

Important

DS-Series data bases are not compatible with DSX.

DSX

Upgrading DS2000 to DSX-80/160

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Upgrading

Overview

DS2000 and DSX-80/160 Compatibility Basics

When upgrading DS2000 to DSX-80/160, much of the DS2000 station equipment is compatible with the new DSX-80/160 system. This allows the customer to preserve their substantial investment in DS-Series telephones when migrating to the DSX-80/160. Here are some basic upgrade guidelines:

1. **The DS2000 4-slot KSU is not compatible with DSX.**
You must replace the DS2000 4-slot KSU with a DSX-80 KSU. The FCC prohibits the use of DS KSUs with DSX.
2. **The DS2000 8-Slot KSU is not compatible with DSX.**
You must replace the DS2000 8-slot KSU with a DSX-160 KSU. The FCC prohibits the use of DS KSUs with DSX.
3. **You must install a DSX CPU Card.**
The DS CPU PCB cannot run DSX software.
4. **You must install a DSX 16 Port Digital Station Card (16ESIU) in KSU port 1.**
The DSX system will not operate without a 16ESIU PCB in slot 1.
5. **To use telephone programming, you must connect at least one DSX telephone.**
DSX telephones connect only to DSX 16ESIU PCBs.
6. **Do not use DS2000 power supplies in DSX-80/160.**
You must replace all DS2000 power supplies with DSX supplies. The FCC prohibits the use of DS power supplies with DSX.
7. **DS-Series telephones must connect to DS 16DSTU PCBs.**
Install 16DSTU PCBs in any available KSU slot but slot 1.

How to Use this Manual

This manual is organized in two chapters as follows.

✦ **Upgrading**

This is the chapter you are reading now. It provides:

- The compatibility basics (page 1).
- A detailed compatibility chart (page 3).
- The Combined System Load Factor Worksheet (page 6).
- Detailed upgrade examples (page 7).

✦ **Parts Lists**

For your reference when upgrading, this chapter provides a complete list of parts for both the DS2000 and DSX-80/160 systems.

✦ **Cross Reference**

Another important tool when upgrading, this chapter consists of a DS-Series to DSX program cross reference. The DS-Series programs are in the left column, followed by the option description, with the corresponding DSX program in the right column.

DS2000 to DSX-80/160 Detailed Compatibility

DS2000 to DSX-80/160 Detailed Compatibility Chart (Page 1 of 2)			
Description	Part Number	DSX Compatible	Comment
DS2000 Telephones			
34-Button Super Display Telephone	80673	Yes	Must connect to a DS2000 16DSTU PCB. Install the DS 16DSTU PCB in any DSX-80/160 KSU slot but slot 1.
34-Button Display Telephone	80663		
22-Button Telephone	80570		
22-Button Display Telephone	80573		
BDS Cordless Telephone	80683		
24-Button DSS Console	80556	No	Replace with DSX 60-Button DSS.
110-Button DSS Console	80555		
2-OPX Module (Discontinued)	92177A	No	OPX feature is not available in DSX.
Digital Door Box (Discontinued)	80560	No	Replace with DSX Analog Door Box and 2PGDAD Module.
Analog Door Box	92245	Conditional	Requires 2PGDAD Module.
Single Line Telephones	-	Yes	Requires DSX 16SLIU PCB or DS2000 4/8ASTU PCB.
DS2000 Common Equipment			
4 Slot KSU	80000	No	Replace with DSX-80 KSU.
8 Slot KSU	80001	No	Replace with DSX-160 KSU.
Power Supply	80005B/C	No	Replace with DSX power supply. FCC regulations prohibit the installation of DS2000 power supplies in DSX.
Installation Cable	80892	Yes	Compatible.
8-Pin DIN to Mod-8 Cable	80893	No	DSX serial port can connect to an SMDR device using DSX Serial Adapter 1091014 and a customer provided 6-conductor line cord.
DB9 to Mod-8 Adaptor	85980	No	
DB25 to Mod-8 Adaptor	85981	No	DSX serial port cannot connect to an external modem.
Modem (CNET CN5614XR)	85862D	No	Must use DSX built-in modem.

