Cisco MGX 8220 Command Reference

Release 5.0
FCS, 03/31/99

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• Move the equipment farther away from the television or radio.

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About This Manual

Welcome to the command line interface documentation for Cisco MGX™ 8220 edge concentrator Release 5.0.

This chapter discusses:

- Objectives
- Audience
- Cisco WAN Switching Product Name Change
- Organization
- Related Documentation
- Conventions

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Objectives

This publication provides instructions for using the MGX 8220 commands in the command line interface.

Audience

The Cisco command line interface lets you control the network from a level somewhat below that provided by Cisco WAN Manager. This document helps network designers and operators to set up, manage, and troubleshoot networks.

Cisco WAN Switching Product Name Change

The Cisco WAN Switching products have new names. The BPX switch is now called the Cisco BPX® 8620 wide-area switch. The AXIS shelf is now called the Cisco MGX™ 8220 edge concentrator. Any switch in the IGX switch family (IGX 8, IGX 16 and IGX 32 wide-area switches) is now called the Cisco IGX™ 8400 series-wide area switch. The IGX 8 switch is now called the Cisco IGX™ 8410 wide-area switch. The IGX 16 switch is now called the Cisco IGX™ 8420 wide-area switch, and the IGX 32 switch is now called the Cisco IGX™ 8430 wide-area switch. Cisco StrataView Plus is now called the Cisco WAN Manager or CWM.

Organization

The body of this publication is:

Chapter 1 **MGX 8220 Command Line Interface**

Provides a list of commands for the common equipment cards and the service modules.

Related Documentation

The following Cisco publications contain additional information related to the operation of the Cisco WAN switching network:

- Release 9.2 of the *Cisco WAN Manager Operations Guide*; which provides procedures for using the Cisco WAN Manager (formerly StrataView Plus) network management system.
- Release 9.2 of the Cisco WAN Switching documentation set including:
  - *Cisco BPX 8600 Series Installation and Configuration*; providing a general description and installation instructions for the Cisco BPX 8600 series broadband switches.
  - *Cisco BPX 8600 Series Reference*; providing a general description and technical details of the Cisco BPX 8600 series broadband switches.
  - *Cisco IGX 8400 Series Installation and Configuration*; providing a general description and installation instructions for the multi-band Cisco IGX 8400 series switches.
  - *Cisco IGX 8400 Series Reference*; providing a general description and technical details of the multi-band Cisco IGX 8400 series switches.
  - *Cisco MGX 8220 Installation and Configuration*; providing a general description and technical details of the Cisco MGX 8220 edge concentrator.
  - *Cisco WAN Switching Command Reference*; providing detailed information on the command line interfaces used in operating a Cisco WAN switching network.
  - *Cisco WAN Switching SuperUser Command Reference*; providing detailed information on the SuperUser command line interfaces used in operating a Cisco WAN switching network.

Conventions

This publication uses the following conventions to convey instructions and information.

Command descriptions use these conventions:

- Commands and keywords are in **boldface**.
- Arguments for which you supply values are in *italics*.
- Elements in square brackets ([ ]) are optional.
- Alternative but required keywords are grouped in braces ({ }) and are separated by vertical bars (|).

Examples use these conventions:

- Terminal sessions and information the system displays are in `screen` font.
- Information you enter is in **`boldface screen`** font.
- Nonprinting characters, such as passwords, are in angle brackets (< >).
- Default responses to system prompts are in square brackets ([ ]).

Note Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in this manual.

Caution Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

MGX 8220 Command Line Interface

The preferred tool for configuring, monitoring, and controlling an MGX 8220 shelf is the Cisco WAN Manager (formerly StrataView Plus). However, the command line interface provides access to features that exist on the MGX 8220 shelf but are not yet accessible through Cisco WAN Manager. Also, when alarm conditions or other unwanted situations occur, the command line interface provides a lower level of access to the cards that Cisco WAN Manager does not provide.

The MGX 8220 commands in the table that follows are divided by major functional group. The table shows the complete name of the command, the cards from which the command can be invoked, and the page number of the command description. For more elaborate or supplemental information on the service module or ATM commands, refer to the sections in this manual that describe the service module and ATM commands. Also, the *Cisco WAN Switching System Overview* provides conceptual information on the Cisco implementation of frame relay and ATM.

The command line prompt shows the name of the shelf, the number of the shelf (which is always "1"), the slot number and type of the current card, and whether the card is in the active or standby state ("a" or "s"). The following is an example of the command line prompt:

```
kanchend.1.6.AUSM.a >
```

In this case, the current card is an active-state AUSM card in slot 6, and the name of the shelf in "kanchend."

The command notation and argument parameters follow standard programming convention: a space separates the command and each parameter; required arguments are enclosed in "<>" marks; and optional parameters are enclosed in square brackets ("[ ]"). A vertical bar (|) represents the OR function.

Note When commands are entered with no parameters, a usage message appears, which shows syntax and valid ranges.

Table 1-1 shows the list of commands for the common equipment cards which are entered by logging into the ASC card. Table 1-1 shows the list of commands for the service modules which are entered by logging into the appropriate service module card.

Note Many commands are common to both the common equipment cards and the service modules.

Table 1-1 ASC Commands

Command	Description
Shelf Group	
addtrapmgr	Add Trap Manager
clrcderrs	Clear Card Errors in BRAM
deltrapmgr	Delete Trap Manager
dspcderrs	Display Card Errors in BRAM
resetcd	Reset Card
dspcd	Display Card
dspcds	Display Cards
switchcc	Switch Core Cards
cnftrapmgr	Configure/Add/Delete Trap Managers
dsptrapmgrs	Display Trap Managers
dsptrapmgr	Display Trap Manager
clrbnmcnt	Clear BNM Cell Counter
dspbnmcnt	Display BNM Cell Counter
dspintvl	Display BNM–155 Interval
cnfbnmif	Configure BNM–155 Interface
dspbnmif	Display BNM–155 Interface
cnfclksrc	Configure Network Clock Source
dspclksrc	Display Current Clock Source
clrmsgcnt	Clear Control Message Counter
dspmsgcnt	Display Control Message Counter
dspsmcnf	Display Service Module Configuration
version	Version (displays version data for a card)
User Group	
adduser	Add User
cc	Change Card
clrscrn	Clear Terminal Screen
clrlog	Clear Event/Message Log
cnfpwd	Configure Password
deluser	Delete User
dsplog	Display Event/Message Log
dspusers	Display Users
Help	Help (list of commands per card)
users	Users
Node Group	
cnfname	Configure Shelf Name
cnfdate	Configure Date
cnftime	Configure Time

Command	Description
cnftmzn	Configure Time Zone
cnftmzngmt	Configure Time Zone to GMT
cnfifip	Configure Interface IP Address
dspifip	Display LAN interface IP
addred	Add Redundancy
delred	Delete Redundancy
dspred	Display Redundancy
Alarm Group	
clralm	Clear Alarms on the Card
dspalm	Display Alarms for a Line
dspalms	Display All Alarms on Card
dspalmcnf	Display Alarm Threshold Configuration
clralmcnt	Clear Alarm Counters/Statistics
dspalmcnt	Display Alarm Counters/Statistics (line)
dspshelfalm	Display Shelf Alarms
Line Group	
addln	Add Line (T1, E1, or T3)
delln	Delete Line
dspln	Display Line Configuration
dsplns	Display All Lines on Card
dspsrmlns	Display All Lines on Card
Channel Group	
clrsarcnt	Clear SAR Counters
dspsarcnt	Display SAR Counters
SRM–3T3 Group	
addlink	Add an SRM–3T3 T3 link to a T1slot and line
clrsrmcnf	Clear SRM–3T3 configuration
cnfsrmclksrc	Configure SRM–3T3 clock source
dellink	Delete an SRM–3T3 T3 link to a T1slot and line
delslotlnk	Delete a link from a T1 slot
dsplink	Display an SRM–3T3 T3 link to a T1slot and line
dspslotlnk	Display a link in a T1 slot
dspsrmclksrc	Display SRM–3T3 clock source
BERT Group	
cnfbert	Configure bit error rate test (BERT)
delbert	Delete bit error rate test (BERT)
dspbert	Display bit error rate test (BERT)
modbert	Modify bit error rate test (BERT)
startbert	Start bit error rate test (BERT)

