

Telephone
Programming

Features

IntraMail

Cross
Reference

DSX
Program List

DSX

Programmer's Quick Reference

P/N 1093089

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

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Telephone Programming

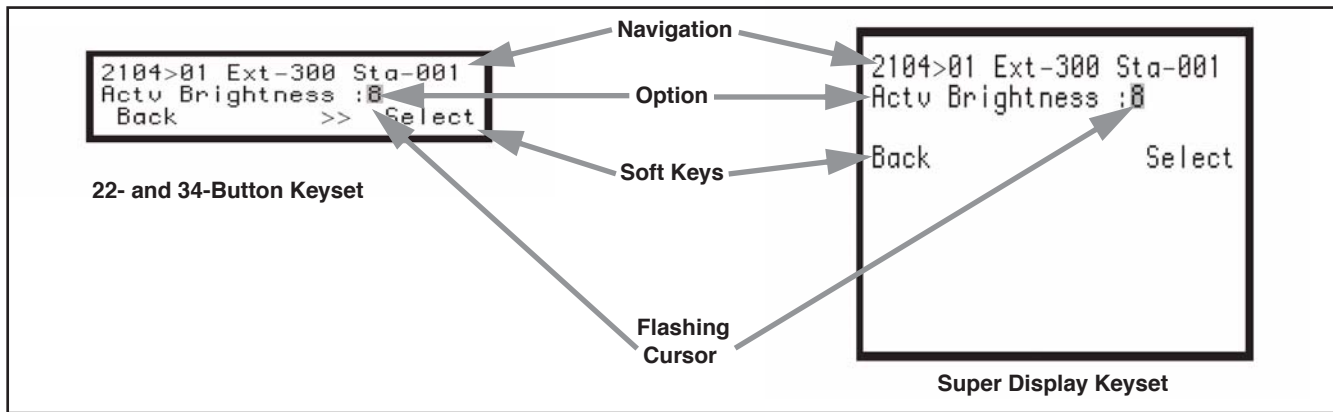
Entering the Programming Mode

Entering the Programming Mode	
From any DSX keyset:	
1.	Press INTERCOM .
2.	Dial #*#* .
3.	Enter the system password. <ul style="list-style-type: none">• 0000 = System Administrator 1 (level 1)• 9999 = System Administrator 2 (level 2)• 632379 (NECDSX) = Installer (level 3)
4.	Press HOLD .
5.	See <i>Navigating through Telephone Programming</i> on the next page for more.

Telephone Programming

Navigating through Telephone Programming

Use the following guidelines when using the DSX telephone programming.

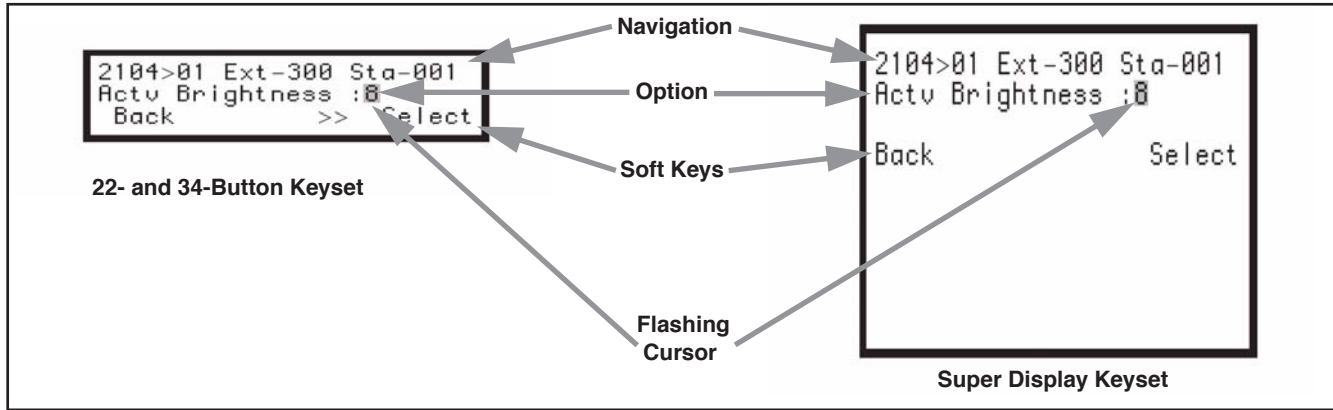


Navigation (Line 1)

Use this line to select the program, option, port, extension, or table you want to customize. After entering the programming mode and selecting a program (e.g. 2104-01), *Navigation* (line 1) shows:

- The program (**2104**) and option number (**01**).
- The port's extension number - if any (**Ext-300**)
- The station, line, COS, or table number (**Sta-001**).

<i>Navigation</i> (Line 1) [] = Soft Key	
To advance to the option line (for editing data):	
1.	While the option is flashing (e.g., 01 in the above example), press HOLD twice. <ul style="list-style-type: none"> • Pressing Volume up and Volume down will scroll through the options for the selected port.
To select another extension and advance to the option line (for entering data):	
1.	While the option is flashing (e.g., 01 in the above example), press HOLD + Enter extension number + HOLD .
To navigate by extension or station instead of option:	
1.	While the option is flashing (e.g., 01 in the above example), press [>>] or TRANSFER . <ul style="list-style-type: none"> • Select either the extension number or station port.
2.	Press Volume Up and Volume Down to scroll through the same option for stations or extensions, depending on which you selected.
3.	Press [Select] or HOLD to advance (drill down to) the option.
Key Options	
HOLD or [Select]	Advance (drill down to) <i>Options</i> .
SPEAKER	Sequentially back up (and out) of programming. <ul style="list-style-type: none"> • SPEAKER normally flashes green. In the data entry mode it flashes red.
[Back]	Sequentially back up (and out) of programming.



Option (Line 2)

Use this line to enter data for the option selected. *Option* (line 2) shows:

- The option selected (**Actv Brightness**).
- The current setting (**8**).

Option (Line 2) [] = Soft Key	
To enter new data for the option selected:	
1.	Do one of the following.
a.	For alphanumeric entries (such as a timer value), enter the value + HOLD or [Select].
b.	For list (fixed-choice) entries, do one of the following:
i	Press the Feature Key (if illuminated) for the option you want. <ul style="list-style-type: none"> • The key for the currently programmed entry is green - all other selections are red. • If there are more than 12 choices for an option, Feature Key selection is not available.
ii	Dial the entry number.
iii	Press Volume up or Volume to scroll through the available entries.
Key Options	
HOLD or [Enter]	Initially after entering data, it returns you to the same option. Subsequent presses do one of the following: <ul style="list-style-type: none"> • If the option is selected in the <i>Navigation</i> line, advances to the next option. <ul style="list-style-type: none"> - Subsequent presses eventually return you to the <i>Navigation</i> line for the program's first option. • If a port, COS, or table is selected in the <i>Navigation</i> line, advances to the item of same type. <ul style="list-style-type: none"> - Subsequent presses eventually return you to the first port, COS, or table. • If an extension is selected in the <i>Navigation</i> line, advances to the next extension. <ul style="list-style-type: none"> - Subsequent presses eventually return you to the first extension.
SPEAKER	Sequentially back up (and out) of programming. <ul style="list-style-type: none"> • SPEAKER normally flashes green. In the data entry mode it flashes red.
[Back]	Sequentially back up (and out) of programming.
CLEAR	Does one of the following while editing alphanumeric entries: <ul style="list-style-type: none"> • Clears character to the right (except at beginning and end of line). • At beginning of line, erases entire entry. • At end of line, becomes a backspace key
CHECK	Restore the previous entry.

Features

DSX Programmer's Quick Reference - Features (Page 1 of 19)		
Feature	Description	Programming
A		
Account Codes	Categorize and/or restrict outside calls.	<u>General Account Code Programming</u> 1551-02: Account Codes in Speed Dial 1551-01: # to enter Account Code 1551-03: Hide Account Codes 2121-[01-24]: 26 for Account Code key 2402-[01-60]: 26 for DSS Console Account Code key <u>Forced Account Codes</u> 2101-01: Extension Class of Service 1412-04: Enable Forced Account Codes 1412-06: Account Codes for Toll Calls Only 1551-04: Account Code Toll Restriction Level 3111-01: Disable Forced Account Codes per line <u>Verified Account Codes</u> 2101-04: Extension Class of Service 1412-05: Enable Verified Account Codes 36xx: Verified Account Codes Table
	Operation:	Answer or place call + Acct Code [Acct] + Dial Code + Acct Code [Acct]
Attendant Position	The system's call processing focal point.	1501-01: Number of operators 1502-01: Operator 1 1502-02: Operator 2 1502-03: Operator 3 1502-04: Operator 4 2114-03: Station's Operator Assignment
	Operation:	INTERCOM + Dial 0 .
Auto Redial	Auto Redial can periodically retry an outside number.	1602-06: Repeat Redial Timer 1602-07: Repeat Redial Busy Timer
	Operation:	Place call and hear busy + Auto Redial [AInd]

Features

DSX Programmer's Quick Reference - Features (Page 2 of 19)		
Feature	Description	Programming
Automatic Handsfree	Place or answer a call Handsfree by just pressing a key.	1512-01: Enable system-wide 2112-01: Enable for extension
Operation:	Automatic when you press the key.	
B		
Background Music	Broadcast music through the telephone speaker.	1521-03: Select music source 2111-02: Allow for extension
Operation:	Press HOLD to turn BGM on and off.	
Barge In	In an emergency, get through to a co-worker right away.	2102-01: Extension Class of Service 1402-02: Enable Barge In 1401-03: Enable Privacy to block Barge In
Operation:	Call busy extension or line + Barge In [More + Barg]	
C		
Call Coverage Keys	Cover a co-worker's calls from your own extension.	2121-[01-24]: 06 for Immediate Ring Call Coverage key 2121-[01-24]: 07 for No Ring Call Coverage key 2121-[01-24]: 08 for Delay Ring Call Coverage key 2402-[01-60]: 06 for DSS Console Immediate Ring Call Coverage key 2402-[01-60]: 07 for DSS Console No Ring Call Coverage key 2402-[01-60]: 08 for DSS Console Delay Ring Call Coverage key 1604-02: Call Cover Delay Ring Timer
Operation:	Press key to answer or place call to covered extension.	
Call Forwarding	Redirect calls to another extension.	2102-01: Extension Class of Service 1406-02: Enable Internal Call Forwarding 1601-03: Call Forward No Answer Timer 2102-04: Programming Access Level 2121-[01-24]: 27 for Call Forwarding key 2402-[01-60]: 27 for DSS Console Call Forwarding key
Operation:	INTERCOM + * 3 + Select Type + Select Destination + 2 (all calls) or 8 (outside calls only)	
Call Forwarding Off Premises	A user can reroute their calls to an off-site location.	2102-01: Extension Class of Service 1406-01: Enable Call Forwarding Off-Premises 1406-02: Enable Internal Call Forwarding 2111-09: Enable Personal Speed Dial 3103-04: Enable Tandem Calls 215x: Enter Personal Speed Dial numbers
Operation:	INTERCOM + * 3 + 3 + Select, store or view + 2 (all calls) or 8 (outside calls only)	
Call Timer	Keep track of time on the phone.	2121-[01-24]: 16+1 for Manual Call Timer key, 16+2 for Automatic Call Timer key
Operation:	Starts automatically (automatic timer key) or press to start (manual timer key)	

DSX Programmer's Quick Reference - Features (Page 3 of 19)		
Feature	Description	Programming
Call Waiting / Camp-On	Helps users know when they have additional calls waiting.	2102-01: Extension Class of Service 1402-03: Camp-On to Busy Extension 1512-02: Call Waiting Tones (system-wide) 2116-01: Off Hook Signaling for incoming Intercom Calls 1401-03: Privacy blocks Camp On
	Operation:	Call busy extension + Dial 2
Callback	Leave a Callback request at a busy extension for a return call.	2102-01: Extension Class of Service 1402-03: Camp-On to Busy Extension 1512-02: Call Waiting Tones (system-wide) 2116-01: Off Hook Signaling for incoming Intercom Calls 1401-03: Privacy blocks Camp On
	Operation:	Call busy extension + Dial 2 + Hang up + Answer the Callback ring
Caller ID	Displays phone number and optional name for incoming outside call.	<u>Basic Setup</u> 3121-01: Set line's Caller ID type 2102-01: Extension Class of Service 1404-01: Caller ID Display 1404-04: Caller ID Display Separator 3131-01: Pass Caller ID to Voice Mail <u>Second Call Caller ID</u> 1404-02: Second Call Caller ID 2116-03: Off Hook Signaling for Incoming Outside Calls <u>Third Party Caller ID</u> 1404-03: Third Party Caller ID
	Operation:	Operation is automatic if enabled.
Caller ID Logging	Store a caller's name and number for each review and redialing.	<u>Setting Up Caller ID Callbacks</u> 3711-01: Caller ID Callback Route Type 3711-01: Caller ID Callback Route, or 3711-01: Caller ID Callback Group 3712-01: Initialize Caller ID Dial Treatment Tables 3713-[01-16]: Home Area Code Table <u>Caller ID Logging Types</u> 2117-01: Caller ID Logging Type 2117-01: Caller ID Log Size 2117-01: Caller ID Log Group 3112-[01-08]: Caller ID Group Membership 3701-[01-08]: Caller ID Logging Group Size <u>Local Calling and Exception Lists</u> 3712-02: 10-Digit Local Calls 3712-03: Home Area Code Exception List Type 3714-[01-96]: Home Area Code Exception List Table 3715-[01-96]: Foreign Area Code Exception List Table <u>Additional Options</u> 9013-01: Initialize Caller ID Logs 2102-01: Extension Class of Service
	Operation:	Calls xx [CLxx] + Follow soft keys

Features

DSX Programmer's Quick Reference - Features (Page 4 of 19)		
Feature	Description	Programming
Central Office Calls, Answering	Outside calls ring and can be answered at system extensions.	<u>Basic Programming</u> 3101-01: Line Type 3101-03: DTMF Dialing 3103-03: Loop Length 2131-[01-64]: Line Access 2132-[01-64]: Line Ringing <u>Setting Up Line and Loop Keys</u> 2121-[01-24]: 01 for Switched Loop key 2121-[01-24]: 02 + Line Group for Fixed Loop key 2121-[01-64]: 03 + Line number (1-64) for line key 2402-[01-64]: 03 + Line number (1-64) for DSS Console line key <u>Setting Up Transmit and Receive Gain</u> 3103-01: Transmit Gain 3103-02: Receive Gain
Operation:	Lift handset + (Without Ringing Line Preference) Press flashing line or loop key	
Central Office Calls, Placing	Place outside calls from a keyset using a variety of methods.	<u>Basic Programming</u> 3101-01: Line Type 3101-03: DTMF Dialing 3103-03: Loop Length 2131-[01-64]: Line Access <u>Access Code Options</u> 1301-09: Setting up single (9) or 2-digit (90-98) access 2113-01: Dial 9 Group for extensions 2111-06: Line Dial Up (#9 + line number) 2102-01: Extension Class of Service 1402-06: Direct Line Access <u>Line and Loop Keys</u> 2121-[01-24]: 01 for Switched Loop key 2121-[01-24]: 02 + Line Group for Fixed Loop key 2121-[01-64]: 03 + Line number (1-64) for line key 2402-[01-64]: 03 + Line number (1-64) for DSS <u>Setting Up Transmit and Receive Gain</u> 3103-01: Transmit Gain 3103-02: Receive Gain
Operation:	Press line key, INTERCOM then line extension number (101-164), INTERCOM then 9 (or 90-98), or INTERCOM then #9 and line extension number (101-164)	
Class of Service	Customize features and options for extensions and outside lines.	140x: Extension Class of Service options 141x: Line Class of Service options
Operation:	None	
D		
Delayed Ringing	Helps co-workers cover each other's calls.	2132-[01-64]: Line Ringing 1604-01: Delayed Ring Timer
Operation:	None	
Dial Tone detection	Set up the system to detect CO dial tone.	3111-03: Dial Tone Detection
Operation:	None	

