an Alternate Voice Mail Group Assignment

- 1. Press [#] three times.
- 2. Then press the HOLD button.

Description

An Alternate Voice Mail Group may be programmed so that if all voice mail ports are in use, the call can be routed to an alternate group. This is useful when more than eight ports are required for voice mail traffic.

Leave Mail Index Entry

Programming Steps

- 1. Press the LEAVE flexible button (FLASH 65, Button #10).
- 2. Enter a valid Leave Mail Index number on the dial pad:
 - ☐ First Digit = Standard Leave Table number (0-7).
 - ☐ Second Digit = Leave Table to utilize when station is forwarded to VM in a No-Answer condition.
 - ☐ Third Digit = Leave Table to utilize when station is forwarded to VM in a Busy condition.

```
VM 44G AAA LLL R XXX, XXX,
XXX, XXX, XXX, XXX, XXX
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting a Leave Mail Index Entry

- 1. Press [#] in the desired location on the keypad.
- 2. Then press the HOLD button.

Example -- Tables 1,2,3 entered, to delete only Table 2, enter [1],[#],[3] and press HOLD).

Description

The Leave Mail Index specifies the outpulsing Table where the in-band digits required to connect a caller, forwarded into voice mail, to the called stations mail box are stored. By default, Voice Mail Group 1 (440) Leave Mail Index is set to zero (0).

Retrieve Mail Index Entry

Programming Steps

- 1. Press the RETRIEVE flexible button (FLASH 65, Button #11).
- 2. Enter a valid outpulsing table number (0-7) on the dial pad.

```
VM 44G AAA LLL R XXX, XXX,
XXX, XXX, XXX, XXX, XXX
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Deleting a Retrieve Mail Index Entry

- 1. Press the pound key once [#].
- 2. Then press the HOLD button.

Description

The Retrieve Mail Index specifies the outpulsing table where the In-Band digits required to connect a station user to their own mailbox are stored. By default, Voice Mail Group 1 (440) Retrieve Mail Index is set to 1.

Station Assignments

Programming Steps

- 1. Press the STATION ASSIGN flexible button (FLASH 65, Button #12).
- 2. Enter **SSS 1** to add a station.

-or-

Enter **SSS 0** to delete a station. (SSS = station number)

```
VM 44G AAA LLL R XXX, XXX,
XXX, XXX, XXX, XXX, XXX
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

Up to twenty-four (24) extension numbers may be programmed into a voice mail group. A flexible button may be programmed with a voice mail group pilot number (440-447). This button then acts as a DSS for that voice mail group when pressed and also serves as the message waiting indication for that VM group.

Voice Mail Outpulsing Table

Voice Mail In-Band Signaling

Programming Steps

1. Press FLASH and dial [66]. The following message displays:

```
VOICE PRE XXXXXXXXXXXE
MAIL Y SUF XXXXXXXXXXX
```

Y = Table Index (0-7)

X =Entered Digits (0-9, #, #, Pauses)

- 2. The TABLE 00 flexible button (Button #1) led is lit. To change tables, press the appropriate flexible button (Buttons 2–8) and perform the following procedures.
- 3. Dial one of the following, when required:
 - [0] = If a prefix is required
 - [1] = If a suffix is required
 - [#] = If entry is to be deleted
- 4. Enter up to 12 digits, including [*] and [*], TRANS button = pause.
- 5. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Clearing Entries in a Table

Press the pound key once [#], followed by HOLD.

Description

Entries in one of the eight Voice Mail Outpulsing Tables determine the In-Band signaling required for:

- Retrieving messages (allows stations to pick up mail).
- ☐ Leaving messages (allows stations to leave messages in voice mail).

TABLE 0 # 1 Q	TABLE 1 # 2 W	TABLE 2 ₩ 3 E	TABLE 3 ₩ 4 R
TABLE 4 ※ 5 T	TABLE 5 ⋇ 6 Y	TABLE 6 # 7 U	TABLE 7 ⋇ 8 I
DISCON NECT TABLE 8 # 9 0	* ■ 10 P	* 11 A	₩ 12 S
₩ [13 D]	* □14 F	₩ 15 G	* □16 H
* 17 J	₩ 18 K	₩ 19 L	* 20 ;
※ 21 Z	※ 22 X	※ 23 C	 ★ 24 V

Suggested Uses:

- ☐ Build a table (0 for example) for any additional digits other than the station extension number (e.g., Voice Mail Box number) needed for a caller to leave a message in a station's mailbox (Leave).
- ☐ Build another table (1 for example) for any additional digits needed for a mailbox holder to retrieve a message (Retrieve). By Default:

```
Table 0Prefix = P7 (Pause+7)Suffix = NoneTable 1Prefix = P7 (Pause+7)Suffix = \frac{*}{}Table 7Prefix = P7 (Pause+7)Suffix = 2
```



Entries are not required in the Outpulsing Table. However, a table must be referenced when setting up the Voice Mail groups.

Voice Mail Disconnect Table

Programming Steps

- Press the DISCONNECT TABLE 8 flexible button (FLASH 66, Button #9). This table number is used for the voice mail disconnect signal.
- 2. Enter up to 12 digits used for the disconnect signal, including [*] and [#], TRANS button = pause.

```
VOICE DIS E
MAIL
```

3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

A disconnect signal can be programmed into the *Triad 1/2/3* System to notify the VM system that a call has been abandoned. This is accomplished through in-band signaling. If a CO or Intercom disconnect signal is detected, the *Triad 1/2/3* System sends a series of DTMF digits programmed in the voice mail disconnect table to the voice mail port. This can be any digit stream up to 12 digits including [**] and [#].

This table serves all eight voice mail groups. When no digits are programmed in the disconnect table, silence is provided to the voice mail portfollowed by busy tone to aid the voice mail system to recognize that the caller has abandoned the call.

The *Triad 1/2/3* System provides Loop Supervision monitoring while a CO call is connected to a port designated as voice mail.



Loop Supervision must be enabled on the CO lines (in CO Line programming) for the VM Disconnect feature to operate.

By default, there are no entries in the Disconnect Table (Table #8).

Voice Mail In-Band Features

Programming Steps

Press **FLASH** and dial **[67]**. The following message displays:

VM FEATURES ENTER BUTTON NUMBER

Description

Entries into the Voice Mail In-Band Features determines the in-band signaling required for ICID Incoming ID Digits (forwards incoming CO callers directly to a Station's Voice Mail Box), and Forward to VM Groups (lets voice mail calls, upon reaching a forwarded to VM station, forward back into the voice mail system).



Voice Mail In-Band Digits

Programming Steps

1. Press the IN-BAND DIGS CO CALL flexible button (FLASH 67, Button #1). The following message displays.



- 2. Enter a 0 or 1 to Enable/Disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Voice Mail In-Band Digits feature enables and disables station in-band signaling. Incoming CO callers can be Station Call Forwarded into voice mail only when the ringing CO line is programmed to ring at one station. CO lines programmed to ring at an Attendant station, call forward into the voice mail system (if programmed to ring only at one Attendant station). Callers are presented to the main greeting (not the Attendant stations' mail box) even when ID digits are enabled. By default, ID digits for incoming CO calls is enabled.

Voice Mail Transfer / Forward

Programming Steps

1. Press the FORWARD TO VM GROUPS flexible button (FLASH 67, Button #2). The following message displays:



- 2. Enter a 0 or 1 to Enable/Disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Voice Mail Transfer/Forward feature forwards voice mail calls, upon reaching a forwarded to VM station, back into the voice mail unit. It is useful when VM ports are being used as both Auto Attendant and VM ports. This feature can be enabled/disabled for all VM groups. By default, the VM Transfer/Forward feature is enabled.

Voice Mail Broker

Programming Steps

Press the VM BROKER CALLS flexible button (FLASH 67, Button #3).
 The following message displays:



- 2. Enter a 0 or 1 to Enable/Disable this feature.
 - [0] = Disabled
 - [1] = Enabled
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Description

The Voice Mail Broker Calls feature modifies the operation of voice mail ports when disabled. Broker operation is unavailable when using supervised transfers to stations. When enabled, the current broker mode operation during supervised transfers remains in effect. This means the call to the station remains as the second party in a broker mode. If disabled, the VM port disconnects the call to a station and returns to the original party. By default, the VM Broker feature is enabled.

Voice Mail ID Digit Length

Programming Steps

 Press the VM ID DIGITS flexible button (FLASH 67, Button #4). The following message displays:

VM ID DIGITS	2-4
3	

- 2. Enter a valid number (2, 3, or 4) that corresponds to the number of digits to be dialed.
- 3. Press HOLD to save the entry. A confirmation tone is heard.

Voice Mail Index Table 8-13

Description

The Voice Mail ID Digit Length feature modifies the station and CO voice mail identification fields such that the maximum length of these fields is four digits.

Voice Mail Index Table

Programming Steps

To add Mailbox buttons, or change VM groups and ID numbers:

Press FLASH and dial [68]. The following message displays:

MAILBOX TBL: XXX VM GROUP: YYY VMID ZZZZ

The top left button in the flexible button field (FLASH 68, Button #1) is lit for programming VM Group 1 (440).

Changing VM Groups

- 1. Enter the VM Group number (440–447).
- 2. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Changing the VMID Number

- 1. Press the VMID NUMBER flexible button (FLASH 68, Button #2).
- 2. Enter the VMID number which corresponds to 0000–9999. A value of 0000 disables this table entry. In this case, no VM digits are sent.
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates.

Advancing to the Next VM Index Number

Press the NEXT flexible button (FLASH 68, Button #18). The Mailbox Table number increments by 1.

Returning to a Previous VM Index Number

Press the PREV flexible button (FLASH 68, Button #19). The Mailbox Table number decrements by 1.

8-14 Voice Mail Index Table

Changing to a Different VM Index Number

- 1. Press the SELECT flexible button (FLASH 68, Button #20).
- 2. Enter a Mailbox Table number (001–255).
- 3. Press HOLD to save the entry. A confirmation tone is heard and the display updates and shows the new Mailbox Table number.

Description

The Voice Mail Index feature provides an Attendant or station user a way to transfer a caller directly into a voice mail box. Station identification digits can be entered by the transferring party.

Using this feature, a caller can be transferred to a voice mail box when:

- ☐ A station user on the system is not forwarded to VM, or
- ☐ The destination voice mail box owner is not a station user.

CO trunks and internal calls may be transferred into voice mail using this feature. If no voice mail ID digits are dialed by the transferring station, the ID digits of the transferring station are sent to voice mail.

This feature permits dialing digits 0000-9999 when using the VM with ID feature. On a per station basis, the ID number that is sent to voice mail can be flexible.

By default, the station number is sent to the voice mail system. In administrative programming, there is a field to insert from 0-4 digits (0000–9999) which can be sent to the voice mail system in place of the station number. This is useful when a station user manually transfers a caller to a mailbox. By default, no mailbox buttons are assigned at key stations.

Voice Mail Index Table 8-15

VM GROUP ** 1 Q	VMID NUMBER ※ 2 W	* 3 E	₩ 4 R
* 5 T	 ★ 6 Y	* 7 ∪	* 8 I
* 9 0	※ 10 P	₩ 11 A	₩ 12 S
₩ 13 D	※ [14 F]	₩ 15 G	※ □16 H
※ 17 J	NEXT ※ 18 K	PREVIOUS # 19 L	SELECT ※ 20 ;
₩ 21 Z	※ 22 X	₩ 23 C	※ 24 ∨

9

Exception Tables

This chapter provides the functional steps necessary to use the Exception Tables with the *STARPLUS Triad 1/2/3* System. To implement the toll restriction options desired, you must first enter the Programming Mode.

Exception Tables Programming

The STARPLUS Triad 1/2/3 Systems offer a flexible means of applying toll restriction to stations or individuals. Dialing privileges (or toll restriction) is determined through assignment of station and CO line Class Of Service (COS).

Several types of restriction can be derived simply by programming COS assignments and CO line access to stations. This may, in some cases, be all that is necessary. However, when a more complex or specific type of restriction is desired the system offers two Allow and two Deny tables along with four special tables.

These tables can be programmed in a variety of ways to handle applications that are straight forward or applications that require a more complex arrangement. The Allow and Deny tables are assigned to stations based on their station Class of Service (COS) assignment. The Station (COS) interacts with CO Line COS assignments to provide several different types of dialing privileges.

	CO LINE CLASS OF SERVICE					
		1	2	3	4	5
S	1	Unrestricted	Unrestricted	Unrestricted	Canned Restricted*	Unrestricted
TA	2	Table A	Table A	Unrestricted	Canned Restricted*	Unrestricted
I	3	Table B	Unrestricted	Table B	Canned Restricted*	Unrestricted
O N	4	Table A&B	Table A	Table B	Canned Restricted*	Unrestricted
С О	5	Canned Restricted*	Canned Restricted*	Canned Restricted*	Canned Restricted*	Unrestricted
S	6	Intercom Only	Intercom Only	Intercom Only	Intercom Only	Intercom Only
	7	Canned Restricted*	Canned Restricted*	Canned Restri <i>c</i> ted*	Canned Restricted*	Unrestricted

Table 9-1: Class of Service

The Allow and Deny tables enable entries of either general or specific allow and deny codes such as allowing all [1-800] type calls, and/or denying all [1]+or [0]+ calls.

The Allow and Deny tables allow a maximum of 8 digits to be entered as allow or deny digits. This enables entry of certain area codes or office codes that can specifically be allowed or denied.

For example, the code [1-555-1212] may be entered in the Deny Table to deny local toll information calls. Each Allow Table contains 20 bins for entry of allow codes. Each Deny Table contains 10 bins for entry of deny codes.

^{*}Canned Restriction: No [0], [1], [#], [5] as first dialed digit, and 7-digit dialing limitation; plus 1-800, 1-888, 1-911, 1-611 are allowed, and 411, 976, and 555 numbers are denied. COS 7 allows all COS 5 and 10-digit local dialing.

Rules for Setting Up Allow/Deny Tables

Rule 1— If both tables (Allow and Deny) have no entries, no restriction is applied.

Rule 2— If entries are made in the Allow Table and only there, then only those numbers are allowed. All other dialing is denied.

Rule 3— If entries are made in the Deny Table and only there, then only those numbers are denied. All other dialing is allowed.

Rule 4— If there are entries in both Allow and Deny tables, the Allow Table is searched first, and if a match is found, it is allowed. If a match is not found, the Deny Table is searched; if a match is found, the call is denied. If the number does not match an entry in either table, it is allowed.

Table 9-2: Allow / Deny Table

	Allow Table	Deny Table	Coi			
	Allow lable	Delly Table	Dialed No.	A/D	Dialed No.	A/D
RULE 1	No Entries	No Entries	Allow			
RULE 2	Entries	No Entries	Found	A		
KULE 2			Not Found	D		
RULE 3	No Entries	Entries	Found		D	
NOLE 3					Not Found	А
	Entries	Entries	Found	А		
RULE 4			Not Found		Found	D
					Not Found	А

A special Do Not Care character (D) may be entered to allow or deny any digit dialed in that digit sequence.

Special Reference Tables

The *Triad 1/2/3* System also offers four special tables that can be referenced from within the two Allow Tables.

- ☐ Three of the special tables can be assigned to specific area codes that require further toll restriction definition.
- ☐ The fourth Special Table is reserved for use as a home area code table (numbers within the same area code as the site where the system is installed). This provides expanded a bility to apply toll restriction on numbers that are dialed within an area code.
- ☐ Each Special Table allows up to 800 entries (200–999). This offers the ability to allow every office code on an individual basis.

Related Items To Toll Restriction

CO/PBX Lines

When CO lines are marked as PBX lines the system first checks the PBX code table for a valid match. If the first digits dialed do not match the entries in the PBX code table the call is considered an attempt to call another PBX extension and no toll restriction is applied. If the first digits dialed are found in the PBX code table (FLASH 12), toll restriction starts with the next dialed digit.

Forced Account Codes

The system can be programmed to force the use of account codes on all restricted calls. When forced account codes are enabled an account code must be entered to place a call that is otherwise restricted through toll restriction. By entering an account code, the station dass of service becomes unrestricted. When account codes are forced on a system wide basis selected users may be instructed on how to enter account codes from any station and be allowed to dial unrestricted from a station that may otherwise be restricted. Use of account codes in this manner, as a traveling class of service, is however, not controlled by the system. Any station user with knowledge of how to enter account codes to override a stations toll restriction can do so.

SLT DTMF Receivers

When Single Line Telephones are connected to the *Triad 1/2/3* System and toll restriction is enabled, the DTMF receivers located in the system monitors the call for a programmed time period. While the DTMF receiver is monitoring the digits being dialed by a single line telephone, it is considered busy and not available for monitoring another SLT attempting to dial. When all DTMF receivers are busy, an SLT attempting to go off-hook does not receive dial tone until a receiver is available.

The *Triad 1/2/3* System allows up to 5 DTMF receivers for monitoring SLT dialing. If a system has heavy SLT usage, then to ll restriction may inhibit dialing by SLT stations.

Two (2) options are available to help alleviate this problem:

- 1. Shorten the SLT receiver timer [FLASH 01] [Button 12]. This frees up DTMF receivers faster, but may not provide the desired toll restriction for SLT stations.
- 2. Enable LCR and force LCR on SLT stations.

When the LCR database is set up, the 3-digit table allows entry of the number of digits to expect. When a SLT dials the appropriate number of digits, LCR releases the DTMF receiver and then be available for another SLT call.

LCR Versus Toll Restriction

LCR is not an alternative to toll restriction nor is toll restriction an alternate to LCR. They work best when programmed together. Toll restriction specifies station dialing privileges, and LCR provides call routing to appropriate lines.

LCR can enhance toll restriction by providing Store and Forward operation to analyze digits being dialed before a trunk is seized. This prevents users from by-passing toll restriction by taking advantage of the time required for a central office line to provide dial tone. LCR is recommended when toll restriction is enabled.

9-8 Toll Restriction

Toll Restriction

Entering Toll Table

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

1. Press **FLASH** and dial **[70]**. The following message displays:

EX TABLES ENTER BUTTON NUMBER

- 2. To program Allow/Deny tables, press the appropriate Table button and enter information as outlined in the following procedures.
- 3. To program Special Tables 1-3, it is necessary to associate an area code to the table. This is done by pressing the appropriate AREA CODE TABLE button and assign the area code.



Special Table 4 is reserved for the home area code and does not require an area code entry.

4. To display entries in any of the tables, press the DISPLAY TABLES button (FLASH 70, Button #12). Entries in the Allow/Deny tables display two at a time. Entries in the Special tables display six at a time in ascending order.

Description

All toll tables have been conveniently placed under one program code to allow entry of all toll restriction data.

Toll Restriction 9-9

The buttons on the digital terminal are defined as shown below when entering the Toll Restriction programming area:

ALLOW	DENY	ALLOW TABLE B ** 3 E	DENY
TABLE A	TABLE A		TABLE B
** 1 Q	** 2 W		※ 4 R
SPECIAL	SPECIAL	SPECIAL	SPECIAL
TABLE 1	TABLE 2	TABLE3	TABLE 4
₩ 5 T	※ 6 Y	₩ 7 U	₩ 8 I
AREA CODE	AREA CODE	AREA CODE	DISPLAY TABLES # 12 S
TABLE 1	TABLE 2	TABLE 3	
₩ 9 0	₩ 10 P	₩ 11 A	
₩ [13 D]	₩ [14 F]	₩ 15 G	₩ 16 H
₩ 17 J	₩ 18 K	₩ 19 L	* 20 ;
☀ 21 Z	 ★ 22 X	※ 23 C	

When the system searches the Allow and Deny tables, the entries are checked starting with Bin 01 and proceeding sequentially through the table to the last bin. In addition the Allow Table is always searched before looking at the Deny Table. Therefore, the entry order is important. Entries that are specific (e.g., [1716]) are placed ahead of entries that are more general (usually include Do Not Care digits; e.g., [1 D 1]).

Once a match is found in the Allow Table that references a Special Table, the number dialed are checked for an allowed code in the Special Table. If a match is not found in the Special Table, the system continues to check for a match in the next Allow or Deny Table to check. The system does not return to the table that sent the call to the Special Table.

9-10 Toll Restriction

Allow Table

Programming Steps

 Press the ALLOW TABLE A or ALLOW TABLE B flexible button (FLASH 70, Button #1 or #3). The following message is shown on the display telephone:



The first two bin locations display.

2. Enter a valid bin number (01–20) of the bin to be programmed.

It is recommended that:

- ☐ Bin 17 be reserved for an entry that references SPECIAL TABLE 1
- ☐ Bin 18 be reserved for an entry that references SPECIAL TABLE 2
- ☐ Bin 19 be reserved for an entry that references SPECIAL TABLE 3
- ☐ Bin 20 be reserved for an entry that references the Home Area Code Table, SPECIAL TABLE 4.
- 3. Enter the Allow Code.

[0-9], [*], [*] = Corresponding allow digits (numbers)

MUTE = Do Not Care digit (D)

TRANS = Search Special Table (S)

- 4. Press the HOLD button to save the entry. A confirmation tone is heard and the display now updates.
- 5. When all entries for one table are complete, press the flexible button for the next table.

Erasing a Bin Number

- 1. Enter a valid bin number.
- 2. Press the HOLD button.

Toll Restriction 9-11

Description

Each Allow Table contains 20 bin numbers. Each bin number may be up to 8 digits, including Do Not Care digits and Search Special Table commands. Entries into the Allow Table represent exceptions to numbers or codes that are to be allowed only if they would otherwise be restricted by an entry in the Deny Table.

Example

If [1 555 1212] is allowed but [1+] numbers are denied, by an entry into the Deny Table, [1 555 1212] is entered into the Allow Table as an allowed number.

- Allow Table A is referenced and searched first (before Deny Table A) when Station COS is 2 and CO Line COS is either 1 or 2.
- □ Allow Table B is referenced and looked at first (before Deny Table B) when Station COS is 3 and CO Line COS is either 1 or 3.
- □ When Station COS is 4 and CO Line COS is 1 both allow tables are looked at first (Allow Table A first, then Allow Table B) then both deny tables (Deny Table A first, then Deny Table B).

Do Not Care digits specify that the system should consider any digit dialed in that position as a match. Do Not Care digits should not be entered as the last digit in an entry, as this would be an unnecessary or meaningless command.

Search Special Table commands must be entered in a specific manner and should always be the last entries in the Allow Table. It is recommended that the last four bins (17–20) in the Allow Table be reserved for referencing the four special tables with the reference to the home area code (Special Table 4) always being located in bin number 20. Search Special table commands can only be entered into the allow tables.



Remember to enable 911 for all Classes of Service

9-12 Toll Restriction

Rules for Entries that Reference Special Tables

For entries referencing the first three special tables a specific area code must be identified (one for each table needed). Then make note as to how the numbers are dialed when dialing numbers to this area code (i.e., with a leading digit [1] or no leading digit [1]).

The entry into the Allow Table would be entered as follows:

- Leading Digit[1]: Enter [BB] [1] [XXX] [DDD] [S] or,
- □ Non-Leading [1]: Enter [BB] [XXX] [DDD] [S]

BB = Bin Number (Bins 17-19)

XXX = Area Code (must match AREA-X entry)

DDD = Do Not Care digit (three entries, DND button)

[S] = Search Special Table Command (TRANS button)

For an entry that references the Home Area Code table (Special Table 4) the entry may also be entered to expect or not expect a leading digit [1]. In fact, in some cases it may be desirable to enter both of the following entries:

- □ Leading Digit[1] Enter [BB] [1] [DDD] {S} and/or,
- □ Non-Leading [1] Enter [BB] [DDD] {S}

BB = Bin number (Bin 20)

DDD = Do Not Care digit (three entries, MUTE button)

{S} = Search Special Table Command (TRANS button)



If both leading digit [1] and non-leading digit [1] entries are made to reference the same table, it is necessary to place the leading digit [1] entry ahead of the non-leading digit [1] entry in the Allow Table.

Deny Table

Programming Steps

 Press the DENY TABLE A or DENY TABLE B flexible button (FLASH 70, Button #2 or #4). The following message displays:

DENY TABLE A 01E 02E

Toll Restriction 9-13

- 2. When the first two bin locations are displayed, enter the 2-digit bin number (01-10) of the bin to be programmed.
- 3. Enter the deny code:

```
[0-9], [*], [*] = Corresponding deny digits numbers MUTE = Do Not Care digit
```

- 4. Press the HOLD button to save the entry. A confirmation tone is heard and the display now updates.
- 5. When all entries for one table are complete, press the flexible button for the next table.

Erasing a Bin Number

- 1. Enter a valid bin number.
- 2. Press the HOLD button.

Description

Each Deny Table contains ten bin numbers. Each bin number may be up to eight-digits including {Do Not Care} digits. Entries in the Deny Table represent numbers or codes that are to be denied or restricted. Common entries would be [1] for restricting all [1+] type of calls. Exceptions to this restriction would be entered into the Allow Table.

- Deny Table A is referenced and searched only after the Allow Table A is checked when Station COS is 2 and CO Line COS is either 1 or 2.
- □ Deny Table B is referenced and searched only after the Allow Table B is checked when Station COS is 3 and CO Line COS is either 1 or 3.
- ☐ When Station COS is 4 and CO Line COS is 1, both allow tables are looked at first (Allow Table A first, then Allow Table B) then both deny tables (Deny Table A first, then Deny Table B).
 - Do Not Care digits specify that the system should consider any digit dialed in that position as a match. Do Not Care digits should not be entered as the last digit in an entry.
 - Search Special Table commands cannot be entered into the Deny tables.

9-14 Toll Restriction

Special Table

Programming Steps

To program a Special Table, it is first necessary to assign an area code to the table (except for the home area code).

1. Press the appropriate AREA CODE TABLE (#1 to #3) flexible button (FLASH 70, Buttons #9 to #11). The following message displays:



- 2. Enter a valid area code.
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Entering Office Codes in a Special Table

 Press the SPECIAL TABLE (#1 to #4) flexible button (FLASH 70, Buttons #5 to #8) that corresponds to the area code programmed above. The following message displays:



XXX = Area Code

2. Enter the office codes that are to be allowed or removed as follows:

XXX [1] = Allow Code

XXX [0] = Remove Code from the list (XXX = An office code from 200 to 999)

3. Press HOLD after every code entered. A confirmation tone is heard and the display updates. Multiple codes may be entered in a row. The display updates showing the first six codes in ascending order.

Toll Restriction 9-15

Description

The Special Tables provide greater flexibility in designing a toll plan for a particular site.

- ☐ Each Special Table allows entry of up to 800 office codes (200–999).
- ☐ Three of these tables must be assigned an area code by which they are referenced. The fourth table is reserved for the home area code and requires no area code entry.
- ☐ The Special Tables are referenced through entries in the allow tables. Four area codes, including the home area code, can be referenced to these special tables for further definition. When a Special Table is referenced, entries must be made in the Special Table specifying what office codes are allowed.
- □ Codes can be added to the Allow list or removed from the list. When a Special Table is checked for a match to a 3-digit code and not found, the system continues to search the next Allow/Deny Table to be checked. The system does not return to the Allow Table which routed the call to the Special Table. By default, no codes are on the Allow list.

ALLOW TABLE A	DENY TABLE A	ALLOW TABLE B	DENY TABLE B
₩ 1 Q	※ 2 W	☀ 3 E	₩ 4 R
SPECIAL TABLE 1	SPECIAL TABLE 2	SPECIAL TABLE 3	SPECIAL TABLE 4
₩ 5 T	★ 6 Y	₩ 7 U	※ 8 I
AREA CODE TABLE 1	AREA CODE TABLE 2	AREA CODE TABLE 3	DISPLAY TABLES
₩ 9 0	※ 10 P	※ 11 A	☀ 12 S
₩ 13 D	₩ [14 F]		₩ [16 H]
※ □17 J		₩ 19 L	* 20 ;
₩ 21 Z	※ 22 X	※ 23 C	※ 24 V

9-16 Toll Restriction

Display Toll Table Entries

Programming Steps

Press the DISPLAY TABLES flexible button (FLASH 70, Button #12) while entering information into a table.

Viewing Entries in an Allow or Deny Table

Two entries at a time are displayed on the bottom line of the display.

- 1. Press the DISPLAY TABLES button again, the next higher bins displays.
- 2. When the last entries are displayed, press the DISPLAY TABLES button again to show the first two entries.

```
ALLOW TABLE A
01 XXXXXXXE 02 XXXXXXXX
```

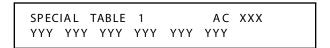
X = Allow or Deny Code

E = End of Entry

Viewing Entries in a Special Table

Six 3-digit codes allowed display in ascending order starting with the lowest entry.

Press the DISPLAY TABLES button again, the next 6 entries display. This continues until all codes are displayed.



XXX= Area Code YYY= Allowed Office Code

Description

To view all entries in the toll tables using the display on the Executive telephone, press, the DISPLAY TABLES flexible button (FLASH 70, Button #12) multiple times to scroll through the entries.



It is recommended to view all entries in the Allow and Deny Table before leaving programming. Entries can be entered near the bottom of the list for searching the special tables or entries made in error. Viewing the entire Allow Table ensures proper entry and operation.

10 Least Cost Routing (LCR)

This chapter provides the functional steps necessary to use the LCR features with the *STARPLUS Triad 1/2/3* System. To implement the most economical routes for an outside call, you must first enter the Programming Mode.

Introduction 10-3

Introduction

Least Cost Routing (LCR) was designed to select the most economical programmed route for an outgoing call. When a station user dials an outsiden umber, the LCR feature analyzes the number and then automatically chooses an outside line from the group that has been programmed as most economical.

The LCR feature puts the responsibility of choosing the least expensive route for each area code and exchange code on the system administrator, not on the station user. In order to make a routing decision, the LCR feature is programmed in the system database. The successful operation of this feature is completely dependent on the accuracy of the programming.

There are eight (8) different tables which are set up to monitor the dialing of digits of a station and to select the best route programmed for the call.

- 1. 3-Digit Area/Office Code Routing Table
- 2. 6-Digit Office Code Routing Table
- 3. Exception Table
- 4. Route List Table
- 5. Insert/Delete Table
- 6. Daily Start Time Table
- 7. Weekday (Weekly) Schedule
- 8. Toll Information Table

10-4 LCR Tables

LCR Tables

3-Digit Table

The 3-Digit Table is divided into two sections: Leading 1 (1 is dialed before the number) and Non-Leading 1 (no 1 is dialed before the number). This gives the system the ability to handle call routing in areas that require a 1 before a long distance number as well as in areas that do not require the 1.

6-Digit Table (Office Codes)

The 6-Digit Table can accommodate 20 indexes. Each index is associated with an area code and can be programmed to route up to 800 office codes using 1 of the 16 possible routes. Several indexes can be used with the same area code to provide routing flexibility.

Daily Start Time Tables

The Daily Start Time Tables allow the user to match the Time Periods discount structure to the carriers rate schedule.

Default LCR Database

In an effort to decrease installation and set-up time usually associated with LCR, a default LCR Database has been in corporated. The default LCR Database provides basic routing for all local and long distance dialing.

Exception Tables

The Exception Table is used to route operator assisted calls and any other calls which would use a one or two-digit number rather than a three-digit area code.

LCR Tables 10-5

Insert/Delete Tables

There are 20 Insert/Delete Tables. Up to 20-digits, including pauses, can be inserted and up to 16-digits deleted. To insure that a pause is inserted in LCR at default, the database programming has been changed to add a pause in each of the 20 LCR Insert and Delete Tables and Insert Table 0 in each of the route tables.

LCR Routing for Toll Information

The LCR Routing for Toll Information feature adds provisions to the LCR call processing which allows common call routing for all toll information calls. 1-(XXX)555-1212, (XXX)555-1212, 1-555-1212, and 555-1212 calls are intercepted and sent to a selected route in the Route List Table. Numbers dialed are integrated and if it is a toll information call, preceded with or without an area code or a leading digit 1, the call is sent to the route designated in programming.

Route List Tables

Up to 16 different routes can be programmed. Each route can contain up to four route lists, one for each of the four time periods. Up to seven CO line groups (routing choices) and their corresponding Insert/Delete Tables may be programmed within each route list.

Weekly Time Tables

The least costly route for a particular dialed number may not be the same at different times of the day or on different days of the week. For these situation, there are two Time-of-Day tables: a Daily Start Time Table and a Weekly Schedule Table. The Weekly Time Table determines which one of the four Routes LCR to use based on the Time-of-Day and Day-of-the-Week.

10-6 LCR Tables

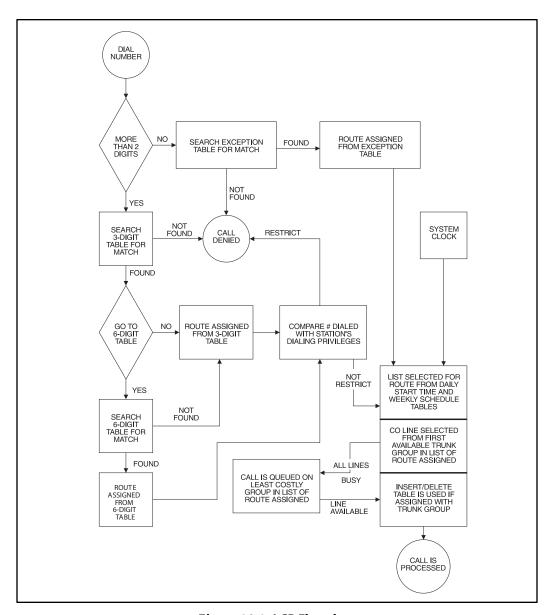


Figure 10-1: LCR Flowchart

LCR Operation 10-7

LCR Operation

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

1. Press **FLASH** and dial **[75]**. The following message displays:

LCR TABLES ENTER BUTTON NUMBER

2. There are eight tables which can be programmed here for LCR (you must also program LCR Class of Service in Station Programming). Use the procedures listed below to program these LCR tables.



It is extremely important that the worksheets be completed before programming the LCR tables.

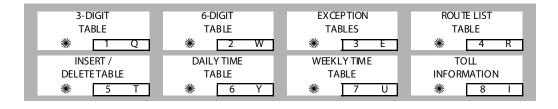
Description

The Least Cost Routing (LCR) feature allows automatic selection of the most economical trunk according to the number dialed and the time of the day and day of the week. There are eight (8) different tables set up to monitor the dialing of digits of a station and to select the best route programmed for the call.



Flash 05, button #7 must be used to enable the Least Cost Routing feature.

The buttons on the digital telephone are defined as shown when entering the LCR Tables Programming area:



10-8 LCR Operation

3-Digit Area / Office Code Table

Programming Steps

1. Press the 3-DIGITTABLE flexible button (FLASH 75, Button #1). The following message displays:

3 DIGIT ROUTING TABLE ENTER L NNN RRY PP HOLD

L = [0] for Non-Leading 1 (1 not dialed), [1] for Leading 1 (1 is dialed)

NNN = A rea/Office Code

RR = Route List Number 00-15

Y = [0] Do not go to 6-digit table, [1] Go to 6-digit table

PP = Number of digits expected to be dialed.

2. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Description

Both Leading 1 and Non-Leading 1 tables include all area codes (NPAs), and office codes (NXXs), from 000 to 999, including such numbers as 911, 411, etc. A complete entry into these tables include a route list table to be used, if the 6-digit table is to be checked and the number of digits likely to be dialed (Example: 7 or 10 digits). All local office codes must be entered in this table even if they do not require long distance calling.

The number of digits to expect entry aids the system in identifying when the last digit is dialed and to begin routing the call. This also helps to free SLT DTMF receivers if SLT traffic in the system is heavy.

For international calls, use 00 as number of digits to expect. This causes the system to wait five seconds (or inter-digit time-out) after user dials last digit before the system accesses a CO Line and dials out.

LCR Operation 10-9

6-Digit Office Code Table

Programming Steps

1. Press the 6-DIGITTABLE flexible button (FLASH 75, Button #2). The following message displays:

```
6 DIGIT ROUTING TABLE
ENTER * AAA RR NNN HOLD
```

*= [0] to remove codes, [1] to add codes
AAA = Area Code
RR = Route Number 00-15
NNN = Office Code

- 2. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.
- 3. Enter additional office codes to be programmed into the same Area Code/Route Table, pressing HOLD after each office code entry.
- 4. Press a flexible button to program a different table.

Deleting All Entries in an Area Code/Route Table

Enter [0 AAA RR ###].

Description

The 6-Digit Office Code Table determines a route for one or a group of individual office codes within an area code. Certain office codes within an area code can be given unique or special routing. If the office code dialed is not found in the 6-digit Office Code Table, the call is then routed according to the route list table as was entered in the 3-digit table.

The system allows twenty 6-digit Area/Office code tables that may be used to route specific office codes within an area code. Each table routes calls for a common area code to a specified route. All entries made to a table route those office codes to the specified route list table. An area code may be entered into more than one 6-digit table with different routes specified.

10-10 LCR Operation

Exception Code Table

Programming Steps

1. Press EXCEPTION TABLES flexible button (FLASH 75, Button #3). The following message displays:

```
EXCEPTION CODE TABLE
ENTER * XX RR HOLD
```

*=[0] to remove code from table, [1] to add code to table

 $XX = Exception \ codes \ for \ single \ digit \ codes, \ press \ MUTE \ button \ as \ 2nd \ digit.$ (The [*] may be entered as the 1st digit only.)

RR = Route Table Number 00-15

- 2. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.
- 3. Press **FLASH 75, Button #3** again for further entries. Up to 20 Exception Codes may be programmed in this table.

Description

The Exception Code Table is used for operator calls and any other calls that use a one- or two-digit entry, rather than a three-digit area code.

Route List Table

Programming Steps

1. Press the ROUTE LIST TABLE flexible button (FLASH 75, Button #4). The following message displays:

```
ROUTE LIST TABLE
RR T GG DD L
```

RR = RouteList Table Number 00–15
T = Time Period Route List 1–4
GG = CO Line Group 00–23
DD = Insert/Delete Table reference 00-19 (## for none)
L = LCR Class of Service (LCOS)

LCR Operation 10-11

- 2. To create an entry, dial:
 - a. [RR]
 - b. [T]
 - c. [GG]
 - d. [DD]
 - e. [L]
- 3. Press [HOLD] to save the entry. A confirmation tone is heard and the display updates.
- 4. To enter additional CO Line groups in the same Time Period Route List number:
 - a. Dial [GG]
 - b. Dial [DD]
 - c. Dial [L]
 - d. Press [HOLD]

Entering Data for a Different Time Period Route List

- 1. Press program **FLASH 75, Button #4** and enter all data (RR T GG DD L).
- 2. Repeat the above to program a new Route Number 00 to 15 or press a flexible button to program other LCR information.
- 3. To advance to the next entry, use Button #18.
- 4. To return to a previous entry, use Button #19.

When **Call Cost** feature is enabled in FLASH 05, Button #11, the following message displays.

