



Introduction

This chapter describes the command line interface (CLI) for the MGX 8950, MGX 8850, and MGX 8830 switches. For basic descriptions of how to configure a switch and various networking features, refer to the *Cisco MGX 8800/8900 Series Configuration Guide, Release 5.2*.

This introduction contains sections that introduce the following subjects:

- The role of the CLI on the switch
- The information contained in the CLI prompt
- The command syntax
- Contents of a command description
- A logical port in the context of the Private Network-to-Network (PNNI) protocol
- A logical port in the context of Cellbus service modules
- A logical port in the context of AXSM configuration
- Commands grouped by functional areas, such as node-level parameters, PNNI signaling commands, card-level redundancy commands, and so on



Note

“PXM45” refers to the PXM45/B and PXM45/C unless otherwise indicated.

In most descriptions, “PXM” refers to the PXM45 and the PXM1E.

Changes to this Document

Table 1-1 summarizes the changes made to this document since last release.

Table 1-1 *Changes to this Guide Since Last Release*

Section	Status	Description
Section 2	Modified	Modified CLI commands to support features requires command updates per release 5.2. These commands, include: cnfcdmode, addapsln, cnfapsln, clrallcnf, dsplns, dsplink, dsppnports, cnfpnni-node, cnfpnni-intf, cnfpnni-routing-policy, commitrev, loadrev, runrev, abortrev, burnboot, cnfport, dsppnni-intf, dsppnni-node, dsppnni-ptse.

Role of the CLI

During initial switch installation and troubleshooting, or where low-level control is important, the CLI provides the best access to the switch. (During normal operation, the tools for controlling a switch are the CiscoView application for equipment management and the Cisco WAN Manager application for connection management.) Each PXM or service module supports its own CLI. The Service Resource Modules and XM60 switch fabric cards are controlled by the PXM and do not have a CLI of their own.

The visible commands also depend on the following:

- Privilege level of the user. A lower level user does not see higher-level commands.
- Card state—active, standby, or init.

Each model of PXM and each service module has its own set of commands, yet many commands overlap. This reference describes commands only as they run on the PXM—even if certain commands also run on an AXSM, for example.

Although you can run a command on only the card that supports that command, the *target* of the command can be another card when you are “on” an active PXM. (Being “on” a card means you are using the CLI of that card.) On the PXM, you can use commands that target the following items:

- Entire switch
- Active or standby PXM
- XM60 (in an MGX 8950 switch)
- Service Resource Module (SRM)
- Service module



Note

To move from the CLI of one card to the CLI of another card, use the change card (**cc**) command.

Command Line Prompt

The format of the CLI prompt is:

```
name.slot number:card type.card state >
```

where:

- *name* is the name of the node (“Unknown” until you assign name a with the **cnfname** command).
- *slot number* is the slot of the front card.
- *card type* identifies the Processor Switching Module 45 (PXM45) or a service module type, such as the AXSM.
- *card state* is “i” for initialized, “a” for active, or “s” for standby. The Attributes section in each command description shows the valid card state or states for the command.
 - A card in the initialized state (i) is still loading application modules.
 - A card in the active (a) state either is fully configured and ready to carry out its function or is already performing its function with live traffic.
 - Typically, a card goes into the standby (s) state when it first powers up and boots or when you execute a command that puts it in the standby state. For example, the commands for a graceful upgrade of firmware on a pair of PXMs put the active card in the standby state and the standby card in the active state (see **loadrev** description for details).

A card in the init state has additional letters (a, s, or f) that indicate the role of the card, as follows:

- PXM.ia> means the card in the init state has the active card role
- PXM.is> means the card in the init state has the standby card role
- PXM.if> means the card is in the init state and has failed

During PXM initialization, the PXM passes through a series of readiness states, one of which is the init state. In this state, the PXM is not ready. It can run only a subset of the command set. Most commands in the init state help you determine the condition of the PXM and do not support run state operation.

Here is an example of a CLI prompt:

```
MGX8850.7.PXM45.a >
```

The preceding prompt shows the following information:

- Name of the node is “MGX8850”
- Slot number is 7
- Card type is PXM45
- Card state is active

Command Syntax

This section contains the following syntax topics:

- Notation
- Position-dependent parameters
- Keyword-driven parameters
- Logical port format
- Command entry

Notation

The notation for command and argument parameters follows:

- Commands and their parameters are separated by a space.
- Variables appear in *italics*.
- Commands, keywords, and literal strings (such as “yes”) appear in **bold**.
- Required arguments appear within left and right angle brackets (“<>”).
- Optional parameters appear within square brackets (“[]”).
- A vertical bar (|) represents the logical OR function.

Position-Dependent and Keyword-Driven Parameters

A command can include parameters that are *keyword-driven* or *position-dependent*.

For position-dependent parameters, you must type parameters in the order they appear in the syntax description or on-line help. To create a logical port, for example, the position-dependent syntax is:

addport <ifNum> <bay.line> <guaranteedRate> <maxrate> <sctID> <ifType> [vpi]

For a keyword-driven parameter, a keyword precedes the variable. The keyword is preceded by a dash and followed by the parameter (**-timeout** <secs>, for example). The order you enter keyword-driven parameters does not matter—although any preceding or succeeding, position-dependent parameters must appear as they do in the command syntax description.

The command in the following example deletes more than one connection at a time. The mandatory connection ID consists of a logical port (*ifNum*) and the VPI and VCI of the first connection to be deleted.

delcons <ifNum> <vpi> <vci> [-num <num. conns to del>] [-verbose <1 | 0 >]

After the connection ID, the entry shows two optional, keyword-driven parameters. The keyword driven parameters can be in any order but always come after the position-dependent parameters.

Command Entry

When you enter a command, you must usually type all intended arguments before you press the **Return** or **Enter**. Exceptions to this rule are rare and are indicated in the command description.

If you press **Return** or **Enter** with incorrect parameters or no parameters (yet the command requires parameters), a message displays the syntax and parameter ranges. The returned message might also suggest what the problem is. For example, the message might warn that you have too few parameters. No error messages or warnings appear until you complete the command.

Contents of a Command Description

Each command description contains:

- The long form of the command name
- A list of cards which you can use the command.
- An introduction that explains the function of the command. Where suitable—as in the case where the command is at the heart of an entire feature, for example—the description contains a substantial amount of detail.
- The syntax of the command. Occasionally, the optional, keyword-driven parameters appear in a column for easier reading.
- A syntax description. Each parameter is described. Where applicable, a range of possible values and a default value are given.

In many instances, the default value is not merely a basic starting value but actually the most desirable or widely used value.

- When the complexity of the command warrants some guidance, the description includes a “Usage Guidelines” section that contains important details about using the command.
- An “Attributes” section lists the following details:
 - Whether the switch logs each instance of command execution. Typically, the switch logs each configuration change but does not log execution of the display commands.
 - The state of the card required to execute a command. The state can be active, standby, initialized (infrequently), or any of these states.