DSX Programmer's Quick Reference - Features (Page 5 of 19)		
Feature	Description	Programming
Direct Inward Dialing	Directly dial system extensions from outside the system.	<u>Basic Programming</u> 3101-01: Line type 3101-03: DTMF Dialing 3301-01: Number of DID Digits 3302-01: Incoming DID Digits 3302-01: Day Translation Destination 3302-01: Night Translation Destination 2102-01: Class of Service 1401-08: Receive DID Calls 3121-01: Caller ID Type 3121-02: ANI/DNIS Format 3121-03: ANI/DNIS Delimiter 3121-04: Number of ANI Digits <u>DID Overflow, Camp-On, and Intercept Options</u> 3112-02: Enable Day Overflow 3112-03: Day Overflow Destination 3112-05: Enable Night Overflow 3112-06: Night Overflow Destination 2115-02: DID Station Intercept Destination 2115-02: DID Station Intercept Type 1601-02: DIL No Answer Timer 2102-01: Class of Service 1401-09: Receive DID Camp On
	Operation:	None
Direct Inward Line	Lets employees know which calls are just for them.	<u>Basic Programming</u> 3101-01: Line Type 3101-03: DTMF Dialing 3112-01: Direct Termination in the Day 3112-04: Direct Termination at Night 2121-[01-24]: 18 + CLEAR for System night key 2121-[01-24]: 18 + UCD master for UCD night key 2102-01: Class of Service 4102-05: Activate Night Mode <u>DIL Overflow</u> 3112-02: Enable Day Overflow 3112-03: Day Overflow Destination 3112-05: Enable Night Overflow 3112-06: Night Overflow Destination 1601-02: DIL No Answer Timer 1601-01: Line No Answer Timer <u>Setting Up Line and Loop Keys</u> 2121-[01-24]: 01 for Switched Loop key 2121-[01-24]: 02 + Line Group for Fixed Loop key 2121-[01-64]: 03 + Line number (1-64) for line key 2402-[01-64]: 03 + Line number (1-64) for DSS Console line key
	Operation:	Lift handset to answer Press DND to put your DIL in the night mode
Direct Line Access	Access lines directly for priority users and testing.	2102-01: Class of Service 1402-06: Direct Line Access
	Operation:	INTERCOM + 1 + Line number (01-64)

Features

DSX Programmer's Quick Reference - Features (Page 6 of 19)		
Feature	Description	Programming
Direct Station Selection (DSS)	Quickly place and transfer calls to co-workers.	2111-03: Enable DSS/BLF 2114-01: Do not enable Intercom Prime Line 2123-[01-24]: DSS/BLF Key Assignments
	Operation:	INTERCOM + DSS key to call INTERCOM + DSS key + TRANSFER to Transfer
Direct Station Selection (DSS) Console	One-touch access to extensions, lines, and system features.	1202-01: Primary Station Port Assignment (301-304) 2401-01: DSS Owner 2402-[01-60]: DSS Console Keys
	Operation:	See Feature Handbook.
Directed Call Pickup	Allows co-workers to answer each other's calls.	2131-[01-64]: Line Access not required
	Operation:	INTERCOM + ** + Dial extension number
Directory Dialing	Place Intercom and Speed Dial calls from a displayed list of names.	2101-02: Station Name 2151: Personal Speed Dial 1702: System Speed Dial 2201-01: Ring Group Name 2301-01: UCD Group Name 2121-[01-24]: 21 for Directory Dialing key 2402-[01-60]: 21 for Directory Dialing key
	Operation:	INTERCOM + 34 (Intercom), 37 (Personal Speed Dial), or 32 (System Speed Dial)
Distinctive Ringing	Users can customize their telephone's ringing.	<u>Distinctive Ring Configuration</u> 2102-01: Class of Service 1405-01: Ring Type Configuration 2103-04: Station's Intercom Ring Tone 2103-05: Station's Ring Group Ring Tone 2103-06: Station's Recall Ring Tone 2103-07: Station's Ring "A" Tone 2103-08: Station's Ring "B" Ring Tone 2103-09: Station's Ring "C" Ring Tone <u>Line Override</u> 3112-02: Day Ring Type 3112-03: Night Ring Type 3112-04: Delay Ring Type <u>Extension Ring Override</u> 2102-01: Class of Service 1405-02: Station Ring Override 2103-01: Day Ring Type 2103-02: Night Ring Type 2103-02: Delay Ring Type <u>Key Ring Override</u> 2102-01: Class of Service 1405-03: Key Ring Override 2122: Ring Override <u>Ring and UC D Group Unique Ringing</u> 2201-02: Ring Group Incoming Ring Type 2301-02: UCD Group Incoming Ring Type <u>Initialize Distinctive Ringing</u> 9014-01: Initialize Ring Tones
	Operation:	Program [Prog] + Ring + Assign [Asgn], Key, or Config [Cnfg]

DSX Programmer's Quick Reference - Features (Page 7 of 19)		
Feature	Description	Programming
Do Not Disturb	An extension user can work undisturbed by incoming calls and announcements.	2111-01: Allow Do Not Disturb
	Operation:	DND + Type (0=Cancel, 1=External, 2=Intercom, 3=All)
Do Not Disturb Override	Override a co-worker's DND.	2102-01: Class of Service 1401-07: DND Override
	Operation:	Call DND extension + DND Override [Ovrd]
Door Box	Remotely Monitor an entrance door.	<u>Basic Door Box Programming</u> 2113-02: Ring Group (1-8) 2101-04: Door Chime Selection (0-3) <u>2PGDAD Module Door Box Setup</u> 1203-01: Secondary Station Port Assignment Plug 2PGDAD into digital station port 1605-03: Door Relay Unlock Timer <u>DSX-40 "Built-In" Door Box Setup</u> 2101-06: Door Relay Assignment (Door 1 = 326., Door 2=327)
	Operation:	At Door Box: Press Call button and speak. At keyset: Lift handset to answer chimes + (Optional) Open or Close to control door strike
E		
Extended Ringing	Lets call ring longer than usual for co-worker's that can't readily get to their phones.	2102-01: Class of Service 1401-02: Extended Ring 1603-03: Extended Ringing Timer
	Operation:	None
Extension Hunting	Automatically routes calls to co-workers that work closely together.	<u>Circular and Terminal Hunting</u> 2115-01: Hunt Type (1-4) 2115-01: Hunt Destination 1601-03: Call Forward No Answer Timer 1603-01: Transfer Recall Timer 1601-02: DIL No Answer Timer <u>UCD Hunting</u> 2115-01: Hunt Type (5) 2115-01: UCD Group Master Number 2302-01: UCD Group Overflow Destination 1601-04: UCD No Answer Timer 1601-03: Call Forward No Answer Timer
	Operation:	To remove/reinstall your extension from your UCD Group: INTERCOM + *5 + 4 (to reinstall) or 6 (to remove) + SPEAKER
Extension Locking	Secure your telephone to prevent unauthorized use.	2102-01: Class of Service 1412-03: Station Locking 2102-04: User Programming Access Level (4 or 5) 2102-05: Station PIN Code
	Operation:	To lock: INTERCOM + ##5 To enter or change you PIN: INTERCOM + ##6 To unlock an extension from the attendant: INTERCOM + ##3

Features

DSX Programmer's Quick Reference - Features (Page 8 of 19)		
Feature	Description	Programming
F		
Feature Keys	Simplify telephone operation.	2121-[01-24]: Feature Keys 2115-05: Key Access for Outside Lines (for line keys)
	Operation: See Feature Handbook.	
Flash	Access CO and PBX features by interrupting line loop current.	1612-04: PBX/Centrex Flash Timer 2102-01: Class of Service 1403-01: Flash for Single Line Set
	Operation: FLASH At SLT: Hookflash + #3	
Flexible Numbering Plan	Change the digits users dial for co-workers and other features.	1301-01: Function Type 1301-01: Expected Number of Digits 1313-01: Line Extension Number 1315-01: UCD Group Master Extension Number 1314-01: Ring Group Master Extension Number
	Operation: None	
Forced Line Disconnect	Disconnect a co-worker's outside call in an emergency.	2102-01: Class of Service 1402-01: Forced Line Disconnect 2131-[01-64]: Line Access (option 2 or 3)
	Operation: Press busy line key + #	
G		
Group Call Pickup	Easily answer a call ringing your Pickup Group.	2113-03: Pickup Group 3113-03: Pickup Group Assignment 2131-[01-64]: Line Access (option 1 or 3) 2132-[01-64]: Line Ringing 2121-[01-24]: 09 + Pickup Group (1-8) for Immediate Ring Group Call Pickup key 2121-[01-24]: 10 + Pickup Group (1-8) for No Ring Group Call Pickup key 2121-[01-24]: 11 + Pickup Group (1-8) for Delay Ring Group Call Pickup key 2402-[01-60]: 09 + Pickup Group (1-8) for DSS Console Immediate Ring Group Call Pickup key 2402-[01-60]: 10 + Pickup Group (1-8) for DSS Console No Ring Group Call Pickup key 2402-[01-60]: 11 + Pickup Group (1-8) for DSS Console No Ring Group Call Pickup key
	Operation: Press Group Call Pickup key or INTERCOM + *#.	
Group Listen	Have your co-workers listen in on an important call.	2112-02: Headset Mode (must be No)
	Operation: While on a handset call, press SPEAKER twice (but do not hang up).	

DSX Programmer's Quick Reference - Features (Page 9 of 19)		
Feature	Description	Programming
Group Ring	Call a group of co-workers simultaneously.	<u>Basic Programming</u> 2113-02: Ring Group 2201-01: Ring Group Name 2201-02: Ring Group Incoming Ring Type <u>Setting Up Ring Group DILs</u> 3112-01: Direct Termination in the Day 3112-02: Enable Day Overflow 3112-03: Day Overflow Destination 3112-04: Direct Termination at Night 3112-05: Enable Night Overflow 3112-06: Night Overflow Destination 2121-[01-24]: 03 + Line number (01-64) for keyset line key 2402-[01-60]: 03 + Line number (01-64) for DSS Console line key <u>Adjusting Ring Group Timers</u> 1601-01: Line No Answer Timer 1601-02: DIL No Answer Timer 1601-01: Line No Answer Timer
	Operation:	To call: INTERCOM + Ring Group number To Transfer: INTERCOM + Ring Group master number + TRANSFER To answer: Lift handset To answer for another group: INTERCOM + ** + Ring Group number
H		
Handsfree and Handsfree Answerback	Talk over the phone using the built-in speaker and microphone.	1513-01: Intercom Voice Announcements 2112-03: Voice Announcements Through Speaker 1513-02: Handsfree Reply (Handsfree Answerback) 2112-05: Handsfree Replay (Handsfree Answerback) 3103-03: Loop Length
	Operation:	Handsfree: Press SPEAKER Handsfree Answerback: Speak toward phone
Headset Compatibility	Have the privacy of a handset call without having to hold the handset.	2121-[01-24]: 28 for Headset key. 2112-02: Headset Mode 2112-04: Voice Announcements in Headset Mode
	Operation:	To turn headset on or off: Press Headset key or #HS To use: Press line key or INTERCOM . Press SPEAKER to hang up
Hold	Have a call wait on Hold, then pick it up to continue the conversation.	2102-01: Class of Service 1411-03: Automatic Hold 1603-02: Hold Recall Timer 1603-03: Exclusive Hold Recall Timer 1601-01: Line No Answer Timer
	Operation:	Keyset: Press HOLD once for System Hold, twice for Exclusive Hold SLT: Hookflash + *7 + Hangup for Exclusive Hold

Features

DSX Programmer's Quick Reference - Features (Page 10 of 19)		
Feature	Description	Programming
Hotline	Hotline provides partner extensions with one-button calling and Transfer.	2121-[01-24]: 05 + Partner extension for Hotline key 2402-[01-60]: 05 + Partner extension for DSS Console Hotline key 2116-02: Off Hook Signaling for Calls from Hotline Partner 2102-01: Class of Service 1401-13: Hotline Automatic Transfer
	Operation:	To call: Press Hotline key To Transfer call: Press Hotline key + TRANSFER
I		
Interactive Soft Keys	Just press a soft key for advanced features without remembering codes.	2102-01: Class of Service 1401-05: Soft Keys
	Operation:	Automatic when option enabled.
Intercom	Call any co-worker.	1513-01: Intercom Voice Announcements 2112-03: Voice Announcements Through Speaker 1513-02: Handsfree Reply (Handsfree Answerback) 2112-05: Handsfree Reply (Handsfree Answerback) 1602-01: Interdigit Timer
	Operation:	INTERCOM + Dial co-worker's extension
K		
Key Ring	Unanswered calls automatically ring co-worker's extensions.	2132-[01-64]: Line Ringing 3112-01: Direct Termination in the Day (CLEAR) 3112-04: Direct Termination at Night (CLEAR) 1604-01: Delay Ring Timer 3112-02: Enable Day Overflow 3112-03: Day Overflow Destination 3112-05: Enable Night Overflow 3112-06: Night Overflow Destination 1601-01: Line No Answer Time 1603-01: Transfer Recall Timer
	Operation:	Operation is automatic.
L		
Language Selection	Set up a telephone to show displays and soft keys in English or Spanish.	2102-01: Class of Service 1401-11: Language Programming 2101-03: Station Display Language 1541-03: SMDR Language
	Operation:	N/A
Last Number Redial	Quickly redial the last number dialed.	2131-[01-64]: Line Access 2102-01: Class of Service 1411-04: Enhanced Last Number Redial
	Operation:	REDIAL + Select number + SPEAKER to redial

DSX Programmer's Quick Reference - Features (Page 11 of 19)		
Feature	Description	Programming
Line Group Routing	Dial a single code to place a call over the first available line.	2113-01: Dial 9 Group 3201-[01-64]: Line Group 2131-[01-64]: Line Access 2133-[01-64]: Line Group Access 1301-09: Function Type 1301-09: Expected Number of Digits
	Operation:	INTERCOM + 9 + Dial outside number
Line Groups	Dial codes to access Line Groups for outgoing calls.	3201-[-1-64]: Line Group 2131-[01-64]: Line Access 2133-[01-64]: Line Group Access 1301-01: Function Type 1301-01: Expected Number of Digits
	Operation:	INTERCOM + Line Group code (90-98) + Dial outside number
Line Keys	Press a line key for one-touch access to an outside line.	2121-[01-64]: 03 + Line number (1-64) for keyset 2402-[01-64]: 03 + Line number (1-64) for DSS 2111-05: Key Access for Outside Lines 2131-[01-64]: Line Access (1, 2, or 3) 2132-[01-64]: Line Ringing (2, 3, or 4) 1604-01: Delay Ring Timer
	Operation:	Press line key to place or answer outside call
Line Queuing / Line Callback	When all lines are busy: <ul style="list-style-type: none"> <i>Line Queuing</i> lets you wait in line for a line to become free. <i>Line Callback</i> will automatically call you back when a line is free. 	2102-01: Class of Service 1411-01: Camp-On to Busy Lines 1411-02: Line Queue Priority
	Operation:	Access busy line + Dial 2 + Hang up or wait for line to become free
Loop Keys	Loop keys simplify answering and placing outside calls.	2121-[01-24]: 01 for Switched Loop key 2121-[01-24]: 02 + Line Group for Fixed Loop key 3201-[01-64]: Line Group 2131-[01-64]: Line Access (1 or 3) 2132-[01-64]: Line Ringing (2, 3 or 4) 1604-01: Delay Ring Timer
	Operation:	To answer: Press loop key. To place: Press key (Fixed Loop) or Press key + Line Group 90-98 (Switched Loop)
M		
Meet-Me Conference	Set up a multiple-party telephone conversation.	605-02: Meet Me Conference Join Timer
	Operation:	Make or hear Page to announce Conference + Meet Me nn [MTnn]
Message Waiting	Without voice mail, leave a Message Waiting request for a return call.	4101-01: Voice Mail Type (0) 2102-01: Class of Service 1403-03: Special Dial Tone for Single Line Set 1403-04: High Voltage Message Waiting Lamp for Single Line Set. 1403-05: FSK Message Waiting Lamp for Single Line Set
	Operation:	To leave: V-MAIL (or 8) To Answer: INTERCOM + V-MAIL (or 8)