```
ROUTE LIST TABLE
RR T CCC GG DD L
```

RR = Route List Table Number 00-15

T = Time Period Route List 1-4

CCC = Cost for one minute (\$ 0.00 - \$ 9.99)

GG = *COLine Group 00-23*

DD = Insert/Delete Table reference 00-19 (## for none)

L = LCR Class of Service(LCOS)

10-12 LCR Operation

Description

Each of the 16 Route List Tables available contains four Time Period Routing Lists, one for each of the 4 daily start time periods. Within each Time Period Route List up to 7 CO (outside) line groups and their corresponding Insert/Delete table, if any, and LCRClass Of Service Priority are programmed on a perline group basis.

When routing a CO call through LCR, CO Line groups are accessed in sequence so that the first line group entered represents the least costly (and first selected) and the last line group entered represents the most costly (and last selected).

The Route List Table references many other tables when processing a call for routing. First, the Daily Start Time Table is referenced to determined what start time entry should be checked in the Weekly Schedule Table. The corresponding entry in the weekly schedule table depending on the day of the week then determines which Time Period Route List should be used with in the Route List Table.

The system then begins to check for idle lines in the first entered CO line group and proceeds until an idle line is found. While it is searching for an idle CO line the Station LCR COS is checked against the entries for LCR COS Priority of the specific CO line groups (see *LCR COS Priority* explanation).

- When an idle CO Line is found with a LCR priority equal to or higher than the stations LCR COS, then a final check is made to determine if an Insert/Delete Table should be referenced.
- ☐ When all of the tables and entries are checked the system then processes the call on the outside CO line.



Make sure you made entries into all Time Period Route Lists referenced in the weekly schedule table.

LCR COS Priority

A station should be assigned a class of service for LCR. The LCR COS can be between 0 and 6, with 0 being unrestricted and 6 being the most restrictive. Within the time period route List table, line groups are given an LCR COS Priority assignment between 0 and 6.

LCR Operation 10-13

A station using LCR is able to use only those CO (outside) line groups with a priority assignment of equal or higher value than the station's LCR Class of Service (e.g., a station with LCOS 3 can use line groups with a priority between 3 and 6).

LCR CO Line Group Priority **Allow Access** To Route 3 0 1 2 4 5 6 S 0 Υ Υ Υ Υ Υ Υ Υ Т 1 Υ Υ Υ Υ Υ Υ Ν Α 2 Ν Ν Υ Υ Υ Υ Υ Υ 3 Ν Υ Υ Υ Ν Ν C R Υ 4 Υ Υ Ν Ν Ν Ν 5 Ν Ν Ν Ν Ν Υ Υ C 0 6 Ν Ν Ν Ν Ν Ν Υ S

Table 10-1: LCR Class of Service Table

N = Cannot Use Line Group

Y = Has Access to Line Group

Insert / Delete Table

Programming Steps

1. Press INSERT/DELETE TABLE flexible button (FLASH75, Button #5). The following message displays:

DIGIT INSERT / DELETE ENTER TT X DDD HOLD

10-14 LCR Operation

- 2. Enter the table information as follows:
 - ☐ TT = Insert/Delete Table Number 00–19
 - X = [0] Pre-Delete numbers (first digits dialed in the number), -or-
 - [1] Pre-Insert numbers (insert digits in front of number dialed, -or-
 - [2] Post-Insert numbers (insert digits behind number dialed).
 - DDD = Digits (up to 16-digits may be deleted from the beginning of the number dialed and up to 40 digits can be inserted (20 pre and 20 post).
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.

Adding and Deleting Numbers in the Same Table

- 1. Enter the different Insertion/Deletion tables in step 1.
- 2. Enter as separate entries using the same table number.
- 3. In the Insert Tables for LCR Programming, press the TRANS button for a pause.
 - □ The [*] and [#] digits are allowed as valid digits for inserting digits dialed over the network.
 - The [*] and [*] are valid entries for adding digits in both the pre (in front of) or post (behind the number) tables.
 - The [*] and [#] cannot be used as delete characters in the Delete tables.

Deleting a Table

Enter a valid table number and press the HOLD button.

Description

Digits can be either added or deleted when dialing a number. For instance, if a user dials a long distance call that should be placed on a foreign exchange (FX) line, the digit [1] and the three-digit area code (NPA) dialed by the user must be deleted before the call can be placed on that FX line. An Insert/Delete table can be programmed to do this.

LCR Operation 10-15

Digits can also be added to a number that has been dialed by the user. For instance, Other Common Carrier (OCC) access codes and authorization (ID) codes can be automatically inserted by the system either in front of, and/or behind the number dialed.

There are twenty Insert/Delete Tables and each allows entries in a delete table and a pre- and post insert table. Up to 40 digits (including pauses) can be inserted (20 pre and 20 post) and up to 16 digits can be deleted. Digits can be inserted before or after the number dialed, but can be deleted only from the start of the number dialed.

To ensure that a pause is inserted in LCR at default, the database programming was changed to add a pause in each of the 20 LCR Insert and Delete Tables and insert table 0 in each of the route tables.

Daily Start Time Table

Programming Steps

1. Press the DAILY START flexible button (FLASH 75, Button #6). The following message displays:

```
DAILY START TIME TABLE
HHMM HHMM HHMM HOLD
```

- 2. Enter times in military format (2400 hours) in succession.
- 3. Press the HOLD button to save the entry. A confirmation tone is heard and the display updates.
 - □ Default times are 0800, 1700, 2300 (8 AM, 5 PM, and 11 PM), and the fourth time is disabled (####).
 - □ To change a Start Time, all times must be re-entered. Four pound signs [####] are displayed if nothing is entered for a specific time.

Description

The Daily Start Time Table correlates the LCR Routing Table to the time sensitive discount structure offered by the customers carrier.

10-16 LCR Operation

Example -- In the most common situation:

☐ The most expensive rate period is between 8:00 am and 5:00 pm, often called the day rate.

- ☐ The first discount period usually starts at 5:00 pm and runs until 11:00 pm, often called Evening Rates.
- ☐ The remaining time (from 11:00 pm until 8:00 am) is referred to as night time rates which usually have the biggest discount.

Weekly Time Table — With the wide selection of Common Carriers, the least costly route for a particular area code may be different at different times of the day. To accommodate this situation, this table and the Weekly Time Table work together, dividing the day into four possible time periods. By default these tables are set at the standard divisions of 8AM, 5PM, and 11PM. However, these times can be changed.

Entries in the Daily Start Time table are used to select the time period to reference in the weekly schedule. Based on the time a call is placed, the daily start time table selects the time period to choose in the weekly schedule. The weekly schedule is then used to determine the time period route list in the Route List Table to use for routing the call for a particular day of the week. Times are entered in the 24-hour format.

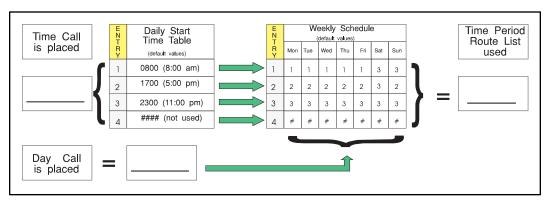


Figure 10-2: Daily Start Time and Weekly Schedule Tables

LCR Operation 10-17

Weekly Schedule Table

Programming Steps

1. Press the WEEKLY SCHED flexible button (FLASH 75, Button #7). The following message displays:

```
WEEKLY SCHEDULE TABLE
ENTER D T T T HOLD
```

D = Day of the Week:

[0] = Monday

[1] = Tuesday

[2] = Wednesday

[3] = Thursday

[4] = Friday

[5] = Saturday

[6] = Sunday

T = Time Period Route List (1-4) to use for the time-of-day (based on the Daily Start Time table). Enter values for all time periods specified in the Daily Start Time table for that day.

First T = Time Period Route List for the FIRST Daily Start Time (applies to all Route List tables).

Second T = Time Period Route List for the SECOND Daily Start Time (applies to all Route List tables).

Third T = Time Period Route List for the THIRD Daily Start Time (applies to all Route List tables).

Fourth T = Time Period Route List for the FOURTH Daily Start Time (applies to all Route List tables).

2. Press the HOLD button after each complete daily entry. A confirmation tone is heard and the display updates.

10-18 LCR Operation

Description

The Weekly Schedule Table determines what Time Period Route List to use within the Route List Table. When a call is placed and ultimately sent to a route list (call is not denied) based on the time of day the call is placed, the Daily Start Time Table selects the time period to reference in the Weekly Schedule Table.

The Time Period Route entered for the specified time period, as determined in the Daily Start Time Table and based on the day of week, is then selected and the call ia routed according to the specified Time Period Route List.

Example

If a call is placed at 5:45 pm on a Monday, then according to the Daily Start Time Table (using default values) the entry for time period two of the weekly schedule is checked. Because it is Monday the entry for time period two on Monday is used and the result is that the Time Period Route List number two (again using default values) is used for all routes. Thus, the call is routed according to the entries in Time Period Two Route List no matter what route (00–15) is selected.

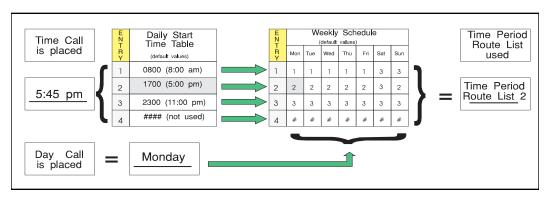


Figure 10-3: Daily and Weekly Start Time Table

LCR Operation 10-19

LCR Routing for Toll Information

Programming Steps

1. Press the TOLL INFO flexible button (FLASH 75, Button #8). The following message displays:

LCR ROUTE FOR 555 - 1212 ENTER ROUTE

- 2. Enter a valid Route List number (00–15) for the Route to be referenced in the Route List table.
- 3. Press the HOLD button after programming the Route number. A confirmation tone is heard and the display updates.
- 4. Enable LCR at this point.

Description

The LCR Routing for Toll Information feature adds provisions to the LCR call processing which allows common call routing for all toll information calls. 1-(XXX) 555-1212, (XXX) 555-1212, 1-555-1212, and 555-1212 calls are intercepted and sent to a selected route in the Route List Table.

Numbers dialed are integrated and if it is determined to be a toll information call, either preceded with an area code or without or with a leading digit 1 or not, the call is sent to the route designated in programming.

By default, Toll Information Calls are sent to Route List Table Zero (0) which allows toll information calls to be placed on the system at default. A Toll Information route is chosen over a 3-digit or 6-digit route assignment if both are assigned. Entering the pound key twice [##] denies all Toll Information Calls.

10-20 LCR Operation

Default LCR Database

Programming Steps

In an effort to decrease installation and set up time usually associated with LCR, a default LCR database was incorporated.

Description

The default LCR database provides basic routing for local and long distance dialing. Default entries have been made in the 3-Digit Table for local office codes (NNXs) and all area codes (NPAs). Six routes have been established with a default database for routing of all calls under default.

11 Initializing Database Parameters

This chapter describes the procedures and steps necessary to initialize the system database, returning any programmed data to its original or default value.

Introduction

Programming Steps

If the system is in the programming mode, continue using the program codes. If starting to program here, enter the programming mode.

Press FLASH and dial [80]. The following message displays:

INITIALIZE DATABASE ENTER BUTTON NUMBER

Description

This section lets portions of the database be initialized individually. The initialization occurs regardless of the position of switch #8 on the MPB. The only way to initialize the entire database is to move switch #8 on the MPB board to the ON position and reset or power off/on the system. A System Reset (button #20) command is also included in this section for clearing meantime errors without initializing the database.

The buttons on the key telephone are defined as shown:

SYSTEM PARAMETERS	CO LINE ATTRIBUTES # 2 W	STATION ATTRIBUTES # 3 E	PORT - STA/CO ** 4 R
EXCEPTION TABLES # 5 T	SYSTEM SPEED	LCR	ICLID/DID
	NUMBERS	TABLES	TABLES
	₩ 6 Y	₩ 7 U	業 <u>8 I</u>
DIRECTORY	HUNT	ACD* OR U CD	VOICE MAIL
DIAL TABLE	GROUPS	GROUP S	GROUPS
₩ 9 0	₩ 10 P	₩ 11 A	※ 12 S
DID-TIE	VERIFIED	ISDN	
PARAMETERS	ACCT CODES	PARAMETERS	
₩ 13 D	₩ 14 F	₩ 15 G	
* 17]	₩ [18 K]	₩ [19 L]	SYSTEM RESET ※ 20 ;
☀ 21 Z	※ 22 X	₩ 23 C	※ 24 V

11-4 Introduction

Initialize System Parameters

Programming Steps

1. Press the SYSTEM PARAMETERS flexible button (FLASH 80, Button #1). The following message displays:

```
INITIALIZE SYS PARAM
PRESS HOLD
```

2. Press the HOLD button. A confirmation tone is heard.

Description

The System Parameters may be initialized setting all data fields to their original, default values. The following data fields are returned to their default values upon initializing the System Parameters.

Table 11-1: System Parameter Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 01		SYSTEM TIMERS	
	1	System Hold Recall Timer	060 sec
	2	Exclusive Hold Recall Timer	180 sec
	3	Attendant Recall Timer	1 min
	4	Transfer Recall Timer	45 sec
	5	Preset Forward Timer	10 sec
	6	Call Forward No/Answer Timer	15 sec
	7	Pause Timer	2 sec
	8	Call Park Recall Timer	180 sec
	9	Conference/DISA Timer	10 min
	10	Paging Time-out Timer	15 sec
	11	CO Ring Detect Timer	3=300 ms
	12	SLT DTMF Receiver Timer	20 sec
	13	Message Wait Reminder Tone	000=Disabled
	14	SLT Hook Flash Timer	10 (1 sec)
	15	SLT Hook Flash Debounce Timer	030=300 ms
	16	SMDR Call Qualification Timer	30 sec
	17	Automatic Call Back Timer	03 sec
	18	Reminder Ring Timer	00 sec
	20	Flexible Inter-Digit Timeout	5 sec
FLASH 02		A DDITIONAL SYSTEM TIME	RS
	1	Repeat Redial Timer	60 sec
	2	Attendant Display Time r	01 sec
	3	Call Coverage Ring Timer	5 sec
	4	Modem Answer T / O	25 sec
	5	Pulse Dial Inter-Digit Timer	300 ms
	6	Program mable DTM F Time Operation	1=100 ms

11-6 Introduction

Table 11-1: System Parameter Defaults

Program Code	Flex Button	Features	Default Value (after initialization)		
FLASH 05	SYSTEM FEATURES 1				
	1	Attendant Override	Disabled		
	2	Hold Preference	System		
	3	External Night Ring	Disabled		
	4	Executive Override Warning Tone	Enabled		
	5	Page Warning Tone	Enabled		
	6	Background Music Channel	Enabled		
	7	Least Cost Routing	Disabled		
	8	Account Codes - Forced	Disabled		
	9	Group Listening	Disabled		
	10	Idle Speaker Mode	Disabled		
	11	Call Cost Display	Disabled		
	12	Music-On-Hold	Enabled		
	13	Call Qualifier Tone	Disabled		
FLASH 06		SYSTEM FEATURES 2			
	1	Barge-In Tone	Enabled		
	2	CO Ring Tones	Enabled		
	3	Verified Account Codes	Disabled		
	4	Call Forward Display	Enabled		
	5	External Day Ring	Disabled		
	6	Overflow Station Forward	Disabled		
	7	Direct Transfer Mode	Enabled		
	8	Station ID Lock	Disabled		
	9	LCR Call Progress	Enabled		
	10	One-Touch Recording Warning Tone	Enabled		
	11	Ringback on Transfer	Disabled		
	12	ACD Agent Recall	Disabled		
	13	911 Feature	Disabled		
	14	Enhanced 91 1	Disabled		
	15	VMID Station Numbers	STA Numbers = VMID		

Table 11-1: System Parameter Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 07		FLASH RATES	
	1	Incoming CO Line Ringing	Red 480 ipm flutter
	2	Incoming Intercom Ringing	Red 120 ipm flutter
	3	Call Forward Button	Red Steady On
	4	Message Wait/VM Button	Red Steady On
	5	Message Call Back – DSS/BLF	Red 120 ipm flutter
	6	Do Not Disturb – DSS/BLF	Red 60 ipm Dbl Wink
	7	Auto CallBack – DSS/BLF	Red 120 ipm flash
	8	UCD Available/Unavailable – DSS/BLF	Red 60 ipm Dbl Wink
	9	Transfer CO Ringing	Red 120 ipm flash
	10	Recall CO Ringing	Red 480 ipm flutter
	11	Queued CO Ringing	Green 480 ipm flutter
	12	Exclusive Hold	Green 120 ipm flash
	13	Syste m Hold	Red 60 ipm Dbl Wink
	14	In Use Hold (I-Hold)	Green 60 i pm flash
	15	Camp-On Button	Red 120 ipm flash
	16	Call Back Button	Red 120 ipm flash
	17	Line Queue Button	Red 480 ipm flutter
	18	Do Not Disturb Button	Red Steady On
	19	Intercom Hold Button	Red 15 ipm flash
FLASH 09	1-6	MOH Assignments	None
	7	E911 Power Failure Station	None
FLASH 10	-	Attendant Station Assignment	STA 100
FLASH 11	1-4	System Time And Date	MMM/DD/YY, 12-hour display
FLASH12		PBX Dialing Codes	None
FLASH13	1-4	Executive/Secretary Pairs	None
FLASH14	1-6	On-Board Relay	None

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Table 11-1: System Parameter Defaults

Program Code	Flex Button	Features	Default Value (after initialization)		
FLASH 15	BAUD RATE ASSIGNMENTS				
	1	Port #1 (On-Board RS-232C)	9600 Baud		
	2	Port #2 (On-Board Baud Modem)	2400 Baud		
	3	Port #3 (SIU2 Module RS-232) Optional	9600 Baud		
	4	Port #4 (SIU2 Module RS-232) Optional	9600 Baud		
FLASH 16	1-3	Networking Tables	None		
FLASH 20	1	DISA Access Code	100		
	2	Database Admin Password	3226		
FLASH 21	1	SMDR Enable/Disable	No		
	2	Long Distance/Local Assignment	Long Distance		
	3	Character Print Assignment	80		
	4	Baud Rate Display	9600		
	5	SMDR Port Assignments	Port #1		
FLASH22	SH 22 1 Automatic/Manual Operation		Manual=None; Auto= M-F 08:00 17:00 Sat-Sun ##:## ##:##		
	2-8	Day of Week Programming	None		
FLASH 23	1-4	Directory Dialing Table	None		
FLASH 24	1-12	Card Slots (0-11)	Slot 0		
	15/16	Power Supply Types (0-1)(<i>Triad 3</i>)	10 Amp		
	17-20	Cabinets (0-3)	Cabinet 0		
FLASH30	1-12	Hunt Group	None		
	13	Station/Pilot/Pilot Ring AllHunting Assignments	Pilot		
FLASH 31	1	Verified Account Code Entry	None		
	2	COS	None		
FLASH 39	1-24	CO Group Queuing	Enabled		

Initialize CO Line Attributes

Programming Steps

1. Press the CO LINE ATTRIBUTES flexible button (FLASH 80, Button #2). The following message displays:

INITIALIZE CO LINES PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

The CO Line parameters may be initialized setting all data fields to their original, default values. The following data fields are returned to their default value upon initializing the CO Line Attributes.

Table 11-2: CO Line Attribute Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 40	1	DTMF/Dial Pulse Programming	DTMF
PAGE A	2	CO/PBX Programming	СО
	3	UNA Programming	Enabled
	4	DISA CO-to-CO (Per CO Line)	Enabled
	5	Privacy	Enabled
	6	Loop Supervision Programming	4=400 ms
	7	DISA Programming	None
	8	CO Line Group Programming	Group 1
	9 Class of Service (COS) Programming		COS 1
	10	CO Line Ringing Assignments	(blank)
	11	CO Line Identification Display	Line XXX
	12	CO Direction	Incoming/Outgoing
	13	Display Ring Assignments	None
	14	DID/TIE Signal Type	Wink
	15	911 Trunk	Disabled

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Table 11-2: CO Line Attribute Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 40	1	T-1 Signaling Type	Loop Start
PAGE B	2	T-1 Ringback	Enabled
	3	T-1 Dial Tone	Disabled
	4	Transmit Volume	5=0 db
	5	Preset Call Forward Destination	####
	6	Preset Forward Voice Mail	####
	7	Universal Day Answer	Disabled
	8	Music-On-Hold per CO Line	Channel 1
	9	Ring Tone per CO Line	Tone # 00
FLASH 40	1	Flash Timer Programming	10=1.0 sec
PAGE C	2	Ring Delay Timer	00=Disabled
	3	Wink Timer	140 ms
	4	Release Timer	020=200 ms
	5	Reseize Timer	200=200 ms
	6	Guard Timer	05=.5 sec
	7	Seize Timer	010=0.1 sec
	8	Preset Forward Timer	10 sec
	9	DID Collect Timer	015=150 ms
	10	T-1 Collect Timer	015=150 ms

Initialize Station Attributes

Programming Steps

1. Press the STATION ATTRIBUTES flexible button (**FLASH 80**, **Button #3**). The following message displays:

INITIALIZE STATIONS PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

The Station Parameters may be initialized setting all data fields to their original, default values. The following data fields are returned to their default value upon initializing the Station Attributes.

Table 11-3: Station Attribute Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 50	1	Paging Access	Enabled
PAGE A	2	Do Not Disturb	Enabled
	3	Conference Enable/Disable (Per Station)	Enabled
	4	Executive Override	Disabled
	5	Privacy (Per Station)	Enabled
	6	System Speed Dial Access	Enabled
	7	Line Queuing	Enabled
	8	Preferred Line Answer	Enabled
	9	Off-Hook Voice Over (OHVO)	Disabled
	10	Call Forwarding	Enabled
	11	Forced Least Cost Routing (LCR)	Disabled
	12	ACD Supervisor Monitor w/Barge-In	Disabled
	13	Executive Override Block	Disabled
	14	CO Line Ringing	Muted Ring

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Table 11-3: Station Attribute Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
PAGE A	15	Name/Number Display at Idle	Name (Enabled)
	16	ACD Zap Tone	Disabled
	17	CO Loop Pool Flex	Disabled
	18	Administration Access	Disabled
FLASH 50	1	Station Identification	006 (24-Btn Keyset) 6 (SLT w/o MW)
PAGE B	2	Station Day Class of Service	1
	3	Station Night Class of Service	1
	4	Speakerphone/Headset Programming	0=Full Speakerphone
	5	Pick-Up Group(s) Programming	1
	6	Paging Zone(s) Programming	1
	8	CO Line Group Access	1
	9	LCR Class of Service (COS)	0
	10	Off-Hook Preference Programming	00 (Keyset)
	11	Flexible Button Programming	(blank)
	12	Keyset Mode	Inactive Mode
	13	Voice Mail ID Translation	XXXX (Station #)
	14	Display Flexible Buttons	None
	17	Cordless Key Button	00
FLASH 50	1	Internal No Answer Destination	None
PAGE C	2	Internal Busy Destination	None
	3	External No Answer Destination	None
	4	External Busy Destination	None
	5	No Answer Timer	10 sec
	6	Speed Dial Access	None

Initialize CO Port Parameters

Programming Steps

1. Press the CO PORT flexible button (**FLA SH 80**, **Button #4**). The following message displays:

```
INITIALIZE CO PORT
PRESS HOLD
```

2. Press the HOLD button. A confirmation tone is heard.

Description

The following data fields are returned to their default values upon initializing the CO Port Parameters.

Button#	CO Line#	Port #
1	001-008	1–8
2	009-016	9-16
3	017-024	17-24
4	025-032	25-32
5	033-040	33-40
6	041-048 %	41-48
7	049-056	49-56
8	057-064	57-64
9	065-072	65-72
10	073-080	73-80
11	081-088	81-88
12	089-096	89-96
13	097-104	097-104
14	105-112	105-112
15	113-120	113-120
16	121-128	121-128
17	129-136	129-136
18	137-144%%	137-144

% = CO Lines 001-048 available w/o the MEMU installed (Triad 3) %% = CO Lines 001-144 available with the MEMU installed (Triad 3) 11-14 Introduction

Table 11-4: Default Numbering Plan

Function	Code	Function	Code	Function	Code
911 Atnd Alert Clear	608	Call Park - Station	439	Msg Wait	623
Account Code	627	Call Park P/U - Station	#6	Mute	629
ACD Call Factor	580	Camp On	620	Name In Display	690
ACD Call Qualifier	570	Cancel LCR Queue	626	Night Service	604
ACD Group 1-16	550-565	Clear Fwd, DND, Msg	662	Off-Hook Preference Prog	691
ACD CIQ Display Btn	579	Clear VM Alarm	656	OHVO	628
ACD CIQ Status Disp	567	CO Line Direct Access	88	One Touch Record	649
ACD Help	574	CO Line Group 0-23	800-823	Page - All Call	700
ACD Member Display	573	CO Line Queue	621	Pause/Resume Rec	655
ACD Overflow Avail/Unav	578	Conference	624	Personalized Msgs	633
ACD PRI Login	572	Cus to m Ms g	694	Pickup Park Group 1-8	#4 30-#437
ACD PRI Logout	571	Dial By Name	6 *	Pool All	824
ACD Sec Login	582	Directory Dial	680	Release	641
ACD Sec Logo ut	581	Dir List Pg m Code	693	Repeat Redial	643
ACD Supv Disp	577	Do Not Disturb	631	Ring Tone	695
ACD Supv Login	576	DTMF Receiver Test	657	Save Number Redial	[SPEED]+[米]
ACD Supv Logout	575	Executive Override	625	Set Clock	692
ACD/UCD Avail/Unav	566	Ext Page Zone All, 1, 2	760-762	SLT Directed Call P/U	#1
Ans Machine Ring	6540	Flash	660	SLT Message Wait Return	663
Ans Machine Spkr	6541	Group Call Pickup	#0	SLT Conference Park	664
Atnd Clear T-1 Alarm	606	Headset Mode	634	SLT Speed Dial	668
Atnd Disable CO Line	602	HPT	667	SLT Speed Prog	661
Atnd Off-Net Forward	603	Hunt Group 1-8	450-457	Station 100-351	100-351
Atnd Override	601	ICLID Ans Call	659	Station Relocate	636
Atnd Unans CO Call Xfer	639	ICLID Name/Number	653	Stop Trace	658
Atnd Un available	607	ICLID Unans Call	635	Telecenter Adm	652
Atten dant	0	Int Page Zone 1-8, All	701-709	Telecenter Ext	650
Background Music	632	Intercom Button	645	Ton e Ring	6#
Call Back	622	Keyset Mode	648	UNA/UDA	#5
Call Coverage	647	Last Number Redial	[SPEED]+[#]	VM Group 1-8	440-447
Call Coverage Ring	646	LCR	800	VM Msg Cancel	421
Call Forward	640	Loop Key (Reqs Btn)	89	VM Msg Set	420
Call Forward Override	5#	Mailbox Button	644	VM Msg Set W/Count	422
Call Forward - Remote	642	Meet Me Page	770	Volume	638
Call Park - Group 1-8	430-437	Modem	499		
Call Park - Personal	438	MPB Version	605		

Initialize Exception Tables

Programming Steps

Press the EXCEPTION TABLES flexible button (FLASH 80, Button #5).
 The following message displays:

```
INITIALIZE EX TABLES
PRESS HOLD
```

2. Press the HOLD button. A confirmation tone is heard.

Description

The Exception Tables parameters, including the Allow/Deny Tables and the Special Tables, may be initialized setting all tables to their original, default values. The following Tables are cleared returning to their default value upon initializing the Exception Tables parameters:

Table 11-5: Exception Table Defaults

Program Code	Flex Features		Default Value (after initialization)	
FLASH 70		TOLL RESTRICTION	l	
	1	Allow Table A		
3		Deny Table A	Table Cleared	
		Allow Table B	(No Entries)	
	4	Deny Table B		
	5	Special Table 1	T. I. I. C	
	6	Special Table 2	Table Cleared (No Entries allowed, No Area	
	7	Special Table 3	Code specified)	
	8	Special Table 4 (Home Area Code)	Table Cleared (No Entries allowed)	
9		Area Code for Special Table 1		
	10	Area Code for Special Table 2		
	11	Area Code for Special Table 3		
	12	Displaying Toll Table Entries		

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Initialize System Speed Numbers

Programming Steps

1. Press the SYSTEM SPEED NUMBERS flexible button (**FLASH 80**, **Button #6**). The following message displays:

```
INITIALIZE SYS SPEED NO
PRESS HOLD
```

2. Press the HOLD button. A confirmation tone is heard.

Description

Numbers entered into the System Speed Dial Table may be initialized clearing all bins to their original, default value (empty). All bins 020-999 are cleared returning to their default value (empty) upon initializing the Speed Dial Table.



When up grading software from FP2 to FP3, all previously programmed speed dial buttons will be lost.

Initialize LCR Tables

Programming Steps

1. Press the LCR TABLES flexible button (**FLASH 80, Button #7**). The following message displays:

```
INITIALIZE LCR TABLES
PRESS HOLD
```

2. Press the HOLD button. A confirmation tone is heard.

Description

The LCR Tables may be initialized setting all tables to their original, default values. The following tables are reset to their original default value after initialization of the LCR Tables:

Table 11-6: LCR Table Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 75		LCR TABLES	
	1	3-Digit A rea/Office Code Table	
	2	6-Digit A rea/Office Code Table	
	3	Exception Code Table	
	4	Route List Table	Default values assigned
	5	Insert/Delete Table	
	6	Daily Start Time Table	
	7	Weekly Schedule Table	
	8	LCR Routing for Toll Information	

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Initialize ICLID-DID Tables

Programming Steps

1. Press the ICLID-DID TABLES flexible button (**FLASH 80, Button #8**). The following message displays:

INITIALIZE ICLID-DID PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

ICLID Table parameters may be initialized, setting all data fields to their original default values.

Table 11-7: ICLID-DID Table Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 43		ICLID-DID TABLES	
	1	ICLID Ringing Assignments	None
	18	Next ICLID Route Number	
	19	Previous ICLID Route Number	
	20	Select Route Number	
FLASH 44	2	DID Phone Number	
	3	DID Name Assigned to Number	None
	4	Erasing a DID Table Entry	
FLASH 55		LOCAL NUMBER/NAME TRANSLATION	
	1	Route Number	None
	2	Phone Number	None
	3	Name	None
	4	Clear Entry	None
FLASH 56	1	ICLID Disable/Enable	Disabled
	2	ICLID Name in Display	0=Telephone Number
	3	ICLID Baud Rate Display	9600
	4	ICLID Port Assignment	Port #1

Initialize Directory Dialing Table Parameters

Programming Steps

1. Press the DIRECTORY DIAL TABLE flexible button (**FLASH 80**, **Button #9**). The following message displays:

```
INITIALIZE DIR - DIAL
PRESS HOLD
```

2. Press the HOLD button. A confirmation tone is heard.

Description

The Directory Dialing Table Parameters may be initialized setting all data fields to their original default values.

Table 11-8: Directory Dialing Table Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 23		DIRECTORY DIALING TABLE	
	1	Bin/ICM	
	2	Name	None
	3	Clear	

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Initialize Hunt Group Parameters

Programming Steps

1. Press the HUNT GROUPS flexible button (**FLASH 80, Button #10**). The following message displays:

```
INITIALIZE HUNT GROUP
PRESS HOLD
```

2. Press the HOLD button. A confirmation tone is heard.

Description

Hunt Group Parameters may be initialized setting all data fields to their original, default value.

Table 11-9: Hunt Group Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 30		HUNT GROUPS	
	1-12	Hunt Group Programming	None
	13	Station/Pilot Hunting Assignment	Pilot

Initialize ACD / UCD Group Parameters

Programming Steps

1. Press the ACD* or UCD GROUPS flexible button (**FLASH 80**, **Button #11**). The following message displays:

INITIALIZE ACD GROUP PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

ACD* or UCD Group Parameters may be initialized setting all data fields to their original, default values.

Table 11-10: UCD Group Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 60	UCD GROUPS 550-557		
	2	Alternate Group Assignment	None
	3	Overflow Station Assignment	None
	7 UCD Primary Agent Assignment		None
	10-11	Recorded UCD Announcement Assignment(s)	None
FLASH 61		UCDTIMERS	
	1	UCD Ring Timer	60 sec
	2 UCD Message Interval Timer		60 sec
	3 UCD Overflow Timer		60 sec
	4 UCD Auto Wrap-Up Timer		04 sec
	5 UCD No-Answer Recall Timer		000=Disabled
	6	UCD No-Answer Retry Timer	300 sec
FLASH 62	1-8	UCD Announcement Tables (RAN)	None

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Table 11-11: ACD Group Defaults

FLASH 60	1 2 3 4	ACD GROUPS 5 50-565 Group Name Alternate Group Assignment	None None
	2	Alternate Group Assignment	
	3	` -	None
		O . Ch. Chat's Assistance	I .
· —	4	Overflow Station Assignment	None
	4	Supervisor Programming	None
	5	CIQ Threshold	Disabled
	6	Auto Wrap-Up Timer (Per Group)	04 se c
	7	Primary Agents	None
	8	Secondary Agents	None
	9 Guaranteed RAN		None
	10	Primary RAN	None
	11	Secondary RAN	None
	12	Transferred RAN	None
	13	Overflow Timer	60 se c
	14	Call Factor	None
FLASH 61	ACD TIMERS		
	1	ACD*/UCD Ring Timer	60 se c
	2	ACD*/UCD Message Interval Timer	60 se c
	5	ACD*/UCD No-Answer Recall Timer	000=Disabled
	6	ACD*/UCD No-Answer Retry Timer	300 sec
	7	ACD* Guaranteed Message Timer	05 se c
FLASH 62	1-8	ACD* Ran Announcement Tables	None
FLASH 63	1	Event Trace Disable/Enable	Disabled
	2	Trace Port Assignment	Port #1
	3	Baud Rate Display	9600 Baud

^{*} Features available with optional software

Initialize Voice Mail Group Parameters

Programming Steps

1. Press the VOICE MAIL GROUPS flexible button (**FLASH 80**, **Button #12**). The following message displays:

INITIALIZE VM GROUP PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

VM Group Parameters may be initialized, setting all data fields to their original default values.

Table 11-12: Voice Mail Group Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 65		VOICE MAIL GROU	JPS
	1-8	Voice Mail Groups(440-447)	None
	9	Alternate Voice Mail Group	None
	10	Leave Mail Index Entry	440=0
	11	Retrieve Mail Index Entry	440=1
	12	Station Assignments	None
FLASH 66	1-8	Voice Mail In-Band Signaling	Table 0: Pre=P7, Suf=None Table 1: Pre=P7, Suf=米 Tables 2-6: None Table 7: Pre=P7, Suf=2
	9	Voice Mail Disconnect Table	None
FLASH 67	1	Voice Mail In-Band Digits	Enabled
	2	Voice Mail Transfer/Forward	Enabled
	3	Voice Mail Broker	Enabled
	4	VM ID Digits	3
FLASH 68	1	Voice Mail Group	None
	2	Voice Mail ID Number	None

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Initialize DID-TIE Parameters

Programming Steps

1. Press the DID-TIE PARAMETERS flexible button (**FLASH 80**, **Button #13**). The following message displays:

INITIALIZE DID-TIE TMRS PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

The DID-TIE Parameters and Timers may be initialized, setting all data fields to their original default values.

Table 11-1	13: DID	TIE Paramete	Defaults
------------	---------	--------------	----------

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 41		MISCELLANEOUS CO PARAM	METERS
	1	Dial Pulse	60/40 10 pps
	3	DID Digits	3
	5	DID Incoming Signaling	DTMF
	6	T-1 Incoming Signaling	DTMF
	7	T-1 Framing Type	D4SF-AMI

Initialize Verified Account Code Table

Programming Steps

1. Press the VERIFIED ACCT CODES flexible button (**FLASH 80**, **Button #14**). The following message displays:

INITIALIZE ACCT CODES PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

The Verified Account Code Table may be initialized setting all data fields to their original, default values.

	Table 11	l -14: Verifi <i>e</i>	ed Account Co	ode Table i	Defaults
--	----------	------------------------	---------------	-------------	----------

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 31		VERIFIED ACCOUNT CODES	
	1	Account Code	None
	2	Class of Service (COS)	None
	3	Delete Account Code	None
	4	Erase Digits	None

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Initialize ISDN/VOIP Parameters

Programming Steps

1. Press the ISDN/VOIP PARAMETERS flexible button (**FLASH 80**, **Button #15**). The following message displays:

INITIALIZE ISDN/VOIP PRESS HOLD

2. Press the HOLD button. A confirmation tone is heard.

Description

The ISDN \mbox{VOIP} Parameters may be initialized setting all data fields to their original, default values.

Table 11-15: ISDN Parameter Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
FLASH 45	ISDN PARAMETERS		
PAGE A	1	Basic Rate Interface (BRI) CO Type	NI1
	2	Primary Rate Interface (PRI) CO Type	NI2
	3	Framing	ESF
	4	NE/TE Mode	TE
	5	Power	Disabled
	6	Directory Number	None
	7	Max Out I-Frames	K 001
	8	Leading 1	Enabled
	9	Leading 011	Enabled
	10	7/8 Digit Number Plan	ITU
	11	Calling Number	Enabled
	12	Loopback	Normal
	13	10 Digit Number Plan	ITU
	14	11 Digit Number Plan	ITU

Table 11-15: ISDN Parameter Defaults

Program Code	Flex Button	Features	Default Value (after initialization)
PAGE B	1	Maximum Number Retransmission	3
	2	Maximum Octets	260
	3	Maximum TEI ID Request	003
	4	Maximum XID Retransmission	3 sec
	5	T-200	01 sec
	6	Maximum TEI ID Check Message	01 sec
	7	Maximum TEI ID Request	02 sec
	8	Message Exchange Timer	15 sec
	9	Minimum XID Retransmission	3 sec
	10	Inter Digit T/O	25 sec
	11	Set-Up Timer	10 sec
	12	Disconnect Timer	04 sec
	13	Release Request	04 sec
	14	Link Disconnect	30 sec
	15	Call Proceeding	60 sec
	16	Connect Request	04 sec
	17	Restart Request Timer	120 sec

11-28 Introduction

System Reset

Programming Steps

If the System must be reset but not initialized:

1. Press the RESET flexible button (**FLASH 80, Button #20**). The following message displays:

```
RESET SYSTEM
PRESS HOLD
```

2. To reset the system without initializing the database, press the HOLD button. No confirmation tone is heard and the system resets.

Description

The System Reset feature provides a hard system reset from the keyset instead of the KSU. This is useful in cases where miscellaneous data errors have occurred and the system needs to be reset without initializing the entire database.

Printing System Database Parameters

This chapter describes the procedures and steps necessary to print the system database parameters and various portions of the system.

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Introduction

Print Database Parameters

Programming Steps

Press **FLASH** and dial **[85]**. The following message displays:

PRINT DATABASE ENTER BUTTON NUMBER

Description

The buttons on the key telephone are defined as shown in the following table when entering the Print Database Parameters programming area:

SYSTEM PARAMETERS	CO LINE ATTRIBUTES	STATION ATTRIBUTES	PORT - STA/CO				
₩ 1 Q	☀ 2 W	☀ 3 E	☀ 4 R				
EXCEPTION	SYSTEM SPEED	LCR	ENTIRE				
TABLES	NU MBERS	TABLES	SYSTEM				
☀ 5 T	⋇ 6 Y	☀ 7 U	* 8 Ⅰ				
ICLID-DID	DIRECTORY	HUNT	ACD* OR UCD				
TABLES	DIALTABLE	GROUPS	GROUPS				
* 9 0	☀ 10 P	業 11 A	☀ 12 S				
VOICE MAIL GROUPS	DID-TIE PARAMETERS	VERIFIED ACCT CODES	ISDN PARAMETERS				
☀ 13 D		¥ 15 G	☀ 16 H				
₩ 17 J	<u> </u>	※ 19 L	* 20 ;				
₩ 21 Z	 22 X	 23 C					

^{*} Features available with optional software.

The Print Database Parameters command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

Refer to the following figures for examples of the database printouts. Also refer to the following paragraphs for instructions on printing portions of the database.

12-4 Database Printing

Database Printing

Print System Parameters

Programming Steps

 Press the SYSTEM PARAMETERS flexible button (FLASH 85, Button #1). The following message displays:

PRINT SYS PARAM PRESS HOLD

2. To print the System Parameters database, press the HOLD button. The following message displays:

PRINT SYS PARAM

When the system finishes sending the information to the printer, a confirmation tone is heard.

Description

The currently stored customer database can be printed or uploaded into a file. This command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device. When printing the System Parameters the following data prints:

- □ All System Timers
- □ All System Wide Options (External Night Ringing, Hold Preference)
- ☐ Attendant Station(s) Programming
- □ Other System Assignments (Page/Relay Assign, Exec/Sec, SMDR)
- □ Weekly Night Mode Schedule

SYSTEM PARAME	TERS	SYSTEM FEATURES								
	тысь	-	,10121112	COLED						
		CO RING TONES VERIFIED ACCT CODES CALL FWD DISPLAY EXTERNAL DAY RING OVERFLOW STA FWD DIRECT XFER STATION LOCK LCR CALL PROGRESS RECORDING WARN TONE MAINTENANCE RINGBACK ON XFER DID/TIE SIGNALING 911 FEATURE SYSTEM INC CO RING INC ICM RING CALL FORWARD BTN MSG WAIT VM BTN MSG WAIT VM BTN MSG CBCK DSS/BLF DND DSS/BLF AUTO CBCK DSS/BLF UCD UNAVL DSS/BLF TRANSFER CO RING RECALL CO RING EXCLUSIVE HOLD QUEUED CO RING SYSTEM HOLD IN USE HOLD CAMP ON BTN CALL BACK BTN LINE QUEUE BTN DND BTN ICM HOLD BTN LEADING DIGIT 1 LEADING DIGIT 2 LEADING DIGIT 3	ENABLED							
		VERIFIED ACCT CODES	DIGYBIED							
CAG HULD BEGYLT	60	CALL FWD DIGDLAY	DISABLED							
EXC HOLD DECYLL	190	EYTEDNAL DAV DING	DICYBIED							
ATMD RECALL TIMER	1	OVERELOW STA EMD	DISABLED							
TRANSFER RECALL	45	DIRECT XFER	ENARLED							
PRESET FWD TIMER	10	STATION LOCK	DISABLED							
CALL FWD NO ANS	15	LCR CALL PROGRESS	ENABLED							
PAUSE TIMER	2	RECORDING WARN TONE	ENABLED							
CALL PARK TIMER	180	MAINTENANCE	DISABLED							
CONFERENCE TIMER	10	RINGBACK ON XFER	DISABLED							
PAGING TIMEOUT	15	DID/TIE SIGNALING	DISABLED							
CO RING DETECT	3	911 FEATURE	DISABLED							
SLT RCVR TIMER	20									
M/W TONE TIMER	0	SYSTEM	LED	FLASH RATES						
HOOK SWITCH TIME	10									
HOOK SWT BOUNCE	10	INC CO RING	RED	480 IPM FLUTTER						
SMDR CALL QUAL	30	INC ICM RING	RED	120 IPM FLUTTER						
AUTO CALL BACK	3	CALL FORWARD BTN	RED	STEADY ON						
REMINDER RING	0	MSG WAIT VM BTN	RED	STEADY ON						
RELEASE GUARD	3	MSG CBCK DSS/BLF	RED	120 IPM FLUTTER						
INTERDIGIT T/O	5	DND DSS/BLF	RED	60 IPM DBL WINK OFF						
RPT REDIAL	60	AUTO CBCK DSS/BLF	RED	120 IPM FLASH						
ATTENDANT DISPLAY	1	UCD UNAVL DSS/BLF	RED	60 IPM DBL WINK OFF						
CALL COVERAGE RING	5	TRANSFER CO RING	RED	120 IPM FLASH						
MODEM ANSWER T/O	25	RECALL CO RING	RED	480 IPM FLUTTER						
INT DIGIT PULSE	300	EXCLUSIVE HOLD	GREEN	120 IPM FLASH						
DIME ON/OFF TIME	1	QUEUED CO RING	GREEN	480 IPM FLUTTER						
CYCHEM BEAUTIDEC		SYSTEM HOLD	KED	60 IDM BLYCH						
SYSTEM FEATURES		IN USE HOLD	GKEEN	60 IPM FLASH						
	חם זם גם ח	CAMP ON BIN	KED	120 IPM FLASH						
HOLD DEFERENCE	DISABLED	TIME OTTETTE DEM	DED VED	ASO IDM ELLITTED						
EXTERNAL NIGHT RING	DISIM	DND BAN	RED	STEVIN LIGHTER						
EXECUTIVE WARNING	ENABLED	ICM HOLD BTN	RED	15 TPM FLASH						
PAGE WARNING TONE	ENABLED	LEADING DIGIT 1	LEADING	DIGIT						
BACKGROUND MUSTC	ENABLED	LEADING DIGIT 2 LEADING DIGIT 3 LEADING DIGIT 4 LEADING DIGIT 5 LEADING DIGIT 6 LEADING DIGIT 7 LEADING DIGIT 7	NONE	21011						
LEAST COST ROUTING	DISABLED	LEADING DIGIT 3	NONE							
FORCED ACCOUNT CODE	DISABLED	LEADING DIGIT 4	NONE							
GROUP LISTENING	DISABLED	LEADING DIGIT 5	NONE							
IDLE SPEAKER MODE	DISABLED	LEADING DIGIT 6	NONE							
CALL COST DISPLAY	DISABLED	LEADING DIGIT 7	NONE							
MUSIC ON HOLD	ENABLED	LEADING DIGIT OPTION	DISABLED							
CALL QUALIFIER TONE	DISABLED	CENTREX DIGITS	4							
BARGE IN WARN TONE	ENABLED	VM ID DIGITS	3							

Figure 12-1: System Parameters Printout

12-6 Database Printing

	CABINET						
	0	0	DT24				
ATTENDANT STATIONS	0	1	DTIB				
100 ## ## ## ## ## ##	0	2	DTIB				
	0	3	NONE				
DATE & TIME FORMAT	0	4	SLIB				
MM/DD/YY, 12 HOURS	0	5	NONE				
	0	6	LCOB				
PBX DIALING CODES	0	7	PRIB				
## ## ## ##	0	8	LCOB				
	U	9	MPB				
EXECUTIVE/SECRETARY PAIRINGS		0-9	NONE				
1 = ### ###	2	0 -5					
2 = ### ###	3	0 -5	NONE				
3 = ### ###							
4 = ### ###	POWER SU	PPLY TY	TPES (Tr	ciad 3)			
ON DOADD DELAY AGGEOMENTED	10 7 MDC	10 7 7 7 7	10 7	MDC 10	A M DC		
ON BOARD RELAY ASSIGNMENTS NONE NONE NONE NONE NONE	10 AMPS	IU AME	'S 10 A	MPS IC	AMPS		
	AT A DM DE	e.c	7. T. 7. D.M	ח ח ד מים מ	TUDEC	ת זטני	ATTENDANT
NONE	ALAKM DE	oc.	ALIAKN	PERIOD		MAJOR	
I/O BAUD RATE	CARRIER :	LOSS	Y	5	15	30	Y
	BLUE ALA		Y	5	15	30	Y
Port 1 = 9600	YELLOW A	LARM	Y	5	15	30	Y
Port 2 = 2400	RED ALAR	M	Y	5	15	30	Y
Port 3 = 9600	BIPOLAR	VAR.	Y	5	15	30	Y
Port $4 = 9600$	BIPOLAR SLIP ALA	RM	Y	5	15	30	Y
	DATA ERR	ORS	Y	5	15	30	Y
AUTO NIGHT MODE N							
WEEKLY NIGHT MODE SCHEDULE							
END START							
DAY TIME TIME							
M 0 0800 1700							
T 1 0800 1700							
W 2 0800 1700							
T 3 0800 1700 F 4 0800 1700							
S 5 #### ####							
C 6 #### ####							
S 6 #### ####							

Figure 12-1: System Parameters Printout

Print CO Line Attributes

Programming Steps

 Press the CO LINE ATTRIBUTES flexible button (FLASH 85, Button #2). The following message displays:

PRINT CO LINES
PRESS HOLD

- 2. To print data for:
 - □ ALL CO Lines, press the HOLD button.
 - ☐ A specified CO Line Range, enter 6 digits (3 digits for the first line and 3 digits for the last line in the range):
 - □ One CO Line, enter that line twice: [001001]
- 3. Then press the HOLD button. The following message displays and the CO Line data prints:

PRINTING CO LINES

When the system finishes sending the requested information to the printer, a confirmation to ne is heard.

Description

The Print COLine Attributes command dumps the entire database as a permanent record which can serve as a hardcopy of the database The system baud rate must match that of the printer or receiving device.

When printing the CO Line attributes the following data prints:

- □ All CO Line parameters within the specified range.
- $\hfill\Box$ CO Lineringing assignments within the specified range.
- □ Dial Pulse Ratio and Speed settings

12-8 Database Printing