Table 1-2 Service Module Command List

Command	Description	FRSM	AUSM	CESM	IM–ATM	FRASM
Shelf Group						
clrcderrs	Clear Card Errors in BRAM	X	X		X	
clrsmcnf	Clear Service Module Configuration					
dspcderrs	Display Card Errors in BRAM	X	X		X	
resetcd	Reset Card					
dspcd	Display Card	X	X	X	X	
cnfclksrc	Configure Network Clock Source		X		X	
dspclksrc	Display Current Clock Source		X		X	
clrmsgcnt	Clear Control Message Counter	X	X	X	X	
dspmsgcnt	Display Control Message Counter	X	X	X	X	
dspsmcnf	Display Service Module Configuration					
softswitch	Switch Service Module to Redundant					
switchback	Switch Service Module From Secondary to Primary					
version	Version (displays version data for a card)	X	X	X	X	
User Group						
cc	Change Card	X	X	X	X	
clrscrn	Clear Terminal Screen	X	X	X		
Help	Help (list of commands per card)	X	X	X	X	
dspmaptbl	Display Map Table	X	X			
Alarm Group						
clralm	Clear Alarms on a specified line on the Card	X	X	X	X	
clralms	Clear All Alarms on the Card	X	X	X	X	
dspalm	Display Alarms for a Line	X	X	X	X	
dspalms	Display All Alarms on Card	X	X	X	X	
dspalmcnf	Display Alarm Threshold Configuration	X	X	X	X	
clralmcnt	Clear Alarm Counters/Statistics	X	X	X	X	
dspalmcnt	Display Alarm Counters/Statistics (line)	X	X	X	X	
Line Group						
addln	Add Line (T1, E1, or T3)	X	X	X	X	
cnfln	Configure Line	X	X	X	X	
delln	Delete Line	X	X	X	X	
dspln	Display Line Configuration	X	X	X	X	
dsplns	Display All Lines on Card	X	X	X	X	
addlnloop	Add Line Loop		X	X	X	
dellnloop	Delete Line Loop		X	X	X	

Command	Description	FRSM	AUSM	CESM	IM–ATM	FRASM
Port Group						
addport	Add Port	X				X
cnfport	Configure FR Port(s)	X	X			
cnfportq	Configure AUSM port queue		X			
copyports	Copy Port Configuration	X	X			
delport	Delete FRSM or AUSM Port	X				
delports	Delete Port Configurations	X	X			
dspport	Display Port Configuration	X	X			
dspports	Display All Ports	X	X			
dspportstats	Display Port Statistics	X				
clrportcnt	Clear Port Counters	X	X			
clrportcnts	Clear Port Counters	X	X			
dspportcnt	Display FR Port Counters	X	X			
upport	Up Port		X			
dnport	Down Port		X			
dspportq	Display Port Queue		X		X	
dspportqs	Display Port Queues		X			
cnfilmi	Configure ILMI		X			
dspilmi	Display ILMI		X			
dspilmicnt	Display ILMI Counters		X			
Channel Group						
addchan	Add Channel	X		X		X
addchanloop	Add a Channel Loopback	X	X	X		
clrsarcnt	Clear SAR Counters	X	X	X		
copychans	Copy Channel Configurations	X	X			
delchan	Delete Channel(s)	X		X		
delchanloop	Delete a Channel Loopback	X	X	X		
delchans	Delete Channels	X	X			
dspchan	Display Channel Configuration	X		X		
dspchans	Display All Channels	X		X		
dspchancnt	Display Channel Counters	X	X	X	X	
dspchstats	Display Channel Statistics	X				
dspsarcnt	Display SAR Counters	X	X	X		
clrchancnt	Clear Channel Counter for FRSM or AUSM Channels	X	X	X	X	
clrchancnts	Clear Channel Counter for all FR Channels	X	X	X		
cnfchanpol	Configure Channel Policing	X				
cnfchanfst	Configure Channel ForeSight	X	X			
cnfchanq	Configure Channel Queue		X			

Command	Description	FRSM	AUSM	CESM	IM–ATM	FRASM
Connection Group						
addcon	Add Connection		X			
delcon	Delete Connection		X			
dspcon	Display Connection		X			
dspcons	Display Connections		X			
dsploads	Display Loads		X			
cnfupcabr	Configure ABR		X			
cnfupccbr	Configure CBR		X			
cnfupcvbr	Configure VBR		X			
tstcon	Test Connection	X	X	X		
tstconseg	Test Connection Segment		X			
tstdelay	Test Delay	X	X	X		
IMATM Group						
addaimgrp	Add AIM Group				X	
addlns2aimgrp	Add Lines to AIM Group				X	
clraimgrpcnt	Clear AIM Group Count				X	
cnfaimgrp	Configure AIM Group				X	
delaimgrp	Delete AIM Group				X	
dellnsfmaimgrp	Delete Lines from AIM Group				X	
dspaimgrp	Display AIM Group				X	
dspaimgrpcnt	Display AIM Group Count				X	
dspaimgrps	Display AIM Groups				X	
dspds3ln	Display DS3 Line				X	
dspds3lns	Display DS3 Lines				X	
FRASM Group						
addbstungroup	Add BTUN Group					X
addbstunport	Add BSTUN port					X
addbstunroute	Add BSTUN Route					X
addls	Add Link Station					X
addstungroup	Add STUN Group					X
addstunport	Add STUN Port					X
addstunroute	Add STUN Route					X
addfrasbnnroute	Add FRAS BNN Route					X
clrbscportcnt	Clear BSC Port Count					X
clrbsccucount	Clear BSC CU Count					X
clrllcportcnt	Clear LLC Port Count					X
clrlscoumt	Clear LS Count					X
clrsdlcportcnt	Clear SDLC Port Count					X
cnfbscport	Configure BSC STUN Port					X

Command	Description	FRSM	AUSM	CESM	IM–ATM	FRASM
cnfbscportmisc	Configure BSC STUN Port Misc					X
cnfllcport	Configure LLC Port					X
cnfllcportflow	Configure LLC port flow					X
cnfllcportmisc	Configure LLC port misc					X
cnfllcporttime	Configure LLC port time					X
cnfls	Configure Link Station					X
cnflsmisc	Configure Link Station misc.					X
cnflsxid	Configure Link Station XID					X
cnfsdlcport	Configure SDLC Port					X
cnfsdlcmisc	Configure SDLC port misc					X
cnfsdlcopts	Configure SDLC port options					X
cnfsdlcpoll	Configure SDLC port polling					X
delfrasbnnroute	Delete FRAS BNN Route					X
delbstungroup	Delete BSTUN Group					X
delbsunport	Delete BSTUN Port					X
delbstunroute	Delete BSTUN Route					X
dells	Delete Link Station					X
delstungroup	Delete STUN Groups					X
delstunport	Delete STUN Port					X
delstunroute	Delete STUN Route					X
dspbscport	Display BSC Port					X
dspbscports	Display BSC Ports					X
dspbscportcnt	Display BSC Port Count					X
dspbsccucount	Display BSC CU Count					X
dspbstungroup	Display BSTUN Group					X
dspbstungroups	Display BSTUN Groups					X
dspbstunport	Display BSTUN Port					X
dspbstunports	Display BSTUn Ports					X
dspbstunroute	Display BSTUN Route					X
dspbstunroutes	Display BSTUN Routes					X
dspfrasbnnroute	Display FRAS BNN Route					X
dspfrasbnnroutes	Display FRAS BNN Routes					X
dspllcport	Display LLC Port					X
dspllcports	Display LLC Ports					X
dspllcportcnt	Display LLC Port Count					X
dspls	Display Link Station					X
dsplss	Display Link Stations					X
dsplscount	Display Link Station Count					X
dspsdlcport	Display SCLC Port					X

Command	Description	FRSM	AUSM	CESM	IM–ATM	FRASM
dspsdlcports	Display SDLC Ports					X
dspsdlcportcount	Display SDLC Port Count					X
dspstungroup	Display STUN Group					X
dspstungroups	Display STUN Groups					X
dspstunroute	Display STUN Route					X
dspstunport	Display STUN Port					X
dspstunports	Display BSTUN Ports					X
dspstunroutes	Display STUN Routes					X

addaimgrp

This command adds an AIMUX group.

Full Name

Add AIM group

Syntax

addaimgrp <aimux_grp> <list_of_lines>

<aimux_grp>	AIMUX group number to be added (1..8)
<list of lines>	list of physical lines to be included in “aimux_grp” separated by dots

For example: **addaimgrp** “2 3.4.5” (Adds AIMUX group 2 with lines 3, 4, and 5)

Related Commands

delaimgrp, **cnfaimgrps**, **dspaimgrp**, **dspaimgrps**

Cards on which the command executes

IM–ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

Note There should not be any ATM UNI ports established with the same “port_n” since ATM ports and AIMUX groups both share the same set of port numbers.

---

addbstungroup

This command creates a BSTUN group. There is no corresponding **cnfbstungroup** command.