Features

DSX Programmer's Quick Reference - Features (Page 12 of 19)		
Feature	Description	Programming
Monitor / Silent Monitor	Silently monitor a co-worker's phone.	2102-01: Class of Service 1402-04: Silent Monitor
	Operation: Call busy co-worker + 6	
Music On Hold	Callers can listen to music while they wait on Hold.	1521-01: Enable Music on Hold 3103-05: Music on Hold Source 1521-05: Audio Input 1 Gain Setting 1521-06: Audio Input 2 Gain Setting 1521-02: Music on Hold for Transferred Calls
	Operation: N/A	
N		
Names for Extensions and Lines	Names help identify lines and extensions.	2102-01: Class of Service 1401-10: Name Programming 2102-04: User Programming Access Level 1011-01: System Name 1702-[1-100]: System Speed Dial Bin Name 2101-02: Station Name 2151-[01-20]: Personal Speed Dial Bin Name 2201-02: Ring Group Name 2301-01: UCD Group Name 2501-[01-16]: Selectable Display messages 3101-02: Line Name 4111-01: Voice Mail Port Name
	Operation: Program + Name [Prog + MORE + MORE + Name]	
Night Service / Night Ring	Reroute calls after hours.	2102-01: Class of Service 1402-05: Activate Night Mode 2121-[01-24]: 18+ CLEAR for System night key 2402-[01-60]: 18+ CLEAR for DSS Console System night key 2132-[01-64]: Line Ringing 1604-01: Delay Ring Timer
	Operation: To activate or deactivate: Press <i>System</i> night key To answer a call over the Paging speakers: INTERCOM + *0	
O		
Off-Hook Signaling	Helps important callers get through.	2116-01: Off Hook Signaling for Incoming Intercom Calls 2116-02: Off Hook Signaling for Calls from Hotline Partner 2116-03: Off Hook Signaling for Incoming Outside Calls
	Operation: N/A	

DSX Programmer's Quick Reference - Features (Page 13 of 19)		
Feature	Description	Programming
P		
Paging	Broadcast announcements or quickly locate co-workers.	<u>Basic Programming</u> 2113-05: Page Group (Zone) 2112-06: Paging Through Speaker 2102-01: Class of Service 1407-01: Make All Call Page 1407-02 through 08: Make Page Into Zones 1-7 1605-01: Page Duration Timer 2121-[01 to 24]: 13 + Zone number for Page key 2402-[01-60]: 13 + Zone number for DSS Console Page key <u>Page Relay Control</u> 2101-06: Door Relay Assignment <u>External Paging Options</u> 1531-01: External Page Ring Type 1532-[01-64]: External Page Line Ringing 1604-01: Delay Ring Timer 1531-03: External Page Ring Volume 1531-05: External Page Gain 1531-02: Extension Ring Over External Page 1531-04: Door Chime Over External Page 2101-04: Door Chime Selection 1521-04: Background Music over External Page
	Operation:	INTERCOM + *1 + Page zone (1-7 or 0 for All Call)
Park	Park a call in orbit so a co-worker can pick it up.	1603-04: Park Orbit Recall Timer 2121-[01 to 24]: 04 + Orbit for Park Orbit key 2402-[01 to 60]: 04 + Orbit for DSS Console Park Orbit key
	Operation:	System: TRANSFER + * + Orbit (60-69) Personal: TRANSFER + ** + Extension number
PBX / Centrex Compatibility	Provides unique features when connected to a PBX or Centrex.	3101-04: PBX Line 3401-01: PBX Access Code Digits
	Operation:	N/A
Prime Line Preference	Get dial tone for a new outside or Intercom call just by lifting the handset.	2114-01: Prime Line Type 2114-01: Prime Line Key 2114-01: Prime Line Line 2114-01: Prime Line Group
	Operation:	Lift handset
Privacy	Prevent interruptions at high priority extensions.	2102-01: Class of Service 1401-03: Privacy
	Operation:	N/A
Privacy Release Groups	Quickly join a co-worker's outside call.	2113-04: Privacy Group 2131-[01-64]: Line Access
	Operation:	To join call: Press busy line key To prevent a member from joining your call: Place or answer call on a line key + Press line key until it turns green.

Features

DSX Programmer's Quick Reference - Features (Page 14 of 19)		
Feature	Description	Programming
Private Line	Have a line reserved exclusively for your own use.	2131-[01-64]: Line Access 2132-[01-64]: Line Ringing 1604-01: Delay Ring Timer
	Operation:	Press Private Line key to place or answer call,
Programmable Idle Menu Soft Keys	Customize the Super Display Telephone idle menu soft keys.	2124-[01-12]: Idle Menu Soft Key Assignments
	Operation:	#SM + Press soft key + HOLD + INTERCOM + Volume Up or Volume Down to select option + CONF + SPEAKER
Pulse to Tone Conversion	Use special services (such as telephone banking) over dial pulse lines.	3101-01: Line Type 3103-03: DTMF Dialing
	Operation:	Place call + Wait six seconds + Dial additional DTMF digits
R		
Regional Defaults	See <i>Language Selection</i> , <i>Station Message Detail Recording</i> , and <i>Toll Restriction</i> for more.	
Removing Lines and Extensions from Service	Temporarily remove problem extensions and lines from service.	2102-01: Class of Service 1402-06: Direct Line Access
	Operation:	INTERCOM + #40 + Station or line extension number + 6 to remove or 4 to return + SPEAKER
Reverse Voice Over	Privately call a co-worker while you're busy on your handset.	2121-[01 to 24]: 23 + Partner extension number for Reverse Voice Over key
	Operation:	While on a handset call, press Reverse Voice Over key to talk to partner, then release to return to your initial call.
Ringdown Extension	Call an extension, group, or Voice Mail by just lifting the handset.	2114-02: Station Ring Down Type 2114-02: Station Ring Down Destination
	Operation:	Lift handset
Ringling Line Preference	Just lift the handset to answer a ringing call.	2111-04: Ringling Line Preference
	Operation:	Lift handset
S		
Save Number Dialed	Save the number you just dialed for quick redialing.	2121-[01 to 24]: 25 for Save key 2402-[01-60]: 25 for DSS Console Save key
	Operation:	To save: Press Save key To redial saved number: Press Save key
Selectable Display Messaging	Co-worker's calling your extension receive personalized text messages.	2102-01: Class of Service 1406-02: Internal Call Forwarding 2501-[01-16]: Selectable Display Messages
	Operation:	Program + Call Forward + Message [Prog + C fwd + MORE + Msg]
Single Line Telephones	Connect analog single line telephones and fax machines.	2102-01: Class of Service 1403-02: Single ring for Single Line Set 1403-06: Loop Disconnect for Single Line Set
	Operation:	See the <i>DSX Telephone Feature Handbook</i> .

DSX Programmer's Quick Reference - Features (Page 15 of 19)		
Feature	Description	Programming
Speed Dial	Store telephone numbers and feature codes for quick access	<u>Setting Up Personal Speed Dial</u> 2111-09: Personal Speed Dial 2131-[10-64]: Line Access 3201-[01-64]: Line Group 2151: Personal Speed Dial Bin Assignment <u>Setting Up System Speed Dial</u> 2102-01: Class of Service 1401-01: System Speed Dial Access 2102-04: User Programming Access Level (4 or 5) 1701-01: Number of System Speed Dial Bins 1702: System Speed Dial Assignment <u>Setting Up Speed Dial Feature Keys</u> 2121-[01-24]: 15+ bin for Personal Speed Dial key, 14+bin for System Speed Dial key 2402-[01-60]: 15+ bin for DSS Console Personal Speed Dial key, 14+bin for DSS Console System Speed Dial key <u>Additional Speed Dial Options</u> 1602-04: Dial Pause Timer 1612-04: PBX/Centrex Flash Timer 1602-03: DIALtone Detect Timer
	Operation:	#SP + Bin + HOLD + Line, Line Group, or INTERCOM + HOLD + Enter number to store + HOLD + Enter name + HOLD + SPEAKER
Split (Alternate)	Switch between active calls without Conferencing the calls together.	2121-[01-24]: 20 for Split key 2402-[01-60]: 20 for DSS Console Split key
	Outside calls: First call + INTERCOM + Set up second call + Split Feature Key	
Station Instruments	The system offers 22-Button, 34-Button, and Super Display keyset telephones.	2101-01: Station Type 2104-01: Backlight Brightness While Active 2104-02: Backlight Brightness While Idle 1605-05: Backlight Idle Timer 2104-03: Dial Pad Illumination
	Operation:	See the <i>DSX Telephone Feature Handbook</i> .
Station Message Detail Recording	Provides a record of your calls.	1541-01: SMDR Port 1101-01: Baud Rate 1541-02: SMDR Headers 3111-06: Station Message Detail Recording 1541-03: SMDR Language
	Operation:	N/A
System Identification	Store the site name and telephone number in the system data base.	1011-01: System Name 1011-02: Telephone Number
	Operation:	N/A
System Programming Password Protection	Control access to system programming.	1031-01: New Password
	Operation:	N/A

Features

DSX Programmer's Quick Reference - Features (Page 16 of 19)		
Feature	Description	Programming
T		
T1 Lines	In DSX-80/160, provides for connection to advanced digital lines.	3101-01: Line Type 3101-03: DTMF Dialing 1213-01: Number of PCM Channels 1213-02: Clock Control 1213-03: Transmit Pulse Amplitude 1213-04: Framer Type 1213-05: Zero Suppression 1213-06: Loopback Mode 3121-01: Caller ID Type 3121-02: ANI/DNIS Format 3121-03: ANI/DNIS Delimiter 3121-04: Number of ANI Digits
Operation:	N/A	
Tandem Calls / Unsupervised Conference	Join two callers in Conference, leave the call and let their conversation continue.	3103-04: Tandem Calls 2102-01: Class of Service 1411-05: Unsupervised Conference
Operation:	Set up fist call + CONF + Set up second call + CONF + Hang up	
Tie Lines	In DSX-80/160, link two systems together for inter-system Intercom calling and other features.	3101-01: Line Type 3101-03: DTMF Dialing 3142-02: Tie Line Caller's Operator Extension 3141-01: Tie Line Caller's Outbound Dial 9 Group 3142-[01-64]: Tie Line Caller's Outbound Line Access 3143-[01-64]: Tie Line Caller's Outbound Line Group Access 3102-01: Line Class of Service 14xx: Class of Service 3102-02: Line Toll Level 35xx: Toll Restriction
Operation:	See the <i>DSX Telephone Feature Handbook</i> .	
Time and Date	Time and Date shows on telephone displays and prints on system reports.	1021-01: System Time 1021-02: System Date 1022-01: Automatic Daylight Savings Time Setting 1511-02: Clock Display Format 2102-04: Programming Access Level 5
Operation:	N/A	

DSX Programmer's Quick Reference - Features (Page 17 of 19)		
Feature	Description	Programming
Toll Restriction	Control the costs of outgoing long distance calls.	<u>Basic Setup</u> 3501-01: Toll Restriction Country Type 2102-02: Station Toll Level (Day) 2102-03: Station Toll Level (Night) 3511-01: Active Dial Pad 3512-04: Allow N11 Dialing 3512-01: Allow 0 + XXX Operator Assisted Dialing 3512-02: Allow 011 + XXX International Dialing <u>Equal Access Dialing Restrictions</u> 3512-03: Allow 101x Equal Access Dialing 352x: 1010 + XXX Equal Access Dialing <u>1 + Long Distance Dialing Restrictions</u> 353x: 1 + NPA/NXX Dialing 3-Digit Table 354x: 1 + NPA + NXX Dialing 6-Digit Table <u>Long Distance Dialing Restrictions</u> 355x: NPA/NXX Dialing 3-Digit Table 356x: NPA + NXX Dialing 6-Digit Table
Operation:	N/A	
Transfer	Send your outside to a co-worker.	<u>Transfer Recall</u> 1603-01: Transfer Recall Timer 1601-03: Call Forward No Answer Timer 1601-01: Line No Answer Timer 1601-04: UCD No Answer Timer <u>Music on Hold for Transferred Callers</u> 1521-01: Enable Music on Hold 1521-02: Music on Hold for Transferred Calls 3101-05: Music on Hold Source Hotline Automatic Transfer 2102-01: Class of Service 1401-13: Hotline Automatic Transfer
Operation:	TRANSFER + Call co-worker or press V-MAIL	
U		
User Programmable Features	Extension users can set up their telephones to suit their needs.	2102-04: User Programming Access Level
Operation:	See the <i>DSX Telephone Feature Handbook</i> .	