- The privilege level of the command. A listing of the commands in CLI shows only those commands that the current user is permitted to use.
- A “Related Commands” section shows commands that are directly or indirectly related to the command in the current description.
- For those display commands with particularly long or complex outputs, a “Display Contents” section might be included. This section appears just before the “Example” section.
- An “Example” section shows one or more examples of command usage.

Identifying Physical and Logical Elements

This section describes the various formats of the physical and logical elements in the Virtual Switch Interface (VSI) master and slave contexts and how they correspond to each other. The format you use for identifying certain physical and logical elements in the CLI is different in different contexts. The contexts can be:

- The VSI master refers to the PNNI controller or the Label Switch Controller (LSC). PNNI runs on the PXM. LSC runs on the Route Processor Module (RPM). (With very rare exceptions, this manual describes only the commands that run on a PXM.)

The commands related to the VSI master control the switch, network synchronization, routing, signaling, and so on.

- The VSI slave is associated with the AXSM, MPSM, VXSM/VISM, or PXM1E network interface. (The commands on the PXM1E’s VSI master and slave are described in this manual. The commands for the service modules are described in their own manuals.)

The commands related to the VSI slave apply to lines, ports, connections, and other items on the user-to-network interface (UNI) or the network-to-network interface (NNI).

When you configure or view logical entities, you might need to identify them for PNNI on a PXM and for the logical interface on the VSI slave. For example, you can display a connection either on a service module or on a PXM45, but you identify the connection in a slightly different way on these cards, and the display in the VSI master is slightly different from the display in the VSI slave. For these reasons, you need to understand the correspondence between the formats. (See also the *Cisco MGX 8800/8900 Series Configuration Guide, Release 5.2* for more details and examples. Also, see the configuration guides of specific cards.)

After this section defines PNNI physical and logical port number and VSI slave line and port numbers, it defines the correspondence between their formats.



Note

Apart from the way PNNI and the lower levels of logic identify the same element, the issue of configuration sequence needs explanation. When you configure logical ports—for just one example—you must complete certain tasks on the service module CLI both before and after related PNNI tasks on the PXM. This manual describes prerequisites for certain commands, but you should also refer to the card-specific configuration guide for examples of task sequences.

PNNI Port Format

This section describes the PNNI *physical* port identifier and its equivalent in the form of the PNNI *logical* port identifier.

Physical Port Identifier

The PNNI controller identifies a *physical* port in one of two, similar formats. The format depends on whether the service module is broad band or narrow band. For a broad band interface—whether the interface is controlled by a PXM45 or a PXM1E—the format is as follows:

`[shelf.]slot:subslot.port:subport`

For a narrow band interface, the format is as follows:

`[shelf.]slot.port`

The PNNI physical port identifier (port ID) includes a series of mandatory elements. Note the period or colon associated with each element inside the square brackets. The full list of elements in the physical port ID are:

- The optional *shelf* is always 1 for the current product and is usually omitted.
- The *slot* number of the front card.
- *Subslot* is the number of the bay in which the back card resides. This number is 1 or 2.
- *Port* is the physical line.
- *Subport* corresponds to the logical port on an AXSM, PXM1E UNI/NNI back card. For a UNI or NNI, the subport is the same number as the logical port number (on the AXSM, for example, the parameter name is *ifNum*). For a virtual network-to-network interface (VNNI), these numbers do not directly correspond to each other.

Certain values in the PNNI physical port identifier can vary according to the PXM model and the chassis in which it resides, as follows:

- On a PXM45 for a broadband service: `slot:subslot.port:subport`
- On the PXM1E's UNI/NNI back card: `slot:subslot.port:subport`. However, for this UNI/NNI back card, the subslot is *always* 2. Further, the *slot* depends on the chassis:
 - In an MGX 8850 or MGX 8850/B chassis, *slot* is always the logical slot 7.
 - In an MGX 8830 or MGX 8830/B chassis, *slot* is always the logical slot 1.
- On a PXM45 or PXM1E for a Cellbus service module (formally called a narrow band service module or NBSM): `slot.port`.

Logical Port Identifier

For each physical port ID, PNNI also generates a *logical* port number that is an equivalent of the physical port number. The logical port number appears as an unformatted numerical string. For example, a physical port ID could be 1:1.2:2, and the logical port number would be 16848898. The pertinent PNNI command descriptions indicate when this logical port number is required and how to obtain it.

VSI Slave Port Format

A logical port on a user or network interface (and its CLI) uses the variable *ifNum*. This logical interface number is an integer. For a UNI or NNI interface, a one-to-one correspondence exists between a logical port and a physical line. For virtual interfaces, such as a VUNI, you can configure multiple logical ports on a line.

The maximum number of logical ports varies with the card type. For example, the range of logical ports (*ifNum*) is 1–60 for the AXSM and 1–32 for the AXSM-E regardless of whether the interface type is UNI, NNI, VNNI, or EVNNI. On a PXM1E, the range for *ifNum* is 1–31.

Mapping Physical Port Identifiers between PNNI and VSI Slave

The terminology used on PNNI is similar to but different enough from the VSI slave that a mapping explanation is needed. For the correspondence between a PNNI physical port and the logical interface identifier on a service module or PXM1E UNI/NNI back card, see [Table 1-2](#).

Table 1-2 Mapping PNNI Port ID to VSI Slave Elements

PNNI Physical Port ID	Service Module or PXM1E UNI/NNI Back Card
Shelf	N/A
Slot	Slot
Subslot	Bay (for upper or lower back card)
Port	Line
Subport	Logical interface (or logical port)

As [Table 1-2](#) shows, a “port” from the PNNI side is a “line” on a network interface (VSI slave), and a “subport” from the PNNI side is a logical interface (or logical port) on a network interface. An example of a PNNI physical port identifier is 1:2.1:1. This *portid* corresponds to an AXSM with the following particulars:

- Slot 1
- Bay 2
- Line 1
- Logical interface 1 (or logical port 1)

Example of Differences in PNNI and Network Interface Formats

The series of command lines in this section illustrates the different formats pointing to the same logical entity. The entity in this example is a connection and, with two different formats, it is uniquely identified by a port, virtual path identifier (VPI), and virtual connection identifier (VCI). The difference is in how you identify the port on the PXM and how you identify that exact same port on the service module.

The first line shows the syntax for identifying the connection from the perspective of the VSI master—PNNI. The port ID has the PNNI format for a physical port ID: *slot:subslot.port:subport*. The VPI and VCI follow the port ID. The next CLI entry is the command for changing to the CLI running on the AXSM in slot 6. This command is **change card (cc)**. The last entry is the CLI entry for displaying a connection from the VSI slave—the user-to-network (UNI) interface on the AXSM.