For more information about using BSTUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add BSTUN Protocol Group

Syntax

addbstungroup <group_num><localAck> :

<group_num>	number by which the group is to be known in the range 1–255
<localAck>	number in the range 1–2 where: 1=True, 2=False

Related Commands

delbstungroup, **dspbstungroup**, **dspbstungroups**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
addbstungroup 2 1
```

Description

Creates a BSTUN Protocol Group number 2 and localAck is true.

addbstunport

This command creates associates a BSTUN port with a BSTUN group number.

For more information about using BSTUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add BSTUN Port

Syntax

addbstunport <port_num><group_num> :

<port_num>	port number in the range 1–192 for T1, 1–248 for E1
<group>	group number to which the port is to be assigned in the range 1–255

Related Commands

delbstunport, **dspbstunport**, **dspbstunports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
addbstunport 2 1
```

Description

Associates BSTUN port 2 with BSTUN group 1.

addbstunroute

This command creates a BSTUN route for a BSTUN connection in the BSTUN Route Table. There is no corresponding **cnfbstunroute** command. This command establishes a relationship between the frame relay channel number and the IBM device control unit for the BSTUN connection.

For more information about using BSTUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add BSTUN Route

Syntax

addbstunroute <port_num><cuaddress><chan_num><lsap> :

<port_num>	port number of the BSTUN connection to be routed in the range 1–192 for T1, 1–248 for E1
<cuaddress>	address of the BSC Control Unit in the range 1–255
<chan_num>	channel number of the BSTUN connection to be routed in the range 16–1015
<lsap>	number in the range 0–255

Related Commands

delbstunroute, **dspbstunroute**, **dspbstunroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
addbstunroute 69 3 69 5 1
```

Description

Creates a BSTUN route for port 69, chan 69 with an control unit address of 3, an lsap of 5 and with local Ack enabled.

addchan

Add a channel to the current FRSM, CESM, or FRASM.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Add channel

Syntax for FRSM, FRASM

addchan <chan_num> <port_num> <dlci_num> <cir> <chan_type>

where:

<chan_num>	channel number is in the range 16–271 for a four port card, 16–1015 for an eight port card
<port_num>	port number is in the range 1–96 for four port T1, 1–124 for four port E1, 1–192 for eight port T1, 1–248 for eight port E1
<dlci_num>	DLCI is in the range 0–1023
<cir>	committed information rate: 0–1536000 bps for T1; 0–2048000 bps for E1. The default value is 2400 bits per second. The committed information rate has to be set to less than or equal to the port speed.
<chan_type> (FRSM only)	channel type has a range of 1–5, and their meaning is: 1=NIW, 2=SIW–transparent, 3=SIW–translation, 4=FUNI, 5=frame forwarding

Possible errors are:

- illegal/invalid parameters
- channel already exists
- port not enabled

Syntax for CESM

addchan <chan_num> <port_num> <ces> <CAS_sig_type> <partial_fill><cond_data><cond_signalling>

where:

<chan_num>	channel number is in the range 16–23 for a four port card, 32–279 for an eight port card
<port_num>	port number is in the range 1–4 for a four port card, 1–8 for an eight port card
<ces>	ces is in the range 0–1023

<CAS_sig_type>	CAS signalling type has a range of 1–5, and their meaning is: 1=NIW, 2=SIW–transparent, 3=SIW–translation, 4=FUNI, 5=frame forwarding
<partial_fill>	specifies the number of bytes to partially fill a cell for different lines. The value for partial fill is in the range 0–47. A partial fill value of 0 (or 47) means fully filled cells. The lower limit for structured T1 is 25. The value for partial fill of structured T1cells is in the range 25–47. The lower limit for structured E1 is 20. The value for partial fill of structured E1cells is in the range 20–47. The lower limit for unstructured T1/E1 is 33. The value for partial fill of unstructured T1/E1cells is in the range 33–47.
<cond_data>	Conditional data is sent on the line when there is an underflow and also towards the network when forming dummy cells. For UDT, *cond_data* is always 255. For SDT, the range is 0–255.
<cond_signalling>	Conditional signalling is sent on the line when there is an underflow and also towards the network when forming dummy cells. The *cond_signalling* range is 0–15.

Related Commands

delchan, **dspchan**, **dspchans**

Cards on which the command executes

FRSM, CESM, FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

addchanloop

Add a channel loopback to the current FRSM, AUSM or CESM. Causes the channel to loop at the SAR (segmentation and reassembly) stage.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Add a channel loopback

Syntax

addchanloop <chan_num>

where:

<chan_num>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

delchanloop, **tstcon**, **tstdelay**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: Yes State: Active Privilege: 1–4

addcon

Add a connection to the current AUSM.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Add connection

Syntax

addcon <channel number> <connection type> <port number> <vpi> <vci> <service type>

where:

<channel number>	channel number has a range of 16–271 for four port cards, 16–1015 for eight port cards
<connection type>	connection type is either 0 for VCC or non-zero for Local VP ID of the VPC (1 to 20(UNI)/100(STI)/340(NNI))
<port number>	port number is in the range 1–4 for a four port card, 1–8 for an eight port card
<vpi>	VPI (Virtual Path Identifier) has a value in the range 0–255
<vci>	VCI (Virtual Channel Identifier) has a value in the range 0–65535 for VCC, * for VPC
<service type>	service type can be a number in the range 1 through 4, where: 1 = CBR, 2 = VBR, 3 = ABR, and 4 = UBR

Related Commands

delcon, **dspcons**, **dspcon**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
addcon 16 2 1 1 1 3
```

Description

Add a UNI VPC connection to channel 16 on port 1 with vpi=1, vci=1, ABR service type

addfrasbnnroute

This command creates a FRAS BNN route for a FRAS BNN connection in the FRAS BNN Route Table.

For more information about using FRAS BNN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add FRAS BNN Route

Syntax

addfrasbnnroute <port_num><lsaddress><chan_num><lsap><rsap> :

<port_num>	port number of the FRAS BNN connection to be routed in the range 1–192 for T1, 1–248 for E1
<lsaddress>	address of the SDLC LS in the range 0x01–0xFE
<chan_num>	channel number of the BSTUN connection to be routed in the range 16–1015
<lsap>	number in the range 0x01–0xFF (even numbers only)
<rsap>	number in the range 0x01–0xFF (even numbers only)

Related Commands

delfrasbnnroute, **cnffrasbnnroute**, **dspfrasbnnroute**, **dspfrasbnnroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
addfrasbnnroute 69 3 69 5 1
```

Description

Creates a FRAS BNN Route for port 69, with an cuaddress of 3, an lsap of 5 and an rsap of 1.

addimagrp

This command adds an AIMUX group

Full Name

Add IMA group

Syntax

addimagrp <group_num> <port_type> <list_of_links>

<ima_num>	IMA group number to be added (1..8)
<port_type>	Port type to be added (1–UNI, 2–NN1)
<list of links>	list of links to be included in “IMA_grp” separated by dots

For example: **addimagrp** “2 1 3.4.5” (Adds IMA group 2 as a UNI port with lines 3, 4, and 5)

Related Commands

dspimagrp, dspimagrpcnt, dspimagrps, dspimainfo, dspimalncnt

Cards on which the command executes

IM–ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

addlink

The **addlink** command adds a link between a T1 line within a T3 line on a SRM–3T3 card and a slot and line number on a T1 service module.

Full Name

Add link

Syntax

addlink <T3 line number> <T1 line number> <Number of T1s> <Target Slot number> <Slot line number>

where:

<T3 Line number>	SRM–3T3 T3 line number (range 1–3)
<T1 line number>	start T1 line number within the T3 line (range 1–28)
<Number of T1s>	number of T1s to be linked (range 1–4 or 1–8)
<Target slot number>	T1 service module slot number to be linked. Range is 5 through 14.
<Slot line number>	T1 line number in the slot to be linked (range 1–4 or 1–8) depending upon the ports in the service module

Related Commands

dsplink, **dellink**

Cards on which the command executes

SRM–3T3

Attributes

Log: No State: Active Privilege: 1

addlmiloop

This command puts LMI in loopback state for the current card. In order for the MGX 8220 to operate in stand-alone mode, Annex-G ATM LMI must be disabled in order to suppress ATM LMI-related connection alarms. Use this command to add the loopback that disables Annex-G ATM LMI.

Full Name

Add LMI loop

Syntax

addlmiloop

Related Commands

dellmiloop, dsplmiloop

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 0

Example

```
shelf.1.3.ASC.a > addlmiloop
```

addln

The **addln** command adds a T1, E1, or T3 line to the current card.

Full Name

Add line

On FRSM, AUSM, SRM–3T3, CESM, IM–ATM, and FRASM:

Syntax

addln <line number>

where:

<line number>	range is 1–3 for SRM–3T3, for service modules the range is 1–4 or 1–8, depending upon the number of ports in the service module

Related Commands

cnfln, **delln**, **dspln**

Cards on which the command executes

FRSM, AUSM, SRM–3T3, CESM, IM–ATM, FRASM

Attributes

Log: No State: Active Privilege: 1

Example