Features

DSX Programmer's Quick Reference - Features (Page 18 of 19)		
Feature	Description	Programming
V		
Voice Mail	Ends the frustration and cost of missed calls.	<u>Basic Programming</u> IntraMail: Automatically install 2141-01: Station Mailbox Type (to add more) UltraMail: Automatically installs NVM-Series: 1202: Primary Station Ports 1203: Secondary Station Ports (Digital VANGARD only) 4101-01: Voice Mail Type <u>Automated Attendant Answering</u> 3112-01: Direct Termination in the Day 2121-[01 to 24]: 18 + 700 for Voice Mail UCD night key 2402-[01-60]: 18 + 700 for DSS Console Voice Mail UCD night key 3112-04: Direct Termination at Night 2121-[01 to 24]: 18 + CLEAR for System night key 2402-[01-60]: 18 + CLEAR for DSS Console System night key 2102-01: Class of Service 1402-05: Activate Night Mode <u>Voice Mail Overflow</u> 3112-02: Enable Day Overflow 3112-03: Day Overflow Destination 1601-04: UCD No Answer Timer 3112-05: Enable Night Overflow 3112-06: Night Overflow Destination 1601-02: DIL No Answer Timer 2302-01: UCD Group Overflow Destination <u>Conversation Record</u> 2102-01: Class of Service 1401-06: Conversation Record 2121-[01-24]: 17 + Extension for Conversation Record key 2402-[01-60]: 17 + Extension for DSS Console Conversation Record key <u>Message Center</u> 2121-[01-24]: 24 + Message Center Mailbox number for Message Center key 2402-[01-60]: 24 + Message Center Mailbox number for DSS Console Message Center key
	Operation:	To call your mailbox: V-MAIL See the <i>DSX Telephone Feature Handbook</i> for more.
Voice Over	Get through to a co-worker busy on a handset call without interrupting their call.	2116-01: Off Hook Signaling for Incoming Intercom Calls 2116-02: Off Hook Signaling for Calls From Hotline Partner
	Operation:	To place: Call busy co-worker + Hear busy/ring tone + Voice Over [Vovr] To respond: MUTE

DSX Programmer's Quick Reference - Features (Page 19 of 19)		
Feature	Description	Programming
Volume and Contrast Controls	Easily adjust the volume of ringing, Paging, and other features.	2111-07: Retain Line Volume Setting
	Operation: Press Volume Up or Volume Down	
W		
Walking Class of Service	Temporarily use your Toll Restriction and Class of Service options at a co-worker's phone.	2102-01: Class of Service 1412-01: Walking Class of Service (Day) 1412-02: Walking Class of Service (Night) 2102-05: Station PIN Code
	Operation:	To enable: INTERCOM + ##0 + Your extension + Your PIN + HOLD To enter your PIN: INTERCOM + ##6 + Enter PIN + HOLD + Reenter PIN + Exit To change your PIN: INTERCOM + ##6 + Enter old PIN + HOLD + Enter new PIN + HOLD + Reenter new PIN + Exit

IntraMail

DSX Programmer's Quick Reference - IntraMail (Page 1 of 10)		
Feature	Description	Programming
Start-up Configuration	IntraMail automatically assigns a mailbox to each extension in the number plan. <ul style="list-style-type: none"> • By default in DSX-40, only the first 8 (300-307) Subscriber Mailboxes are active/enabled. • By default in DSX-80/160, only the first 16 (300-315) subscriber mailboxes are active/enabled. • The IntraMail Automated Attendant <i>does not</i> answer outside calls. 	
Start-up Programming	Enable mailboxes for installed extensions.	2141-01: Mailbox Type (1 for Subscriber)
	Set up the Automated Attendant to answer outside calls during the day.	3112-01: Direct Termination in the Day (700)
	Set up the Automated Attendant to answer outside calls at night.	3112-04: Direct Termination at Night (700)
	Check each line's Answer Table assignment.	3131-02: IntraMail Answer Table Assignment (initially leave at 1)
	Leave these programs at their default settings.	1312-01: Voice Mail Extension Number (500-507) 4101-02: Voice Master Master Number (700) 4111-01: Voice Mail Port Name (VM PORT #) 4112-02: Operator's Extension (300)

DSX Programmer's Quick Reference - IntraMail (Page 2 of 10)

Feature	Description	Programming
<p>Review the Default Automated Attendant Setup</p> <pre> graph TD DIL[DIL to Voice Mail Master (700)] --> Lines[Lines Route to Answer Table 1] Lines --> AT1[Answer Table 1] AT1 --> Sched[Schedule 1 or Default Mailbox] Sched --> CRM[Call Routing Mailbox 001] CRM --> DAT1[Dial Action Table 1] DAT1 --> DAT2[Dial Action Table 1 Dialing Options] AllLines[All Lines] --> UAT1[Use Answer Table 1] UAT1 --> WCRM[Which Chooses Call Routing Mailbox 001.] WCRM --> ADAT1[And Dial Action Table 1] ADAT1 --> WithDialing[With these dialing options] WithDialing --> DAT2 subgraph IntraMail Lines AT1 Sched CRM DAT1 end </pre> <p>Call Routing Mailbox 001 always routes to Call Routing Mailbox 001. Schedule 1 is active M-F 8:30AM-5:00PM. Default Mailbox is active all other times.</p> <p>To record a new Instruction Menu Message from Extension 3001: Automated Attendant V-MAIL = SA + 1 + 001 Bulk-In Automated Attendant #AG + 001</p>		
A		
<p>Announcement Mailbox</p> <p>Operation:</p>	<p>Play a pre-recorded announcement to callers.</p> <p>To record from admin mailbox: SA + A + Mailbox number</p>	<p>4221-01: Routing Mailbox Type 4223-01: Repeat Count 4223-02: Hang Up After 4223-03: Next Call Routing Mailbox 4201-02: Subscriber Message Length</p>
<p>Answer Schedule Override</p> <p>Operation:</p>	<p>Enables an alternate greeting and dialing options.</p> <p>From admin mailbox: SA + O + Answer Table + O</p>	<p>4211-02: Answer Schedule Override 4211-03: Override Mailbox</p>

DSX Programmer's Quick Reference - IntraMail (Page 3 of 10)

Feature	Description	Programming
Answer Tables	Determines how the Automated Attendant answers calls on each line.	<p><u>Basic Setup</u> 3131-02: IntraMail Answer Table Assignment 3112-01: Direct Termination in the Day 2121-[01-24]: 18 + 700 for Voice Mail UCD night key 2402-[01-60]: 18 + 700 for DSS Console Voice Mail UCD night key 3112-04: Direct Termination at Night 2121-[01-24]: 18 + CLEAR for System night key 2402-[01-60]: 18 + CLEAR for DSS Console System night key 4211-01: Default Mailbox 4211-02: Answer Schedule Override 4211-03: Override Mailbox 4211-04: Next Answer Table</p> <p><u>Type 1 (Day of Week Schedule)</u> 4212-[01-10]: Schedule Type (1) 4212-[01-10]: Routing Mailbox Number 4212-[01-10]: Schedule Start Day 4212-[01-10]: Schedule Start Time 4212-[01-10]: Schedule End Time</p> <p><u>Type 2 (Range of Days) Schedule</u> 4212-[01-10]: Schedule Type (2) 4212-[01-10]: Routing Mailbox Number 4212-[01-10]: Schedule Start Day 4212-[01-10]: Schedule End Day 4212-[01-10]: Schedule Start Time 4212-[01-10]: Schedule End Time</p> <p><u>Type 3 (Date) Schedule</u> 4212-[01-10]: Schedule Type (3) 4212-[01-10]: Routing Mailbox Number 4212-[01-10]: Schedule Run Day 4212-[01-10]: Schedule Start Time 4212-[01-10]: Schedule End Time</p>
Operation:	N/A	
Auto Attendant Do Not Disturb	Automated Attendant calls go directly to a user's mailbox.	2144-01: Auto Attendant Do Not Disturb
Operation:	G + Select Greeting + O	
Auto Erase or Save	After a user listens to a new message and exits, IntraMail will either save or erase the message automatically.	2143-02: Auto Erase/Save of Messages
Operation:	N/A	
Auto Time Stamp	Automatically hear the time and date a message was left.	2143-03: Auto Time Stamp
Operation:	OP + AT + O	

IntraMail

DSX Programmer's Quick Reference - IntraMail (Page 4 of 10)

Feature	Description	Programming
Automated Attendant	Automatically answers the telephone system's incoming calls.	3131-02: IntraMail Answer Table 3112-01: Direct Termination in the Day 2121-[01-24]: 18 + 700 for Voice Mail UCD night key 2402-[01-60]: 18 + 700 for DSS Console Voice Mail UCD night key 3112-04: Direct Termination at Night 2121-[01-24]: 18 + CLEAR for System night key 2402-[01-60]: 18 + CLEAR for DSS Console System night key 4201-02: Subscriber Message Length 4201-01: Non-Subscriber Message Length
Operation:	After answer, voice prompts tell the caller the options to dial.	
Automatic Routing for Rotary Dial Callers	Automatically route Automated Attendant callers that don't dial.	4231: Dial Action Table Digit Assignments
Operation:	N/A	
C		
Call Forward to a Mailbox	An extension user can forward calls to their mailbox.	1601-03: Call Forward No Answer Timer
Operation:	INTERCOM + *3 + Select Type + V-MAIL + 2 (all calls) or 8 (outside calls only)	
Call Routing Mailbox	Specified dialing options and announcements for Automated Attendant callers.	4221-01: Routing Mailbox Type 4222-01: Dial Action Table 4222-02: Time Limit for Dialing Commands 4201-01: Non-Subscriber Message Length
Operation:	To record Instruction Menu Message from admin mailbox: SA + I + Mailbox number	
Call Screening	A users can screen messages as they are being left in their mailbox.	2102-01: Class of Service 1401-12: Call Screening
Operation:	To screen the message: Screen [Scrn] , then, V-MAIL to intercept the call Do nothing to continue listening Exit to exit Call Screening and record the message privately	
Caller ID and Voice Mail	Provides the caller's number and optional name.	3121-01: Caller ID Type 1611-06: Caller ID Detection Timer 3131-01: Pass Caller ID to Voice Mail 3711-01: Caller ID Callback Route Type 3711-01: Caller ID Callback Line 3711-01: Caller ID Callback Group
Operation:	N/A	
Centrex Transfer	The Automated Attendant can transfer a caller from a Centrex line to an outside number using the features of that Centrex line.	4222-01: Dial Action Table 4231: Dial Action Table Digit Assignments 1702: System Speed Dial Assignment 1612-04: PBX/Centrex Flash Timer 1602-04: Dial Pause Timer 3103-04: Tandem Calls
Operation:	N/A	

DSX Programmer's Quick Reference - IntraMail (Page 5 of 10)

Feature	Description	Programming
Conversation Record	A user can record a conversation as a message in their mailbox.	2102-01: Class of Service 1401-06: Conversation Record 2121-[01-24]: 17 + Extension for Conversation Record key 2402-[01-60]: 17 + Extension for DSS Console Conversation Record key 2143-05: Recording Conversation Beep 4201-02: Subscriber Message Length
	Operation:	To start recording: V-MAIL, Record [MORE + Rec] , or record key To stop recording: V-MAIL or record key
D		
Dial Action Table	Defines the dialing options for Automated Attendant callers.	4222-01: Dial Action Table 4231: Dial Action Table Digit Assignments 4222-02: Time Limit for Dialing Commands
	Operation:	N/A
Directory Dialing	Automated Attendant caller can reach an extension by dialing the person's name.	<u>Basic Setup</u> 4221-01: Routing Mailbox (3) 2144-05: Directory List Number 4224-01: Directory List Number to Use 4201-02: Subscriber Message Length <u>Extension Name Programming and Routing</u> 1511-02: Name Format 2101-02: Station Name 4224-04: Extension Name Match 4224-05: Minimum Number of Letters Required 4224-06: Transfer Options 4224-03: Screened Transfer Timeout 4224-02: Time Limit for Dialing Commands <u>Additional Options</u> 4224-08: Fax Detection 4224-09: Fax Transfer Extension 4224-07: Next Call Routing Mailbox
	Operation:	To record a Directory Dialing message from admin mailbox: SA + I + Directory Dialing Mailbox
Directory Dialing Mailbox	The mailbox type required for Directory Dialing.	4221-01: Routing Mailbox Type (3)
	Operation:	See <i>Directory Dialing</i> .
E		
Extension Hunting to Voice Mail	Automatically sends unanswered calls to an extension's mailbox.	2115-01: Hunt Type 2115-01: Hunt Destination (700) 1603-01: Transfer Recall Timer 1601-02: DIL No Answer Timer 1601-03: Call Forward No Answer Timer 4222-03: Screened Transfer Timeout
	Operation:	N/A

IntraMail

DSX Programmer's Quick Reference - IntraMail (Page 6 of 10)		
Feature	Description	Programming
External Transfer	An Automated Caller can automatically route to an outside telephone number.	4222-01: Dial Action Table 4231: Dial Action Table Digit Assignment 1702: System Speed Dial Assignment 3103-04: Tandem Calls
Operation:	N/A	
F		
Fax Detection	Automatically transfers incoming fax calls to a fax machine.	<u>For Call Routing Mailboxes</u> 4222-04: Fax Detection 4222-08: Fax Transfer Extension <u>For Directory Dialing Mailboxes</u> 4224-08: Fax Detection 4224-09: Fax Transfer Extension
Operation:	N/A	
Flexible Answering Schedules	The Automated Attendant can answer outside calls with different announcements and dialing options, depending on the time of day and day of week.	3131-02: IntraMail Answer Table Assignment
Operation:	N/A	
Flexible Mailbox Numbering Plan	If telephone extension numbers are customized, set up IntraMail mailbox numbers to match.	1301-01: Function Type 1301-01: Expected Number of Digits 1311-01: Station Extension Number 4231: Dial Action Table Digit Assignments
Operation:	N/A	
Forced Unscreened Transfer	Automatically converts Automated Attendant Screened Transfers to Unscreened Transfers.	2144-02: Forced Unscreened Transfer
Operation:	N/A	
G		
Go to a Mailbox	An Automated Attendant caller can dial a digit and route directly into a mailbox.	4231: Dial Action Table Digit Assignments (GOTO mailbox, XXX, or IXXX)
Operation:	Outside caller follows Instruction Menu	
Greeting	A user can record a Greeting for their mailbox callers to hear.	4201-02: Subscriber Message Length <u>Enabling Remote Greeting</u> 4231: Dial Action Table Digit Assignment (LOGON to mailbox, N, XXX, or IXXX).
Operation:	G + Select Greeting	

DSX Programmer's Quick Reference - IntraMail (Page 7 of 10)

Feature	Description	Programming
Group Mailbox	Subscribers in the same group can share a Group Mailbox.	<u>Programming a Ring Group Mailbox</u> 2113-02: Ring Group 2141-01: Station Mailbox Type For a Subscriber Mailbox 2211-01: Mailbox Type (1) 221x: Subscriber Mailbox options For a Routing Mailbox 2211-01: Mailbox Type (2) 2211-01: Routing Mailbox Number 422x: Routing Mailbox Options <u>Programming a UCD Group Mailbox</u> Set up UCD Hunting For a Subscriber Mailbox 2311-01: UCD Group Mailbox Type (1) 23xx: Subscriber Mailbox options For a Routing Mailbox 2311-01: Mailbox Type (2) 2311-01: UCD Group Routing Mailbox Number 422x: Routing Mailbox Options
Operation:	N/A	
Guest Mailbox	An outside party can have their own mailbox for receiving and sending messages.	2141-01: Station Mailbox Type (1) See <i>Subscriber Mailbox</i> for more.
Operation:	See <i>Subscriber Mailbox</i> for more.	
H		
Hang Up	An automated Attendant option that immediately hangs up the outside call.	4231: Dial Action Table Digit Assignments
Operation:	N/A	
L		
Listening to Messages	While or after listening to a message, an extension user has many message handling options from which to choose.	4201-03: Message Backup/Go Ahead Time
Operation:	Log onto your mailbox + L	
Log Onto Voice Mail	An extension user can press V-MAIL to go onto (access) their mailbox.	<u>Remotely Logging Onto a Mailbox through the Automated Attendant</u> 4231: Dial Action Table Digit Assignments (LOGON + mailbox, N, XXX, or IXXX)
Operation:	V-MAIL or INTERCOM + *8	
M		
Make Call	A Subscriber Mailbox user can dial MC to return a call without knowing their caller's number.	3121-01: Caller ID Type 1611-06: Caller ID Detection Timer 3131-01: Pass Caller ID to Voice Mail 3711-01: Caller ID Callback Route Type 3711-01: Caller ID Callback Line 3711-01: Caller ID Callback Group
Operation:	Log onto your mailbox + L + MC	

IntraMail

DSX Programmer's Quick Reference - IntraMail (Page 8 of 10)