1. M8850_NY.7.PXM.a > **dspon** *portid vpi vci*
 where *portid* = *slot:subslot.port:subport*
 An example port could be 6:1.1:1.
2. M8850_NY.7.PXM.a > **cc** 6
3. M8850_NY.6.AXSM.a > **dspon** *ifNum vpi vci*

In this case, the interface number is 1. (On an AXSM/B, the range for *ifNum* is 1–60.) Assuming the VPI is 100 and the VCI is 100, and this AXSM line has only one logical port, the following equivalency can be seen for the card in slot 6:

6:1.1.1 100 100 (on the PXM) = 1 100 100 (on the AXSM in slot 6)

Command Lists by Functional Group

Table 1-3 includes all a summary list of commands within this guide, arranged by functional group. Some commands appear in more than one functional group because they can be viewed as multi-functional.

The functional groupings, by name, are somewhat self-explanatory, in terms of the scope for each grouping. Click on any of the following links to jump to the beginning of each grouping, and commands are listed alphabetically (per grouping). To learn more about any listed command, click on the linked command within the table.

- [Card Management](#)
- [Connection Management](#)
- [Feeder Management](#)
- [IMA Group Management](#)
- [Line Management](#)
- [PNNI Routing Management](#)
- [Port Management](#)
- [Resource Partition Management](#)
- [SCT Management](#)
- [Session Management](#)
- [Shelf Management](#)
- [Software Management](#)

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands

Group	Command	Description
Card Management		
Card Management	abortofflinediag	Abort offline diagnostics
Card Management	addred	Add redundancy
Card Management	addserialif	Add serial interface
Card Management	bootchange	Boot address change (specifies the boot IP address and gateway address of a PXM)
Card Management	clrdiagerr	Clear diagnostic error
Card Management	clrdiagstat	Clear diagnostic statistics
Card Management	clrsmcnf	Clear service module configuration
Card Management	clrsrcmf	Clear Service Resource Module (SRM) configuration

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Card Management	clrxbaralm	Clears the alarms for either a specific switch plane or for all switch planes on the switching card
Card Management	clrxbarerrcnt	Clears the errors for either a specific switch plane or all switch planes on the active switching card
Card Management	cnfcdmode	Configure card mode
Card Management	cnfcdstat	Configure card statistics
Card Management	cnfdiag	Configure diagnostics
Card Management	cnfdiagall	Configure diagnostics all
Card Management	cnfescreset	Configure escape reset
Card Management	cnflic	Configure license
Card Management	cnfrmrsrc	Configure resource monitoring
Card Management	cnfserialif	Configure serial interface
Card Management	cnfxbaradmin	Configure crossbar administration
Card Management	cnfxbarerrthresh	Configure crossbar error threshold
Card Management	cnfxbarmgmt	Configure crossbar management
Card Management	cnfxbarpathenable	Configure crossbar path enable
Card Management	commithw	Commit hardware
Card Management	core	Core memory dump
Card Management	del	Delete (file)
Card Management	delred	Delete redundancy
Card Management	diagdebug	Diagnostic debug
Card Management	dspcd	Display card
Card Management	dspcdalms	Display card alarms
Card Management	dspcderrs	Display card errors
Card Management	dspcdhealth	Display card health
Card Management	dspcds	Display cards
Card Management	dspcdstatcnf	Display card statistics configuration
Card Management	dspcdstatus	Display card status
Card Management	dspdevalms	Display device alarms
Card Management	dspdiagcnf	Display diagnostics configuration
Card Management	dspdiagerr	Display diagnostics error
Card Management	dspdiagresult	Display diagnostics result
Card Management	dspdiagstat	Display diagnostics statistics
Card Management	dspdiagstatus	Display diagnostics status
Card Management	dspdiagtests	Display diagnostic tests

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Card Management	dspdisk	Display disk partitions
Card Management	dspetherif	Display Ethernet interface
Card Management	dsphotstandby	Display hot standby
Card Management	dsphwalms	Display hardware alarms
Card Management	dsplicalm	Display license alarms
Card Management	dspliccd	Display card license
Card Management	dspliccds	Display card licenses
Card Management	dsplicnodeid	Display license node ID
Card Management	dsplics	Display licenses
Card Management	dspmempart	Display memory partition
Card Management	dsppostresults	Display power on self-test results
Card Management	dspprfhist	Display profiler history
Card Management	dsprcon	Display redundant connector
Card Management	dsprcons	Display redundant connectors
Card Management	dspred	Display redundancy
Card Management	dsprmalms	Display resource monitoring alarms
Card Management	dsprmrsrc	Display a monitored resource
Card Management	dsprmrsrcs	Display monitored resources
Card Management	dspserialif	Display serial interface
Card Management	dspxbar	Display crossbar
Card Management	dspxbarerrthresh	Display crossbar error threshold
Card Management	dspxbarmgmt	Display crossbar management
Card Management	dspxbarplanealms	Display crossbar plane alarms
Card Management	dspxbarslotbwalms	Display crossbar slot bandwidth alarms
Card Management	dspxbarstatus	Display Crossbar status
Card Management	dumptrace	Dump trace
Card Management	dumpversions	Dump versions
Card Management	forcecdnative	Force card native
Card Management	memshow	Show memory map
Card Management	resetcd	Reset card
Card Management	resetevtlogsem	Reset event log semaphore
Card Management	stackdump	Stack dump
Card Management	switchcc	Switch core card
Card Management	switchredcd	Switch redundant card
Card Management	verifydiskdb	Verify disk database
Connection Management		

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Connection Management	actaudit	Active audit
Connection Management	addcon	Add connection
Connection Management	addparty	Adds a party (or endpoint) to a point-to-multipoint (P2MP) connection
Connection Management	clrchanent	Clears ATM cell counters for a channel (or connection)
Connection Management	clrchanents	Clears statistics counters on all channels (or connections) that terminate on the PXM1E network interface
Connection Management	clrcontracebuffer	Clears the trace buffer for an individual connection trace
Connection Management	clrcontracebuffers	Clears all connection traces from the trace buffer
Connection Management	clrpathtracebuffer	Clears the path trace buffer for an individual connection
Connection Management	clrpathtracebuffers	Clears the path trace buffer for every connection on the switch
Connection Management	clrpncn	Clear PNNI connection
Connection Management	clrportent	Clears counter values on a specific logical port from the VSI slave side
Connection Management	clrportconstats	Clear nodal connection statistics
Connection Management	clrpribumpstats	Clears the record of <i>bumping</i> connections and <i>bumped</i> connections
Connection Management	clrspvcnonpers	Clear SPVC nonpersistent endpoint
Connection Management	cnfabr	Configure available bit rate (ABR VS/VD)
Connection Management	cnfabrtparamdft	Configure default ABR traffic parameters
Connection Management	cnfainihopcount	Configure ATM inter-switch signalling (AINI) hop count
Connection Management	cnfaisdelaytimer	Configures the number of seconds that the node waits to send alarm indication signal (AIS) and A-bit toward CPE during user-scheduled SPVC/SPVP route optimization
Connection Management	cnfcdvtdft	Configure cell delay variation tolerance (CDVT) default
Connection Management	cnfcon	Configure connection
Connection Management	cnfe164justify	Configure E164 justification
Connection Management	cnfndconnpribump	Configure connection priority bumping
Connection Management	cnfndidrtes	Change node ID for all preferred routes
Connection Management	cnfpref	Modify a preferred route