```
addln 1
```

Description

Add a line numbered 1 to the current card (AUSM, FRSM, CESM, IM–ATM, FRASM, or SRM–3T3)

On FRSM HS1, and FRSM HS2:

Syntax

addln <line number> <line type> <line rate>

where:

<line number>	value from 1–2 used for HSSI, 1–4 used for X.21
<line type>	value from 1–2 where 1: DCE 2: DTE
<line rate>	value from 48k – 52Mbps. The default is 48kbps.

Syntax

addln <line number> <loop type> <loop code>

where:

<line number>	value from 1–2 used for HSSI, 1–4 used for X.21
<loop type>	value from 1–4 where 1: Front–card 2: Metallic 3: Remote 4: No Loop
<line rate>	value from 1–3 where 1: LoopA/B (HSSI) 2: Local loop (X.21) 3: Unloop

Related Commands

delln, **dspln**

Cards on which the command executes

FRSM HS1, FRSM HS2

Attributes

Log: No State: Active Privilege: 1

Example

```
addln 1
```

Description

Add a line numbered 1 to the current card (AUSM, FRSM, CESM, IM–ATM, FRASM, or SRM–3T3)

addlnloop

This command puts a T1 or E1 line in a loopback state for the current card.

Full Name

Add line loop

Syntax

addlnloop <line number>

where:

<line number>	value from 1–8 used for AUSM–8T/8E1 and IMATM

Related Commands

dellnloop

Cards on which the command executes

AUSM, FRSM, CESM, IM–ATM

Attributes

Log: Yes State: Active Privilege: 1

addlns2aimgrp

This command adds lines to an existing AIMUX group.

Full Name

Add lines to an AIM group

Syntax

addlns2aimgrp <aimux_grp> <list_of_lines>

<aimux_grp>	AIMUX group to which lines should be added (1..8)
<list_of_lines>	list of lines in the AIMUX group separated by dots

Example: **addlns2aimgrp** “2 1.2” (Adds lines 1 and 2 to an existing AIMUX group number “2”)

Related Commands

dellnsfmaimgrp

Cards on which the command executes

IM–ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

addls

This command creates an SDLC LS (Link Station).

For more information about using FRAS BNN and STUN commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add SDLC LS Station

Syntax

addls <port_num> <lsaddress> <xid> :

<port_num>	port number in the range 1–192 for T1, 1–248 for E1 [eight port] or 1–96 for T1, 1–124 for E1 [four port]
<lsaddress>	Link Station address in the range 0x01–0xFE (0xFF for STUN)
<xid>	4–byte Hex number that is to be exchanged for this station in the range 0000–FFFFFFFF

Related Commands

dells, **cnfls**, **dsplsn**, **dsplss**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example 1

```
addls 2 2
```

Description

Creates an SDLC Link Station on port 2 with an Link Station address of 2.

addport

The **addport** command adds a service port to the shelf's configuration.

The screen does not display a message after successful command entry.

Full Name

Add a port

Syntax for FRSM cards

addport <port_num> <line_num> <ds0_speed> <begin_slot> <num_slot> <port_type>

where:

<port_num>	numbers in the range 1–96 are valid for FRSM–4T1, 1–124 are valid for FRSM–4E1, 1–192 are valid for FRSM–8T1 and 1–248 for FRSM–8E1
<line_num>	value ranging from 1 to 4 (1 to 8 for FRSM8)
<ds0_speed>	1 for 56K, 2 for 64K
<begin_slot>	beginning timeslot number in the T1 or E1 frame
<num_slot>	number of consecutive timeslots in the T1 or E1 frame
<port_type>	is either 1, 2, or 3: 1 = frame relay, 2 = FUNI, 3=frame forwarding

Syntax for CESM–8T1E1 cards

addport *<port_num> <line_num> <ds0_speed> <begin_slot> <num_slot> <port_type>*

where:

port_num	numbers in the range 1–96 are valid for CESM–4T1, 1–124 are valid for CESM–4E1, 1–192 are valid for CESM–8T1 and 1–248 for CESM–8E1
line_num	value ranging from 1 to 4 (1 to 8 for CESM8)
begin_slot	beginning timeslot number in the T1 or E1 frame
num_slot	number of consecutive timeslots in the T1 or E1 frame
port_type	is either 1, 2, or 3: 1 = structured, 2 = unstructured, 3=framing on VC disconnect

Syntax for FRASM cards

addport <port_num> <line_num> <line_speed> <begin_slot> <port_type> <port_role> <encoding> <interface>

where:

<port_num>	port number in the range 1–192 for T1, 1–248 for E1
<line_num>	value ranging from 1 to 8
<ds0_speed>	1 for 2.4K, 2 for 4.8K, 3 for 9.6K, 4 for 56K, 5 for 64Kbps
<begin_slot>	timeslot number in the T1 frame
<port_type>	either 1, 2, or 3: 1 = STUN, 2 = FRAS, 3=BSTUN
<port_role>	either 1, 2, 3, or 4: 1 = Primary, 2 = Secondary, 3 = Negotiable, 4 = XIDPrimPoll.
<SDLC encoding>	1 or 2: 1 = NRZ, 2 = NRZI
<SDLC interface>	1 or 2: 1 = DS0, 2 = DS0A

Related Commands

addportlpbk, **cnfport**, **delport**, **dspport**, **dspports**

Cards on which the command executes

FRSM, CESM, FRASM

Attributes

Log: Yes State: Active Privilege: 1

addred

This command links two MGX 8220 slots (a primary slot and a secondary slot) so that like cards in these slots are treated as a redundant pair of cards. Redundancy can be 1:1 or 1:N, if 1:N, one secondary slot must be linked to N primary slots through multiple execution of this command.

Full Name

Add Redundancy

Syntax

addred <PrimarySlotNum> <SecondarySlotNum> <RedType>

where:

<PrimarySlotNum>	slot number of the slot containing the primary card of the card pair. Range = 5–14
<SecondarySlotNum>	slot number of the slot containing the secondary card of the card pair. Range = 5–14
<RedType>	type of redundancy. 1 = 1:1, 2 = 1:N

Related Commands

dspred, **delred**

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

addstungroup

This command creates a STUN protocol group. There is no corresponding **cnfstungroup** command.

For more information about using STUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add STUN Protocol Group

Syntax

addstungroup <group_num> <type> :

<group_num>	number by which the group is to be known in the range 1–255
<type>	type of group in the range 1–2 where: 1=SDLC, 2=SDLCTG

Related Commands

delstungroup, **dspstungroup**, **dspstungroups**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
addstungroup 2 2
```

Description

Creates a Stun Protocol Group number 2 of type SDLC and enabled.

addstunport

This command creates associates a STUN port with a STUN group number.

For more information about using STUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add STUN Port

Syntax

addstunport <port_num><group_num> :

<port_num>	port number in the range 1–192 for T1, 1–248 for E1
<group>	group number to which the port is to be assigned in the range 1–255

Related Commands

delstunport, **dspstunport**, **dspstunports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
addstunport 2 1
```

Description

Associates STUN port 2 with STUN group 1.

addstunroute

This command creates a STUN route for a STUN connection in the STUN Route Table. There is no corresponding **cnfstunroute** command.

For more information about using STUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Add STUN Route

Syntax

addstunroute <port_num><lsaddress><chan_num><lsap> :

<port_num>	port number of the STUN connection to be routed in the range 1–192 for T1, 1–248 for E1
<lsaddress>	address of the SDLC LS in the range 0x01–0xFF
<chan_num>	channel number of the STUN connection to be routed in the range 16–1015
<lsap>	number in the range 0x01–0xFF

Related Commands

delstunroute, **dspstunroute**, **dspstunroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
addstunroute 69 3 69 5
```

Description

Creates a Stun Route for port 69, chan 69 with an lsaddress of 3, an lsap of 5.

addtrapmgr

This command adds an SNMP trap manager for use with stand-alone applications. A trap manager registered (added) and reregistered through the SNMP interface by Cisco WAN Manager is deregistered (deleted) after 30 minutes if it is not reregistered. Trap managers which are added using the addtrapmgr command will not age, and will not be deleted after 30 minutes.

Full Name

Add trap manager

Syntax

addtrapmgr <ipaddr>

<ipaddr>	The IP address to be assigned to the trap manager in the form nnn.nnn.nnn.nnn where n = 0–9, and nnn < 256

Related Commands

deltrapmgr, **cnftrapmgr**, **dsptrapmgr**, **dsptrapmgrs**

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 1–2

Example

addtrapmgr 161.10.144.56

Description

Adds a trap manager with the IP address of 161.10.144.56.

adduser

Add a user to the shelf configuration. The added user cannot have a privilege level that is higher than the current user. No screen output appears unless an error in the input occurred.