Feature	Description	Programming
Message Length	Set the maximum length of a message that can be left in a user's mailbox.	4201-02: Subscriber Message Length 4201-01: Non-Subscriber Message Length
Operation:	N/A	
Message Notification	Dials a telephone number to let the recipient know there are new messages in their mailbox.	<u>Programming that Applies to All Types of Message Notification</u> 4112-01: Outgoing Dial 9 Group 4111-02: Voice Mail Port Class of Service 4111-03: Voice Mail Port Toll Restriction Level (Day) 4114-04: Voice Mail Port Toll Restriction Level (Night) 4113: Voice Mail Port Outgoing Line Access 4114: Outgoing Line Group Access 4202-06: Number of Callout Attempts 2143-04: Message Waiting Lamp (Yes) <u>Unique Programming for Non-pager Message Notification</u> 4202-01: Wait Between Non-Pager Callout Attempts 4202-03: Wait Between Busy Non-Pager Callout Attempts 4202-04: Wait Between RNA Non-Pager Callout Attempts 4202-05: Wait for Answer Non-Pager Callout Attempts <u>Unique Programming for Digital Pager Message Notification</u> 4202-08: Digital Pager Callback Number 4202-09: Delay in Dialing Digital Pager Callback Number 4202-02: Wait Between Digital Pager Callout Attempts 4202-07: Send Pager Callout Until Acknowledged
Operation:	Log onto mailbox + OP + N	
Message on Hold	A prerecorded message can play to callers while they wait on Hold.	3103-05: Music on Hold Source (5) 4201-02: Subscriber Message Length
Operation:	To record from admin mailbox: SA + 1	
Message Playback Direction	An extension user can listen to their messages in either LIFO (last-in-first-out) or FIFO (first-in-first-out) order.	2143-01: Message Playback Order
Operation:	N/A	
Message Retention	Automatically deletes a mailbox's messages after a preset time.	2142-02: Message Retention
Operation:	N/A	
Message Storage Limit	Sets how many messages a mailbox can store.	2142-01: Number of Messages
Operation:	N/A	

DSX Programmer's Quick Reference - IntraMail (Page 9 of 10)		
Feature	Description	Programming
Message Waiting Lamp	The Ring/Message Lamp flashes when the user has new messages waiting in their mailbox.	2143-04: Message Waiting Lamp
	Operation:	N/A
Multiple Company Greetings	By assigning a unique Answer Table to each line, a single IntraMail system can provide individual greetings and dialing options for several companies.	3131-02: IntraMail Answer Table Assignment
	Operation:	N/A
N		
Next Call Routing Mailbox	Provides callers with additional dialing options after they leave a message in an extension's mailbox (depending on the setting of the Next Call Routing Mailbox Dial Mode).	<u>Programming Subscriber Mailboxes</u> 2144-04: Next Call Routing Mailbox 2144-03: Dialing Option <u>Programming Announcement Mailboxes</u> 4223-03: Next Call Routing Mailbox 4223-01: Repeat Count 4223-02: Hang Up After
	Operation:	N/A
Q		
Quick Message	Automated Attendant callers can dial a digit followed by an extension number to leave a message directly in a user's mailbox.	4231: Dial Action Table Digit Assignments (REC1 or REC2) 4201-01: Non-Subscriber Message Length
	Operation:	To leave a Quick Message: Dial * + Leave message
S		
Screened Transfer	Similar to telephone system screened transfers in which the transferring party controls the transfer.	4231: Dial Action Table Digit Assignment (1) 4222-03: Screened Transfer Timeout
	Operation:	N/A
Subscriber Mailbox	The mailbox type normally used for telephone system extensions.	2141-01: Station Mailbox Type (1) 2143-04: Message Waiting Lamp 4201-02: Subscriber Message Length 4201-01: Non-Subscriber Message Length
	Operation:	N/A
System Administrator System Administrator Mailbox	The extension user that has IntraMail system administration capabilities.	2142-03: System Administrator
	Operation:	Log onto admin mailbox + SA
System Re-initialization	Re-initializing IntraMail returns all programmed options to their default values.	9011: System Initialization
	Operation:	To initialize: INTERCOM + ### + NECDSX + 9011 + HOLD + 1 + HOLD

DSX Programmer's Quick Reference - IntraMail (Page 10 of 10)		
Feature	Description	Programming
T		
Transfer to a UCD Group	The Automated Attendant can transfer outside callers to UCD Group master numbers.	4231: Dial Action Table Digit Assignment (1 or 2 to master number).
Operation:	N/A	
U		
Undefined Routing	A dial pad digit for which the Automated Attendant has no routing defined.	4231: Dial Action Table Digit Assignment (0)
Operation:	N/A	
Unscreened Transfer	Similar to telephone system unscreened transfers in which the transferring party immediately extends the call.	4231: Dial Action Table Digit Assignment (2) 1603-01: Transfer Recall Time
Operation:	N/A	
V		
Voice Mail Overflow	Insures that IntraMail will pick up calls that don't go through.	<u>Setting Up Group Ring DIL Overflow</u> 3112-01: Direct Termination in the Day (e.g., 600) 3112-04: Direct Termination at Night (e.g., 600) 3112-02: Enable Day Overflow (Yes) 3112-03: Day Overflow Destination (700) 3112-05: Enable Night Overflow (Yes) 3112-06: Night Overflow Destination (700) 1601-02: DIL No Answer Timer <u>Setting Up UCD Group Overflow</u> <i>See Group Mailbox</i> <u>Setting Up DIL Overflow</u> 3112-02: Enable Day Overflow (Yes) 3112-03: Day Overflow Destination (700) 3112-05: Enable Night Overflow (Yes) 3112-06: Night Overflow Destination (700) 1601-02: DIL No Answer Timer <u>Setting Up Key Ring Overflow</u> 3112-01: Direct Termination in the Day (CLEAR) 3112-02: Enable Day Overflow (Yes) 3112-03: Day Overflow Destination (700) 3112-04: Direct Termination at Night (CLEAR) 3112-05: Enable Night Overflow (Yes) 3112-06: Night Overflow Destination (700) 1601-01: Line No Answer Timer
Operation:	N/A	

DS-Series to DSX Program Cross Reference

Cross Reference From DS-Series to DSX

DS-Series to DSX Cross Reference Chart

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
0101	Class of Service Option	
	Off Premise Call Forward	1406-01
	Barge-in (intrusion)	1402-02
	Camp-On to Busy Extension	1402-03
	Internal Call Forwarding	1406-02
	System Speed Dial Access	1401-01
	Extended Ring	1401-02
	Privacy	1401-03
	Trunk (Line) Queuing Priority	1411-02
	Forced Trunk Disconnect	1402-01
	Camp-On to Busy Line	1411-01
	Initiate All Call Page	1407-01
	Access Page Zone 1	1407-02
	Access Page Zone 2	1407-03
	Access Page Zone 3	1407-04
	Access Page Zone 4	1407-05
	Access Page Zone 5	1407-06
	Access Page Zone 6	1407-07
	Access Page Zone 7	1407-08
	Silent Monitor	1402-04
Flash for Single Line Sets	1403-01	
ACD Supervisor	1401-04	
Single Ring for Single Line Sets	1403-02	

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
	View System Alarms	
	Automatic Hold	1411-03
	Activate Night Mode	1402-05
	Direct Trunk Access	1402-06
	Remote Call Forwarding/Alternate Attendant	
	Soft Keys	1401-05
	Conversation Record	1401-06
	CLID Display	1404-01
	2nd Call CLID (Extension Level Call Waiting Caller ID)	1404-02
	3rd Party Caller ID	1404-03
	CLID Display Separator	1404-04
	Forced Account Codes	1412-04
	Verify Account Codes	1412-05
	Forced Account Codes for Toll Calls Only	1412-06
	Ring Type Configuration	1405-01
	Extension Ring Override	1405-02
	Key Ring Override	1405-03
	SLT Special Dial Tone	1403-03
	SLT High Voltage Message Waiting	1403-04
	SLT FSK Message Waiting	1403-05
	SLT Loop Disconnect	1403-06
	Enhanced LND	1411-04
	Day Walking Class of Service	1412-01
	Night Walking Class of Service	1412-02
	Extension Locking	1412-03
	DND Override	1401-07
	Unsupervised Conference	1411-05
	Allow DID Calls	1401-08
	DID Camp On	1401-09
	Outgoing ANI Privacy	1404-05
	Caller ID Alert Lamp	1404-06
	Allow Name Programming	1401-10
	Allow Language Programming	1401-11
	Call Screening	1401-12
0201	Tenant Option Programming	
	Call Waiting (Camp-On) Tone	1512-02
	Handsfree Reply on Intercom Calls	1513-02
	Voice Announced Intercom Calls	1513-01
	Automatic Handsfree	1512-01
	Music On Hold	1521-01
	MOH on Transfer	1521-02
	Background Music	1521-03
	Enable Account Codes in Speed Dial	1541-02
	# Key to Enter Account Codes	1541-01
	Account Code Toll Level	1541-04
	View Account Codes	1541-03
	Name Format	1511-01
	CPRU Relay	
	CPRU Relay Page Zone Assignment	
	Door1 Relay	2101-06
	Door1 Relay Page Zone Assignment	
	Door2 Relay	2101-06
	Door2 Relay Page Zone Assignment	

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
0202	Ring Over External Page Options	
	Background Music Over External Page	1521-04
	Door Chime Over External Page	1531-04
	Page Ring Volume	1531-03
	External Page Ring Source (Type?)	1531-01
	Extension	1531-02
0203	UNA Ringing Over External Page	
	Trunk Port	1532-01
	UNA Ringing Option	
0301	System Options (Part 1)	
	Number of Operators	1501-01
	Operator 1 Extension	1502-01
	Operator 2 Extension	1502-02
	Operator 3 Extension	1502-03
	Operator 4 Extension	1502-04
	Number of Digits in a System Speed Dial Code	1701-01
	A-Law Companding	
	CPU Baud Rate	1111-01
	Fixed Baud Rate	
	Modem Installed	
	SMDR Port	1541-01
Print SMDR Header	1541-02	
SMDR Language	1541-03	
0302	System Identification	
	Company Name	1011-01
	Company Phone Number	1011-02
	System Type	1001-01
	Software Version	1001-02
	Time	1021-01
	Date	1021-02
	Daylight Savings Time Adjustment	1022-01
Time and Date Format	1511-02	
0401	System Timers	
	Park Recall	1603-04
	Modem Reserve	
	Transfer Recall	1603-01
	Intercom Inter-digit	1602-01
	Meet-Me Conference	1605-02
	Dialing Pause	1602-04
	Page Duration	1605-01
	Door Unlock	1605-03
	DIL No Answer	1601-02
	Trunk Revert	1601-01
	Trunk Delay Ring	1604-01
	Trunk Overflow	
	Centrex Type Feature Key Delay	
	ACD/UCD Overflow	1601-04
	Number of Password Attempts	
	Program Lockout Time	N/A
	Force Program Exit	1605-04
	Auto Redial Retry Timer	1602-06
	Auto Redial Busy Timer	1602-07

Cross Reference

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference			
DS Program	DS Program Description	DSX Program	
0402	Trunk Timers		
	Camp-On		
	Line Response	1602-02	
	Dial Tone Detect	1602-03	
	PBX/Centrex Flash	1612-04	
	Flash Disconnect	1612-05	
	Force Idle (Trunk Guard Time)	1602-05	
	PBX Pause		
	Minimum Ring Detection Timer	1611-01	
	DP Make Timer	1612-02	
	DP Break Timer	1612-01	
	DP Interdigit Timer	1612-03	
	Manual DTMF Tone On	1111-01	
	Manual DTMF Tone Off	1111-02	
	Speed Dial DTMF Tone On	1111-03	
	Speed Dial DTMF Tone Off	1111-04	
	Loop Current Detection Time	1613-01	
	Far End Disconnect	1613-02	
	Minimum Single Ring Detection Timer	1611-02	
	Minimum Double Ring Detection Off Timer	1611-03	
	Maximum Double Ring Detection Off Timer	1611-04	
	Ringing Signal End Detect Timer	1611-05	
	Caller ID Detection Timer	1611-06	
	Ground Start Timer	1612-06	
	Pause Timer		
	DP Mute Timer	1612-07	
	P.F. Recovery Detect Timer	1613-03	
	0403	Station Timers	
		Hold Recall	1603-02
		Exclusive Hold Recall	1603-03
Camp-On			
Call Forward Ring No Answer		1601-03	
Call Waiting Tone Interval			
Call Coverage Delay		1604-02	
Hoof Flash Transfer			
Hook Flash Disconnect			
Number of Extended Rings		1604-03	
Drop Pulse Send			
DTMF Detect			
Ring No Answer Hunt			
0404	Analog Station Timers		
	Loop Current	1613-01	
	Ringing Frequency		
	Minimum Break Time	1621-01	
	Maximum Break Time	1621-02	
	Minimum Make Time	1621-03	
	Maximum Make Time	1621-04	
	Minimum Hookflash Time	1621-05	
	Maximum Hookflash Time	1621-06	
	Minimum Ground Flash Time		
	Minimum Off-Hook Time	1621-07	
Off-Hook Guard Time	1621-09		

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
	Dial Pulse Guard Timer	1621-08
	Loop Disconnect Time	1622-01
	Ring/MW Wait Period Time	1622-02
0405	T1/E1 Trunk Timers	
	Loop Detection Time	1631-01
	Pause Timer	
	Transmit Dial Pulse Break Time	1632-01
	Transmit Dial Pulse Make Time	1632-02
	Transmit Dial Pulse Interdigit Time	1632-03
	Receive Dial Pulse Minimum Make Time	1631-04
	Receive Dial Pulse Maximum Make Time	1631-05
	Receive Dial Pulse Minimum Break Time	1631-02
	Receive Dial Pulse Maximum Break Time	1631-03
	Transmit Answer Time	1651-03
	Receive Minimum Answer Time	1652-05
	Receive Maximum Answer Time	1652-06
	Receive Clear Signal Time	1631-08
	Transmit Flash Time	1632-04
	Receive Flash Minimum Time	1631-06
	Receive Flash Maximum Time	1631-07
0406	T1 Trunk Timers	
	Minimum Ring Detection Time	1641-01
	Single Ring Minimum Detection Time	1641-02
	Double Ring Minimum Off Time	1641-03
	Double Ring Maximum Off Time	1641-04
	Ring Stop Detection Time	1641-05
	Transmit Wink Time	1642-01
	Receive Wink Minimum Time	1642-02
	Receive Wink Maximum Time	1642-03
	Transmit Remove Ring Time	
0407	E1 Trunk Timers	
	Forced Release Time	1651-04
	Transmit Double Answer Time	1651-06
	Receive Double Answer Minimum Time	1652-09
	Receive Double Answer Maximum Time	1652-10
	Transmit Seize Acknowledge Time	1651-01
	Receive Seize Acknowledge Minimum Time	1652-01
	Receive Seize Acknowledge Maximum Time	1652-02
	Transmit Digit Acknowledge Time	1651-02
	Receive Digit Acknowledge Time	
	Receive Digit Acknowledge Minimum Time	1652-03
	Receive Digit Acknowledge Maximum Time	1652-04
	Receive Meter Pulse Minimum Time	1652-07
	Receive Meter Pulse Maximum Time	1652-08
	Receive Line Block Minimum Time	1652-11
	Receive Line Block Recover Time	1652-12
	Transmit Clear Signal Time	1632-05
	Transmit Seize Signal Time	
0408	E1 MFC Timers	
	Group A Response Time	1654-01
	Group A Tone Complete Time	1654-02