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Connection Management	cnfpri-routing	Prioritize the order of derouting and rerouting connections
Connection Management	cnfrtparm	Configure reroute parameters
Connection Management	cnfrteopt	Configure route optimization
Connection Management	cnfrteoptthresh	Configure route optimization threshold
Connection Management	cnfspvcprfx	Configure SPVC prefix
Connection Management	cnfspvcres	Configure SPVC Reserve
Connection Management	cnfsvcoverride	Configure SVC override
Connection Management	cnfrftolerance	Configure traffic conformance tolerance
Connection Management	contrace	Trace connection
Connection Management	copycons	Copy channels
Connection Management	dbgcon	Debug connection
Connection Management	delcon	Delete connection
Connection Management	delcons	Delete connections
Connection Management	delparty	Delete party
Connection Management	delpref	Delete preferred route
Connection Management	dncon	Down connection
Connection Management	dnparty	Down party
Connection Management	dspabrtparamdft	Display ABR traffic parameter defaults
Connection Management	dspactaudit	Display active audit
Connection Management	dspainihopcount	Display AINI hop count
Connection Management	dspaisdelaytimer	Display AIS delay timer
Connection Management	dspchan	Display channel
Connection Management	dspchanct	Display channel counters
Connection Management	dspchans	Display channels
Connection Management	dspchantests	Display channel tests
Connection Management	dspcon	Display connection
Connection Management	dspconalmts	Display connection alarm counts
Connection Management	dspconalms	Display connection alarms
Connection Management	dspconinfo	Display connection information
Connection Management	dspconload	Display connection load
Connection Management	dspcontracebuffer	Display connection trace buffer
Connection Management	dspcontracebuffers	Display connection trace buffers
Connection Management	dspcons	Display connections
Connection Management	dspcons-dbg	Display connections-debug
Connection Management	dspconsegep	Display connection segment endpoint

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Connection Management	dspcurrte	Display the current route statistics
Connection Management	dspcurrtestats	Display the current route statistics
Connection Management	dspndconnpribump	Display the nodal connection priority bumping
Connection Management	dspndconnpribumpstats	Display nodal connection priority bumping statistics
Connection Management	dspparties	Display parties
Connection Management	dsppartiespercon	Display parties per connection
Connection Management	dspparty	Display party
Connection Management	dspportconstats	Display nodal connection statistics
Connection Management	dsppref	Display preferred route
Connection Management	dspprefs	Display preferred routes
Connection Management	dsppribumpstats	Display priority bumping statistics
Connection Management	dsppri-routing	Display priority routing
Connection Management	dspvcif	Display permanent virtual connection (PVC) interface
Connection Management	dsprrtparm	Display global reroute retry parameters
Connection Management	dsprteoptcnf	Display route optimization configuration
Connection Management	dsprteoptstat	Display route optimization status
Connection Management	dpspvcprefix	Display SPVC prefix
Connection Management	dpsvcif	Display SVC interface
Connection Management	dpsvcoverride	Display SVC override
Connection Management	dpsvcparm	Display SVC nodal parameter
Connection Management	dsprftolerance	Display traffic conformance tolerance
Connection Management	optrte	Optimize route
Connection Management	pvcifconfig	PVC interface configuration
Connection Management	rrtcon	Re-route connection
Connection Management	rrtparty	Re-route party
Connection Management	svcifconfig	Configure switched virtual circuit (SVC) interface
Connection Management	tstconseg	Test continuity segment
Connection Management	tstdelay	Test delay
Connection Management	upcon	Up connection
Connection Management	upparty	Up party
Feeder Management		
Feeder Management	clrfdrstat	Clears the LMI and node statistics for the feeder on a logical port
Feeder Management	dspfdrstat	Display feeder statistics

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Feeder Management	dsptopofdrlist	Display topology feeder list
IMA Group Management		
IMA Group Management	addimagrp	Create a new group for inverse multiplexing over ATM
IMA Group Management	addimalnk	Adds an inverse multiplexing for ATM link (IMA) to an IMA group
IMA Group Management	addimaport	Creates a new inverse multiplexing for ATM virtual interface
IMA Group Management	clrimadelay	Clears the accumulated delay for an IMA group
IMA Group Management	clrimagrpalment	Clears the alarm counters for a specific IMA group
IMA Group Management	clrimagrpalmcnts	Clears the alarm counters for all configured IMA groups
IMA Group Management	clrimagrpcnt	Clears all performance and statistics counters of an IMA group
IMA Group Management	clrimalnkcnt	Clears all IMA link performance and statistics counters on the specified DS1 (link)
IMA Group Management	clrimalnkcnts	Clears the link counters for all IMA links
IMA Group Management	cnfatmimagrp	Configure ATM IMA group
IMA Group Management	cnfautorestart	Configure auto-restart
IMA Group Management	cnfimagrp	Configure IMA group
IMA Group Management	cnfimalnk	Configure IMA link
IMA Group Management	cnfimalnktst	Configure IMA link test
IMA Group Management	cnfimaparms	Configure IMA parameters
IMA Group Management	delimagrp	Delete IMA group
IMA Group Management	delimalnk	Delete IMA link
IMA Group Management	dnimagrp	Down IMA group
IMA Group Management	dspatmimagrp	Display ATM IMA group
IMA Group Management	dspautorestart	Display auto-restart
IMA Group Management	dspimagrp	Display IMA group
IMA Group Management	dspimagrpalm	Display IMA group alarm
IMA Group Management	dspimagrpalmcnt	Display IMA group alarm counters
IMA Group Management	dspimagrpalmcnts	Display IMA group alarms
IMA Group Management	dspimagrpbucketcnt	Display IMA group bucket count
IMA Group Management	dspimagrpalcnt	Display IMA group counters
IMA Group Management	dspimagrps	Display IMA groups
IMA Group Management	dspimalnk	Display IMA link