```
CO LINE ATTRIBUTES
______
                                         CO 02
____
                                         _ _ _ _
DIAL PULSE/DTMF - DTMF
                                        DIAL PULSE/DTMF - DTMF
PBX/CO - CO
                                        PBX/CO - CO
UNIVERSAL NIGHT ANS - ENABLED
                                        UNIVERSAL NIGHT ANS - ENABLED
DISA TRK TO TRK - ENABLED
                                        DISA TRK TO TRK - ENABLED
PRIVACY - ENABLED
                                        PRIVACY - ENABLED
LOOOP SUPERVISION - 4
                                        LOOP SUPERVISION - 4
DISA TYPE - NONE
                                        DISA TYPE - NONE
LINE GROUP - 1
                                        LINE GROUP - 1
CLASS OF SERVICE - 1
                                       CLASS OF SERVICE - 1
LINE IDENTIFICATION - LINE 01
                                       LINE IDENTIFICATION - LINE 02
CO DIRECTION - INCOMING-OUTGOING
                                        CO DIRECTION - INCOMING-OUTGOING
RING ASSIGNMENTS
                                        RING ASSIGNMENTS
                1 0 0A
                                                         100A
T-1 SIGNAL TYPE - LOOP START
                                        T-1 SIGNAL TYPE - LOOP START
T-1 RINGBACK - ENABLED
                                        T-1 RINGBACK - ENABLED
T-1 DIALTONE - DISABLED
                                        T-1 DIALTONE - DISABLED
TRANSMIT VOLUME - 0DB
                                       TRANSMIT VOLUME - 0DB
                                       PRESET FORWARD DEST - NONE
PRESET FORWARD DEST - NONE
PRESET FWD VMID - NONE
                                       PRESET FWD VMID - NONE
UNIVERSAL DAY ANSWER - DISABLED
                                       UNIVERSAL DAY ANSWER - DISABLED
MOH CHANNEL - 1
                                        MOH CHANNEL - 1
RING TONE - 0
                                        RING TONE - 0
DID/TIE SIGNALLING - WINK
                                        DID/TIE SIGNALLING - WINK
911 TRUNK - DISABLED
                                        911 TRUNK - DISABLED
FLASH TIMER - 10
                                        FLASH TIMER - 10
RING DELAY TIMER - 0
                                        RING DELAY TIMER - 0
WINK TIMER - 140
                                        WINK TIMER - 140
RELEASE TIMER - 20
                                        RELEASE TIMER - 20
RESEIZE TIMER - 200
                                        RESEIZE TIMER - 200
GUARD TIMER - 50
                                        GUARD TIMER - 50
SEIZE TIMER - 10
                                        SEIZE TIMER - 10
PRESET FWD TIMER - 100
                                        PRESET FWD TIMER - 100
DID COLLECT TIMER - 15
                                        DID COLLECT TIMER - 15
T1 COLLECT TIMER - 15
                                        T1 COLLECT TIMER - 15
                                        ... and so on through CO lines:
                                          001-048 = Triad 1/2 001-144 = Triad 3
```

Figure 12-2: CO Line Attributes Printout

Print Station Attributes

Programming Steps

1. Press the STATION ATTRIBUTES flexible button (FLASH 85, Button #3). The following message displays:

```
PRINT STATIONS
PRESS HOLD
```

- 2. To print data for:
 - ☐ All stations, press the HOLD button.
 - ☐ A specified Station Range, enter six digits to specify the Station range (three digits for the first station and three digits for the last station in the range):

```
[100-171] = Triad 1/2
[100-351] = Triad 3
```

- ☐ One station, enter that station twice: [101101]
- 3. Then press the HOLD button. The following message displays and the requested information prints:

```
PRINTING STATIONS
```

When the system finishes sending the requested information to the printer, a confirmation to ne is heard.

Description

The Print Station Attributes command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

When printing the Station attributes the following data prints:

>>> All Current Station Parameters

12-10 Database Printing

STATION ATTRIBUTES			
STA 100		STA 101	
PAGE ACCESS DO NOT DISTURB CONFERENCE EXEC OVERRIDE PRIVACY SYSTEM SPEED LINE QUEUING PREF LINE ANSWER OFF HOOK VOICE OVER CALL FORWARD FORCE LCR ACD SUPV BARGE IN EXEC OVERRIDE BLOCK CO RING OPTIONS NAME AT IDLE LCD ACD ZAP TONE STATION ID CO LOOP POOL FLEX DAY COS NIGHT COS SPEAKERPHONE PICKUP GROUPS PAGE ZONE INTERNAL NO ANSWER EXTERNAL BUSY EXTERNAL BUSY EXTERNAL BUSY NO ANSWER TIMER LINE GROUP ACCESS LCR CLASS OF SERVICE	ENABLED ENABLED ENABLED DISABLED ENABLED ENABLED ENABLED DISABLED 11 EXT NUMBER DISABLED 11 FULL SPEAKERPHONE 1 1 #### #### #### 10 1 0	PAGE ACCESS DO NOT DISTURB CONFERENCE EXEC OVERRIDE PRIVACY SYSTEM SPEED LINE QUEUING PREF LINE ANSWER OFF HOOK VOICE OVER CALL FORWARD FORCE LCR ACD SUPV BARGE IN EXEC OVERRIDE BLOCK CO RING OPTIONS NAME AT IDLE LCD ACD ZAP TONE STATION ID CO LOOP POOL FLEX DAY COS NIGHT COS SPEAKERPHONE PICKUP GROUPS PAGE ZONE INTERNAL NO ANSWER EXTERNAL BUSY EXTERNAL NO ANSWER EXTERNAL BUSY NO ANSWER TIMER LINE GROUP ACCESS LCR CLASS OF SERVICE	ENABLED ENABLED ENABLED DISABLED ENABLED ENABLED ENABLED DISABLED DISABLED DISABLED DISABLED DISABLED DISABLED DISABLED MUTED RING EXT NUMBER DISABLED KEYSET - SP 24BTN DISABLED 1 FULL SPEAKERPHONE 1 ### ### ### ### ### 10 1
		LCR CLASS OF SERVICE OFFHOOK PREFENCE BTN	_
31MUT 32CPO 33MON 34HLD 35VOL 36VOL		and so on through 100-171 = <i>Triad</i> 1/2	

 $\textbf{NOTE}: The \ button\ p\ intout\ for\ the\ 8-button\ keyset\ d\ is\ p\ la\ ys\ all\ flexible\ AND\ fixed\ button\ s,\ the\ same\ a\ s\ the\ 24-button\ keyset.$

Figure 12-3: Station Attributes Printout

Print CO Port Parameters

Programming Steps

1. Press the CO PORT flexible button (FLASH 85, Button #4). The following message displays:

```
PRINT CO PORTS/CODES
PRESS HOLD
```

2. To print the CO Port parameters, press the HOLD button. The following message displays:

```
PRINTING CO PORT
```

When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The Print CO Port command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

CO F	ORT	r nume	BERS						
01	_	01	02	03	04	05	06	07	08
02	-	09	10	11	12	13	14	15	16
03	-	17	18	19	20	21	22	23	24
04	-	25	26	27	28	29	30	31	32
0.5	-	33	34	35	36	37	38	39	40
06	-	41	42	43	44	45	46	47	48
07	-	49	50	51	52	53	54	55	56
0.8	-	57	58	59	60	61	62	63	64
09	-	65	66	67	68	69	70	71	72
10	-	73	74	75	76	77	78	79	80
11	-	81	82	83	84	85	86	87	88
12	-	89	90	91	92	93	94	95	96
13	-	97	98	99	100	101	102	103	104
14	-	105	106	107	108	109	110	111	112
15	-	113	114	115	116	117	118	119	120
16	-	121	122	123	124	125	126	127	128
17	-	129	130	131	132	133	134	135	136
18	-	137	138	139	140	141	142	143	144

Figure 12-4: CO Port Attributes Printout

12-12 Database Printing

Print Exception Tables

Programming Steps

1. Press the EXCEPT TABLES flexible button (FLASH 85, Button #5). The following message displays:

```
PRINT EX TABLES
PRESS HOLD
```

2. To print the Except Tables, press the HOLD button. The following message displays:

```
PRINTING EX TABLES
```

When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The Print Exception Tables command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

When printing information from the Exception Tables, the following data prints:

\Box A	low [*]		

- □ Deny Table A
- □ Allow Table B
- □ Deny Table B
- □ Special Table 1
- □ Special Table 2
- □ Special Table 3
- □ Special Table 4

1 11	
	ALLOWED OFFICE CODES
2 12	
3 13	
4 14	
5 15	SPECIAL TABLE 2 AREA CODE
6 16	
7 17	ALLOWED OFFICE CODES
8 18	
9 19	
0 20	
	SPECIAL TABLE 3 AREA CODE
ENY TABLE A	
	ALLOWED OFFICE CODES
1 06	
2 07	
3 08	
4 09	SPECIAL TABLE 4 HOME AREA COD
5 10	
LLOW TABLE B	ALLOWED OFFICE CODES
1 11	
2 12	
3 13	
4 14	
5 15	
6 16	
7 17	
8 18	
9 19	
0 20	
ENY TABLE B	
1 06	
2 07	
3 08	
4 09	
5 10	
2 10	

Figure 12-5: Exception Tables Printout

12-14 Database Printing

Print System Speed Numbers

Programming Steps

1. Press the SYSTEM SPEED flexible button (FLASH 85, Button #6). The following message displays:

```
PRINT SYS SPEED NO
PRESS HOLD
```

2. To print the System Speed bins, press the HOLD button. The following message displays:

```
PRINTING SYS SPEED NO
```

When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The System Speed Numbers command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

SYSTEM SPEED NUMBERS	
020	037
021	038
022	039
023	040
024	041
025	042
026	043
027	044
028	045
029	046
030	047
031	048
032	049
033	050
034	051
035	0 52
036	and so on through Speed Number 999
	(with expanded memory)

Figure 12-6: System Speed Numbers Printout

Print LCR Tables

Programming Steps

1. Press the LCR TABLES flexible button (FLA SH 85, Button #7). The following message displays:

```
PRINT LCR TABLES
PRESS HOLD
```

2. To print the LCR Tables, press the HOLD button. The following message displays:

```
PRINTING LCR TABLES
```

When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The Print LCR Tables command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

When printing information from the LCR Tables, the following data prints:

- □ Exception Table
- □ Route List Table
- □ Insert/Delete Table
- □ Daily Time Table
- □ Weekly Time Table
- □ Toll Tables
- □ 6-Digit Table
- □ 3-Digit Table

12-16 Database Printing

EXC		CODE T					EL TABLE	
		ROUTE				TABLE	D	
1		T TABLE				0 1		
RT	TIME	COST	CO GRP	INS/DEL GRP	PR	2	PRE	P
0	2	026 026 026 026	1 1 1	0 0 0 0	1 1 1 1	3 4 5 6	PRE PRE PRE PRE	P P P
1		000 000 000 000	1 1 1	0 0 0 0	1 1 1 1	7 8 9 10	PRE PRE PRE PRE	P P P
2		010 010 010 010	1 1 1	0 0 0 0	1 1 1 1	11 12 13 14	PRE PRE PRE PRE	P P P
3	1 2 3 4	072 072 072 072	1 1 1	0 0 0 0	1 1 1 1	15 16 17 18	PRE PRE PRE PRE	P P P
4	1 2 3 4	171 171 171 171	1 1 1	0 0 0	1 1 1	19	PRE	P
5	1 2 3 4	106 106 106 106	1 1 1	0 0 0	1 1 1	DAILY TABLE		TIME TABLE
6	1 2	277 277 277 277	1 1 1	0 0 0 0	1 1 1	1 2 3 4		800 1700 2300 ####

Figure 12-7: LCR Tables Printout

WEEKLY SCHEI	OULE TA	ULE TABLE						
START	START							
TIME	М	Т	W	Т	F	S	S	
8 00	1	1	1	1	1	3	3	
1700	2	2	2	2	2	3	2	
2300	3	3	3	3	3	3	3	
####	3	3	3	3	3	3	3	
LCR ROUTE FO	OR 555-	-121	2					
6 DIGIT TABI	Œ						_	
AREA ROUTE CODE NO				'FIC DES				

Figure 12-7: LCR Tables Printout

		3	DIGIT	TABLE			597	2	8	N	1	7	N	
							598	2	8	N	1	7	N	
CO	DE I	EADI	NG 1	NON	I-LE	ADING 1	599	2	8	N	1	7	N	
	RR	PP	6	RR	PP	6	600	0	11	N	1	7	N	
							601	0	11	N	1	7	N	
11	##	##	N	6	##	N	602	0	11	N	1	7	N	
200	0	11	N	1	7	N	603	0	11	N	1	7	N	
201	0	11	N	1	7	N	604	0	11	N	1	7	N	
202	0	11	N	1	7	N	605	0	11	N	1	7	N	
203	0	11	N	1	7	N	606	0	11	N	1	7	N	
204	3	11	N	1	7	N	607	0	11	N	1	7	N	
205	0	11	N	1	7	N	608	0	11	N	1	7	N	
206	0	11	N	1	7	N	609	0	11	N	1	7	N	
207	0	11	N	1	7	N	610	0	11	N	1	7	N	
208	0	11	N	1	7	N	611	##	##	N	1	7	N	
209	0	11	N	1	7	N	612	0	11	N	1	7	N	
210	0	11	N	1	7	N	613	3	11	N	1	7	N	
211	##	##	N	1	7	N	614	0	11	N	1	7	N	
212	0	11	N	1	7	N	615	0	11	N	1	7	N	
213	0	11	N	1	7	N	616	0	11	N	1	7	N	
214	0	11	N	1	7	N	617	0	11	N	1	7	N	
215	0	11	N	1	7	N	618	0	11	N	1	7	N	
216	0	11	N	1	7	N	619	0	11	N	1	7	N	
217	0	11	N	1	7	N	620	2	8	N	1	7	N	
218	0	11	N	1	7	N	621	2	8	N	1	7	N	
219	0	11	N	1	7	N	622	2	8	N	1	7	N	
220	2	8	N	1	7	N	623	2	8	N	1	7	N	
221	2	8	N	1	7	N	624	2	8	N	1	7	N	
222	2	8	N	1	7	N	625	2	8	N	1	7	N	
223	2	8	N	1	7	N	626	0	11	N	1	7	N	
224	2	8	N	1	7	N	627	2	8	N	1	7	N	
225	2	8	N	1	7	N	628	2	8	N	1	7	N	
226	2	8	N	1	7	N	629	2	8	N	1	7	N	
227	2	8	N	1	7	N	630	0	11	N	1	7	N	
228	0	11	N	1	7	N	631	2	8	N	1	7	N	
229	2	8	N	1	7	N	632	2	8	N	1	7	N	
23 0	2	8	N	1	7	N	633	2	8	N	1	7	N	
231	2	8	N	1	7	N	634	2	8	N	1	7	N	
232	2	8	N	1	7	N	635	2	8	N	1	7	N	
233	2	8	N	1	7	N	636	2	8	N	1	7	N	
234	2	8	N	1	7	N	637	2	8	N	1	7	N	
235	2	8	N	1	7	N	638	2	8	N	1	7	N	
236	2	8	N	1	7	N	639	2	8	N	1	7	N	
237	2	8	N	1	7	N	640	2	8	N	1	7	N	
238	2	8	N	1	7	N	641	2	8	N	1	7	N	
239	2	8	N	1	7	N	642	2	8	N	1	7	N	
1														

Figure 12-8: Three-Digit Tables Printout

240	0	11	N	1	7	N	643	2	8	N	1 7	N	
241	2	8	N	1	7	N	644	2	8	N	1 7	N	
242	2	8	N	1	7	N	645	2	8	N	1 7	N	
243	2	8	N	1	7	N	646	2	8	N	1 7	N	
244	2	8	N	1	7	N	647	2	8	N	1 7	N	
245	2	8	N	1	7	N	648	2	8	N	1 7	N	
246	2	8	N	1	7	N	649	2	8	N	1 7	N	
247	2	8	N	1	7	N	650	0	11	N	1 7	N	
248	0	11	N	1	7	N	651	2	8	N	1 7	N	
249	2	8	N	1	7	N	652	2	8	N	1 7	N	
250	2	8	N	1	7	N	653	2	8	N	1 7	N	
251	2	8	N	1	7	N	654	2	8	N	1 7	N	
252	2	8	N	1	7	N	655	2	8	N	1 7	N	
253	0	11	N	1	7	N	656	2	8	N	1 7	N	
254	0			1	7	N	657	2			1 7		
254	2	11	N	1	7	N	65 <i>7</i> 658	2	8 8	N	1 7	N	
256	2	8 8	N N	1	7	N	658	2	8	N N	1 7	N	
1												N	
257	2	8	N	1	7	N	660	0	11	N	1 7	N	
258	2	8	N	1	7	N	661	2	8	N	1 7	N	
259	2	8	N	1	7	N	662	2	8	N	1 7	N	
260	2	8	N	1	7	N	663	2	8	N	1 7	N	
261	2	8	N	1	7	N	664	2	8	N	1 7	N	
282	2	8	N	1	7	N	665	2	8	N	1 7	N	
283	2	8	N	1	7	N	666	2	8	N	1 7	N	
264	2	8	N	1	7	N	667	2	8	N	1 7	N	
265	2	8	N	1	7	N	668	2	8	N	1 7	N	
266	2	8	N	1	7	N	669	2	8	N	1 7	N	
267	2	8	N	1	7	N	670	2	8	N	1 7	N	
268	2	8	N	1	7	N	671	2	8	N	1 7	N	
269	2	8	N	1	7	N	672	2	8	N	1 7	N	
270	2	8	N	1	7	N	673	2	8	N	1 7	N	
271	2	8	N	1	7	N	674	2	8	N	1 7	N	
272	2	8	N	1	7	N	675	2	8	N	1 7	N	
273	2	8	N	1	7	N	676	2	8	N	1 7	N	
274	2	8	N	1	7	N	677	2	8	N	1 7	N	
275	2	8	N	1	7	N	678	2	8	N	1 7	N	
276	2	8	N	1	7	N	679	2	8	N	1 7	N	
277	2	8	N	1	7	N	680	2	8	N	1 7	N	
278	2	8	N	1	7	N	681	2	8	N	1 7	N	
279	2	8	N	1	7	N	682	2	8	N	1 7	N	
280	2	8	N	1	7	N	683	2	8	N	1 7	N	
1	0			1									
281		11	N		7	N	684	2	8	N	1 7	N	
282	2	8	N	1	7	N	685	2	8	N	1 7	N	
283	2	8	N	1	7	N	686	2	8	N	1 7	N	
284	2	8	N	1	7	N	687	2	8	N	1 7	N	
285	2	8	N	1	7	N	688	2	8	N	1 7	N	
286	2	8	N	1	7	N	689	2	8	N	1 7	N	
1													

Figure 12-8: Three-Digit Tables Printout

12-20 Database Printing

287	2	8	N	1	7		690	2	8	N	1	7	N
288	2	8	N	1	7		691	2	8	N	1	7	N
289	2	8	N	1	7		692	2	8	N	1	7	N
290	2	8	N	1	7		693	2	8	N	1	7	N
291	2	8	N	1	7		694	2	8	N	1	7	N
292	2	8	N	1	7		695	2	8	N	1	7	N
293	2	8	N	1	7	N	696	2	8	N	1	7	N
294	2	8	N	1	7	N	697	2	8	N	1	7	N
295	2	8	N	1	7	N	698	2	8	N	1	7	N
296	2	8	N	1	7	N	699	2	8	N	1	7	N
297	2	8	N	1	7	N	700	0	11	N	1	7	N
298	2	8	N	1	7	N	701	0	11	N	1	7	N
299	2	8	N	1	7	N	702	0	11	N	1	7	N
300	0	11	N	1	7	N	703	0	11	N	1	7	N
301	0	11	N	1	7	N	704	0	11	N	1	7	N
302	0	11	N	1	7	N	705	3	11	N	1	7	N
303	0	11	N	1	7	N	706	4	11	N	1	7	N
304	0	11	N	1	7	N	707	0	11	N	1	7	N
305	0	11	N	1	7		708	0	11	N	1	7	N
306	3	11	N	1	7	N	709	3	11	N	1	7	N
307	0	11	N	1	7	N	710	0	11	N	1	7	N
308	0	11	N	1	7	N	711	##	##	N	1	7	N
309	0	11	N	1	7	N	712	0	11	N	1	7	N
310	0	11	N	1	7		713	0	11	N	1	7	N
311	##	##	N	1	7		714	0	11	N	1	7	N
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313	0	11	N	1	7		716	0	11	N	1	7	N
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315	0	11	N	1	7		718	0	11	N	1	7	N
316	0	11	N	1	7		719	0	11	N	1	7	N
317	0	11	N	1	7		720	2	8	N	1	7	N
318	0	11	N	1	7		721	2	8	N	1	7	N
319	0	11	N	1	7		722	2	8	N	1	7	N
320	0	11	N	1	7		723	2	8	N	1	7	N
321	2	8	N	1	7		724	0	11	N	1	7	N
321	2			1	7		725	2	8		1	7	
322	0	8 11	N N	1	7		726	2	8	N N	1	7	N N
1													
324	2	8	N	1	7		727	2	8	N	1	7	N
325	2	8	N	1	7		728	2	8	N	1	7	N
326	2	8	N	1	7		729	2	8	N	1	7	N
327	2	8	N	1	7		730	2	8	N	1	7	N
328	2	8	N	1	7		731	2	8	N	1	7	N
329	2	8	N	1	7		732	0	11	N	1	7	N
330	0	11	N	1	7		733	2	8	N	1	7	N
331	2	8	N	1	7		734	0	11	N	1	7	N
332	2	8	N	1	7	N	735	2	8	N	1	7	N
333	2	8	N	1	7	N	736	2	8	N	1	7	N
<u> </u>													

Figure 12-8: Three-Digit Tables Printout

334	0	11	N	1	L	7	N	737	2	8	N	1	7	N
335	2	8	N	1	L	7	N	738	2	8	N	1	7	N
336	2	8	N	1	L	7	N	739	2	8	N	1	7	N
337	2	8	N	1	L	7	N	740	0	11	N	1	7	N
338	2	8	N	1	L	7	N	741	2	8	N	1	7	N
339	2	8	N	1	L	7	N	742	2	8	N	1	7	N
340	2	8	N	1	L	7	N	743	2	8	N	1	7	N
341	2	8	N	1		7	N	744	2	8	N	1	7	N
342	2	8	N	1		7	N	745	2	8	N	1	7	N
343	2	8	N	1		7	N	746	2	8	N	1	7	N
344	2	8	N	1		7	N	747	2	8	N	1	7	N
345	2	8	N			7	N	748	2	8	N	1	7	N
346	2	8	N	1		7	N	749	2	8	N	1	7	N
347	2	8	N	1		7	N	750	2	8	N	1	7	N
348	2	8	N	1		7	N	751	2	8	N	1	7	N
34.8	2	8	N	1		7	N	751 752	2	8	N	1	7	N
350	2					7		753	2				7	
		8	N	1			N			8	N	1		N
351	2	8	N	1		7	N	754	2	8	N	1	7	N
352	0	11	N	1		7	N	755	2	8	N	1	7	N
353	2	8	N	1		7	N	756	2	8	N	1	7	N
354	2	8	N	1		7	N	757	0	11	N	1	7	N
355	2	8	N	1		7	N	758	2	8	N	1	7	N
356	2	8	N	1		7	N	759	2	8	N	1	7	N
357	2	8	N	1	L	7	N	760	0	11	N	1	7	N
358	2	8	N	1		7	N	761	2	8	N	1	7	N
359	2	8	N	1		7	N	762	2	8	N	1	7	N
360	0	11	N	1	L	7	N	763	2	8	N	1	7	N
361	2	8	N	1	L	7	N	764	2	8	N	1	7	N
362	2	8	N	1	L	7	N	765	0	11	N	1	7	N
363	2	8	N	1	L	7	N	766	2	8	N	1	7	N
364	2	8	N	1	L	7	N	767	2	8	N	1	7	N
365	2	8	N	1	L	7	N	768	2	8	N	1	7	N
366	2	8	N	1	L	7	N	769	2	8	N	1	7	N
367	2	8	N	1	L	7	N	770	0	11	N	1	7	N
368	2	8	N	1	L	7	N	771	2	8	N	1	7	N
369	2	8	N	1	L	7	N	772	2	8	N	1	7	N
370	2	8	N	1	L	7	N	773	0	11	N	1	7	N
371	2	8	N	1	L	7	N	774	2	8	N	1	7	N
372	2	8	N			7	N	775	2	8	N	1	7	N
373	2	8	N]		7	N	776	2	8	N	1	7	N
374	2	8	N]		7	N	777	2	8	N	1	7	N
375	2	8	N	1		7	N	778	2	8	N	1	7	N
376	2	8	N]		7	N	779	2	8	N	1	7	N
377	2	8	N	1		7	N	780	2	8	N	1	7	N
378	2	8	N	1		7	N	781	0	11	N	1	7	N
378	2	8	N	1		7	N	781 782	2	8	N	1	7	N
380	2	8	N	1		7	N	782 783	2	8	N	1	7	N
] 300	4	0	IA	١	L	/	IA	103	2	0	IA	1	/	TA.

Figure 12-8: Three-Digit Tables Printout

381	2	8	N	1	7	N	784	2	8	N	1	7	N
382	2	8	N	1	7	N	785	0	11	N	1	7	N
383	2	8	N	1	7	N	786	2	8	N	1	7	N
384	2	8	N	1	7	N	787	2	8	N	1	7	N
385	2	8	N	1	7	N	788	2	8	N	1	7	N
386	2	8	N	1	7	N	789	2	8	N	1	7	N
387	2	8	N	1	7	N	790	2	8	N	1	7	N
388	2	8	N	1	7	N	791	2	8	N	1	7	N
389	2	8	N	1	7	N	792	2	8	N	1	7	N
390	2	8	N	1	7	N	793	2	8	N	1	7	N
391	2	8	N	1	7	N	794	2	8	N	1	7	N
392	2	8	N	1	7	N	795	2	8	N	1	7	N
393	2	8	N	1	7	N	796	2	8	N	1	7	N
394	2	8	N	1	7	N	797	2	8	N	1	7	N
395	2	8	N	1	7	N	798		8	N	1	7	N
396	2	8	N	1	7	N	799		8	N	1	7	N
397	2	8	N	1	7	N	800		11	N	1	7	N
398	2	8	N	1	7	N	801		11	N	1	7	N
399	2	8	N	1	7	N	802		11	N	1	7	N
400	0	11	N	1	7	N	803		11	N	1	7	N
401	0	11	N	1	7	N	804		11	N	1	7	N
402	0	11	N	1	7	N	805		11	N	1	7	N
403	3	11	N	1	7	N	806		11	N	1	7	N
404	0	11	N	1	7	N	807		11	N	1	7	N
405	0	11	N	1	7	N	808		11	N	1	7	N
406	0	11	N	1	7	N	809		11	N	1	7	N
407	0	11	N	1	7	N	810		11	N	1	7	N
			N		7						1	7	
408	0	11		1		N	811		##	N			N
409	0	11	N	1	7	N	812 813		11	N	1	7	N
410 411	0 1	11 4	N N	1 1	7	N N	813		11 11	N N	1 1	7 7	N N
1													
412	0	11	N	1	7	N	815		11	N	1	7	N
413	0	11	N	1	7	N	816		11	N	1	7	N
414	0	11	N	1	7	N	817		11	N	1	7	N
415	0	11	N	1	7	N	818		11	N	1	7	N
416	3	11	N	1	7	N	819		11	N	1	7	N
417	0	11	N	1	7	N	820		8	N	1	7	N
418	3	11	N	1	7	N	821		8	N	1	7	N
419	0	11	N	1	7	N	822		8	N	1	7	N
420	2	8	N	1	7	N	823		8	N	1	7	N
421	2	8	N	1	7	N	824		8	N	1	7	N
422	2	8	N	1	7	N	825		8	N	1	7	N
423	0	11	N	1	7	N	826		8	N	1	7	N
424	2	8	N	1	7	N	827		8	N	1	7	N
425	0	11	N	1	7	N	828		8	N	1	7	N
426	2	8	N	1	7	N	829		8	N	1	7	N
427	2	8	N	1	7	N	830	0	11	N	1	7	N
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Figure 12-8: Three-Digit Tables Printout

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429	2	8	N	1	7	N	832	2	8	N	1 7 N
430	2	8	N	1	7	N	833	2	8	N	1 7 N
431	2	8	N	1	7	N	834	2	8	N	1 7 N
432	2	8	N	1	7	N	835	2	8	N	1 7 N
433	2	8	N	1	7	N	836	2	8	N	1 7 N
434	2	8	N	1	7	N	837	2	8	N	1 7 N
435	0	11	N	1	7	N	838	2	8	N	1 7 N
436	2	8	N	1	7	N	839	2	8	N	1 7 N
437	2	8	N	1	7	N	840	2	8	N	1 7 N
438	2	8	N	1	7	N	841	2	8	N	1 7 N
439	2	8	N	1	7	N	842	2	8	N	1 7 N
440	0	11	N	1	7	N	843	0	11	N	1 7 N
441	5	11	N	1	7	N	844	2	8	N	1 7 N
442	2	8	N	1	7	N	845	2	8	N	1 7 N
443	0	11	N	1	7	N	846	2	8	N	1 7 N
444	2	8	N	1	7	N	847	0	11	N	1 7 N
445	2	8	N	1	7	N	848	2	8	N	1 7 N
446	2	8	N	1	7	N	849	2	8	N	1 7 N
447	2	8	N	1	7	N	850	0	11	N	1 7 N
448	2	8	N	1	7	N	851	2	8	N	1 7 N