**Cross
Reference**

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
	Group B Response Time	1654-03
	Group B Tone Complete Time	1654-04
	Group C Response Time	1654-05
	Group C Tone Complete Time	1654-06
	Group I Signal Time	1653-01
	Group I Tone Complete Time	1653-02
	Group II Signal Time	1653-03
	Group A Pulse Time	1653-04
0501	Numbering Plan	
	Digit 0 Options	1301-01
	Digit 1 Options	1301-01
	Digit 2 Options	1301-01
	Digit 3 Options	1301-01
	Digit 4 Options	1301-01
	Digit 5 Options	1301-01
	Digit 6 Options	1301-01
	Digit 7 Options	1301-01
	Digit 8 Options	1301-01
	Digit 9 Options	1301-01
	Single Digit Access	
0502	Station Extension Assignments	1311-01
0503	Trunk Extension Assignments	1313-01
0505	Extension Swap Utility	9031-01
0510	ACD/UCD Master Extension Numbers and Names	
	Group Number	1315-01
	Hunt Group Master Number	1315-01
	Overflow Destination	2302-01
	Name	2301-01
	Hunt Group Ring Type	2301-02
0511	Ring Group Master Extension Numbers and Names	
	Group Number	1314-01
	Name	2201-01
	Extension Number	1314-01
	Ring Group Ring Type	2201-02
0601	Configure Toll Level Options	
	Program Toll Restriction	9012-01
	Initialize Toll Restriction	9012-01
	Toll Restriction Level	
	Active Dial Pad	3511-01
	N11 Dialing	3512-04
	0+ Dialing	3512-01
	International (011) Dialing	3512-02
	Equal Access (101X + XXX) Dialing	3512-03
0602	1010 + XXX Equal Access Dialing	3521-01
0603	1 + NPA/NXX Dialing 3-Digit Table	3531-01
0604	1 + NPA + NXX Dialing 6-Digit Table	3541-01

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
0605	NPA/NXX Dialing 3-Digit Table	3551-01
0606	NPA + NXX Dialing 6-Digit Table	3561-01
0610	PBX Access Codes Table	3401-01
0801	Selectable Display Messages	2501-01
1001	Trunk Port Description	
	Trunk Circuit Type	3101-01
	Trunk Extension Number	1313-01
	Trunk Name	3101-02
	Trunk Transmit Gain	3103-01
	Trunk Receive Gain	3103-02
	Trunk Class of Service Assignment	3102-01
	PBX Line	3101-04
	Disable Forced Account Codes	3111-01
	Loop Length	3103-03
	Trunk Toll Restriction Level	3102-02
	Override Extension Toll Restriction	3111-02
	Print SMDR	3111-06
	Caller ID	3121-01
	ANI/DNIS (DS2000 Only)	3121-02
	ANI Delimiter (DS2000 Only)	3121-03
	Number of ANI digits (DS2000 Only)	3121-04
	Voice Mail Caller ID	3122-XX
	Dial Tone Detection	3111-03
	E1 Signaling Type (DS2000 Only)	3101-05
	MFC Dialing Type (DS2000 Only)	3101-06
	Enable MFC GB (DS2000 Only)	3111-04
	Store and Forward	3111-05
1002	Trunk Groups	
	Trunk Group	3201-XX
	Order Number	3201-XX
1003	Trunk Options	
	Call Pickup Group	3113-01
	Direct Termination (Day)	3112-01
	Activate Overflow during the Day	3112-02
	Day Overflow Destination	3112-03
	Direct Termination (Night)	3112-04
	Activate Overflow at Night	3112-05
	Night Overflow Destination	3112-06
	Day Ring Type	3113-02
	Night Ring Type	3113-03
	Delay Ring Type	3113-04
	MOH Source	3103-05
	Tandem Trunk	3103-04
	Answer Table	3131-02
	Dial 9 Group (DS2000 Only)	2113-01
	Extension's Operator (DS2000 Only)	2114-03
1004	Line Group Access	2133-XX
1005	Trunk Caller ID Logging Group	3122-XX

Cross Reference

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
1006	Trunk Line Access	3142-01
1101	System Speed Dial Numbers	
	System Speed Dial Bin	1702-XX
	Line/Group/ICM	1702-XX
	System Speed Dial Number	1702-XX
	System Speed Dial Name	1702-XX
1201	Verified Account Codes Table	3601-XX
1301	Caller ID Group Configuration	3701-XX
1302	Caller ID Outbound Line/Group	3711-01
	10 Digit Local Calls	3712-02
1303	Home Area (HPNA) Codes	3713-XX
1304	Home Area (HPNA) Exception List	3714-XX
1305	Foreign Area (FPNA) Exception List Data	3715-XX
1401	Number of DID Digits	3301-01
1402	DID Translation Table	3302-01
1403	DID MFC Dialing Category	3302-01
1701	Programmable Function Key Assignments	
	Undefined	2121-00
	Switched Loop Key	2121-01
	Fixed Loop Key	2121-02
	Line Key	2121-03
	Park Orbit Key	2121-04
	Hotline Key	2121-05
	Call Coverage Immediate Ring	2121-06
	Call Coverage No Ring	2121-07
	Call Coverage Delay Ring	2121-08
	Group Pickup Immediate Ring	2121-09
	Group Pickup No Ring	2121-10
	Group Pickup Delay Ring	2121-11
	Page Zone Key	2121-13
	System Speed Dial Key	2121-14
	Personal Speed Dial Key	2121-15
	Call Timer Key	2121-16
	Voice Mail Record Key	2121-17
	Night Key	2121-18
	Data Key	
	Split Key	2121-20
	ICM Directory Key	2121-21
	ACD Log On Key	
	Reverse Voice Over Key	2121-23
	Message Center Key	2121-24
	Save Key	2121-25
	Account Code Key	2121-26
	Call Forwarding	2121-27
	Headset Key	2121-28

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference			
DS Program	DS Program Description	DSX Program	
1702	Personal Speed Dial Key		
	Personal Speed Dial Bin	2151-XX	
	Personal Speed Dial Number	2151-XX	
	Personal speed Dial Name.	2151-XX	
1703	DSS Key Assignment		
	Key Number	2402-XX	
	BLF Extension Assignment.	2402-XX	
1704	DSS Console Key Assignment		
	Undefined	2402-00	
	Line Key	2402-03	
	Park Orbit Key.	2402-04	
	Hotline Key	2402-05	
	Call Coverage Immediate Ring	2402-06	
	Call Coverage No Ring	2402-07	
	Call Coverage Delay Ring.	2402-08	
	Group Pickup Immediate Ring	2402-09	
	Group Pickup No Ring	2402-10	
	Group Pickup Delay Ring	2402-11	
	Page Zone Key	2402-13	
	System Speed Dial Key	2402-14	
	Personal Speed Dial Key	2402-15	
	Voice Mail Record Key	2402-17	
	Night Key	2402-18	
	Data Key		
	Split Key	2402-20	
	ICM Directory Key	2402-21	
	ACD Log On Key		
	Reverse Voice Over Key	2402-23	
	Message Center Key	2402-24	
	Save Key	2402-25	
	Account Code Key	2402-26	
	Call Forwarding.	2402-27	
	Headset Key.	2402-28	
	1705	Soft Key Configuration	2124-XX
	1801	Extension Port Description	
Extension Circuit Type		2101-01	
Extension Numbering		1311-01	
Extension Name		2101-02	
DSS Type.		1202-01	
DSS Block Number			
Door Chime.		2101-04	
Relay Owner		2101-06	
Extension Class of Service Assignment		2102-01	
Extension Toll Level Day		2102-02	
Extension Toll Level Night		2102-03	
Access Level		2102-04	
DID Station Intercept Destination.		2115-02	
DID Station Intercept		2115-02	

Cross Reference

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
1802	Extension Options (Part 1)	
	Do Not Disturb	2111-01
	Ring Group Number	2113-02
	Call Pickup Group Number	2113-03
	Privacy Release Group	2113-04
	Off-Hook Signaling for Intercom Calls	2116-01
	Off-Hook Signaling for CO Calls	2116-03
	Handsfree Reply on Intercom Calls	2112-05
	Automatic Handsfree	2112-01
	Busy Lamp Field	2111-03
	Line Dial Up	2111-06
	Station's Dial 9 Group	2113-01
	Retain Trunk Volume Setting	2111-07
	Key Access to Outbound Lines	2111-05
	Page Zone Member	2113-05
	BGM	2111-02
	Extension's Operator	2114-03
	Ring Down Destination	2114-02
	Speed Dial Block	2111-09
	Answering Machine	2111-08
	Outgoing ANI ID (DS2000 Only)	
1803	Extension Line Access Assignments	
	Access Option	2131-01
1804	Extension Trunk Group Access	
	Trunk Group Access	2133-01
1805	Ring Assignments	
	Ring Assignment	2132-01
1806	Ring Type Configuration	
	Day Ring Type	2103-01
	Night Ring Type	2103-02
	Delay Ring Type	2103-03
	Initialize Ring Type	
1807	Extension Features (Part 2)	
	Station Voice Announced Icm Calls	2112-03
	Headset Voice Announced Icm Calls	2112-04
	Paging Through Speaker	2112-06
	Headset	2112-02
	Ringing Line Preference	2111-04
	Hunt Type	2115-01
	Hunt Destination	2115-01
	Hunt master Number	2115-01
	Prime Line Type	2114-01
	Prime Line Key	2114-01
	Prime Line Trunk/Group	2114-01
	PIN Code	2102-05
	Walking Class of Service Security Code	1412-xx
	Caller ID Log Type	2117-01
	Caller ID Personal Records	2117-01
	Caller ID Logging Group	2117-01
Display Language	2101-03	

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
1808	IntraMail Subscriber Mailbox Options	
	Extension Number	1312-01
	Mailbox Type	2141-01
	Mailbox Active	2141-01
	Number of Messages	2142-01
	Message Playback	2143-01
	Auto Erase/Save of Messages	2143-02
	Message Retention	2142-02
	Recording Conversation Beep	2143-05
	Message Waiting Lamp	2143-04
	Auto Attendant Do Not Disturb	2144-01
	Forced Unscreened Transfer	2144-02
	Auto Time Stamp	2143-03
	System Administrator	2142-03
	Dialing Option	2144-03
	Next Call Routing Mailbox	2144-04
	Directory List Number	2144-05
8001	Voice Mail Setup	
	Voice Mail Type	4101-01
	Voice Mail Master Extension No.	4101-02
8002	Voice Mail Options (Part 1)	
	Name	4111-01
	Class of Service	4111-02
	Toll Restriction Level (Day)	4111-03
	Toll Restriction Level (Night)	4111-04
	Operator	4112-02
	Dial 9 Group	4112-01
	Outgoing Trunk Group Access	4114-XX
8003	Voice Mail Options (Part 2)	
	Trunk Number	4113-XX
	Trunk Access Type	4113-XX
8004	IntraMail System Options	
	Subscriber Message Length	4201-02
	Non-Subscriber Message Length	4201-01
	Message Backup/Go Ahead Time	4201-03
	Fax Extension	
	Digital Pager Callback Number	4202-08
	Delay in Dialing Digital Pager Callback Number	4202-09
	Wait Between Digital Pager Callout Attempts	4202-02
	Wait Between Non-Pager Callout Attempts	4202-01
	Wait Between Busy Non-Pager Callout Attempts	4202-03
	Wait Between RNA Non-Pager Callout Attempts	4202-04
	Wait for Answer Non-Pager Callout Attempts	4202-05
	Number of Callout Attempts	4202-06
Send Pager Callout Until Acknowledged	4202-07	

Cross Reference

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
8005	IntraMail Master Mailbox Options	
	Mailbox Number	4101-02
	Mailbox Type.	4101-01
	Mailbox ACtive	4101-01
	Minimum Number of Letters Required.	4224-05
	Directory List Number to Use.	4224-01
	Extension Name Match	4224-04
	Unscreened or Screened Transfer	4224-06
	Screened Transfer Timeout	4224-03
	Time Limit for Dialing Commands.	4224-02
	Fax Detection	4224-08
Next Call Routing Mailbox	4224-07	
8006	IntraMail Routing Mailboxes	
	Mailbox Number	4221-01
	Mailbox Type.	4221-02
	Mailbox Active	4221-01
	Dial Action Table.	4222-01
	Screened Transfer Timeout	4222-03
	Time Limit for Dialing Commands.	4222-02
	Fax Detection	4222-04
	Next Call Routing Mailbox	4223-03
	Repeat Count.	4223-01
	Hang Up After.	4223-02
	Minimum Number of Letters Required.	4224-05
	Directory List Number to Use.	4224-01
	Extension Name Match	4224-04
	Unscreened or Screened Transfer	4224-06
	Screened Transfer Timeout	4224-03
	Time Limit for Dialing Commands.	4224-02
	Fax Detection	4224-08
Next Call Routing Mailbox	4224-07	
8007	IntraMail Answer Tables	
	Answer Table.	4211-01
	Answer Schedule Override	4211-02
	Override Mailbox	4211-03
	Default Mailbox	4211-01
	Next Answer Table	4211-04
	Schedule Entry	4212-XX
	Schedule Type	4212-XX-XX
	Type 1: (Day of the Week)	
	Routing Mailbox Number	4212-XX-XX
	Day of the Week	4212-XX-XX
	Schedule Start Time	4212-XX-XX
	Schedule Stop Time.	4212-XX-XX
	Type 2: (Range of Days)	
	Routing Mailbox Number	4212-XX-XX
	Schedule Start Day	4212-XX-XX
Schedule End Day	4212-XX-XX	
Schedule Start Time	4212-XX-XX	
Schedule Stop Time.	4212-XX-XX	

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
	Type 3: (Range of Days)	
	Routing Mailbox Number	4212-XX-XX
	Schedule Run Date	4212-XX-XX
	Schedule Start Time	4212-XX-XX
	Schedule Stop Time.	4212-XX-XX
8008	IntraMail Dial Action Tables	
	Digit "1"	4231-XX-01
	Digit "2"	4231-XX-02
	Digit "3"	4231-XX-03
	Digit "4"	4231-XX-04
	Digit "5"	4231-XX-05
	Digit "6"	4231-XX-06
	Digit "7"	4231-XX-07
	Digit "8"	4231-XX-08
	Digit "9"	4231-XX-09
	Digit "0"	4231-XX-10
	Digit "*"	4231-XX-11
	Digit "#"	4231-XX-12
	TIMEOUT.	4231-XX-13
9801	Copy Command	902X-01
9803	Ring Tone Setup	
	Initialize.	9114-01
	Ring Tone #	2103-0X
	Frequency #1	2103-0X
	Frequency #2.	2103-0X
	Modulation	2103-0X
9804	Initialize Caller ID Log Utility.	9013-01
9901	Reset Station Port	9002-01
9902	Set Up Stations (DS1000)	
9902	Set Up Stations (DS2000)	
	Slot?	
	Install	
	Swap	
	Remove	
	Ports	
9903	Set Up Trunks (DS1000)	
9903	Set Up Trunks (DS2000)	
9904	T1/E1 Configuration	
	Clock Control	1213-02
	Transmit Pulse Amplitude	1213-03
	Frame Type	1213-04
	Zero Suppression.	1213-05
	Number of PCM Channels	1213-01
	Loopback.	1213-06

Cross Reference

Cross Reference From DS-Series to DSX

DS to DSX Programming Cross Reference		
DS Program	DS Program Description	DSX Program
9905	Password	1031-01
9906	Database Save	9041-01
9907	Database Load	9042-01
9908	PC Card Erase Utility	
9988	DS1000 Database Transfer Utility	
9998	Regional Defaults	
9999	System Initialization.	9011-01

DSX

Program List

System Options: 1001-1702

10xx-Configuration

100x-System

1001-Version

- 1001-01: System Type
- 1001-02: Software Version
- 1001-03: DSP Version

101x-ID

1011-Name

- 1011-01: System Name
- 1011-02: Telephone Number
- Name Programming Chart

102x-Time

1021-Set Time and Date

- 1021-01: System Time
- 1021-02: System Date

1022-Daylight Savings Time

- 1022-01: Automatic Daylight Savings Time Setting

1023-Internet (Network Time Server [NTS])