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
IMA Group Management	dspimalnkalm	Display IMA link alarm
IMA Group Management	dspimalnkalms	Display IMA link alarms
IMA Group Management	dspimalnkbucketent	Display IMA link bucket count.
IMA Group Management	dspimalnkent	Display IMA link counters
IMA Group Management	dspimalnks	Display IMA links
IMA Group Management	dspimaparms	Display IMA parameters
IMA Group Management	rstrtimagrp	Restart IMA group
IMA Group Management	startimalnktst	Start IMA link test
IMA Group Management	stopimalnktst	Stop IMA link test
IMA Group Management	upimagrp	Up IMA group
Line Management		
Line Management	addapsln	Add APS line
Line Management	addlink	Links T1 or E1 tributaries within a T3 or OC3/STM1 stream
Line Management	addlnloop	Specifies a loopback state for a line on the UNI/NNI back card
Line Management	addlback	Starts a loopback on a service module that does not have a native loopback capability
Line Management	clradjlnalmcnt	Clear adjacent card alarm count
Line Management	clralmcnt	Clears all alarm counters and statistics on the specified line on the current card
Line Management	clrbeent	Clear bit-error count (APS-related)
Line Management	clrlnent	Clears line counters
Line Management	cnfalm	Configures statistical alarm thresholds for a line
Line Management	cnfapsln	Configure APS line
Line Management	cnfatmln	Configure ATM line
Line Management	cnfbert	Configure bit error rate testing (BERT)
Line Management	cnflink	Configure link
Line Management	cnfln	Configure line
Line Management	cnfuplinkbert	Configure uplink bit error rate test
Line Management	delapsln	Delete APS line
Line Management	delbert	Delete bit error rate test
Line Management	dellink	Delete link
Line Management	dellnloop	Delete line loop
Line Management	dellpback	Delete loopback
Line Management	delslotlink	Delete slot link

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Line Management	deltopolink	Delete topology link
Line Management	dnln	Down line
Line Management	dspadjlnalm	Display adjacent line alarms
Line Management	dspadjlnalmcnt	Display adjacent line alarm counters
Line Management	dspalm	Display alarm
Line Management	dspalmcnf	Display alarm configuration
Line Management	dspalmcnf	Display alarm counters
Line Management	dspalms	Display alarms
Line Management	dspapsbkplane	Display APS backplane
Line Management	dspapsln	Display APS line
Line Management	dspapslns	Display APS lines
Line Management	dspatmln	Display ATM line
Line Management	dspbecnt	Display bit-error count (APS-related)
Line Management	dspbert	Display bit error rate test
Line Management	dspbertcap	Display BERT capabilities
Line Management	dspegrbucketcnt	Display egress bucket counters
Line Management	dspringbucketcnt	Display ingress bucket counters
Line Management	dsplink	Display links on a line
Line Management	dsplinkalm	Display link alarm
Line Management	dspln	Display line
Line Management	dsplncnt	Display line counters
Line Management	dsplnload	Display line load
Line Management	dsplnpmbucketcnt	Display line performance bucket Counters
Line Management	dsplns	Display lines
Line Management	dspslotlink	Display slot links on a line
Line Management	dspuplinkbert	Display uplink bit error rate test
Line Management	dspuplinkbertstats	Display Uplink BERT statistics
Line Management	enableaxsmbaps	Enable AXSM/B for APS
Line Management	insbiterror	Insert bit error
Line Management	startuplinkbert	Start uplink bit error rate testing
Line Management	stopuplinkbert	Stop uplink bit error rate testing
Line Management	switchapsln	Switch APS line
Line Management	upln	Up line
PNNI Routing Management		
PNNI Routing Management	addcug	Add an ATM address (or prefix) to a closed user group

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
PNNI Routing Management	addnwnode	Adds a node to the <i>network node table</i>
PNNI Routing Management	addpnni-node	Add PNNI node
PNNI Routing Management	addpnni-summary-addr	Add PNNI summary address
PNNI Routing Management	addpref	Create a preferred route
PNNI Routing Management	aesa_ping	Ping ATM end station address
PNNI Routing Management	clrcugdefaddr	Removes the designation of <i>default address prefix</i> from a PNNI port
PNNI Routing Management	clrpnndetailcause	Clears the count per cause code for each PNNI software module
PNNI Routing Management	cnfaddrug	Configures attributes for an existing CUG <i>member</i> (a CUG member is an ATM address)
PNNI Routing Management	cnfcug	Configure closed user group
PNNI Routing Management	cnfndcurrte	Enable or disable the current route on a node
PNNI Routing Management	cnfndrteopt	Configure nodal route optimization
PNNI Routing Management	cnfnodalcongh	Configure nodal congestion thresholds
PNNI Routing Management	cnfnodecug	Configure node CUG
PNNI Routing Management	cnfpncpucong	Configure PNNI CPU congestion
PNNI Routing Management	cnfpnni-election	Configure PNNI election
PNNI Routing Management	cnfpnni-intf	Configure PNNI interface
PNNI Routing Management	cnfpnni-link-selection	Configure PNNI link selection
PNNI Routing Management	cnfpnni-mtu	Configure PNNI maximum transmission unit (MTU)
PNNI Routing Management	cnfpnni-node	Configure PNNI node
PNNI Routing Management	cnfpnni-pkttrace	Configure PNNI packet trace
PNNI Routing Management	cnfpnni-routing-policy	Configure PNNI routing policy
PNNI Routing Management	cnfpnni-scope-map	Configure PNNI scope map
PNNI Routing Management	cnfpnni-svcc-rcc-param	Configure PNNI for SVCC RCC connections
PNNI Routing Management	cnfpnni-svcc-rcc-timer	Configure PNNI SVCC-based routing control connection (RCC) timer
PNNI Routing Management	cnfpnni-timer	Configure PNNI timer
PNNI Routing Management	cnfpnstat	Configure PNNI statistics
PNNI Routing Management	cnfpref	Modify a preferred route
PNNI Routing Management	cnfpri-routing	Configure priority routing
PNNI Routing Management	cnftopogw	Configure topology gateway
PNNI Routing Management	dbgpnni	Debug PNNI