Full Name

Add user

Syntax

adduser <user ID> <privilege level>

where:

<user ID>	name for the user
<privilege level>	privilege is the highest level of access the user has

Related Commands

dspusers, **deluser**

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

aimhelp

Displays the Help screen for the AUSM-8P/IMATM service module.

Full Name

AIM help

Syntax

aimhelp

Related Commands

Help

Cards on which the command executes

IM–ATM, AUSM8

Attributes

Log: No State: Any state Privilege: 1–6

ausmhelp

Lists all the commands available on the AUSM card.

Full Name

Change card

Syntax

ausmhelp

Related Commands

Help

Cards on which the command executes

AUSM

Attributes

Log: No State: Any state Privilege: 1–6

burnbtrev

This command burns the bootcode on the specified slot using the using the bootcode from the disk.

Full Name

Burn Boot Code Revision

Syntax

burnbtrev AXIS_ASC_ACTIVE.BOOT

or

burnbtrev AXIS_ASC_STANDBY.BOOT

or

burnbtrev <AXIS_SM_1_<slot>.BOOT

where:

<slot>	card slot to which the bootcode should be burned. Range is 3 through 14.

Related Commands

revup, revdn

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 0

bye

The **bye** command lets you exit the current CLI shell.

Full Name

Bye

Syntax

bye

Related Commands

logout

Cards on Which This Command Executes

ASC, FRSM, AUSM, IM–ATM, CESM, FRASM

Attributes

Log: Yes State: Any Privilege: Any

Example

bye

Description

Exit the current CLI shell.

System Response

(none)

cc

Changes the card into which the user is logged. If a card slot is empty, an error message appears.

Full Name

Change card

Syntax

cc <slot number>

where:

<slot number>	card slot to which the screen display should change. Range is 3 through 14.

Related Commands

none

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM–ATM, FRASM

Attributes

Log: No State: Any state Privilege: 1–6

chkdsk

Checks PCMCIA disk for any overlapping fat clusters.

Full Name

Check disk

Syntax

chkdsk

Related Commands

chkflash

Cards on which the command executes

ASC, CESM

Attributes

Log: No State: Any state Privilege: 0

clraimgrpcnt

This command clears all the AIMUX related counters for all lines in the specified AIMUX group.

Full Name

Clear AIM group counters

Syntax

clraimgrpcnt (or **clrimagrpcnt**) <aimux_grp>

where:

<aimux_grp>	AIMUX group number. Range is 1 through 8.

Related Commands

delaimgrpcnt

Cards on which the command executes

IM–ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

clraimlncnt

This command clears all the AIMUX line counters for the specified IMA group.

Full Name

Clear AIM (or Clear IMA) Line Counters

Syntax

clraimlncnt (or **clrimalncnt**) <aimux_grp>

where:

<aimux_grp>	AIMUX group number. Range is 1 through 8.

Related Commands

dspaimlncnt, clrimalncnt

Cards on which the command executes

AUSM8, IM–ATM

Attributes

Log: No State: Active Privilege: 1

clrallcnf

The **clrallcnf** command clears all configuration elements for all the cards in the node. The card is reset.

Caution This command is extremely dangerous.

Full Name

Clear All Configurations

Syntax

clrallcnf

Related Commands

clrsmcnf, dspsmcnf

Cards on Which This Command Executes

ASC

Attributes

Log: Yes State: Active Privilege: Service

clralm

The **clralm** command clears alarms on a specified line on the current card. Alarms occurring after this command executes are not affected. If alarms on a line are cleared with this command, the results may be observable through the **dspalm** command.

This command can clear alarms caused only by the collection of statistical data. Alarms caused by network failure cannot be cleared. For example, an alarm caused by a collection of bipolar errors can be cleared, but an alarm caused by a card failure cannot.

Full Name

Clear alarm

Syntax

For an ASC:

clralm -ds3 <LineNum>

-ds3 <LineNum>	LineNum = 1–n, n = 1 if BNM

or

clralm -e3 <LineNum>

-e3 <LineNum>	LineNum = 1–n, n = 1 if BNM

or

clralm -plcp <PLCPNUM>

-plcp <PLCPNum>	PLCPNum = 1–n, n = 1 if BNM

For an FRSM or AUSM:

clralm -ds1 <LineNum>

where

<LineNum>	LineNum = 1–n, n = 4 if FRSM4p/AUSM4p, 8 if FRSM8p/AUSM8p

For an SRM-3T3:

clralm -srmds3 <LineNum>

where

<LineNum>	LineNum = 1–n, n = 3 if SRM-3T3

Related Commands

clralms, **dspalm**, **dspalms**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, FRASM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clralmcnt

The **clralmcnt** command clears all the alarm counters and statistics on the specified line on the current card. All counters are reset to zero. The terminal does not display a response unless an error exists in the syntax.

Full Name

Clear alarm counters/statistics

Syntax

clralmcnt -ds3 <LineNum> | -e3 <LineNum> | -plcp <PLCPNum> | -ds1 <LineNum>

where:

On an ASC with BNM-T3, -ds3 <LineNum> and -plcp <PLCPNum> and -e3 <LineNum> = 1

On an FRSM, -ds1 <LineNum> is in the range 1–4 for a four port card, 1–8 for an eight port card.

On an AUSM, -ds1 <LineNum> is in the range 1–4 for a four port card, 1–8 for an eight port card.

On a CESM, -ds1 <LineNum> is in the range 1–4 for a four port card, 1–8 for an eight port card.

On an MGX 8220 shelf configured with a BNM-155, the syntax is:

clralmcnt -sonet <LineNum>

where: -sonet <LineNum> is in the range 1–2

Related Commands

dspalmcnt, **clralmcnts**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clralmcnts

The **clralmcnts** command clears all the alarm counters and statistics on the current card. All counters are reset to zero. The terminal does not display a response unless an error exists in the syntax.

Full Name

Clear all alarm counters/statistics on the current card.

Syntax

clralmcnts

Related Commands

dspalmcnt, **clralmcnt**

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clralms

The **clralms** command clears alarms on the current card. Alarms occurring after this command executes are not affected.

This command can clear alarms caused only by the collection of statistical data. Alarms caused by network failure cannot be cleared. For example, an alarm caused by a collection of bipolar errors can be cleared, but an alarm caused by a card failure cannot.

Full Name

Clear alarms on card

Syntax

clralms

Related Commands

clralm, **dspalm**, **dspalms**

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clrbnmcnf

This command clears the configuration elements on the BNM card.

Full Name

Clear BNM card configuration

Syntax

clrbnmcnf

Related Commands

cnfbnmif

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–5

clrbnmcnt

The **clrbnmcnt** command clears the cell counter on the BNM card and resets it to zero. The count resumes for cells transmitted after **clrbnmcnt** executes. The BNM counters hold the number of ATM cells transmitted and the number of ATM cells received.

Full Name

Clear BNM cell counter

Syntax

clrbnmcnt

Related Commands

dspbnmcnt

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–5

clrbsccucount

This command clears all the bsc cu counters for the specified port and cu address.

Full Name

Clear bsc cu counters

Syntax

clrbsccucount<port_num><cuaddress> :

<port_num>	port number of the bsc connection to be routed in the range 1–192
<cu address>	address of the controller unit in the range 0x01–0xFE

Related Commands

dspbsccucount

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
clrbsccucount 10 0x01
```

Description

Resets all the bsc cu counters for port 10 and cu address of 0x01.

clrbram

This command clears the BRAM contents.

Full Name

Clear BRAM contents

Syntax

clrbram

Related Commands

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Super (0)

clrbscportcnt

This command clears all the bsc counters for the specified port.

Full Name

Clear bsc port counters

Syntax

clrbscportcnt<port_num> :

<port_num>	port number of the bsc connection to be routed in the range 1–192

Related Commands

dspbscportcnt

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
clrbscportcnt 10
```

Description

Resets all the bsc counters for port 10.

clrcderrs

The **clrcderrs** command clears all card-related errors in an MGX 8220 card. No response messages appear on screen. Refer to the **dspcderrs** description to see an example of the errors that this command clears, or execute **dspcderrs** before and after **clrcderrs**.

Full Name

Clear hardware/reset errors in BRAM

Syntax

clrcderrs

Related Commands

dspcderrs

Cards on which the command executes

ASC, FRSM, AUSM, IM-ATM

Attributes

Log: No State: Any Privilege: Superuser

clrchancnt

This command clears the historical channel statistic counters for a specified channel on an FRSM, CESM, IM-ATM, or AUSM. Counting resumes after the command executes.

Full Name

Clear historical channel statistic counters

Syntax

clrchancnt <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM or IM-ATM, 32–279 for 8 port CESM.