- 1023-01: Network Time Server Name

103x-Programming

1031-Password Entry

- 1031-01: New Password

11xx-CPU

110x-I/O

- 1101-RS232 Settings

DSX Program List

- 1101-01: Baud Rate
- 1102-Modem Settings
 - TBD
- 1103-USB Settings
 - TBD
- 1104-Ethernet Setup
 - 1104-01: System IP Address
 - 1104-02: System Subnet Mask
 - 1104-03: Default Gateway

111x-Tones

- 1111-DTMF Setup
 - 1111-01: Manual DTMF Tone On
 - 1111-02: Manual DTMF Tone Off
 - 1111-03: Speed Dial DTMF Tone On
 - 1111-04: Speed Dial DTMF Tone Off

12xx-Slots

120x-Stations

- 1201-Type (Station Card Type)
 - 1201-01: Card Type
- 1202-Ports (Primary Station Ports)
 - 1202-01: Primary Station Port Assignment
- 1203-Secondary Station Ports
 - 1203-01: Secondary Station Port Assignment

121x-Lines

- 1211-Lines (Line Card Type)
 - 1211-01: Card Type
- 1212-Ports
 - 1212-01: Line Port Assignment
- 1213-T1/E1 Card Setup
 - 1213-01: Number of PCM Channels
 - 1213-02: Clock Control
 - 1213-03: Transmit Pulse Amplitude
 - 1213-04: Framing Type
 - 1213-05: Zero Suppression
 - 1213-06: Loopback Mode

13xx-Numbering

130x-Dial Plan

- 1301-Digits
 - 1301-[01-10]: Function Type
 - 1301-[01-10]: Expected Number of Digits

131x-Extensions

- 1311-Stations
 - 1311-01: Station Extension Number
- 1312-Voice Mail Ports
 - 1312-01: Voice Mail Extension Number
- 1313-Lines
 - 1313-01: Line Extension Number
- 1314-Ring Groups
 - 1314-01: Ring Group Master Extension Number
- 1315-UCD Groups
 - 1315-01: UCD Group Master Extension Number

14xx-COS (Class of Service)

140x-Station

1401-Features

- 1401-01: System Speed Dial Access
- 1401-02: Extended Ring
- 1401-03: Privacy
- 1401-04: ACD Supervisor
- 1401-05: Soft Keys
- 1401-06: Conversation Record
- 1401-07: DND Override
- 1401-08: Receive DID Calls
- 1401-09: Receive DID Camp-On
- 1401-10: Name Programming
- 1401-11: Language Programming
- 1401-12: Call Screening
- 1401-13: Hotline Automatic Transfer

1402-Access

- 1402-01: Forced Line Disconnect
- 1402-02: Barge In (Intrusion)
- 1402-03: Camp-On to Busy Extension
- 1402-04: Silent Monitor
- 1402-05: Activate Night Mode
- 1402-06: Direct Line Access
- 1402-07: Remote Call Forwarding

1403-SLT's (Single Line Telephone Options)

- 1403-01: Flash for Single Line Set
- 1403-02: Single Ring for Single Line Set
- 1403-03: Special Dial Tone for Single Line Set
- 1403-04: High Voltage Message Waiting Lamp for Single Line Set
- 1403-05: FSK Message Waiting Lamp for Single Line Set
- 1403-06: Loop Disconnect for Single Line Set

1404-Caller ID

- 1404-01: Caller ID Display
- 1404-02: Second Call Caller ID
- 1404-03: Third Party Caller ID
- 1404-04: Caller ID Display Separator
- 1404-05: Outgoing ANI Privacy
- 1404-06: Caller ID Alert Lamp

1405-Distinctive Ringing

- 1405-01: Ring Type Configuration
- 1405-02: Station Ring Override
- 1405-03: Key Ring Override

1406-Call Forwarding Options

- 1406-01: Call Forwarding Off-Premises
- 1406-02: Internal Call Forwarding

1407-Paging

- 1407-01: Make All Call Page
- 1407-02: Make Page Into Zone 1
- 1407-03: Make Page Into Zone 2
- 1407-04: Make Page Into Zone 3
- 1407-05: Make Page Into Zone 4
- 1407-06: Make Page Into Zone 5
- 1407-07: Make Page Into Zone 6

DSX Program List

1407-08: Make Page Into Zone 7

141x-Line

1411-Access

1411-01: Camp-On to Busy Lines
1411-02: Line Queue Priority
1411-03: Automatic Hold
1411-04: Enhanced Last Number Redial
1411-05: Unsupervised Conference

1412-Toll Restriction

1412-01: Walking Class of Service (Day)
1412-02: Walking Class of Service (Night)
1412-03: Station Locking
1412-04: Forced Account Codes
1412-05: Verified Account Codes
1412-06: Account Codes for Toll Calls Only

15xx-Options

150x-Operators

1501-Setup

1501-01: Number of Operators

1502-Assignments

1502-01: Operator Number 1
1502-02: Operator Number 2
1502-03: Operator Number 3
1502-04: Operator Number 4

151x-Stations

1511-Display

1511-01: Name Format
1511-02: Clock Display Format

1512-Calls

1512-01: Automatic Handsfree
1512-02: Call Waiting Tones

1513-Intercom

1513-01: Intercom Voice Announcements
1513-02: Handsfree Reply (Handsfree Answerback)

152x-MOH/BGM

1521-Setup

1521-01: Enable Music on Hold
1521-02: Music on Hold for Transferred Calls
1521-03: Background Music Source
1521-04: Background Music over External Page
1521-05: Audio Input 1 Gain Setting
1521-06: Audio Input 2 Gain Setting

153x-Paging

1531-Setup

1531-01: External Page Ring Type
1531-02: Extension Ring Over External Page
1531-03: External Page Ring Volume
1531-04: Door Chime Over External Page
1531-05: External Page Gain

1532-Ring Control

1532-[01-64]: External Page Line Ringing

154x-SMDR (Station Message Detail Recording)

- 1541-Setup
 - 1541-01: SMDR Port
 - 1541-02: Print SMDR Headers
 - 1541-03: SMDR Language

155x-Account Codes

- 1551-Setup
 - 1551-01: Dial # to Enter Account Codes
 - 1551-02: Allow Account Codes in Speed Dial Bins
 - 1551-03: Show Account Codes on Telephone Display
 - 1551-04: Account Code Toll Restriction Level

16xx-Timers

160x-Feature Timers

- 1601-Incoming Call Timers
 - 1601-01: Line No Answer Timer
 - 1601-02: DIL No Answer Timer
 - 1601-03: Call Forward No Answer Timer
 - 1601-04: UCD No Answer Timer
- 1602-Outgoing Call Timers
 - 1602-01: Interdigit Timer
 - 1602-02: Line Response Timer
 - 1602-03: Dialtone Detect Timer
 - 1602-04: Dial Pause Timer
 - 1602-05: CO Busy Out Timer
 - 1602-06: Repeat Redial Timer
 - 1602-07: Repeat Redial Busy Timer
- 1603-Recall Timers
 - 1603-01: Transfer Recall Timer
 - 1603-02: Hold Recall Timer
 - 1603-03: Exclusive Hold Recall Timer
 - 1603-04: Park Orbit Recall Timer
- 1604-Station Timers
 - 1604-01: Delay Ring Timer
 - 1604-02: Call Coverage Delay Ring Timer
 - 1604-03: Extended Ringing Timer
- 1605-Control Timers
 - 1605-01: Page Duration Timer
 - 1605-02: Meet Me Conference Join Timer
 - 1605-03: Door Relay Unlock Timer
 - 1605-04: Forced Program Exit Timer
 - 1605-05: Backlight Idle Timer

161x-COI (Analog Line) Timers

- 1611-Incoming
 - 1611-01: Minimum Ring Detect Timer
 - 1611-02: Minimum Single Ring Detection Timer
 - 1611-03: Minimum Double Ring Detection Off Timer
 - 1611-04: Maximum Double Ring Detection Off Timer
 - 1611-05: Ringing Signal End Detection Timer
 - 1611-06: Caller ID Detection Timer
- 1612-Outgoing
 - 1612-01: DP Break Timer
 - 1612-02: DP Make Timer
 - 1612-03: DP Interdigit Timer

DSX Program List

1612-04: PBX/Centrex Flash Timer

1612-05: Flash Disconnect Timer

1612-06: Ground Start Timer

1612-07: Shunt Pause Timer

1613-Loop Control

1613-01: Loop Current Detection Timer

1613-02: Far End Disconnect Timer

1613-03: Power Failure Recovery Detect Timer

162x-SLI (Analog Single Line) Timers

1621-Incoming

1621-01: Minimum DP Break Timer

1621-02: Maximum DP Break Timer

1621-03: Minimum DP Make Timer

1621-04: Maximum DP Make Timer

1621-05: Minimum Hookflash Timer

1621-06: Maximum Hookflash Timer

1621-07: Minimum Off Hook Timer

1621-08: Dial Pulse Guard Timer

1621-09: Off Hook Guard Time

1622-Outgoing

1622-01: Loop Disconnect Timer

1622-02: Ring/MW Wait Period Time

163x-T1/E1 Timers

1631-Incoming

1631-01: Receive Loop Detection Timer

1631-02: Receive Dial Pulse Minimum Break Timer

1631-03: Receive Dial Pulse Maximum Break Timer

1631-04: Receive Dial Pulse Minimum Make Timer

1631-05: Receive Dial Pulse Maximum Make Timer

1631-06: Receive Minimum Flash Timer

1631-07: Receive Maximum Flash Timer

1631-08: Receive Minimum Clear Signal Timer

1632-Outgoing

1632-01: Transmit Dial Pulse Break Timer

1632-02: Transmit Dial Pulse Make Timer

1632-03: Transmit Dial Pulse Interdigit Timer

1632-04: Transmit Flash Timer

1632-05: Transmit Clear Signal Timer

164x-T1 Specific Timers

1641-Ring Detect

1641-01: Minimum Ring Detect Timer

1641-02: Single Ring Minimum Detection Timer

1641-03: Double Ring Minimum Detection Timer

1641-04: Double Ring Maximum Detection Timer

1641-05: Ring Stop Detection Timer

1642-Call Control

1642-01: Transmit Wink Timer

1642-02: Receive Minimum Wink Timer

1642-03: Receive Maximum Wink Timer

1642-04: Ground Start Remove Ring Timer

165x-E1 Specific Timers

1651-TX (Transmit Timers)

- 1651-01: Transmit Seize Acknowledge Timer
- 1651-02: Transmit Digit Acknowledge Timer
- 1651-03: Transmit Answer Timer
- 1651-04: Transmit Forced Clear Signal Timer
- 1651-05: Transmit Seize Signal (BZL) Timer
- 1651-06: Transmit Double Answer (BZL) Timer
- 1652-RX (Receive Timers)
 - 1652-01: Receive Minimum Seize Acknowledge Timer
 - 1652-02: Receive Maximum Seize Acknowledge Timer
 - 1652-03: Receive Minimum Digit Acknowledge Timer
 - 1652-04: Receive Maximum Digit Acknowledge Timer
 - 1652-05: Receive Minimum Answer Timer
 - 1652-06: Receive Maximum Answer Timer
 - 1652-07: Receive Minimum Meter Pulse Timer
 - 1652-08: Receive Maximum Meter Pulse Timer
 - 1652-09: Receive Minimum Double Answer (BZL) Timer
 - 1652-10: Receive Maximum Double Answer (BZL) Timer
 - 1652-11: Receive Minimum Line Block Timer
 - 1652-12: Receive Line Block Recover Timer
- 1653-MFC Incoming Timers
 - 1653-01: GI Signal Timer
 - 1653-02: GI Tone Complete Timer
 - 1653-03: GII Signal Timer
 - 1653-04: GA Pulse Response Timer
- 1654-MFC Outgoing Timers
 - 1654-01: GA Response Timer
 - 1654-02: GA Tone Complete Timer
 - 1654-03: GB Response Timer
 - 1654-04: GB Tone Complete Timer
 - 1654-05: GC Response Timer
 - 1654-06: GC Tone Complete Timer

17xx-Speed Dial (System)

170x-Setup

- 1701-Format
 - 1701-01: Number of System Speed Dial Bins
- 1702-Assignment (System Speed Dial Assignment)
 - 1702-[001-999]: Select System Speed Dial Bin to Program
 - 1702-[001-999]: System Speed Dial Bin Type
 - 1702-[001-999]: System Speed Dial Bin Line
 - 1702-[001-999]: System Speed Dial Bin Group
 - 1702-[001-999]: System Speed Dial Bin Number
 - 1702-[001-999]: System Speed Dial Bin Name

DSX Program List

Stations: 2101-2501

21xx-Configuration

210x-Setup

2101-Type

- 2101-01: Station Type
- 2101-02: Station Name
- 2101-03: Station Display Language
- 2101-04: Door Chime Selection
- 2101-05: Outgoing ANI ID
- 2101-06: Door Relay Assignment

2102-Access

- 2102-01: Class of Service
- 2102-02: Station Toll Level (Day)
- 2102-03: Station Toll Level (Night)
- 2102-04: User Programming Access Level
- 2102-05: Station PIN Code

2103-Ringing

- 2103-01: Day Ring Type
- 2103-02: Night Ring Type
- 2103-03: Delay Ring Type
- 2103-04: Station's Intercom Ring Tone
- 2103-05: Station's Ring Group Ring Tone
- 2103-06: Station's Recall Ring Tone
- 2103-07: Station's Ring "A" Tone
- 2103-08: Station's Ring "B" Tone
- 2103-09: Station's Ring "C" Tone

2104-Display

- 2104-01: Backlight Brightness While Active
- 2104-02: Backlight Brightness While Idle
- 2104-03: Key Pad Illumination

211x-Options

2111-Features

- 2111-01: Allow Do Not Disturb
- 2111-02: Allow Background Music
- 2111-03: Enable DSS/BLF Keys
- 2111-04: Ringing Line Preference
- 2111-05: Key Access for Outside Lines
- 2111-06: Line Dial Up
- 2111-07: Retain Line Volume Setting
- 2111-08: Answering Machine
- 2111-09: Personal Speed Dial

2112-Speaker Control

- 2112-01: Automatic Handsfree
- 2112-02: Headset Mode
- 2112-03: Voice Announcements Through Speaker
- 2112-04: Voice Announcements in Headset Mode
- 2112-05: Handsfree Reply (Handsfree Answerback)
- 2112-06: Paging Through Speaker

2113-Groups

- 2113-01: Dial 9 Group

- 2113-02: Ring Group
- 2113-03: Pickup Group
- 2113-04: Privacy Group
- 2113-05: Page Group (Zone)
- 2114-Off Hook Options
 - 2114-01: Prime Line Type
 - 2114-01: Prime Line Key
 - 2114-01: Prime Line Line
 - 2114-01: Prime Line Group
 - 2114-02: Station Ring Down Type
 - 2114-02: Station Ring Down Destination
 - 2114-03: Station's Operator Extension Number
- 2115-Hunting and Overflow Options
 - Sample Hunt Group Programming
 - 2115-01: Hunt Type
 - 2115-01: Hunt Destination
 - 2115-01: UCD Group Master Number
 - 2115-02: DID Station Intercept Type
 - 2115-02: DID Station Intercept Destination
- 2116-Off Hook Signaling Options
 - 2116-01: Off Hook Signaling for Incoming Intercom Calls
 - 2116-02: Off Hook Signaling for Calls from Hotline Partner
 - 2116-03: Off Hook Signaling for Incoming Outside Calls
- 2117-Call Logging (Caller ID Logging)
 - 2117-01: Caller ID Log Type
 - 2117-01: Caller ID Log Size
 - 2117-01: Caller ID Log Group
- 212x-Keys**
 - 2121-Feature Keys
 - 2121-[01 to 24]: Feature Key Codes
 - 2121-[01 to 24]: Feature Key Data
 - 2122-Ring Override (Key Ring Override)
 - 2122-[01 to 24]: Key Ring Override
 - 2123-BLF (DSS Keys)
 - 2123-[01-24]: DSS/BLF Key Assignments
 - 2124-Soft Keys (Idle Menu Soft Keys for Super Display)
 - 2124-[01-12]: Idle Menu Soft Key Assignments (Super Display)
- 213x-Access**
 - 2131-Lines
 - 2131-[01-64]: Line Access
 - 2132-Ringing
 - 2132-[01-64]: Line Ringing
 - 2133-Line Groups
 - 2133-[01-64]: Line Group Access
- 214x-IntraMail (Station Mailbox)**
 - 2141-Type
 - 2141-01: Station Mailbox Type
 - 2142-Setup
 - 2142-01: Number of Messages
 - 2142-02: Message Retention
 - 2142-03: System Administrator
 - 2142-04: Station Mailbox Voice Prompt Language