Overview

DS2000 to DSX-80/160 Detailed Compatibility Chart (Page 2 of 2)			
Description	Part Number	DSX Compatible	Comment
PCBs			
Central Processing Unit	80025B	No	Replace with DSX-80/160 CPU.
16DSTU Digital Station PCB	80021A	Yes	Used for DS telephones on DSX. Install in any DSX-80/160 KSU slot but slot 1.
16ASTU 16 Port Analog Station PCB	80042	Conditional	The hardware is compatible. However, the on-board firmware must be upgraded to version 1.4 or higher. Contact Sales Support at 800-365-1928 for more.
8ASTU 8 Port Analog Station PCB	80041B	Yes	DSX 16SLIU provides more stations per PCB.
4ASTU 4 Port Analog Station PCB	80040B	Yes	
8ATRU 8 Port Analog Trunk PCB	80011B	Yes	DSX COIU PCB provides superior Caller ID detection.
4ATRU 4 Port Analog Trunk PCB	80010B	Yes	
T1 Trunk PCB	80061	Conditional	T1 service only. Will not provide PRI when installed in DSX-80/160.
Voice Mail			
DS-Series IntraMail	80045 80089	No	Replace with DSX IntraMail. DS IntraMail CompactFlash card is not compatible with DSX.
UltraMail and UltraMail 2000	17712 17714 17744	No	Not tested for compatibility. Replace with DSX IntraMail.
Analog Voice Mail		Conditional	NVM-DFx is tested for compatibility with DSX-80/160 and is recommended.
Digital VANGARD	17770A- xPDIG	No	Not tested for compatibility. Replace with DSX IntraMail.

Understanding System Load Factor

The combination of lines and extensions you can connect to your DSX system may be limited by the System Load Factor. Use the *Combined System Load Factor Worksheet* chart on the next page to verify your system's configuration. When entering data on the chart, for each installed card make entries for each *Load Type*. There are two *Load Types* to consider: 5 VDC and 40 VDC.

To check your system configuration:

1. Indicate the quantity for each card installed in the **Qty** column.
 - The number of keysets, single line sets, and DSS Consoles does not affect the load factor.
2. For each item and for each Load Type, multiply the **Qty** times the **Load** and enter the value in the **Total** column.
 - For example, two 16ESIU Cards have a load of 16 for 5 VDC and 40 for 40 VDC.
3. Add up the entries in each **Total** column and enter the values in **Item 1: Load Type Totals**.
4. Review **Item 2: Power Supply Capacity** and determine the capacity of the power supplies installed in your system.
5. Compare the capacities in **Item 2** to your entries in **Item 1**. **Item 1** must always be equal to or less than the entry in **Item 2**.

Important
Do not operate your system if the total for either Load Type exceeds the Power Supply Capacity of your installation.