Related Commands

dspchan, **clrchancnts**, **dspchancnt**

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

The frame relay counters for each channel are:

- Received frames
- Received bytes
- Received frames DE
- Received bytes DE
- Received frames discarded
- Received bytes discarded
- Received frames discarded for shelf alarms
- Received frames discarded for exceeded queue depth
- Received bytes discarded for exceeded queue depth
- Received frames discarded for exceeded DE threshold
- Received frames FECN
- Received frames BECN
- Received frames tagged FECN
- Received frames tagged BECN
- Received frames tagged DE
- Transmitted frames
- Transmitted bytes
- Transmitted frames BECN
- Transmitted frames FECN
- Transmitted frames DE
- Transmitted bytes DE
- Transmitted frames discarded
- Transmitted bytes discarded
- Transmitted frames discarded for exceeded queue depth
- Transmitted bytes discarded for exceeded queue depth
- Transmitted frames discarded for exceeded DE threshold
- Transmitted frames discarded for physical layer fail
- Transmitted frames discarded for CRC error
- Transmitted frames discarded for reassembly failure
- Transmitted frames discarded for source abort
- Transmitted frames during LMI logical port alarm
- Transmitted bytes during for LMI logical port alarm
- Transmitted frames tagged FECN
- Transmitted frames tagged BECN

clrchancnts

The **clrchancnts** command clears the channel counter for all channels on the current card (AUSM, CESM, IM-ATM, or FRSM). Counting resumes for transmissions occurring after the command executes. For a list of the frame relay counters, refer to the description of **clrchancnt**.

Full Name

Clear channel counters

Syntax

clrchancnts

Related Commands

dspchan, **clrchancnt**, **dspchancnt**

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–3

clrimagrpcnt

This command clears IMA (inverse multiplexing ATM) group counters on the current AUSM8 or IM-ATM card.

Full Name

Clear IMA (inverse multiplexing ATM) group counters

Syntax

clrimagrpcnt

Related Commands

dspimagrp, dspimagrpcnt, dspimalncnt

Cards on which the command executes

AUSM8, IM-ATM

Attributes

Log: No State: Active Privilege: 1

clrimalncnt

This command clears all the AIMUX line counters for the specified IMA group.

Full Name

Clear AIM (or Clear IMA) Line Counters

Syntax

clrimalncnt (or clraimlncnt) <aimux_grp>

where:

<aimux_grp>	AIMUX group number

Related Commands

dspaimlncnt, clraimlncnt

Cards on which the command executes

AUSM8, IM-ATM

Attributes

Log: No State: Active Privilege: 1

clrllcportcnt

This command clears all the LLC counters for the specified channel

Full Name

Clear LLC channel counters

Syntax

clrllcportcnt <chan_num> :

<chan_num>	channel number of the SDLC connection to be routed in the range 16–1015

Related Commands

dspsdlcportcnt

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
clrllcportcnt 20
```

Description

Resets all the LLC counters for channel 20.

clrlog

The **clrlog** command clears all event log files or the log file specified with option <-log>. The log resumes accumulating event log messages after the command executes.

Full Name

Clear Log

Syntax

clrlog [-log <*log slot*>]

where:

-log	indicates that a specific log file number follows.
log slot	is the number in the event log file.

Related Commands

dspslog

Cards on Which This Command Executes

ASC

Attributes

Log: Yes State: Any Privilege: 1

clrlscount

This command clears all the LS counters for the specified port and LS address

Full Name

Clear LS port counters

Syntax

clrlscount <port_num> <lsaddress> :

<port_num>	port number of the LS connection to be routed in the range 1–192
<lsaddress>	address of the logical station in the range of 0x01–0xFE (0xFF for STUN)

Related Commands

dsplscount

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
clrlscount 10 0x06
```

Description

Resets all the LS counters for port 10 and LS address 0x06.

clrmsgcnt

The **clrmsgcnt** command clears the control message counters. The control message counters are as follows:

- Number of control Frames transmitted to SAR (from RISC) maintained by RISC
- Number of control Frames received from SAR (to RISC) maintained by RISC
- Number of control Frames transmitted to RISC from SAR maintained by SAR (should be equal to (riscRcvCtrlMsg)
- Number of control Frames received to SAR from RISC maintained by SAR (should be equal to (riscXmtCtrlMsg)
- Total control (management) cells discarded due to illegal length error
- Total control (management) cells discard due to illegal CRC error
- Count of discarded control message due to unknown channel error
- The control cell header received on the last unknown channel

Full Name

Clear control message counter

Syntax

clrmsgcnt

Related Commands

dspmsgcnt

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clrportcnt

The **clrportcnt** command is used to clear the values of a port's counter on the current AUSM or FRSM.

No message appears upon successful execution of the command.

Full Name

Clear port counter

Syntax

clrportcnt <port number>

where:

On an AUSM, <port number> is in the range 1–4 for a four port card, 1–8 for an eight port card.

On an FRSM with T1, <port number> is in the range 1–96 for a four port card, 1–192 for an eight port card.

On an FRSM with E1, <port number> is in the range 1–124 for a four port card, 1–248 for an eight port card.

Related Commands

clrportcnts, **dspportcnt**

Cards on which the command executes

FRSM, AUSM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clrportcnts

The **clrportcnts** command clears all port counts on the current FRSM or AUSM.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Clear port counts

Syntax

clrportcnts

Related Commands

clrportcnt, **dspportcnt**

Cards on which the command executes

FRSM, AUSM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clrsarcnt

The **clrsarcnt** command clears the Segmentation and Reassembly (SAR) counters. The SAR counters are:

- Number of cells transmitted on this channel.
- Number of CLP cells that were transmitted on this channel.
- Number of AIS cells that were transmitted on this channel.
- Number of FERF cells that were transmitted on this channel.
- Number of BCM cells that were transmitted on this channel.
- Number of End2End loop cells that were transmitted on this channel.
- Number of segment loop cells that were transmitted on this channel.
- Number of cells discard due to Shelf alarm on this channel.
- Number of cells that were received on this channel.
- Number of CLP cells that were received on this channel.
- Number of AIS cells that were received on this channel.
- Number of FERF cells that were received on this channel.
- Number of BCM cells that were received on this channel.
- Number of End2End loop cells that were received on this channel.
- Number of segment loop cells that were received on this channel.
- Number of cells that had the CRC error on this channel.

Full Name

Clear SAR counters

Syntax

clrsarcnt -chn <ChanNum>

where:

ChanNum	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM or IM-ATM, 32–279 for 8 port CESM.

Related Commands

dspsarcnt

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clrsarcnts

The **clrsarcnts** command clears all the SAR counters on the current card.

Full Name

Clear SAR Counts

Syntax

clrsarcnts

Related Commands

clrsarcnt, **dspsarcnt**, **dspsarcnts**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: Any user

clrimagrpcnt

This command clears IMA (inverse multiplexing ATM) counters on the current AUSM8 card for an IMA group.

Full Name

Clear IMA (inverse multiplexing ATM) group counters

Syntax

clrimagrpcnt (or **clraimgrpcnt**) <imagroup> :

<imagroup>	IMA group number -- value ranging from 1 to 8

Related Commands

dspimagrp, dspimagrpcnt, dspimagrps, dspimainfo, dspimalncnt

Cards on which the command executes

AUSM8

Attributes

Log: No State: Active Privilege: 1

clrscrn

The **clrscrn** command clears the control terminal screen. After this command executes, only the current command line prompt appears on the screen.

Full Name

Clear terminal screen

Syntax

clrscrn

Related Commands

none

Cards on which the command executes

ASC, FRSM, AUSM, IM-ATM, CESM

Attributes

Log: No State: Any Privilege: 1–6

clrsdlcportcnt

This command clears all the SDLC counters for the specified port

Full Name

Clear SDLC port counters

Syntax

clrsdlcportcnt <port_num> :

<port_num>	port number for which the SDLC counters will be cleared in the range 1–192