DSX Program List

2143-Options

- 2143-01: Message Playback Order
- 2143-02: Auto Erase/Save of Messages
- 2143-03: Auto Time Stamp
- 2143-04: Message Waiting Lamp
- 2143-05: Recording Conversation Beep

2144-Auto-Attendant (Automated Attendant)

- 2144-01: Auto Attendant Do Not Disturb
- 2144-02: Forced Unscreened Transfer
- 2144-03: Dialing Option
- 2144-04: Next Call Routing Mailbox
- 2144-05: Directory List Number

215x-Speed Dial (Personal)

2151-Assignment (Personal Speed Dial Bin Assignment)

- 2151-[01-20]: Personal Speed Dial Bin Type
- 2151-[01-20]: Personal Speed Dial Bin Line
- 2151-[01-20]: Personal Speed Dial Bin Group
- 2151-[01-20]: Personal Speed Dial Bin Number
- 2151-[01-20]: Personal Speed Dial Bin Name

22xx-Ring Groups

220x-Setup

2201-Identification

- 2201-01: Ring Group Name
- 2201-02: Ring Group Incoming Ring Type

221x-IntraMail (Ring Group Mailbox)

2211-Type

- 2211-01: Mailbox Type
- 2211-01: Routing Mailbox Number

2212-Setup

- 2212-01: Number of Messages
- 2212-02: Message Retention
- 2212-03: System Administrator
- 2212-04: Ring Group Mailbox Voice Prompt Language

2213-Options

- 2213-01: Message Playback Order
- 2213-02: Auto Erase/Save of Messages
- 2213-03: Auto Time Stamp
- 2213-04: Message Waiting Lamp
- 2213-05: Recording Conversation Beep

2214-Auto-Attendant (Automated Attendant)

- 2214-01: Auto Attendant Do Not Disturb
- 2214-02: Forced Unscreened Transfer
- 2214-03: Dialing Option
- 2214-04: Next Call Routing Mailbox
- 2214-05: Directory List Number

23xx-UCD Groups

230x-Setup

2301-Identification

- 2301-01: UCD Group Name
- 2301-02: UCD Group Incoming Ring Type

2302-Options

- 2302-01: UCD Group Overflow Destination

231x-IntraMail (UCD Group Mailbox)

- 2311-Type
 - 2311-01: UCD Group Mailbox Type
 - 2311-01: UCD Group Routing Mailbox Number
- 2312-Setup
 - 2312-01: Number of Messages
 - 2312-02: Message Retention
 - 2312-03: System Administrator
 - 2312-04: UCD Group Mailbox Voice Prompt Language
- 2313-Playback
 - 2313-01: Message Playback Order
 - 2313-02: Auto Erase/Save of Messages
 - 2313-03: Auto Time Stamp
 - 2313-04: Message Waiting Lamp
 - 2313-05: Recording Conversation Beep
- 2314-(Auto-Attendant) Automated Attendant
 - 2314-01: Auto Attendant Do Not Disturb
 - 2314-02: Forced Unscreened Transfer
 - 2314-03: Dialing Option
 - 2314-04: Next Call Routing Mailbox
 - 2314-05: Directory List Number

24xx-DSS Consoles

240x-Setup

- 2401-Config (DSS Console Configuration)
 - 2401-01: DSS Owner
- 2402-Keys (DSS Console Keys)
 - 2402-[01-60]: DSS Console Key Codes
 - 2402-[01-60]: DSS Console Key Data

25xx-Text Messages (Selectable Display Messaging)

250x-Setup

- 2501-Text
 - 2501-[01-16]: Selectable Display Messages Name Programming Chart

DSX Program List

Lines: 3101-3715

31xx-Configuration

310x-Setup

3101-Type

- 3101-01: Line Type
- 3101-02: Line Name
- 3101-03: DTMF Dialing
- 3101-04: PBX Line
- 3101-05: E1 Signaling Type
- 3101-06: MFC Signaling Type

3102-Access

- 3102-01: Line Class of Service
- 3102-02: Line Toll Level

3103-Settings

- 3103-01: Transmit Gain
- 3103-02: Receive Gain
- 3103-03: Loop Length
- 3103-04: Tandem Calls
- 3103-05: Music On Hold Source

311x-Options

3111-Features

- 3111-01: Disable Forced Account Codes
- 3111-02: Override Extension's Toll Level
- 3111-03: Dial Tone Detection
- 3111-04: Enable MFC Group B
- 3111-05: Store and Forward
- 3111-06: Station Message Detail Recording

3112-Termination

- 3112-01: Direct Termination in the Day
- 3112-02: Enable Day Overflow
- 3112-03: Day Overflow Destination
- 3112-04: Direct Termination at Night
- 3112-05: Enable Night Overflow
- 3112-06: Night Overflow Destination

3113-Ringing

- 3113-01: Pickup Group Assignment
- 3113-02: Day Ring Type
- 3113-03: Night Ring Type
- 3113-04: Delay Ring Type

312x-Caller ID

3121-Settings

- 3121-01: Caller ID Type
- 3121-02: ANI/DNIS Format
- 3121-03: ANI/DNIS Delimiter
- 3121-04: Number of ANI Digits

3122-Groups

- 3122-[01-08]: Caller ID Group Membership

313x-Voice Mail

3131-Settings

- 3131-01: Pass Caller ID to Voice Mail

3131-02: IntraMail Answer Table Assignment
3131-03: Line Voice Prompt Language

314x-TIE Line

3141-Dialing
3141-01: Tie Line Caller's Outbound Dial 9 Group
3141-02: Tie Line Caller's Operator Extension
3142-Line Access
3142-[01-64]: Tie Line Caller's Outbound Line Access
3143-Group Access
3143-[01-64]: Tie Line Caller's Outbound Line Group Access

32xx-Groups

320x-Setup

3201-Order
3201-[01-64]: Line Group

33xx-DID (Direct Inward Dialing)

330x-Setup

3301-Options
3301-01: Number of DID Digits
3302-Translations
DID Example: Routing DID Block 400-416
Default Routing
Programming Ranges and Exceptions
3302-01: Incoming DID Digits
3302-01: Day Translation Destination
3302-01: Night Translation Destination
3302-01: MFC Category

34xx-PBX

340x-Setup

3401-Codes
3401-01: PBX Access Code Digits

35xx-Toll Restriction

350x-Setup

3501-Type
3501-01: Toll Restriction Country Type
3501-02: Emergency Number

351x-Options

3511-Settings
3511-01: Active Key Pad
3512-U.S. Dialing
3512-01: Allow 0 + XXX Operator Assisted Dialing
3512-02: Allow 011 + XXX International Dialing
3512-03: Allow 101x Equal Access Dialing
3512-04: Allow N11 Dialing
3513-International Dialing
3513-01: 0 + x Dialing
3513-01: 0 + x Offset

352x-1010-XXX / Local XXX (Equal Access Dialing)

3521-Table Options
3521-01: Initialize Table
3521-02: Table Type (Allow or Deny)
3522-Table Entries
3522-xx: Table Data

DSX Program List

353x-1+XXX / TBL-A XXX (NPA/NXX Dialing 3-Digit Table)

- 3531-Table Options
 - 3531-01: Initialize Table
 - 3531-02: Table Type (Allow or Deny)

- 3532-Table Entries
 - 3532-xx: Table Data

354x-1+XXX-XXX / TBL-A XXXXXXX (1 + NPA + NXX Dialing 6-Digit Table)

- 3541-Table Options
 - 3541-01: Initialize Table
 - 3541-02: Table Type (Allow or Deny)

- 3542-Table Entries
 - 3542-xx: Table Data

355x-XXX / TBL-B-XXX (NPA/NXX Dialing 3-Digit Table)

- 3551-Table Options
 - 3551-01: Initialize Table
 - 3551-02: Table Type (Allow or Deny)

- 3552-Table Entries
 - 3552-xx: Table Data

356x-XXX-XXX / TBL-B XXXXXXX (NPA + NXX Dialing 6-Digit Table)

- 3561-Table Options
 - 3561-01: Initialize Table
 - 3561-02: Table Type (Allow or Deny)

- 3562-Table Entries
 - 3562-xx: Table Data

36xx-AC Codes (Verified Account Codes Table)

360x-Setup

- 3601-Codes
 - 3601-xx: Verified Account Code Data

37xx-Caller ID (System-Wide Options)

370x-Log Groups (Caller ID Logging Groups)

- 3701-Setup
 - 3701-[01-08]: Caller ID Logging Group Size

371x-Callback

- 3711-Route
 - 3711-01: Caller ID Callback Route Type
 - 3711-01: Caller ID Callback Line
 - 3711-01: Caller ID Callback Group
- 3712-Treatment Options (Caller ID Callback Dial Treatment Options)
 - 3712-01: Initialize Caller ID Dial Treatment Tables
 - 3712-02: 10-Digit Local Calls
 - 3712-03: Home Area Code Exception List Type
- 3713-Home NPA's (Home Area Code Table)
 - 3713-[01-16]: Home Area Code Table Data
- 3714-HNPA Exceptions (Home Area Code Exception List Table)
 - 3714-[01-96]: Home Area Code Exception List Table Data
- 3715-FNPA Exceptions (Foreign Area Code Exception List Table)
 - 3715-[01-96]: Foreign Area Code Exception List Table Data

Voice Mail Options: 4101-4231

41xx-Configuration

410x-System (Voice Mail System Options)

- 4101-Type
 - 4101-01: Voice Mail Type
 - 4101-02: Voice Mail Master Number

411x-Ports (Voice Mail Port Setup)

- 4111-Options (Voice Mail Port Options)
 - 4111-01: Voice Mail Port Name
 - 4111-02: Voice Mail Port Class of Service
 - 4111-03: Voice Mail Port Toll Restriction Level (Day)
 - 4111-04: Voice Mail Port Toll Restriction Level (Night)
Name Programming Chart
- 4112-Off Hook (Voice Mail Port Off Hook Options)
 - 4112-01: Outgoing Dial 9 Group
 - 4112-02: Operator's Extension
- 4113-Line Access (Voice Mail Port Outgoing Line Access)
 - 4113-xx: Outgoing Line xx Access
- 4114-Group Access (Outgoing Line Group Access)
 - 4114-xx: Outgoing Line Group xx Access

42xx-IntraMail

420x-Options

- 4201-Messages (IntraMail Message Options)
 - 4201-01: Outgoing Message Length
 - 4201-02: Incoming Message Length
 - 4201-03: Message Backup/Go Ahead Time
- 4202-Notification (Message Notification Options)
 - 4202-01: Wait Between Non-Pager Callout Attempts
 - 4202-02: Wait Between Digital Pager Callout Attempts
 - 4202-03: Wait Between Busy Non-Pager Callout Attempts
 - 4202-04: Wait Between RNA Non-Pager Callout Attempts
 - 4202-05: Wait for Answer Non-Pager Callout Attempts
 - 4202-06: Number of Callout Attempts
 - 4202-07: Send Pager Callout Until Acknowledged
 - 4202-08: Digital Pager Callback Number
 - 4202-09: Delay in Dialing Digital Pager Callback Number
- 4203-Voice Prompts (Active System Voice Prompt Languages)
 - 4203-01: Primary Voice Prompt Language
 - 4203-02: Secondary Voice Prompt Language

421x-Answer Table

- 4211-Setup (Answer Table Setup)
 - 4211-01: Default Mailbox
 - 4211-02: Answer Schedule Override
 - 4211-03: Override Mailbox
 - 4211-04: Next Answer Table
- 4212-Schedule (Schedule Setup)
 - 4212-[01-10]: Schedule Type
 - 4212-[01-10]: Routing Mailbox Number
 - 4212-[01-10]: Schedule Start Day
 - 4212-[01-10]: Schedule End Day

DSX Program List

4212-[01-10]: Schedule Run Date
4212-[01-10]: Schedule Start Time
4212-[01-10]: Schedule End Time
Type 1 (Day of Week) Schedule Example
Type 2 (Range of Days) Schedule Example
Type 3 (Date) Schedule Example

422x-Routing Mailbox

4221-Setup (Routing Mailbox Setup)
4221-01: Routing Mailbox Type
4221-02: Routing Mailbox Voice Prompt Language
4222-Routing Options
4222-01: Dial Action Table
4222-02: Time Limit for Dialing Commands
4222-03: Screened Transfer Timeout
4222-04: Fax Detection
4222-05: Fax Extension
4223-Announcement Opts (Announcement Mailbox Options)
4223-01: Repeat Count
4223-02: Hang Up After
4223-03: Next Call Routing Mailbox
4224-Directory Options (Directory Dialing Mailbox Options)
4224-01: Directory List Number to Use
4224-02: Time Limit for Dialing Commands
4224-03: Screened Transfer Timeout
4224-04: Extension Name Match
4224-05: Minimum Number of Letters Required
4224-06: Transfer Options
4224-07: Next Call Routing Mailbox
4224-08: Fax Detection
4224-09: Fax Transfer Extension

423x-Dial Actions (Dial Action Table Options)

4231-Digit Assignment
4231-01: Digit xx Action
4231-01: Digit xx Routing Data
STRF Action - Screened Transfer (1)
UTRF Action - Unscreened Transfer (2)
REC1 Action - Quick Message With Greeting (3)
REC2 Action - Quick Message Without Greeting (4)
LOGON Action - Log Onto Voice Mail (5)
Hang Up Action (6)
GOTO Action - Go to Mailbox (7)
UND Action - Undefined Routing (0)
Digits
Caller Dialed Digits
Ignore Digits
No Routing
Pause

Maintenance Options: 9001 - 9042

90xx-Utilities

900x-Reset (Reset Utilities)

- 9001-System (System Reset)
 - 9001-01: System Reset
- 9002-Station (Station Reset)
 - 9002-01: Station Reset

901x-Initialize (Initialize Utilities)

- 9011-System (Initialize System)
 - 9011-01: System Initialization
- 9012-Toll Restrictions (Initialize Toll Restriction)
 - 9012-01: Initialize Toll Restriction
- 9013-CID Logs (Initialize Caller ID Logs)
 - 9013-01: Initialize Caller ID Logs
- 9014-Ring Tones (Initialize Ring Tones)
 - 9014-01: Initialize Ring Tones

902x-Copy

- 9021-Station Copy
 - 9021-01: Station Copy
- 9022-Line Copy
 - 9022-01: Line Copy

903x-Swap Ports

- 9031-Station Swap
 - 9031-01: Station Swap
- 9032-Line Swap
 - 9032-01: Line Swap

904x-Backup/Restore

- 9041-Backup
 - 9041-01: Backup to CompactFlash
- 9042-Restore
 - 9042-01: Restore from CompactFlash

DSX Program List

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