Combined System Load Factor

DS2000 and DSX-80/160 Combined System Load Factor Worksheet					
Description	Qty	Load Type			
		5 VDC		40 VDC	
		Load	Total	Load	Total
DSX-80/160 CPU Card	1	12	12	0	0
DSX-80/160 16ESIU Card		8		20	
DS2000 16DSTU PCB		3		20	
DSX-80/160 8SLIU Card		5		8	
DSX-80/160 16SLIU Card		10		16	
DS2000 4ASTU PCB		3		5	
DS2000 8ASTU PCB		5		8	
DSX-80/160 8COIU Card		3		0	
DSX-80/160 16COIU Card		6		0	
DS2000 4ATRU PCB		4		0	
DS2000 8ATRU PCB		8		0	
DSX-80/160 T1/PRI Card		8		0	
Item 1: Load Type Totals (Cannot exceed Item 2: Power Supply Capacity.)					
Item 2: Power Supply Capacity					
If you have <u>one</u> power supply installed, the capacity is:		5 VDC = 40	40 VDC = 48		
If you have <u>two</u> power supplies installed, the capacity is:		5 VDC = 80	40 VDC = 80		
If you have <u>three</u> power supplies installed, the capacity is:		5 VDC = 120	40 VDC = 120		
Notes:					
<ul style="list-style-type: none"> • DSX-80 can only have 1 power supply. • DSX-160 can have up to 3 power supplies. You <i>cannot</i> have more than two 16ESIU or 16DSTU Cards per power supply, regardless of System Load Factor calculations. • Exceeding the allowed Load Type Total (Item 1) will cause the system's power supplies to automatically shut down and/or cause erratic system operation. • The total of all station, line, and DSS Console ports cannot exceed 160. 					

Site 1: Upgrade DS2000 4x8 to DSX-80 4x8 with Automated Attendant

Site 1 wants to upgrade to DSX 22-button telephones and add an Automated Attendant, but does not require voice mail.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(1) DS 4ATRU PCB	80010B	Compatible - replacement not required.		DSX 16COIU PCBs provide more accurate Caller ID detection.
(1) DS 16DSTU PCB	80021A	Not required.		Since Site 1 has two spare slots, the DS 16DSTU can be moved from slot 1 and used with the DS telephones.
(8) DS 22-Button Telephone (non-display)	80570	Not required.		DS telephones can however, be used if DS 16DSTU is installed.
(1) DS 4-Slot KSU	80000	Must be replaced.		DS KSUs are prohibited by FCC in DSX
(1) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
New DSX Equipment Required		(1) DSX-80 KSU	1090002	Required in DSX.
		(1) DSX Power Supply	1091008	Required in DSX.
		DSX CPU Card	1090010	<ul style="list-style-type: none"> Required in DSX. Built-in Automated Attendant is available by default, without adding voice mail.
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> Required in DSX. DSX 16ESIU is required in slot 1 for DSX telephones.
		(8) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	These telephones have a 3x24 display.
Summary: <ul style="list-style-type: none"> To upgrade, in addition to DSX telephones Site 1 must invest in a new DSX-80 KSU, DSX Power Supply, DSX CPU Card, and DSX 16ESIU PCB. As a benefit, the existing DS telephones and DS 16DSTU PCB can be kept on hand for future expansion. 				

Upgrade Examples

Site 2: Upgrade DS2000 8x24 with UltraMail to DSX-80 8x24 and IntraMail

Site 2 wants the features of the DSX IntraMail but doesn't want to invest in new telephones.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(1) DS 8ATRU PCB	80011B	Compatible - replacement not required.		DSX 16COIU PCBs provide more accurate Caller ID detection.
(2) DS 16DSTU PCB	80021A	Compatible - but only 1 DS 16DSTU can be installed in the new DSX system.		DX requires a 16ESIU in slot 1. Load Factor allows only 1 DS 16DSTU to be installed. 8 DS telephones must be replaced.
(24) DS 22-Button Display Telephone	80573	Compatible - but only 16 DS telephones can be used in the new DSX system.		With only 1 DS 16DSTU allowed, 8 DS telephones must be replaced with DSX telephones.
(1) DS 4-Slot KSU	80000	Must be replaced.		DS KSUs are prohibited by FCC in DSX.
(1) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
(1) 2 Port 3 Hour UltraMail	17712	Must be replaced.		UltraMail not supported in DSX and Site 1 wants IntraMail.
New DSX Equipment Required		(1) DSX-80 KSU	1090002	Required in DSX.
		(1) DSX Power Supply	1091008	Required in DSX.
		(1) DSX CPU Card	1090010	Required in DSX.
		(1) DSX 4x8 IntraMail	1091011	IntraMail CompactFlash Card plugs into DSX CPU.
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> Required in DSX. DSX 16ESIU is required in slot 1 for DSX telephones.
		(8) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	Eight of the existing DS telephones must be replaced because only 1 DS 16DSTU remains installed.