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
PNNI Routing Management	delcug	Delete closed user group
PNNI Routing Management	delnwnode	Delete network node
PNNI Routing Management	delpnni-node	Delete PNNI node
PNNI Routing Management	delpnni-summary-addr	Delete PNNI summary address
PNNI Routing Management	deltopond	Delete node from persistent topology database
PNNI Routing Management	dspaddrcug	Display address CUG
PNNI Routing Management	dspcug	Display closed user group
PNNI Routing Management	dspcugdefaddr	Display CUG default address
PNNI Routing Management	dspndcurrte	Display the state of the current route feature on the node
PNNI Routing Management	dspndrteopt	Display nodal route optimization
PNNI Routing Management	dspnodalcongcntr	Display nodal congestion threshold counters
PNNI Routing Management	dspnodalcongflags	Display nodal congestion flags
PNNI Routing Management	dspnodalcongth	Display nodal congestion thresholds
PNNI Routing Management	dspnodecug	Display node CUG
PNNI Routing Management	dspnwnode	Display network node
PNNI Routing Management	dspnwnodes	Display network nodes
PNNI Routing Management	dspoptrtereq	Display optimization route requests
PNNI Routing Management	dsppnallgrpaddr	Display all group addresses
PNNI Routing Management	dsppncpucong	Display PNNI CPU congestion
PNNI Routing Management	dsppndelay	Display PNNI delay test
PNNI Routing Management	dsppndelays	Display PNNI delay tests
PNNI Routing Management	dsppndetailcause	Display PNNI detail cause
PNNI Routing Management	dsppngrpmbros	Display group members
PNNI Routing Management	dsppnni-bn-path	Display PNNI border node path
PNNI Routing Management	dsppnni-bypass	Display PNNI bypass
PNNI Routing Management	dsppnni-dbg	Display PNNI debug
PNNI Routing Management	dsppnni-election	Display PNNI election
PNNI Routing Management	dsppnni-idb	Display PNNI information database
PNNI Routing Management	dsppnni-inducing-uplink	Display PNNI inducing uplink
PNNI Routing Management	dsppnni-intf	Display PNNI interface
PNNI Routing Management	dsppnni-link	Display PNNI link
PNNI Routing Management	dsppnni-link-selection	Display PNNI link selection
PNNI Routing Management	dsppnni-mtu	Display PNNI MTU
PNNI Routing Management	dsppnni-neighbor	Display PNNI neighbor

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
PNNI Routing Management	dspnni-node	Display PNNI node
PNNI Routing Management	dspnni-node-count	Display PNNI node count
PNNI Routing Management	dspnni-node-list	Display PNNI node list
PNNI Routing Management	dspnni-path	Display PNNI path
PNNI Routing Management	dspnni-pktrace	Display PNNI packet trace
PNNI Routing Management	dspnni-ptse	Display PNNI topology state element
PNNI Routing Management	dspnni-reachable-addr	Display PNNI reachable address
PNNI Routing Management	dspnni-routing-policy	Display PNNI routing policy
PNNI Routing Management	dspnni-scope-map	Display PNNI scope map
PNNI Routing Management	dspnni-spoke	Display PNNI default spoke
PNNI Routing Management	dspnni-summary-addr	Display PNNI summary address
PNNI Routing Management	dspnni-svcc-rcc	Display PNNI SVCC-based routing control connection (RCC)
PNNI Routing Management	dspnni-svcc-rcc-param	Display PNNI switched virtual connection routing control channel parameters
PNNI Routing Management	dspnni-svcc-rcc-timer	Display PNNI SVCC-based RCC timer
PNNI Routing Management	dspnni-timer	Display PNNI timer
PNNI Routing Management	dspnportie	Display PNNI port information element
PNNI Routing Management	dspnportptribumprsrc	Display PNNI port priority bumping resources
PNNI Routing Management	dspnsysaddr	Display PNNI system address
PNNI Routing Management	dspnri-routing	Display priority routing
PNNI Routing Management	dspspvcrs	Display SPVC Reserve
PNNI Routing Management	setcugdefaddr	Set closed user group default address
Port Management		
Port Management	addaddr	Add an ATM address to a PNNI port
Port Management	addfltset	Add ATM filter set
Port Management	addnport	Add a UNI or NNI port
Port Management	addprfx	Add ATM address prefix to a PNNI port
Port Management	clrnodalconstats	Clear port connection statistics
Port Management	clrpnconstats	Clear PNNI port connection statistics
Port Management	clrportent	Clears counter values on a specific logical port from the VSI slave side
Port Management	clrsscopstats	Clear SSCOP statistics
Port Management	cnfbert	Configure bit error rate testing
Port Management	cnfcdvtdft	Configure cell delay variation tolerance (CDVT) default

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Port Management	cnfconsegep	Configure connection segment endpoint
Port Management	cnfenhiisp	Configure enhanced interim inter-switch signalling (IISP)
Port Management	cnffltset	Configure filter set
Port Management	cnfintfcongth	Configure interface congestion threshold
Port Management	cnfintfvsvd	Configure interface for virtual source/virtual destination (VS/VD)
Port Management	cnfmbsdft	Configure maximum burst size (MBS) default
Port Management	cnfoamsegep	Configure operations, administration, and management (OAM) segment endpoint
Port Management	cnfpnctlvc	Configure PNNI virtual control channel
Port Management	cnfpnportacc	Configure PNNI port access
Port Management	cnfpnportcac	Configure connection admission control (CAC) for a port
Port Management	cnfpnportcc	Configure call control parameters for a port
Port Management	cnfpnportie	Configure PNNI port information element
Port Management	cnfpnportloscallrel	Configure PNNI port loss of signal (LOS) call release
Port Management	cnfpnportncci	Configure port network call correlation identifier
Port Management	cnfpnportrange	Configure PNNI port range
Port Management	cnfpnportsig	Configure PNNI port signaling
Port Management	deladdr	Delete address
Port Management	deladds	Delete ATM addresses
Port Management	delbert	Delete bit error rate test
Port Management	delconsegep	Remove a segment endpoint from a connection
Port Management	delfltset	Delete filter set
Port Management	delpnport	Delete PNNI port
Port Management	delpnportacc	Delete PNNI port access
Port Management	delport	Delete port
Port Management	dnpnport	Down PNNI port
Port Management	dnport	Down port
Port Management	dspaddr	Display ATM address
Port Management	dspatmaddr	Display ATM address

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Port Management	dspbert	Display bit error rate test
Port Management	dspbertcap	Display BERT capabilities
Port Management	dspcdvtdft	Display CDVT default
Port Management	dspfltset	Display filter set
Port Management	dspintfcongntr	Display interface congestion counters
Port Management	dspintfcongflgs	Display interface congestion flags
Port Management	dspintfcongth	Display interface congestion thresholds
Port Management	dspmbsdft	Display maximum burst size (MBS) default
Port Management	dspnodalconstats	Display port connection statistics
Port Management	dsपोामसेगप	Display OAM segment endpoint
Port Management	dsppathtracebuffer	Display path trace buffer
Port Management	dsppathtracebuffers	Display path trace buffers
Port Management	dsppathtraceie	Display path trace information element
Port Management	dsppathtracenode	Display path trace node
Port Management	dsppathtraceport	Display path trace port
Port Management	dspncon	Display PNNI connection
Port Management	dspncons	Display PNNI connections
Port Management	dspnconstats	Display PNNI connection statistics
Port Management	dspnctlvc	Display PNNI control VC
Port Management	dspnport	Display PNNI port
Port Management	dspnportcac	Display PNNI port CAC
Port Management	dspnportcc	Display PNNI port call control (CC)
Port Management	dspnportidmaps	Display PNNI port ID maps
Port Management	dspnportloscallrel	Display PNNI port LOS call release
Port Management	dspnportncci	Display trunk maintenance values
Port Management	dspnportncci	Display PNNI port network call correlation identifier
Port Management	dspnportrange	Display PNNI port range
Port Management	dspnportsrc	Display PNNI port resource
Port Management	dspnports	Display PNNI ports
Port Management	dspnsysaddr	Display PNNI port resource
Port Management	dspport	Display port
Port Management	dspportcnt	Display port counters
Port Management	dspportload	Display port load
Port Management	dspprfx	Display ATM address prefix for a PNNI port