Related Commands

dspsdlcportcnt

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
clrsdlcportcnt 10
```

Description

Resets all the SDLC counters for port 10.

clrslftst

The **clrslftst** command clears the results of the last self test on the current card.

Full Name

Clear self test

Syntax

clrslftst

Related Commands

cnfslftst, **dspslftst**, **runslftstno**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No	State: Any	Privilege: Any user

clrsmcnf

The **clrsmcnf** command clears configuration elements for all the service modules on the shelf. The elements this command clears are:

- Existence of a configuration
- Whether rate control is on or off
- Whether the card is channelized
- Number of the MIB version

Full Name

Clear service module configuration

Syntax

clrsmcnf

Related Commands

dspsmcnf

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 1–2

clrsrmcnf

The **clrsrmcnf** command clears the SRM-3T3 card information and removes all T1 link mappings. All links are switched back their respective service modules.

Full Name

Clear SRM-3T3 configuration

Syntax

clrsrmcnf

Related Commands

none

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Any Privilege: 1–6

cnfaimgrp

This command configures delay and resilient links IMA (inverse multiplexing ATM) parameters on the current AUSM8 or IM-ATM card.

Full Name

Configure AIM group

Syntax

cnfaimgrp (or **cnfimagrp**) <aimux_grp> -rwdiff <read_wr_ptr_diff> -severity <link_loss_severity> -maxdiff <maximum_diff_delay> -red <num_red_links>

where:

<aimux_grp>	AIMUX group number for this group (1–8)
<read_wr_ptr_diff>	difference between the read and write pointer maintained (1..8)
<link_loss_severity>	seriousness of a single link failure (1: m)
<maximum_diff_delay>	maximum tolerable differential delay
<num_red_links>	number of redundant links in the AIMUX group

Related Commands

addaimgrp, **delaimgrp**, **dspaimgrp**, **dspaimgrps**

Cards on which the command executes

IM-ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

Note Redundant link(s) indicates the number of link(s) the system can lose without bringing down the AIMUX group. However, the link_loss_severity option overrides this feature.

The <read_wr_ptr_diff> value cannot be decreased from its existing value—it can only be increased (this is because decreasing the <read_wr_ptr_diff> in an established AIMUX group involves dropping cells that are stored in the delay compensation buffer.

---

cnfbert

The **cnfbert** command configures the shelf for bit error rate testing and other associated operations such as loopbacks.

Full Name

Configure Bit Error Rate Test

Syntax

cnfbert

Related Commands

dspbert, **startbert**, **modbert**, **delbert**

Cards on which the command executes

ASC

Example

```
AXISNAME.1.3.ASC.a > cnfbert
```

Description

Configure the shelf for bit error rate testing.

System Response

```
** TEST CONFIGURE MENU **
=========================
SLOT NUMBER
-----------
r. Redo From Start
p. Previous Menu
q. Quit Menu
Slot number to configure test please (5-14): 8
TEST MEDIUM
-----------
r. Redo From Start
p. Previous Menu
q. Quit Menu
1. Port
2. Line
Please Enter Choice[1-2]: 1

PORT
----
r. Redo From Start
p. Previous Menu
q. Quit Menu
Port number to test please: 25
TEST TYPE
---------
```

```
r. Redo From Start
p. Previous Menu
q. Quit Menu
1. BERT Pattern Test
2. DDS Seek
3. Loopback
Please Enter Choice[1-3]: 1
DEVICE TO LOOP
--------------
r. Redo From Start
p. Previous Menu
q. Quit Menu
1. Non latching OCU with 1 Device
2. Non latching OCU without 1 Device
3. Non latching CSU Device
4. Non latching DSU Device
5. Latching DS0-DP drop Device
6. Latching DS0-DP line Device
7. Latching OCU Device
8. Latching CSU Device
9. Latching DSU Device
10. Latching HL96 Device
11. V.54 polynomial Loopback
12. No Device
Please Enter Choice[1-12]: 8
BERT PATTERN
------------
r. Redo From Start
p. Previous Menu

q. Quit Menu
1. All Zeroes Pattern
2. All Ones Pattern
3. Alternate One Zero Pattern
4. Double One Zero Pattern
5. 2^15-1 Pattern
6. 2^20-1 Pattern
7. 2^20-1 QRSS Pattern
8. 2^23-1 Pattern
9. 1 in 8 Pattern
10. 3 in 24 Pattern
11. DDS-1 Pattern
12. DDS-2 Pattern
13. DDS-3 Pattern
14. DDS-4 Pattern
15. DDS-5 Pattern
16. 2^9 Pattern
17. 2^11 Pattern
Please Enter Choice[1-17]: 16

Test configured.
```

cnfbnmif

The **cnfbnmif** command configures the interface format for the BNM-T3, BMN-E3, or BNM-155 trunk card to either STI, UNI, or NNI. The BNM interface format must be configured before connections are provisioned on the MGX 8220 shelf.

Caution The BNM interface cannot be configured while connections exist on the MGX 8220 shelf. After configuring the BNM interface, the MGX 8220 shelf will reset.

Full Name

Configure BNM Interface

Syntax

cnfbnmif -if <interface format>

where <interface format> = 1–3, 1: STI, 2: UNI, 3: NNI

Related Commands

dspbnmif

Cards on which the command executes

ASC

Example

```
shelf.1.3.ASC.a > cnfbnmif -if 2
```

Description

Configure the BNM interface to UNI format.

cnfbscport

Configures a BSC STUN port to a FRASM line. There is no corresponding **addbscport** command. An BSC STUN port is added using the **addport** command with a port type of BSC STUN. Likewise, there is no **delbscport**, an BSC STUN port is deleted using the **delport** command.

Full Name

Configure BSC STUN port

Syntax

cnfbscport <port number> <pause> <timeout> <retries> :

<port number>	port number in the range 1–192 for T1, 1–248 for E1
<pause>	number of 0.1 second intervals to wait at the start of a polling cycle in the range 1–10000
<timeout>	number of 0.1 second intervals between polls in the range 1–1000
<retries>	number of retry attempts before a particular device is considered to have failed in the range 1–100

Related Commands

dspbscport, **dspbscports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfbscport 16 100 20 20
```

Description

Configures the BSC STUN port 16 so that the interval at the start of a polling cycle is 10 seconds, the interval between polls is 2 seconds, and the maximum number of retries before a device is considered to have failed 20.

cnfbscportmisc

Configures some miscellaneous BSC STUN port parameters to a FRASM line.

Full Name

Configure BSC STUN port miscellaneous parameters (number of service limit cycles and enable special polling)

Syntax

cnfbscportmisc <port number> <servlimit> <specpoll> :

<port number>	port number in the range 1–192 for T1, 1–248 for E1
<servlimit>	service limit cycles in the range 1 – 100
<specpoll>	handle special polls, 1 is disabled, 2 is enabled