Summary:

- To upgrade, Site 2 must invest in a new DSX-80 KSU, DSX Power Supply, DSX CPU Card, DSX 4x8 IntraMail, and a DSX 16ESIU PCB.
- Site 2 must also add eight new DSX telephones. This is required because only one DS DSTU PCB remains, supporting 16 DS telephones.
- Site 2 can alternately do the following:
 - Replace the DSX-80 4-Slot KSU with and DSX-160 8-Slot KSU.
 - Purchase another DSX Power Supply (due to Load Factor considerations).
 - Install the 16DSTU PCBs in the new DSX KSU for connecting their existing DS keysets.
 - Purchase a single DSX 22-Button Display Telephone for programming, and connect it to the DSX 16ESIU PCB.

Site 3: Upgrade DS2000 16x48 to DSX-160 16x48 with Voice Mail

Site 3 is on the verge of expansion and wants to upgrade their common equipment and add voice mail. Like site 2, they do not want to invest in new station equipment.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(2) DS 8ATRU PCB	80011B	Compatible - replacement not required.		DSX 16COIU PCBs provide more accurate Caller ID detection.
(3) DS 16DSTU PCB	80021A	Compatible - replacement not required.		Cannot be installed in DSX KSU slot 1. That slot is reserved for a DSX 16ESIU card.
(40) DS 34-Button Display Telephone	80663	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(8) DS 34-Button Super Display Telephone	80673	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(1) DS 8-Slot KSU	80001	Must be replaced.		DS KSUs are prohibited by FCC in DSX.
(2) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
New DSX Equipment Required		(1) DSX-160 8-Slot KSU	1090003	Only slots 1-4 will work with the DS 8-Slot KSU.
		(2) DSX Power Supply	1091008	Required in DSX. Two required due to Load Factor.
		(1) DSX CPU Card	1090010	Required in DSX.
		(1) DSX 8x16 Intra-Mail	1091013	IntraMail CompactFlash Card plugs into DSX CPU.
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> Required in DSX. DSX 16ESIU is required in slot 1 for DSX telephones.
		(1) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	One DSX telephone required for telephone programming.

Summary:

- To upgrade, Site 3 must invest in a new DSX-160 8-Slot KSU, two new DSX Power Supplies, DSX CPU Card, DSX 8x16 IntraMail, and a DSX 16ESIU PCB.
- To facilitate telephone programming, Site 3 must also add one new DSX telephone.

Upgrade Examples

Site 4: Upgrade DS2000 16x80 (T1) to DSX-160 23x96 (PRI)

Site 4 is a high-tech company that needs more telephones and wants to upgrade to PRI for cost savings. They have an existing 4 port x 8 hour IntraMail and need more capacity.