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Port Management	dspspcaddr	Display SPVC address
Port Management	ipifconfig	Insert bit error
Port Management	pathtraceie	Path trace information element (IE)
Port Management	pathtracenode	Path trace node
Port Management	pathtraceport	Path trace port
Port Management	tstpndelay	Test PNNI delay
Port Management	uppnport	Up PNNI port
Port Management	upport	Up port
Resource Partition Management		
Resource Partition Management	addcontroller	Identify a network control protocol to a switch
Resource Partition Management	addpart	Partitions the bandwidth and other resources on a logical port
Resource Partition Management	addrscprtn	Partitions the bandwidth and other resources on a logical port
Resource Partition Management	cnfpart	Configure resource partition
Resource Partition Management	cnfrscprtn	Configure resource partition
Resource Partition Management	delcontroller	Delete controller
Resource Partition Management	delpart	Delete resource partition
Resource Partition Management	delrscprtn	Delete resource partition
Resource Partition Management	dspcontrollers	Display controllers
Resource Partition Management	dspload	Display load
Resource Partition Management	dsppart	Display partition
Resource Partition Management	dspparts	Display partitions
Resource Partition Management	dsprscprtn	Display resource partition
Resource Partition Management	dsprscprtns	Display resource partitions
SCT Management		
SCT Management	addport	Add a port (runs on PXM1E; it also adds a service class template)
SCT Management	addset	Add SCT
SCT Management	cnfport	Configure port (runs on PXM1E and has an SCT component)
SCT Management	cnfsct	Configure SCT
SCT Management	delsct	Delete SCT
SCT Management	dspportset	Display port SCT (PXM1E)
SCT Management	dpsct	Display SCT (PXM1E)
SCT Management	dpsctchksum	Display SCT (PXM1E) checksums
SCT Management	dpscts	Display SCTs

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Session Management		
Session Management	? (Help)	(help)
Session Management	bye	Bye
Session Management	cc	Change card
Session Management	cd	Change directory
Session Management	clidbxlevel	Set CLI debug level
Session Management	clrscrn	Clear screen
Session Management	cnfcli	Configure CLI
Session Management	cnfcmdabbr	Configure command abbreviation
Session Management	copy	Copy
Session Management	cp	Copy
Session Management	delsesn	Delete a user session
Session Management	dspcli	Display CLI
Session Management	dspcmdabbr	Display command abbreviation setting
Session Management	dspeng	Display engineering command visibility
Session Management	dspfile	Display file
Session Management	dspusers	Display users
Session Management	exit	Exit
Session Management	help	Help
Session Management	history	List command history
Session Management	ll	List long
Session Management	logout	Logout
Session Management	ls	List
Session Management	mv	Move
Session Management	ping	Ping
Session Management	pwd	Present working directory
Session Management	rename	Rename a file
Session Management	sesntimeout	Session timeout (same as timeout)
Session Management	seteng	Set engineering troubleshooting command visibility
Session Management	smclrscrn	Service module clear screen (and enable for NBSMs only)
Session Management	ssh	Secure shell
Session Management	telnet	Telnet
Session Management	timeout	Timeout (same as sesntimeout)
Session Management	users	List active user sessions
Session Management	who	List active user sessions

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Session Management	whoami	Display username and privilege level of the current user session
Session Management	zip	Zip (utility)
Session Management	dspsesn	Display session
Shelf Management		
Shelf Management	abortallsaves	Abort all saves
Shelf Management	addsntprrmtsvr	Add simple network time protocol (SNTP) remote server
Shelf Management	addtrapmgr	Add trap manager
Shelf Management	adduser	Add user
Shelf Management	clrallcnf	Clear all configurations
Shelf Management	clrcnf	Clear configuration
Shelf Management	clrerr	Clear error
Shelf Management	clrerrhist	Clear error history
Shelf Management	clrlog	Clear log
Shelf Management	clrloginmsg	Clear login message
Shelf Management	clrqosdefault	Clear quality of service (QOS) defaults
Shelf Management	clrntpstats	Clear SNTP statistics
Shelf Management	cnfaaa-authen	Configure AAA authentication
Shelf Management	cnfaaa-author	Configure AAA authorization
Shelf Management	cnfaaa-ftpssh	Configure AAA FTP and SSH signaling
Shelf Management	cnfaaa-ignore-ios	Configure AAA ignore IOS
Shelf Management	cnfaaa-priv	Configure AAA privilege
Shelf Management	cnfaaa-prompt	Configure AAA prompt
Shelf Management	cnfaaa-server	Specifies a server for Cisco's Terminal Access Controller Access Control System Plus (TACACS+)
Shelf Management	cnfcbclk	Configure cellbus clock
Shelf Management	cnfclkparms	Configure clock parameters
Shelf Management	cnfclksrc	Configure clock source
Shelf Management	cnfdate	Configure date
Shelf Management	cnfetherif	Configure Ethernet interface
Shelf Management	cnfloginmsg	Configure login message
Shelf Management	cnfname	Configure name
Shelf Management	cnfncdp	Configure NCDP
Shelf Management	cnfncdpclksrc	Configure network clock distribution protocol (NCDP) clock source
Shelf Management	cnfncdpport	Configure NCDP port