449	2	8	N	1	7	N	852	2	8	N	1 7 N
450	2	8	N	1	7	N	853	2	8	N	1 7 N
451	2	8	N	1	7	N	854	2	8	N	1 7 N
452	2	8		1	7		855	2			
452	2	8	N N	1	7	N N	856 856	2	8 8	N N	1 7 N 1 7 N
454	2	8	N	1	7	N	857	2	8	N	1 / N 1 7 N
1											
455	2	8	N	1	7	N	858	2	8	N	1 7 N
456	2	8	N	1	7	N	859	2	8	N	1 7 N
457	2	8	N	1	7	N	860	0	11	N	1 7 N
458	2	8	N	1	7	N	861	2	8	N	1 7 N
459	2	8	N	1	7	N	862	2	8	N	1 7 N
460	2	8	N	1	7	N	863	2	8	N	1 7 N
461	2	8	N	1	7	N	864	0	11	Ν	1 7 N
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463	2	8	N	1	7	N	866	2	8	N	1 7 N
464	2	8	N	1	7	N	867	2	8	N	1 7 N
465	2	8	N	1	7	N	868	2	8	N	1 7 N
466	2	8	N	1	7	N	869	2	8	N	1 7 N
467	2	8	N	1	7	N	870	0	11	N	1 7 N
468	2	8	N	1	7	N	871	2	8	N	1 7 N
469	2	8	N	1	7	N	872	2	8	N	1 7 N
470	2	8	N	1	7	N	873	2	8	N	1 7 N
471	2	8	N	1	7	N	874	0	11	N	1 7 N
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473	2	8	N	1	7	N	876	2	8	N	1 7 N
474	2	8	N	1	7	N	877	2	8	N	1 7 N
1											

Figure 12-8: Three-Digit Tables Printout

475	2	8	N	1	7	N	878	2	8	N	1 7 N	
476	2	8	N	1	7	N	879	2	8	N	1 7 N	
477	2	8	N	1	7	N	880	2	8	N	1 7 N	
478	2	8	N	1	7	N	881	2	8	N	1 7 N	
479	2	8	N	1	7	N	882	2	8	N	1 7 N	
480	2	8	N	1	7	N	883	2	8	N	1 7 N	
481	2	8	N	1	7	N	884	2	8	N	1 7 N	
482	2	8	N	1	7	N	885	2	8	N	1 7 N	
483	2	8	N	1	7	N	886	2	8	N	1 7 N	
484	2	8	N	1	7	N	887	2	8	N	1 7 N	
485	2	8	N	1	7	N	888	2	8	N	1 7 N	
486	2	8	N	1	7	N	889	2	8	N	1 7 N	
487	2	8	N	1	7	N	890	2	8	N	1 7 N	
488	2	8	N	1	7	N	891	2	8	N	1 7 N	
489	2	8	N	1	7	N	892	2	8	N	1 7 N	
490	2	8	N	1	7	N	893	2	8	N	1 7 N	
491	2	8	N	1	7	N	894	2	8	N	1 7 N	
492	2	8	N	1	7	N	895	2	8	N	1 7 N	
493	2	8	N	1	7	N	896	2	8	N	1 7 N	
494	2	8	N	1	7	N	897	2	8	N	1 7 N	
495	2	8	N	1	7	N	898	2	8	N	1 7 N	
496	2	8	N	1	7	N	899	2	8	N	1 7 N	
497	2	8	N	1	7	N	900	0	11	N	1 7 N	
498	2	8	N	1	7	N	901	0	11	N	1 7 N	
499	2	8	N	1	7	N	902	3	11	N	1 7 N	
500	0	11	N	1	7	N	903	0	11	N	1 7 N	
501	0	11	N	1	7	N	904	0	11	N	1 7 N	
502	0	11	N	1	7	N	905	4	11	N	1 7 N	
503	0	11	N	1	7	N	906	0	11	N	1 7 N	
504	0	11	N	1	7	N	907	0	11	N	1 7 N	
505	0	11	N	1	7	N	908	0	11	N	1 7 N	
506	3	11	N	1	7	N	909	0	11	N	1 7 N	
507	0	11	N	1	7	N	910	0	11	N	1 7 N	
508	0	11	N	1	7	N	911	1	4	N	1 3 N	
509	0	11	N	1	, 7	N	912	0	11	N	1 7 N	
510	0	11	N	1	7	N	913	0	11	N	1 7 N	
511	##	##	N	1	7	N	914	0	11	N	1 7 N	
512	0	11	N	1	7	N	915	0	11	N	1 7 N	
512	0	11	N	1	7	N	916	0	11	N	1 7 N 1 7 N	
513	3	11	N	1	7	N	917	0	11	N	1 7 N 1 7 N	
514	0	11	N	1	7	N	918	0	11	N	1 7 N	
516	0	11	N	1	7	N	919	0	11	N	1 7 N	
517	0	11	N	1	7	N	920	0	11	N	1 7 N 1 7 N	
51 7	0	11	N	1	7	N	921	2	8	N	1 7 N 1 7 N	
519	3	11	N	1	7	N	922	2	8	N	1 7 N	
519	0	11	N	1	7	N	922	2	8	N	1 / N 1 7 N	
520	2	8	N	1	7	N	923	2	8	N	1 / N 1 7 N	
321	4	0	ΤΛ	1	/	TA	924	4	0	ΤΛ	⊥ / IN	

Figure 12-8: Three-Digit Tables Printout

522	2	8	N	1	7	N	925	0	11	N	1 7	N
523	2	8	N	1	7	N	926	2	8	N	1 7	N
524	2	8	N	1	7	N	927	2	8	N	1 7	N
525	2	8	N	1	7	N	928	2	8	N	1 7	N
526	2	8	N	1	7	N	929	2	8	N	1 7	N
527	2	8	N	1	7	N	930	2	8	N	1 7	N
528	2	8	N	1	7	N	931	0	11	N	1 7	N
529	2	8	N	1	7	N	932	2	8	N	1 7 1	N
53 0	0	11	N	1	7	N	933	2	8	N		N
531	2	8	N	1	7	N	934	2	8	N		N
532	2	8	N	1	7	N	935	2	8	N		N
533	2	8	N	1	7	N	936	2	8	N		N
534	2	8	N	1	7	N	937	0	11	N		N
53.5	2	8	N	1	7	N	938	2	8	N		N
53.6	2	8	N	1	, 7	N	939	2	8	N		N
537	2	8	N	1	7	N	940	0	。 11	N		N N
53 7	2	8	N	1	, 7	N	940	0	11	N		N N
1												
53 9	2	8	N	1	7 7	N	942	2	8	N		N AT
540	0	11	N	1		N	943	2	8	N		N
541	0	11	N	1	7	N	944	2	8	N		N N
542	2	8	N	1	7	N	945	2	8	N		N
543	2	8	N	1	7	N	946	2	8	N		Ŋ
544	2	8	N	1	7	N	947	2	8	N		N
545	2	8	N	1	7	N	948	2	8	N		N
546	2	8	N	1	7	N	949	0	11	N		N
547	2	8	N	1	7	N	950	2	8	N		N
548	2	8	N	1	7	N	951	2	8	N		Ŋ
54 9	2	8	N	1	7	N	952	2	8	N		N
55 0	2	8	N	1	7	N	953	2	8	N	1 7 1	N
551	2	8	N	1	7	N	954	0	11	N		N
552	2	8	N	1	7	N	955	2	8	N		N
553	2	8	N	1	7	N	956	0	11	N	1 7	N
554	2	8	N	1	7	N	957	2	8	N	1 7	N
555	2	8	N	1	7	N	958	2	8	N	1 7	N
556	2	8	N	1	7	N	959	2	8	N	1 7	N
557	2	8	N	1	7	N	960	2	8	N	1 7	N
558	2	8	N	1	7	N	961	2	8	N	1 7	N
559	2	8	N	1	7	N	962	2	8	N	1 7	N
560	2	8	N	1	7	N	963	2	8	N		N
561	0	11	N	1	7	N	964	2	8	N		N
562	0	11	N	1	7	N	965	2	8	N	1 7	N
563	2	8	N	1	7	N	966	2	8	N		N
564	2	8	N	1	7	N	967	2	8	N		N
565	2	8	N	1	7	N	968	2	8	N		N
566	2	8	N	1	7	N	969	2	8	N		N
567	2	8	N	1	7	N	970	0	11	N		N
568	2	8	N	1	7	N	971	2	8	N		N
	-	0	-1	_	•		J / 1	-	3		± , ,	"
1												

Figure 12-8: Three-Digit Tables Printout

12-26 Database Printing

569 2 8 N 1 7 N 972 0 11 N 1 7 N 570 2 8 N 1 7 N 973 0 11 N 1 7 N 571 2 8 N 1 7 N 974 2 8 N 1 7 N 573 0 11 N 1 7 N 975 2 8 N 1 7 N 573 0 11 N 1 7 N 976 2 8 N 1 7 N 574 2 8 N 1 7 N 976 2 8 N 1 7 N 575 2 8 N 1 7 N 977 2 8 N 1 7 N 576 2 8 N 1 7 N 980 2 8 N														
570 2 8 N 1 7 N 973 0 11 N 1 7 N 571 2 8 N 1 7 N 974 2 8 N 1 7 N 572 2 8 N 1 7 N 975 2 8 N 1 7 N 573 0 11 N 1 7 N 976 2 8 N 1 7 N 574 2 8 N 1 7 N 977 2 8 N 1 7 N 575 2 8 N 1 7 N 977 2 8 N 1 7 N 576 2 8 N 1 7 N 980 2 8 N 1 7 N 577 2 8 N 1 7 N 981 2 8 N	569	2	Ω	M	1	7	M	972	0	11	NT	1	7	N
571 2 8 N 1 7 N 974 2 8 N 1 7 N 572 2 8 N 1 7 N 975 2 8 N 1 7 N 573 0 11 N 1 7 N 976 2 8 N 1 7 N 574 2 8 N 1 7 N 977 2 8 N 1 7 N 575 2 8 N 1 7 N 978 0 11 N 1 7 N 576 2 8 N 1 7 N 980 2 8 N 1 7 N 577 2 8 N 1 7 N 981 2 8 N 1 7 N 578 2 8 N 1 7 N 982 2 8 N						-								
572 2 8 N 1 7 N 975 2 8 N 1 7 N 573 0 11 N 1 7 N 976 2 8 N 1 7 N 574 2 8 N 1 7 N 977 2 8 N 1 7 N 575 2 8 N 1 7 N 978 0 11 N 1 7 N 576 2 8 N 1 7 N 979 2 8 N 1 7 N 577 2 8 N 1 7 N 980 2 8 N 1 7 N 578 2 8 N 1 7 N 981 2 8 N 1 7 N 580 0 11 N 1 7 N 983 2 8 N									-			_	-	
573 0 11 N 1 7 N 976 2 8 N 1 7 N 574 2 8 N 1 7 N 977 2 8 N 1 7 N 575 2 8 N 1 7 N 978 0 11 N 1 7 N 576 2 8 N 1 7 N 979 2 8 N 1 7 N 577 2 8 N 1 7 N 980 2 8 N 1 7 N 578 2 8 N 1 7 N 981 2 8 N 1 7 N 579 2 8 N 1 7 N 981 2 8 N 1 7 N 580 0 11 N 1 7 N 983 2 8 N					_	-								
574 2 8 N 1 7 N 977 2 8 N 1 7 N 575 2 8 N 1 7 N 978 0 11 N 1 7 N 576 2 8 N 1 7 N 979 2 8 N 1 7 N 577 2 8 N 1 7 N 980 2 8 N 1 7 N 578 2 8 N 1 7 N 981 2 8 N 1 7 N 579 2 8 N 1 7 N 981 2 8 N 1 7 N 580 0 11 N 1 7 N 983 2 8 N 1 7 N 581 2 8 N 1 7 N 985 2 8 N	1 -		-		_	-			_	-		_		
575 2 8 N 1 7 N 978 0 11 N 1 7 N 576 2 8 N 1 7 N 979 2 8 N 1 7 N 577 2 8 N 1 7 N 980 2 8 N 1 7 N 578 2 8 N 1 7 N 981 2 8 N 1 7 N 579 2 8 N 1 7 N 981 2 8 N 1 7 N 580 0 11 N 1 7 N 983 2 8 N 1 7 N 581 2 8 N 1 7 N 985 2 8 N 1 7 N 582 2 8 N 1 7 N 986 2 8 N		-			_					-		_	-	=-
576 2 8 N 1 7 N 979 2 8 N 1 7 N 577 2 8 N 1 7 N 980 2 8 N 1 7 N 578 2 8 N 1 7 N 981 2 8 N 1 7 N 579 2 8 N 1 7 N 982 2 8 N 1 7 N 580 0 11 N 1 7 N 983 2 8 N 1 7 N 581 2 8 N 1 7 N 984 2 8 N 1 7 N 582 2 8 N 1 7 N 985 2 8 N 1 7 N 584 2 8 N 1 7 N 987 2 8 N					_	-				-		· -		
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578 2 8 N 1 7 N 981 2 8 N 1 7 N 579 2 8 N 1 7 N 982 2 8 N 1 7 N 580 0 11 N 1 7 N 983 2 8 N 1 7 N 581 2 8 N 1 7 N 984 2 8 N 1 7 N 582 2 8 N 1 7 N 985 2 8 N 1 7 N 583 2 8 N 1 7 N 986 2 8 N 1 7 N 584 2 8 N 1 7 N 987 2 8 N 1 7 N 586 2 8 N 1 7 N 999 2 8 N													-	
579 2 8 N 1 7 N 982 2 8 N 1 7 N 580 0 11 N 1 7 N 983 2 8 N 1 7 N 581 2 8 N 1 7 N 984 2 8 N 1 7 N 582 2 8 N 1 7 N 985 2 8 N 1 7 N 583 2 8 N 1 7 N 986 2 8 N 1 7 N 584 2 8 N 1 7 N 987 2 8 N 1 7 N 585 2 8 N 1 7 N 988 2 8 N 1 7 N 587 2 8 N 1 7 N 991 2 8 N		_			_				_	-		_	-	
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583 2 8 N 1 7 N 986 2 8 N 1 7 N 584 2 8 N 1 7 N 987 2 8 N 1 7 N 585 2 8 N 1 7 N 988 2 8 N 1 7 N 586 2 8 N 1 7 N 989 2 8 N 1 7 N 587 2 8 N 1 7 N 990 2 8 N 1 7 N 588 2 8 N 1 7 N 991 2 8 N 1 7 N 589 2 8 N 1 7 N 992 2 8 N 1 7 N 590 2 8 N 1 7 N 993 2 8 N <					_	-								
584 2 8 N 1 7 N 987 2 8 N 1 7 N 585 2 8 N 1 7 N 988 2 8 N 1 7 N 586 2 8 N 1 7 N 989 2 8 N 1 7 N 587 2 8 N 1 7 N 990 2 8 N 1 7 N 588 2 8 N 1 7 N 991 2 8 N 1 7 N 589 2 8 N 1 7 N 992 2 8 N 1 7 N 590 2 8 N 1 7 N 993 2 8 N 1 7 N 591 2 8 N 1 7 N 994 2 8 N <	1	_	-		_	-				-		_		
585 2 8 N 1 7 N 988 2 8 N 1 7 N 586 2 8 N 1 7 N 989 2 8 N 1 7 N 587 2 8 N 1 7 N 990 2 8 N 1 7 N 588 2 8 N 1 7 N 991 2 8 N 1 7 N 589 2 8 N 1 7 N 992 2 8 N 1 7 N 590 2 8 N 1 7 N 993 2 8 N 1 7 N 591 2 8 N 1 7 N 994 2 8 N 1 7 N 592 2 8 N 1 7 N 995 2 8 N <			-		_					-		_	-	
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590 2 8 N 1 7 N 993 2 8 N 1 7 N 591 2 8 N 1 7 N 994 2 8 N 1 7 N 592 2 8 N 1 7 N 995 2 8 N 1 7 N 593 2 8 N 1 7 N 996 2 8 N 1 7 N 594 2 8 N 1 7 N 997 2 8 N 1 7 N 595 2 8 N 1 7 N 998 2 8 N 1 7 N	588	2	8	N	1	7	N		2	8	N	1	7	N
591 2 8 N 1 7 N 994 2 8 N 1 7 N 592 2 8 N 1 7 N 995 2 8 N 1 7 N 593 2 8 N 1 7 N 996 2 8 N 1 7 N 594 2 8 N 1 7 N 997 2 8 N 1 7 N 595 2 8 N 1 7 N 998 2 8 N 1 7 N	589	2	8	N	1	7	N	992	2	8	N	1	7	N
592 2 8 N 1 7 N 995 2 8 N 1 7 N 593 2 8 N 1 7 N 996 2 8 N 1 7 N 594 2 8 N 1 7 N 997 2 8 N 1 7 N 595 2 8 N 1 7 N 998 2 8 N 1 7 N	590	2	8	N	1	7	N	993	2	8	N	1	7	N
593 2 8 N 1 7 N 996 2 8 N 1 7 N 594 2 8 N 1 7 N 997 2 8 N 1 7 N 595 2 8 N 1 7 N 998 2 8 N 1 7 N	591	2	8	N	1	7	N	994	2	8	N	1	7	N
594 2 8 N 1 7 N 997 2 8 N 1 7 N 595 2 8 N 1 7 N 998 2 8 N 1 7 N	592	2	8	N	1	7	N	995	2	8	N	1	7	N
595 2 8 N 1 7 N 998 2 8 N 1 7 N	593	2	8	N	1	7	N	996	2	8	N	1	7	N
	594	2	8	N	1	7	N	997	2	8	N	1	7	N
596 2 8 N 1 7 N 999 2 8 N 1 7 N	595	2	8	N	1	7	N	998	2	8	N	1	7	N
	596	2	8	N	1	7	N	999	2	8	N	1	7	N

Figure 12-8: Three-Digit Tables Printout

Print Entire System Database

Programming Steps

1. Press the ENTIRE SYSTEM flexible button (FLASH 85, Button #8). The following message displays:

PRINT DATABASE PRESS HOLD

- 2. To print the entire database, press the HOLD button. The display updates to indicate what portion of the database is printing.
- 3. When the system finishes sending the database to the printer, a confirmation tone is heard.

Description

The Print System Database command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device. Printing the entire database takes a while to print. The database is printed in the following order:

- 1. All System Parameters
- 2. All CO Line Programming
- 3. All CO Ports
- 4. All Station Attributes
- 5. All Station Ports
- 6. Exception Tables (Allow/Deny/Special)
- 7. System Speed Dial Numbers
- 8. ICLID Ringing Assignment Table
- 9. Directory Dialing Table
- 10. Hunt Group Parameters (Bins 020–999)
- 11. ICR Tables
- 12. ICLID Parameters and Table(s)
- 13. ACD* or UCD Group Parameters
- 14. Voice Mail Group Parameters
- 15. DID Translation Table
- 16. DID-TIE Timers
- 17. Verified Account Codes Table

*This feature is available with optional software.

12-28 Database Printing

Print ICLID - DID Tables

Programming Steps

Press the ICLID-DID TABLES flexible button (FLASH 85, Button #9).
 The following message displays:

```
PRINT ICLID-DID
PRESS HOLD
```

2. To print the ICLID-DID Table(s), press the HOLD button. The following messages display:

```
PRINTING ICLID-DID

PRINTING ROUTE

PRINTING ICLID TRANS NO
```

3. When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The Print ICLID-DID Tables command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device. When printing the ICLID-DID Table(s), the following data prints:

- □ ICLID Features
- □ ICLID Translation Table
- □ ICLID Unanswered Call Table
- □ ICLID Answered Call Table
- □ ICLID Ringing Assignments Table
- □ DID Translation Table

CLID	NAME	BAUD	PORT	ICLID UNANSWERED CALL TABLE
1	Y	9600	1	NONE
	ANSLATION TA			ICLID ANSWERED CALL TABLE
ENTRY	ROUTE	NAME	NUMBER	NONE ROUTE RING ASSIGNMENTS
500	##			
501	##			00
02	##		•	NONE
503	##		•	
04	##		•	01
505	##			NONE
06	##			
507	##		•	02
808	##		•	NONE
09	##		•	
10	##		•	03
511	##		•	NONE
512	##		•	
13	##		•	04
514	##		•	NONE
515 516	##		•	05
516 517	## ##		•	NONE
517 518	##		•	NOINE
519	##			06
520	##		•	NONE
521	##		· ·	
522	##			07
523	##		•	NONE
524	##			
525	##			08
526	##			NONE
527	##			
28	##			09
529	##		•	NONE
30	##		•	
31	##		•	10
32	##		•	NONE
33	##		•	11
34	##		•	11
35	##		•	NONE
536 537	##		•	12
53 / 538	## ##		•	12 NONE
000	##		•	INOINE

Figure 12-9: ICLID Translation Tables Printout

12-30 Database Printing

13	106
NONE	106A
14	107
NONE	107A
15	108
NONE	108A
16	109
NONE	109A
17	110
NONE	110A
18 NONE	
19	130
NONE	130A
20 NONE	
21	150
NONE	150A
and so on through 99	
100	170
100A	170A
101 101A	
102	190
102A	190A
103 103A	
104	210
104A	210A
105 105A	and so on through 252

Figure 12-9: ICLID Translation Tables Printout

	DID TRAN	SLATION TAB	LE	045	145	0000045	
				046	146	0000015	
ENTRY	ROUTE	NUMBER	NAME	047	147	0000047	
000	100	0000000	NAPIL	048	148	0000047	
0.01	101	0000000		049	149	0000049	
0 02	102	0000001		050	150	0000049	
0 03	103	0000002		051	151	0000050	
0 04	104	0000003		052	152	0000052	
0.05	105	0000005		053	153	0000052	
0 06	106	0000005		054	154	0000055	
007	107	0000007		055	155	0000054	
0.08	108	0000008		056	156	0000056	
0 09	109	0000009		057	157	0000057	
010	110	0000010		058	158	0000057	
011	111	0000010		059	159	0000059	
012	112	0000011		060	160	0000000	
013	113	0000013		061	161	0000061	
014	114	0000014		062	162	0000062	
015	115	0000015		063	163	0000063	
016	116	0000015		064	164	0000064	
017	117	0000017		065	165	0000001	
018	118	0000018		066	166	0000066	
019	119	0000019		067	167	0000067	
020	120	0000020		068	168	0000068	
021	121	0000020		069	169	0000069	
022	122	0000021		070	170	0000000	
023	123	0000023		071	171	0000071	
024	124	0000024		072	172	0000072	
025	125	0000025		073	173	0000073	
026	126	0000026		074	174	0000074	
027	127	0000027		075	175	0000075	
028	128	0000028		076	176	0000076	
029	129	0000029		077	177	0000077	
030	130	0000030		078	178	0000078	
031	131	0000031		079	179	0000079	
032	132	0000032		080	180	0000080	
033	133	0000033		081	181	0000081	
034	134	0000034		082	182	0000082	
035	135	0000035		083	183	0000083	
036	136	0000036		084	184	0000084	
037	137	0000037		085	185	0000085	
038	138	0000038		086	186	0000086	
039	139	0000039		087	187	0000087	
040	140	0000040		088	188	0000088	
041	141	0000041		089	189	0000089	
042	142	0000042		090	190	0000090	
043	143	0000043		091	191	0000091	
044	144	0000044		092	192	0000092	
1							

Figure 12-10: DID Translation Tables Printout

12-32 Database Printing

093	193	0000093	139	139	0000139
094	194	0000093	140	140	0000139
094	194	0000094	140	141	0000140
095	196	0000095	142	141	0000141
096	196	0000098	142	142	0000142
097	197	0000097	143	143	0000143
098	198	0000098	145	144	0000144
1					
100	100	0000100	146	146	0000146
101 102	101 102	0000101 0000102	147 148	147 148	0000147 0000148
102	102	0000102	149	149	0000148
			150	150	0000149
104 105	104 105	0000104 0000105	151	150	0000150
105	105	0000105	152	151	0000151
107	107	0000100	153	152	0000152
107	107	0000107	153	153 154	0000153
108	109	0000108	155	154	0000154
110	110	0000109		156	0000155
1110	111	0000110	156 157	156	0000156
111	112	0000111	157	157	0000157
113	113	0000112	159	159	0000158
114	114	0000113	160	160	0000139
114	115	0000114	161	161	0000160
116	116	0000115	162	162	0000161
117	117	0000117	163	163	0000163
118	118	0000117	164	164	0000163
119	119	0000119	165	165	0000165
120	120	0000120	166	166	0000166
121	121	0000121	167	167	0000167
122	122	0000122	168	168	0000168
123	123	0000123	169	169	0000169
124	124	0000124	170	170	0000170
125	125	0000125	171	171	0000171
126	126	0000126	172	172	0000172
127	127	0000127	173	173	0000173
128	128	0000128	174	174	0000174
129	129	0000129	175	175	0000175
130	130	0000130	176	176	0000176
131	131	0000131	177	177	0000177
132	132	0000132	178	178	0000178
133	133	0000133	179	179	0000179
134	134	0000134	180	180	0000180
135	135	0000135	181	181	0000181
136	136	0000136	182	182	0000182
137	137	0000137	183	183	0000183
138	138	0000138	184	184	0000184

Figure 12-10: DID Translation Tables

185	185	0000185	232	132	0000232
186	186	0000186	233	133	0000233
187	187	0000187	234	134	0000234
188	188	0000188	235	135	0000235
189	189	0000189	236	136	0000236
190	190	0000190	237	137	0000237
191	191	0000191	238	138	0000238
192	192	0000192	23 9	139	0000239
193	193	0000193	24 0	140	0000240
194	194	0000194	241	141	0000241
195	195	0000195	242	142	0000242
196	196	0000196	243	143	0000243
197	197	0000197	244	144	0000244
198	198	0000198	245	145	0000245
199	199	0000199	246	146	0000246
200	100	0000200	247	147	0000247
201	101	0000201	248	148	0000248
202	102	0000202	24 9	149	0000249
203	103	0000203	250	150	0000250
204	104	0000204	251	151	0000251
205	105	0000205	252	152	0000252
206	106	0000206	253	153	0000253
207	107	0000207	254	154	0000254
208	108	0000208	255	155	0000255
209	109	0000209	256	156	0000256
210	110	0000210	257	157	0000257
211	111	0000211	258	158	0000258
212	112	0000212	259	159	0000259
213	113	0000213	260	160	0000260
214	114	0000214	261	161	0000261
215	115	0000215	262	162	0000262
216	116	0000216	263	163	0000263
217	117	0000217	264	164	0000264
218	118	0000218	265	165	0000265
219	119	0000219	266	166	0000266
220	120	0000220	267	167	0000267
221	121	0000221	268	168	0000268
222	122	0000222	269	169	0000269
223	123	0000223	270	170	0000270
224	124	0000224	271	171	0000271
225	125	0000225	272	172	0000272
226	126	0000226	273	173	0000273
227	127	0000227	274	174	0000274
228	128	0000228	275	175	0000275
229	129	0000229	276	176	0000276
230	130	0000230	277	177	0000277
231	131	0000231	278	178	0000278

Figure 12-10: DID Translation Tables

279	170	0000000	206	126	000000
	179	0000279	326	126	0000326
280	180 181	0000280 0000281	327	127	0000327
281			328		0000328
282	182	0000282	329	129	0000329
283	183	0000283	330	130	0000330
284	184	0000284	331	131	0000331
285	185	0000285	332	132	0000332
286	186	0000286	333	133	0000333
287	187	0000287	334	134	0000334
288	188	0000288	335	135	0000335
289	189	0000289	336	136	0000336
290	190	0000290	337	137	0000337
291	191	0000291	338	138	0000338
292	192	0000292	339	139	0000339
293	193	0000293	340	140	0000340
294	194	0000294	341	141	0000341
295	195	0000295	342	142	0000342
296	196	0000296	343	143	0000343
297	197	0000297	344	144	0000344
298	198	0000298	345	145	0000345
299	199	0000299	346	146	0000346
300	100	0000300	347	147	0000347
301	101	0000301	348	148	0000348
302	102	0000302	349	149	0000349
303	103	0000303	350	150	0000350
304	104	0000304	351	151	0000351
305	105	0000305	352	152	0000352
306	106	0000306	353	153	0000353
307	107	0000307	354	154	0000354
308	108	0000308	355	155	0000355
309	109	0000309	356	156	0000356
310	110	0000310	357	157	0000357
311	111	0000311	358	158	0000358
312	112	0000312	359	159	0000359
313	113	0000313	360	160	0000360
314	114	0000314	361	161	0000361
315	115	0000315	362	162	0000362
316	116	0000316	363	163	0000363
317	117	0000317	364	164	0000364
318	118	0000318	365	165	0000365
319	119	0000319	366	166	0000366
320	120	0000320	367	167	0000367
321	121	0000321	368	168	0000368
322	122	0000322	369	169	0000369
323	123	0000323	370	170	0000370
324	124	0000324	371	171	0000371
325	125	0000325	372	172	0000372

Figure 12-10: DID Translation Tables

	4.50	0000000	100	100	0000000
373	173	0000373	420	120	0000420
374	174	0000374	421	121	0000421
375	175	0000375	422	122	0000422
376	176	0000376	423	123	0000423
377	177	0000377	424	124	0000424
378	178	0000378	425	125	0000425
379	179	0000379	426	126	0000426
380	180	0000380	427	127	0000427
381	181	0000381	428	128	0000428
382	182	0000382	429	129	0000429
383	183	0000383	430	130	0000430
384	184	0000384	431	131	0000431
385	185	0000385	432	132	0000432
386	186	0000386	433	133	0000433
387	187	0000387	434	134	0000434
388	188	0000388	435	135	0000435
389	189	0000389	436	136	0000436
390	190	0000390	437	137	0000437
391	191	0000391	438	138	0000438
392	192	0000392	439	139	0000439
393	193	0000393	440	140	0000440
394	194	0000394	441	141	0000441
395	195	0000395	442	142	0000442
396	196	0000396	443	143	0000443
397	197	0000397	444	144	0000444
398	198	0000398	445	145	0000445
399	199	0000399	446	146	0000446
400	100	0000400	447	147	0000447
401	101	0000401	448	148	0000448
402	102	0000402	449	149	0000449
403	103	0000403	450	150	0000450
404	104	0000404	451	151	0000451
405	105	0000405	452	152	0000452
406	106	0000406	453	153	0000453
407	107	0000407	454	154	0000454
408	108	0000408	455	155	0000455
409	109	0000409	456	156	0000456
410	110	0000410	457	157	0000457
411	111	0000411	458	158	0000458
412	112	0000412	459	159	0000459
413	113	0000413	460	160	0000460
414	114	0000414	461	161	0000461
415	115	0000415	462	162	0000462
416	116	0000416	463	163	0000463
417	117	0000417	464	164	0000464
418	118	0000418	465	165	0000465
419	119	0000419	466	166	0000466
1					

Figure 12-10: DID Translation Tables

467	167	0000467	514	114	0000514
1	168		514	114 115	0000514
468	168	0000468 0000469	515	116	0000515 0000516
469 470	170	0000489	516	117	0000516
471	171	0000470	517	117	0000517
1					
472	172	0000472	519	119	0000519
473	173	0000473	520	120	0000520
474	174	0000474	521	121	0000521
475	175	0000475	522	122	0000522
476 477	176 177	0000476	523	123 124	0000523 0000524
1		0000477	524		
478	178	0000478	525	125	0000525
479	179	0000479	526	126	0000526
480	180	0000480	527	127	0000527
481	181	0000481	528	128	0000528
482	182	0000482	529	129	0000529
483	183	0000483	530	130	0000530
484	184	0000484	531	131	0000531
485	185	0000485	532	132	0000532
486	186	0000486	533	133	0000533
487	187	0000487	534	134	0000534
488	188	0000488	535	135	0000535
489	189	0000489	536	136	0000536
490	190	0000490	537	137	0000537
491	191	0000491	538	138	0000538
492	192	0000492	539	139	0000539
493	193	0000493	540	140	0000540
494	194	0000494	541	141	0000541
495	195	0000495	542	142	0000542
496	196	0000496	543	143	0000543
497	197	0000497	544	144	0000544
498	198	0000498	545	145	0000545
499	199	0000499	546	146	0000546
500	100	0000500	547	147	0000547
501	101	0000501	548	148	0000548
502	102	0000502	549	149	0000549
503	103	0000503	5 50	150	0000550
504	104	0000504	5 5 1	151	0000551
505	105	0000505	5 52	152	0000552
506	106	0000506	5 53	153	0000553
507	107	0000507	5 54	154	0000554
508	108	0000508	5 55	155	0000555
509	109	0000509	5 56	156	0000556
510	110	0000510	5 57	157	0000557
511	111	0000511	5 58	158	0000558
512	112	0000512	559	159	0000559
513	113	0000513	560	160	0000560

Figure 12-10: DID Translation Tables

561	161	0000561	6 0 8	108	0000608	
562	162	0000562	6 0 9	109	0000609	
563	163	0000563	610	110	0000610	
564	164	0000564	611	111	0000611	
565	165	0000565	612	112	0000612	
566	166	0000566	613	113	0000613	
567	167	0000567	614	114	0000614	
568	168	0000568	615	115	0000615	
569	169	0000569	616	116	0000616	
570	170	0000570	617	117	0000617	
571	171	0000571	618	118	0000618	
572	172	0000572	619	119	0000619	
573	173	0000573	620	120	0000620	
574	174	0000574	621	121	0000621	
575	175	0000575	622	122	0000622	
576	176	0000576	623	123	0000623	
577	177	0000577	624	124	0000624	
578	178	0000578	625	125	0000625	
579	179	0000579	626	126	0000626	
580	180	0000580	627	127	0000627	
581	181	0000581	628	128	0000628	
582	182	0000582	629	129	0000629	
583	183	0000583	630	130	0000630	
584	184	0000584	631	131	0000631	
585	185	0000585	632	132	0000632	
586	186	0000586	633	133	0000633	
587	187	0000587	634	134	0000634	
588	188	0000588	635	135	0000635	
58 9	189	0000589	636	136	0000636	
590	190	0000590	637	137	0000637	
591	191	0000591	638	138	0000638	
592	192	0000592	639	139	0000639	
593	193	0000593	640	140	0000640	
594	194	0000594	641	141	0000641	
595	195	0000595	642	142	0000642	
596	196	0000596	643	143	0000643	
597	197	0000597	644	144	0000644	
598	198	0000598	645	145	0000645	
599	199	0000599	646	146	0000646	
600	100	0000600	647	147	0000647	
601	101	0000601	648	148	0000648	
602	102	0000602	649	149	0000649	
603	103	0000603	650	150	0000650	
604	104	0000604	651	151	0000651	
605	105	0000605	652	152	0000652	
606	106	0000606	653	153	0000653	
607	107	0000607	6 54	154	0000654	
1						

Figure 12-10: DID Translation Tables

12-38 Database Printing

		0000055	T.00	100	0.000.700
655	155	0000655	702	102	0000702
656	156	0000656	703	103	0000703
657	157	0000657	704	104	0000704
658	158	0000658	705	105	0000705
659	159	0000659	7 06	106	0000706
660	160	0000660	7 07	107	0000707
661	161	0000661	7 08	108	0000708
662	162	0000662	7 09	109	0000709
663	163	0000663	710	110	0000710
664	164	0000664	711	111	0000711
665	165	0000665	712	112	0000712
666	166	0000666	713	113	0000713
667	167	0000667	714	114	0000714
668	168	0000668	715	115	0000715
669	169	0000669	716	116	0000716
670	170	0000670	717	117	0000717
671	171	0000671	718	118	0000718
672	172	0000672	719	119	0000719
673	173	0000673	720	120	0000720
674	174	0000674	721	121	0000721
675	175	0000675	722	122	0000722
676	176	0000676	723	123	0000723
677	177	0000677	724	124	0000724
678	178	0000678	725	125	0000725
679	179	0000679	726	126	0000726
680	180	0000680	727	127	0000727
681	181	0000681	728	128	0000728
682	182	0000682	729	129	0000729
683	183	0000683	730	130	0000730
684	184	0000684	731	131	0000731
685	185	0000685	732	132	0000732
686	186	0000686	733	133	0000733
687	187	0000687	734	134	0000734
688	188	0000688	735	135	0000735
689	189	0000689	736	136	0000736
690	190	0000689	737	137	0000737
691	191	0000691	738	138	0000738
692	192	0000692	739	139	0000739
693	193	0000693	740	140	0000740
694	194	0000694	741	141	0000741
695	195	0000695	742	142	0000742
696	196	0000696	743	143	0000743
697	197	0000697	744	144	0000744
698	198	0000698	745	145	0000745
699	199	0000699	746	146	0000746
700	100	0000700	747	147	0000747
701	101	0000701	748	148	0000748

Figure 12-10: DID Translation Tables

749	149	0000749	796	196	0000796	
750	150	0000750	797	197	0000797	
751	151	0000751	798	198	0000798	
752	152	0000752	799	199	0000799	
753	153	0000753	800	100	0000800	
754	154	0000754	801	101	0000801	
755	155	0000755	802	102	0000802	
756	156	0000756	803	103	0000803	
757	157	0000757	804	104	0000804	
758	158	0000758	805	105	0000805	
759	159	0000759	806	106	0000806	
760	160	0000760	807	107	0000807	
761	161	0000761	808	108	0000808	
762	162	0000762	809	109	0000809	
763	163	0000763	810	110	0000810	
764	164	0000764	811	111	0000811	
765	165	0000765	812	112	0000812	
766	166	0000766	813	113	0000813	
767	167	0000767	814	114	0000814	
768	168	0000768	815	115	0000815	
769	169	0000769	816	116	0000816	
770	170	0000770	817	117	0000817	
771	171	0000771	818	118	0000818	
772	172	0000772	819	119	0000819	
773	173	0000773	820	120	0000820	
774	174	0000774	821	121	0000821	
775	175	0000775	822	122	0000822	
776	176	0000776	823	123	0000823	
777	177	0000777	824	124	0000824	
778	178	0000778	825	125	0000825	
779	179	0000779	826	126	0000826	
780	180	0000780	827	127	0000827	
781	181	0000781	828	128	0000828	
782	182	0000782	829	129	0000829	
783	183	0000783	830	130	0000830	
784	184	0000784	831	131	0000831	
785	185	0000785	832	132	0000832	
786	186	0000786	833	133	0000833	
787	187	0000787	834	134	0000834	
788	188	0000788	835	135	0000835	
789	189	0000789	836	136	0000836	
790	190	0000790	837	137	0000837	
791	191	0000791	838	138	0000838	
792	192	0000792	839	139	0000839	
793	193	0000793	840	140	0000840	
794	194	0000794	841	141	0000841	
795	195	0000795	842	142	0000842	

Figure 12-10: DID Translation Tables

1					
843	143	0000843	890	190	0000890
844	144	0000844	891	191	0000891
845	145	0000845	892	192	0000892
846	146	0000846	893	193	0000893
847	147	0000847	894	194	0000894
848	148	0000848	895	195	0000895
84 9	149	0000849	896	196	0000896
850	150	0000850	897	197	0000897
851	151	0000851	898	198	0000898
852	152	0000852	899	199	0000899
853	153	0000853	900	100	0000900
854	154	0000854	901	101	0000901
855	155	0000855	902	102	0000902
856	156	0000856	903	103	0000903
857	157	0000857	904	104	0000904
858	158	0000858	905	105	0000905
859	159	0000859	906	106	0000906
860	160	0000860	907	107	0000907
861	161	0000861	908	108	0000908
862	162	0000862	909	109	0000909
863	163	0000863	910	110	0000910
864	164	0000864	911	111	0000911
865	165	0000865	912	112	0000912
866	166	0000866	913	113	0000913
867	167	0000867	914	114	0000914
868	168	0000868	915	115	0000915
869	169	0000869	916	116	0000916
870	170	0000870	917	117	0000917
871	171	0000871	918	118	0000918
872	172	0000872	919	119	0000919
873	173	0000873	920	120	0000920
874	174	0000874	921	121	0000921
875	175	0000875	922	122	0000922
876	176	0000876	923	123	0000923
877	177	0000877	924	124	0000924
878	178	0000878	925	125	0000925
879	179	0000879	926	126	0000926
88 0	180	0000880	927	127	0000927
881	181	0000881	928	128	0000928
882	182	0000882	929	129	0000929
883	183	0000883	93 0	130	0000930
884	184	0000884	931	131	0000931
885	185	0000885	932	132	0000932
886	186	0000886	933	133	0000933
887	187	0000887	934	134	0000934
888	188	0000888	935	135	0000935
889	189	0000889	936	136	0000936

Figure 12-10: DID Translation Tables

937	137	0000937	969	169	0000969	
937	138		970	170		
938	138	0000938 0000939	970 971	170 171	0000970 0000971	
	140		971	171 172		
940		0000940	972	172	0000972	
941	141	0000941			0000973	
942	142	0000942	974	174	0000974	
943	143	0000943	975	175	0000975	
944	144	0000944	976	176	0000976	
945	145	0000945	977	177	0000977	
946	146	0000946	978	178	0000978	
947	147	0000947	979	179	0000979	
948	148	0000948	980	180	0000980	
949	149	0000949	981	181	0000981	
950	150	0000950	982	182	0000982	
951	151	0000951	983	183	0000983	
952	152	0000952	984	184	0000984	
953	153	0000953	985	185	0000985	
954	154	0000954	986	186	0000986	
955	155	0000955	987	187	0000987	
956	156	0000956	988	188	0000988	
957	157	0000957	989	189	0000989	
958	158	0000958	990	190	0000990	
959	159	0000959	991	191	0000991	
960	160	0000960	992	192	0000992	
961	161	0000961	993	193	0000993	
962	162	0000962	994	194	0000994	
963	163	0000963	995	195	0000995	
964	164	0000964	996	196	0000996	
965	165	0000965	997	197	0000997	
966	166	0000966	998	198	0000998	
967	167	0000967	999	199	0000999	
968	168	0000968				

Figure 12-10: DID Translation Tables

12-42 Database Printing

Print Directory Dial Table Parameters

Programming Steps

1. Press the DIRECTORY DIAL TABLE flexible button (FLASH 85, Button #10). The following message displays:

```
PRINT DIR - DIAL
PRESS HOLD
```

2. To print the Directory Dialing Table parameters, press the HOLD button. The following message displays:

```
PRINTING DIR - DIAL
```

When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The Print Directory Dialing Table command dumps the entire data base as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device. This is an example of the Directory Dialing Table database printout.

LST	BIN	NAME	049	149
LST	BIN	INAME.	050	150
000	100		051	151
001	101		052	152
001	101		052	153
002	102		054	154
003	103		055	155
005	105		056	156
006	106		057	157
007	107		058	158
00 7	107		059	159
000	100		060	160
010	110		061	161
011	111		062	162
011	112		063	163
013	113		064	164
013	114		065	165
014	115		066	166
016	116		067	167
017	117		068	168
018	118		069	169
019	119		070	170
020	120		071	171
021	121		072	172
022	122		073	173
023	123		074	174
024	124		075	175
025	125		076	176
026	126		077	177
027	127		078	178
028	128		079	179
029	129		080	180
03 0	130		081	181
031	131		082	182
032	132		083	183
033	133		084	184
034	134		085	185
035	135		086	186
036	136		087	187
037	137		088	188
038	138		089	189
041	141		090	190
042	142		093	193
043	143		094	194
044	144		095	195
045	145		096	196
046	146		097	197
047	147		098	198
048	148		099	199

Figure 12-11: Directory Dialing Table Printout

12-44 Database Printing

Print Hunt Group Parameters

Programming Steps

1. Press the HUNT GROUPS flexible button (FLASH 85, Button #11). The following message displays:

```
PRINT HUNT GROUP
PRESS HOLD
```

2. To print data for Hunt Group Parameters, press the HOLD button. The following message displays:

```
PRINTING HUNT GROUP
```

When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The Print Hunt Group command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

RAN HUNT GROUPS			
HG 8458 PILOT RING ONE			
HG 9459 PILOT RING ONE			
HG10460 PILOT RING ONE			
HG11461 PILOT RING ONE			

Figure 12-12: Hunt Group Parameters Printout

Print ACD / UCD Group Parameters

Programming Steps

 Press the ACD* or UCD GROUPS flexible button (FLASH 85, Button #12). The following message displays:

PRINT ACD GROUP PRESS HOLD

2. To print data for the ACD* or UCD Group Parameters, press the HOLD button. The following message displays:

PRINTING ACD GROUP

When the system finishes sending the requested information to the printer, a confirmation to ne is heard.

* The ACD feature is available with optional software.

Description

The Print ACD/UCD Group command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device. The following represents an example of the ACD or UCD Group Parameters database printout.

12-46 Database Printing

ACD	IQ Thrshold	Wrapup Time	Overflow Timer	Call Factor	ACD Timers
550	0	4	60	0	RING MIT OVER WRAP NAT NAR FRI
55 1	0	4	60	0	60 60 60 4 0 300 5
552	0	4	60	0	
553	0	4	60	0	Announcement Table
554	0	4	60	0	
555	0	4	60	0	Table Type Index Time
556	0	4	60	0	1 # ### ###
557	0	4	60	0	2 # ### ###
558	0	4	60	0	3 # ### ###
559	0	4	60	0	4 # ### ###
560	0	4	60	0	5 # ### ###
561	0	4	60	0	6 # ### ###
562	0	4	60	0	7 # ### ###
563	0	4	60	0	8 # ### ###
564	0	4	60	0	ACD SMDR Reporting
565	0	4	60	0	
					CO ICM EVT I/O BAUD
					N N N 1 9600

Figure 12-13: ACD Group Parameters Printout

Print Voice Mail Group Parameters

Programming Steps

1. Press the VOICE MAIL GROUP flexible button (FLASH 85, Button #13). The following message displays:

```
PRINT VM GROUP
PRESS HOLD
```

2. To print data for Voice Mail Group Parameters, press the HOLD button. The following message displays:

```
PRINTING VM GROUP
```

When the system finishes sending the requested information to the printer, a confirmation to neis heard.

Description

The Print Voice Mail Group command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device. When printing the VM Group Parameters, the following data prints:

- □ Voice Mail Group Parameters
- □ Voice Mail Outpulsing Table (including the disconnect table)
- □ Voice Mail Options

VM ALT LEV RET STN#	Mailbox Table
440 0## 1	Index Group ID
441 ### #	1 440
142 ### #	2 440
143 ### #	3 440
144 ### #	4 440
145 ### #	5 440
146 ### #	6 440
147 ### #	7 440
	8 440
VOICE MAIL OUT TABLE	9 440
	10 440
ΓABLE	11 440
IDX PREFIX SUFFIX	12 440
0 P7E	13 440
1 P7E *E	14 440
2	15 440
3	16 440
4	17 440
5	18 440
6	19 440
7 2E	20 440
VOICE MAIL CO DISCONNECT SIGNAL	• • • • • • • • • • • • • • • • • • • •
APPLY IN-BAND DIGITS TO CO CALLS	240 440
Y	241 440
	242 440
ALLOW FORWARD TO VM GROUP	243 440
Υ	244 440
VM BROKER CALL	245 440
Y	246 440
	 255 440

Figure 12-14: Voice Mail Group Parameters Printout

12-48 Database Printing

Print DID-TIE Parameters

Programming Steps

1. Press the DID-TIE PARAMETERS flexible button (FLASH 85, Button #14). The following message displays:

```
PRINT DID/TIE TMRS
PRESS HOLD
```

2. To print the DID-TIE Parameters, press the HOLD button. The following message displays:

```
PRINTING DID/TIE TMRS
```

When the system has finished sending the requested information to the printer, confirmation tone is heard.

Description

The Print DID-TIE command dumps the entire database as a permanent record which can serve as a hard copy of the database. The system baud rate must match that of the printer or receiving device.

When printing the DID-TIETimers, the following data is printed:

- □ DID Parameters and Timers
- □ TIE Line Parameters and Timers

```
DID SIGNALING - WINK
DID DIGITS - 3

TIE SIGNALING - WINK
DID INC SIGNALING - DTMF
TIE INC SIGNALING - DTMF
T1 INC SIGNALING - DTMF
```

Figure 12-15: DID-TIE Parameters Printout

Print Verified Account Codes

Programming Steps

1. Press the VERIFIED ACCT CODES flexible button (FLASH 85, Button #15). The following message displays:

```
PRINT ACCT CODES
PRESS HOLD
```

2. To print the VERIFIED ACCT CODES, press the HOLD button. The following message displays:

```
PRINTING ACCT CODES
```

When the system finishes sending the requested information to the printer, a confirmation tone is heard.

Description

The Print Verified Account Codes command dumps the entire database as a permanent record which can serve as a hardcopy of the database. The system baud rate must match that of the printer or receiving device.

AC COUNT	r code	TABLE	11	##	26	##
ENTRY	COS	DGTS	12	##	27	##
			13	##	28	##
0.0			14	##	29	##
00	##		15	##	3 0	##
01	##		16	##	31	##
02	##		17	##	32	##
03	##		18	##	3 3	##
04	##		19	##	34	##
05	##		20	##	35	##
06	##		21	##	36	##
07	##		22	##	3 7	##
08	##		23	##	38	##
09	##		24	##	3 9	##
10	##		25	##	40	##
					and	l so on through 249

Figure 12-16: Verified Account Codes Printout

12-50 Database Printing

Print ISDN Parameters

Programming Steps

Press the ISDN PARAMETERS flexible button (FLASH 85, Button #16).
 The following message displays:

```
PRINT ISDN TMRS
PRESS HOLD
```

2. To print the ISDN Parameters, press the HOLD button. The following message displays:

```
PRINTING ISDN TMRS
```

When the system has finished sending the requested information to the printer, confirmation tone is heard.

Description

The Print ISDN command dumps the entire database as a permanent record which can serve as a hard copy of the database. The system baud rate must match that of the printer or receiving device.

When printing the ISDN Timers, the following data is printed:

- □ ISDN Parameters and Timers
- □ ISDN Line Parameters and Timers

```
ISDN SIGNALING - WINK
ISDN DIGITS - 3

ISDN SIGNALING - WINK
ISDN INC SIGNALING - DTMF
ISDN INC SIGNALING - DTMF
ISDN INC SIGNALING - DTMF
```

Figure 12-17: ISDN Parameters Printout

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