Existing DS2000 Equipment		Upgrade Requirements for DSX		
Description	Part Number	Description	Part Number	Comments
(5) DS 16DSTU PCB	80021A	Compatible - replacement not required.		Cannot be installed in DSX KSU slot 1. That slot is reserved for a DSX 16ESIU card.
(40) DS 34-Button Display Telephone	80663	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(40) DS 22-Button Display Telephone	80573	Compatible - replacement not required.		Requires DS 16DSTU PCB in any DSX KSU slot but slot 1.
(1) DS 8-Slot KSU	80001	Must be replaced.		DS KSUs are prohibited by FCC in DSX.
(3) DS Power Supply	80005C	Must be replaced.		DS power supplies are prohibited by FCC in DSX.
(1) DS CPU	80025B	Must be replaced.		The DS CPU is not compatible with DSX.
(1) DS 4x8 IntraMail	80045	Must be replaced.		DS IntraMail does not work in DSX.
(1) T1 Trunk PCB	80011B	Must be replaced.		The DS T1 Trunk PCB does not provide PRI when used in DSX.
New DSX Equipment Required		(1) DSX-160 8-Slot KSU	1090003	Only slots 1-4 will work with the DS 8-Slot KSU.
		(3) DSX Power Supply	1091008	Required in DSX. Three required due to Load Factor.
		(1) DSX CPU Card	1090010	Required in DSX.
		(1) DSX 8x16 IntraMail	1091013	IntraMail CompactFlash Card plugs into DSX CPU.
		(1) DSX T1/E1/PRI Card	1091006	Required for PRI.
		(1) DSX 16ESIU Card	1090004	<ul style="list-style-type: none"> Required in DSX. DSX 16ESIU is required in slot 1 for DSX telephones.
		(16) DSX 22-Button Button Display Telephone	1090020 (Black) or 1090025 (White)	Connect 16 DSX Telephones to the DS 16ESIU PCB in slot 1.
Summary: <ul style="list-style-type: none"> To upgrade, Site 4 must invest in a new DSX-160 8-Slot KSU, three new DSX Power Supplies, DSX CPU Card, DSX 8x16 IntraMail, a DSX T1/E1/PRI PCB, and a DSX 16ESIU PCB. In addition, Site 4 must also add 16 new DSX telephone to reach the required total of 96. For future expansion in the available slot, Site 4 can add a 16COIU Card, or another T1/E1/PRI Card. 				

DS2000 and DSX-80/160 Parts Lists

DS2000 Parts List

Station Equipment	
Description	Part Number
34-Button Super Display Telephone	80673
34-Button Display Telephone	80663
22-Button Telephone	80570
22-Button Display Telephone	80573
24-Button DSS Console	80556
110-Button DSS Console	80555
Wall Mount Kit	80579
Analog Telephones (customer provided)	

Peripheral Station Equipment	
Description	Part Number
2-OPX Module (Discontinued)	92177A

DS2000 Parts

Common Equipment	
Description	Part Number
4 Slot KSU	80000
8 Slot KSU	80001
DS2000 Power Supply	80005B or 80005C (80005C <i>required</i> for UltraMail)
Installation Cable	80892
Blank PC Card	85880
PC Card with system software preloaded (*.*.* denotes the system software level)	80052-V*.*.*.*
8-Pin DIN to Mod-8 Cable	80893
DB9 to Mod-8 Adaptor	85980
DB25 to Mod-8 Adaptor	85981
Spare KSU Hanger	80578

PCBs	
Description	Part Number
Central Processing Unit	80025 B
16DSTU Digital Station PCB	80021 A
16ASTU 16 Port Analog Station PCB	80042
8ASTU 8 Port Analog Station PCB	80041 B
4ASTU 4 Port Analog Station PCB	80040 B
4ATRU 4 Port Analog Trunk PCB (loop start)	80010 B
8ATRU 8 Port Analog Trunk PCB (loop start)	80011 B
T1 Trunk PCB	80061
For UltraMail part numbers, installation, and programming, refer to the <i>Aspire Mail and UltraMail System Guide (P/N 17710SWG**)</i> .	

Replacement Parts	
Description	Part Number
Handset and Cord Assembly	80150
Noise Cancelling Handset	80150NC
22 Button Clear Plastic Cover	80600-22
34 Button Clear Plastic Cover	80600-34
34 Button Super Display Clear Plastic Cover	80600-S34
110 Button DSS Clear Plastic Cover	80600-DSS
24 Button DSS Clear Plastic Cover	80600-24DSS
Directory Tray	92602
9' Handset Coil Cord	92297-9
13' Handset Coil Cord	92297A-13
25' Handset Coil Cord	92297-25
7' Telephone Line Cord	82476-7
14' Telephone Line Cord	82476-14
Wall Mount Handset Clip Holder	80578
DS2000 RFI Bead Kit	88901
Modem (CNET CN5614XR)	85862D
Replacement Battery for CPU PCB	EX0254-0040