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Shelf Management	cnfndparms (PXM1E)	Configure node parameters
Shelf Management	cnfndparms (PXM45)	Configure node parameters
Shelf Management	cnfnodalfd	Configure nodal frame discard
Shelf Management	cnfpasswd	Configure password
Shelf Management	cnfpasswdreset	Configure password reset
Shelf Management	cnfpasswdreset	Configure password reset
Shelf Management	cnfpasswdreset	Configure password reset
Shelf Management	cnfqosdefault	Configure QOS default
Shelf Management	cnfsigdiag	Configure signaling diagnostic
Shelf Management	cnfsnmp	Configure SNMP
Shelf Management	cnfsntp	Configure SNTP
Shelf Management	cnfsntprrmtsvr	Configure SNTP remote server
Shelf Management	cnfsrcmclsrc	Configure Service Resource Module (SRM) clock source
Shelf Management	cnfstatsmgr	Configure statistics manager
Shelf Management	cnftime	Configure time
Shelf Management	cnftmzn	Configure time zone
Shelf Management	cnftmzngmt	Configure time zone management
Shelf Management	cnftrapip	Configure trap IP address
Shelf Management	cnfuser	Configure user
Shelf Management	dbgsntp	Debug SNTP
Shelf Management	dclk	Display clock (as measured by system clock test)
Shelf Management	delaaa-server	Delete AAA server
Shelf Management	delallusers	Delete all users
Shelf Management	delclsrc	Delete clock source
Shelf Management	delncdpclsrc	Delete NCDP clock source
Shelf Management	delsigdiag	Delete signaling diagnostic
Shelf Management	delsntprrmtsvr	Delete SNTP remote server
Shelf Management	deltrapmgr	Delete trap manager
Shelf Management	deluser	Delete user
Shelf Management	dspaaa	Display AAA
Shelf Management	dspaaa-servers	Display AAA servers
Shelf Management	dspaaa-stats	Display AAA statistics
Shelf Management	dspaaa-tac-trace	Display AAA TACACS+ trace
Shelf Management	dsbpkpl	Display backplane
Shelf Management	dspcbclk	Display cellbus clock

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Shelf Management	dspchassis	Display chassis
Shelf Management	dspckalms	Display alarms related to network synchronization
Shelf Management	dspckparms	Display clock parameters
Shelf Management	dspcksrcs	Display clock sources
Shelf Management	dspcurclk	Display current clock
Shelf Management	dspdate	Display date
Shelf Management	dspdeverr (PXM1E)	Display device errors
Shelf Management	dspdeverr (PXM45)	Display device errors
Shelf Management	dspdeverrhist (PXM1E)	Display device error history
Shelf Management	dspdeverrhist (PXM45)	Display device error history
Shelf Management	dspenalms	Display environmental alarms
Shelf Management	dsperr	Display error
Shelf Management	dsperrhist	Display error history
Shelf Management	dspipconntask	Display IP connectivity task
Shelf Management	dspipif	Display IP interface
Shelf Management	dspipifcache	Display IP interface cache translation
Shelf Management	dsplog	Display log
Shelf Management	dsploginmsg	Display login message
Shelf Management	dsplogs	Display logs
Shelf Management	dspncdp	Display NCDP
Shelf Management	dspncdpclksrc	Display NCDP clock source
Shelf Management	dspncdpclksrcs	Display NCDP clock sources
Shelf Management	dspncdpport	Display NCDP port
Shelf Management	dspncdpports	Display NCDP ports
Shelf Management	dspndalms	Display node alarms
Shelf Management	dspndparms	Display node parameters
Shelf Management	dspndstatus	Display node status
Shelf Management	dspnodalfd	Display nodal frame discard
Shelf Management	dspingatmaddr	Display ping ATM address
Shelf Management	dsppswareset	Display password reset
Shelf Management	dspqosdefault	Display quality of service default
Shelf Management	dsprminfo	Display resource monitoring information
Shelf Management	dspsnmp	Display SNMP strings
Shelf Management	dspsntp	Display SNTP
Shelf Management	dspsntp-dbg	Display SNTP debug configuration

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Shelf Management	dpsntprrmtsvr	Display SNTP remote server
Shelf Management	dpsntpstats	Display SNTP statistics
Shelf Management	dpsrmclksrc	Display SRM clock source
Shelf Management	dpsrmenf	Display SRM configuration
Shelf Management	dspstatsmgr	Display statistics manager
Shelf Management	dspstbyclksrcs	Display standby clock sources
Shelf Management	dpswalms	Display switch alarms
Shelf Management	dspstech	Display technical details
Shelf Management	dsptopogw	Display topology gateway
Shelf Management	dsptopogwndlist	Display topology gateway node list
Shelf Management	dsptopolinklist	Display topology link list
Shelf Management	dsptrapip	Display trap IP address
Shelf Management	dsptrapmgr	Display trap manager
Shelf Management	dumpconfigs	Dump configurations
Shelf Management	ipifconfig	Configure IP interface
Shelf Management	resetsys	Reset system
Shelf Management	restoreallcnf	Restore all configurations
Shelf Management	routeShow	Show route
Shelf Management	routestatShow	Show routing statistics
Shelf Management	saveallcnf	Save all configurations
Shelf Management	setaa-tac-trace	Set Authentication, Authorization, and Accounting (AAA): TACACS+ Trace
Shelf Management	setipconndebug	Set IP connection debug
Shelf Management	show inventory	Show inventory
Signaling Management		
Signaling Management	clrilmicnt	Clear ILMI counters
Signaling Management	clrsigstats	Clear signal statistics
Signaling Management	clrsscopstats	Clear SSCOP statistics
Signaling Management	cnfaddrreg	Configure address registration
Signaling Management	cnfautocnf	Configure auto configuration
Signaling Management	cnfenhiisp	Configure enhanced IISP
Signaling Management	cnfilmi	Configure ILMI
Signaling Management	cnfilmienable	Configure ILMI enable
Signaling Management	cnfilmiproto	Configure ILMI protocol
Signaling Management	cnfnpportncci	Configure port network call correlation identifier
Signaling Management	cnfnpportsig	Configure PNNI port signaling

Table 1-3 Cisco MGX 8800/8900 Series Command Reference Commands (continued)

Group	Command	Description
Signaling Management	cnfsig	Configure signaling
Signaling Management	cnfsscop	Configure SSCOP
Signaling Management	dbgilmi	Debug ILMI
Signaling Management	delprfx	Delete prefix
Signaling Management	delsigdiag	Delete signaling diagnostics
Signaling Management	disables scop	Disable SSCOP
Signaling Management	dnilmi	Down ILMI
Signaling Management	dspenhiisp	Display enhanced IISP
Signaling Management	dspilmi	Display ILMI configuration
Signaling Management	dspilmiaddr	Display ILMI address
Signaling Management	dspilmicnt	Display ILMI counters
Signaling Management	dspilmis	Display all configured ILMIs
Signaling Management	dspnilmi	Display PNNI ILMI
Signaling Management	dspnportsig	Display PNNI port signaling
Signaling Management	dspprfx	Display prefix
Signaling Management	dspsig	Display signaling
Signaling Management	dspsigdiag	Display signaling diagnostic parameters and records
Signaling Management	dspsigstats	Display signaling statistics
Signaling Management	dspsscop	Display SSCOP
Signaling Management	dspsscopstats	Display SSCOP statistics
Signaling Management	upilmi	Up ILMI
Software Management		
Software Management	abortrev	Abort revision
Software Management	burnboot	Burn boot software
Software Management	commitrev	Commit revision
Software Management	downloadflash	Download flash
Software Management	dsprevs	Display revisions
Software Management	dsprevs	Display revisions
Software Management	dspversion	Display version
Software Management	loadrev	Load revision
Software Management	runrev	Run revision
Software Management	setrev	Set revision