Parts Lists

DSX-80/160 Parts

DSX-80/160 Parts List

Station Equipment	
Description	Part Number
22-Button Display Telephone with Speakerphone	1090020 (Black) 1090025 (White)
34-Button Backlit Display Telephone with Speakerphone	1090021 (Black) 1090026 (White)
34-Button Backlit Display Telephone with Full-Duplex Speakerphone	1090022 (Black) 1090027 (White)
34-Button Backlit Super Display Telephone with Half-Duplex Speakerphone	1090030 (Black) 1090031 (White)
60-Button DSS Console	1090024 (Black) 1090029 (White)
DTH-1-1 Single Line Telephone	780034
DTR-1-1 Single Line Telephone	780020 (Black) 780021 (White)
DTR-1HM-1 Single Line Telephone	780025 (Black) 780026 (White)
Analog Door Box	922450

DSX Cordless Lite II Telephone	
Description	Part Number
Cordless Lite II Telephone	730087
Cordless Lite II Base Unit AC Adaptor	730618
Cordless Lite II Base Unit Wall Mount Bracket	730608
Cordless Lite II Handset Charger	730632
Cordless Lite II Handset Charger AC Adaptor	730619
Cordless Lite II Wall Mount Bracket for Handset Charger	730633
Cordless Lite II Handset Battery	730631
Cordless Lite II Belt Clip	730634
Cordless Lite II M175 Headset	750637
Cordless Lite II MX150 Headset	750642

DESI Labels	
Description	Part Number
DSX Telephone Labels	
DSX 22-Button Display Telephone (White)	1093086
DSX 22-Button Display Telephone (Black)	1093085
DSX 34-Button Display Telephone (White)	1093084
DSX 34-Button Display Telephone (Black)	1093083
DSX 34-Button Super Display Telephone (White)	1093082
DSX 34-Button Super Display Telephone (Black)	1093081
DSX 60-Button DSS (White)	1093080
DSX 60-Button DSS (Black)	1093079
DTR-1-1 Telephone Labels	
Black	780400
Metallic Green	780401
Metallic Silver	780402
Lime Green	780403
Preprint (blank)	780459
DTR-1HM-1 Telephone Labels	
Black	780404
Metallic Green	780405
Metallic Silver	780406
Lime Green	780407
Preprint (blank)	780460
DTH-1-1 Telephone Labels	
Metallic Silver	780450

Parts Lists

DSX-80/160 Parts

Common Equipment	
Description	Part Number
DSX-80 4-Slot KSU	1090002
DSX-160 8-Slot KSU	1090003
DSX Power Supply	1091008
Installation Cable	80892
DSX Serial Adaptor (requires customer-provided 6-conductor line cord)	1091014

Cards	
Description	Part Number
CPU Card	1090010
16 Port Digital Station Card (16ESIU)	1091004
16 Port Analog Station Card with HV Message Waiting (16SLIU)	1091007
8 Port Analog Station Card with HV Message Waiting (8SLIU)	1091010
T1/E1/PRI Line Card	1091006
16 Port CO Line Card (16COIU)	1091005
8 Port CO Line Card (8COIU)	1091009

IntraMail	
Description	Part Number
IntraMail 8 Port x 16 Hour	1091013
IntraMail 4 Port x 8 Hour	1091011

Replacement Parts	
Description	Part Number
Handset and Cord Assembly	1091016
22 Button Clear Plastic Cover	1091018
34 Button Clear Plastic Cover	1091019
34 Button Super Display Clear Plastic Cover	1091020
60 Button DSS Clear Plastic Cover	1091021
RFI Bead Kit	88901
Replacement Battery for CPU Card	EX0254-0040

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

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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

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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

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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

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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

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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	

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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

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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

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