Related Commands

cnfbscport, dspbscport, **dspbscports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfbscportmisc 16 100 1
```

Description

Configures the BSC STUN port 16 so that the service limit cycles is 100 and the handling of special polls is disabled.

cnfchancacoff

The **cnfchancacoff** command turns off the connection admission control (CAC) function for the specified channel.

Full Name

Configure channel CAC off

Syntax

cnfchancacoff<chan_num>

where:

<chan_num>	channel number range is 16–271 for 4 port FRSM, 16–1015 for 8 port FRSM

Related Commands

none

Cards on which the command executes

FRSM8, FRSM4

Attributes

Log: Yes State: Active Privilege: 1–2

cnfchanegressq

The **cnfchanegressq** command configures the egress queue for a specified channel.

Full Name

Configure channel egress queue

Syntax

cnfchanegressq<chan_num><Qsel><Qdepth><QDEThresh><QECNThresh>

where:

<chan_num>	channel number range is 16–271 for 4 port FRSM, 16–1015 for 8 port FRSM
<Qsel>	Egress queue select in the range 1 – 2
<Qdepth>	Egress queue depth in the range 1 – 65535
<QDEThresh>	Egress queue DE Threshold in the range 1 – 65535
<QECNThresh>	Egress queue ECN Threshold in the range 1 – 65535

Related Commands

cnfchaningressq

Cards on which the command executes

FRSM8, FRSM4

Attributes

Log: Yes State: Active Privilege: 1–2

cnfchanfst

The **cnfchanfst** command configures the ForeSight parameters for a frame relay or ATM channel. No messages appear on screen unless an error occurs.

Full Name

Configure channel ForeSight

Syntax

For FRSM:

cnfchanfst <chan_num> <fst_enable> <mir> <pir> <qir>

where:

<chan_num>	channel number range is 16–271 for 4 port, 16–1015 for 8 port
<fst_enable>	ForeSight Enable—1 for enable, 2 for disable
<mir>	minimum rate—10–8000 in cell/sec, default 1000
<pir>	peak rate—10–8000 in cell/sec, default 1000
<qir>	quiescent rate—10–8000 in cell/sec, default 1000

For AUSM:

cnfchanfst <chan_num> <enable | disable> <fgcra_enable> <ibs> <pcr> <mcr> <icr>

where:

<chan_num>	channel number range is 16–271 for 4 port, 16–1015 for 8 port
<enable | disable>	enable/disable pertains to ForeSight: 1 = disable, 2 = enable
<fgcra_enable>	FGCRA enable is for the specified channel: 1 = disable, 2 = enable
<ibs>	ibs is the initial burst size in the range 10–5000 cells
<pcr>	pcr is the peak cell rate in the range 11–8000 cells/second
<mcr>	mcr is the minimum cell rate in the range 11–8000 cells/second
<icr>	icr is the initial cell rate in the range 11–8000 cells/second

Related Commands

dspchan

Cards on which the command executes

FRSM, AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfchaningressq

The **cnfchaningressq** command configures the ingress queue for a specified channel.

Full Name

Configure channel ingress queue

Syntax

cnfchaningressq<chan_num><Qdepth><QDEThresh><QECNThresh>

where:

<chan_num>	channel number range is 16–271 for 4 port FRSM, 16–1015 for 8 port FRSM
<Qdepth>	Ingress queue depth in the range 4510 – 65535
<QDEThresh>	Ingress queue DE Threshold in the range 1 – 65535
<QECNThresh>	Ingress queue ECN Threshold in the range 1 – 65535

Related Commands

cnfchanegressq

Cards on which the command executes

FRSM8, FRSM4

Attributes

Log: Yes State: Active Privilege: 1–2

cnfchan

This command configures the parameters for a channel on a CESM card.

Full Name

Configure channel

Syntax

cnfchan <chan_num >< CDV><CellLossIntegPeriod>< bufsize>

where:

<chan_num>	value ranging from 16 to 19 for a 4 port CESM, where: 16 = line 1 17 = line 2 18 = line 3 19 = line 4 The range is 32 to 279 for an 8 port CESM.
<CDV>	Cell delay variation. This is the maximum cell arrival jitter that the reassembly process will tolerate. This parameter is specified in increments of 125 micro seconds. Range is 1000–65535 micro seconds
<CellLossIntegPeriod>	Cell loss integration period: Range is 1000–65535 milli seconds
<bufsize>	egress buffer size: Min value = 0.6(CDV–T1) for T1, 0.7(CDV–E1) for E1. Max value = 65535, 0 to auto-compute

Related Commands

xcnfchan, delchan, xdspchan, dspchan

Cards on which the command executes

CESM

Attributes

Log: Yes State: Active Privilege: 2

cnfchanmap

The **cnfchanmap** command configures interworking field mapping for a specified channel.

Full Name

Configure channel map

Syntax

cnfchanmap<chan_num><chanType><FECN/EFCI><DE to CLP><CLP to DE>

where:

<chan_num>	channel number range is 16–271 for 4 port, 16–1015 for 8 port
<chanType>	chan type in the range 1 – 5. 1 = network interworking, 2 = service interworking in transparent mode, 3 = service interworking in translation mode, 4 = FUNI, 5 = frame forwarding
<FECN/EFCI>	Mapping between FECN and EFCI fields in the range 1–2. 1 = map EFCI, (this option valid only for service interworking) 2 = make EFCI 0
<DE to CLP>	DE to CLP mapping in the range 1 – 3. 1 = map DE to CLP, 2 = make CLP 0, 3 = make CLP 1.
<CLP to DE>	CLP to DE mapping in the range 1 – 4. 1 = map CLP to DE, 2 = make DE 0, 3 = make DE 1, 4 = ignore CLP (this option valid only for network interworking.)

Related Commands

dspchanmap

Cards on which the command executes

FRSM4, FRSM8

Attributes

Log: Yes State: Active Privilege: 1–2

cnfchanpol

The **cnfchanpol** command configures the frame relay policing parameters for a channel. No messages appear on screen unless an error occurs.

Full Name

Configure channel policing

Syntax

cnfchanpol <chan_num> <cir> <bc> <be> <ibs> <detag> <egress service rate>

where:

<chan_num>	Specify the channel you are modifying policing parameters for. Value ranging from 16 to 271 for 4 port, 16–1015 for 8 port
<cir>	Specify the Committed Information Rate. This is the highest rate before policing takes place. Value ranging from 0–1536000 bps for T1, 0–2048000 bps for E1. The default value is 2400 bits per second. The committed information rate has to be set to less than or equal to the port speed.
<bc>	Committed Burst Value ranging from 0–65535 in bytes. The default value is 5100 Committed Burst can not be 0 when the Committed Information Rate is not 0. Committed Burst has to be 0 if the Committed Information Rate is 0.
<be>	Excess Burst Value ranging from 0–65535 in bytes Default value is 5100. Excess Burst can not be 0 when the Committed Information Rate is 0.
<ibs>	Initial Burst Size Value ranging from 0–65535 in bytes. Must be less than or equal to Committed Burst value. The default value is 100 bytes. Initial burst size has to be 0 when the Committed Information Rate is 0.
<de tag>	Enable or disable DE (Discard Eligible) bit tagging on ingress frames. 1 for enable, 2 for disable The default value is 2 (DE (Discard Eligible) bit tagging is disabled).

<egress service rate>	Specify the rate that the channel will be serviced at egress. Determines whether port is oversubscribed. Value ranging from 0–1536000 bps for T1, 0–2048000 bps for E1.

Related Commands

dspchan

Cards on which the command executes

FRSM4, FRSM8

Attributes

Log: Yes State: Active Privilege: 1–2

cnfchanq

The **cnfchanq** command configures a channel's queue parameters on the current AUSM. No messages appear on screen unless an error occurs.

Full Name

Configure channel queue

Syntax

cnfchanq <chan_num> <vc_q_depth> <clp_thresh_high> <clp_thresh_low> <efci_thresh>

where:

<chan_num>	range 16–271 for 4 port, 16–1015 for 8 port
<vc_q_depth>	Ingress Q Depth, before it starts dropping the cells : 0–8000 Cells for 4 port,: 0–16000 Cells for 8 port
<clp_thresh_high>	CLP Threshold High: 0–8000 Cells for 4 port, 0–16000 Cells for 8 port
<clp_thresh_low>	CLP Threshold Low: 0–8000 Cells for 4 port, 0–16000 Cells for 8 port
<efci_thresh>	EFCI Threshold: 0–8000 Cells for 4 port, 0–16000 Cells for 8 port

Related Commands

dspchan

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfclksrc

Configures primary, secondary, or internal clock source. Any combination of clocks are configurable and in any order.

Full Name

Configure clock source

Syntax

cnfclksrc -pri <PrimaryClockSource> -sec <SecondaryClockSource> -cur <CurrentClockSource> -imp <ExternalClockSourceImpedance>

where:

- -pri <PrimaryClockSource> where PrimaryClockSource = 1–3
  1: Internal 2: BNM In-band 3: External
- -sec <SecondaryClockSource> where SecondaryClockSource = 1–3
  1: Internal 2: BNM In-band 3: External
- -cur <CurrentClockSource> where CurrentClockSource = 1–3,
  1: Primary 2: Secondary 3: Internal
- -imp <ExternalClockSourceImpedance > where ExternalClockSourceImpedance = 1–3
  1: 75 ohms BNC for E1, 2: 100 ohms DB-15 for T1, 3: 120 ohms DB-15 for E1

Related Commands

dspclksrc

Cards on which the command executes

ASC, IM-ATM

Attributes

Log: Yes State: Active Privilege: 1

cnfdate

The **cnfdate** command configures the date.

Full Name

Configure date

Syntax

cnfdate <mm/dd/yyyy>

Related Commands

cnftime

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

```
cnfdate 11/24/1999
```

Description

Configure the date to be 11/24/99

System Response

```
kanchend.1.3.ASC.a > cnfdate 11/24/1999

  Date = 11/24/1999
```

cnfdcmon

This command configures DC power monitoring on the ASC card.

Full Name

Configure DC Monitoring

Syntax

cnfdcmon <DC-unit> <mon-option>

<DC-unit>	DC power unit to be configured: 1 or 2
<mon-option>	enable or disable monitoring of this DC unit where: DC-unit = 1: unit#1 2: unit#2
<mon-option>	1: enable, 2: disable

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

cnffst

The **cnffst** command configures the foresight parameters for the current card.

Full Name

Configure foresight

Syntax

cnffst <rate_up><rate-fast_down><qir_time_out><rtd_interval>

where:

<rate_up>	rate up in the range 1 – 100
<rate_down>	rate down in the range 1 – 100
<rate-fast_down>	rate fast down in the range 1 – 100
<qir_time_out>	QIR timeout period before resetting IR to QIR in the range 1 – 255 seconds
<rtd_interval>	Interval between RTD measurement requests in the range 1 – 255 seconds

Related Commands

dspfst

Cards on which the command executes

FRSM, AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfifip

The **cnfifip** command configures the interface address. The configurable addresses are for LAN, in-band ports, and ATM.

Full Name

Configure interface address

Syntax

cnfifip -ip <IP address> -if <Interface> -msk <NetMask> -bc <BroadcastAddress>

where:

-ip <IP address>	IP address = nnn.nnn.nnn.nnn, where the range for nnn is 0 to 255.
-if <Interface>	Interface is as follows: • 26 for Ethernet • 28 for SLIP • 37 for ATM
-msk <NetMask>	NetMask = nnn.nnn.nnn.nnn, where the range for nnn is 0 to 255.
-bc <BroadcastAddress>	BroadcastAddress = nnnnnnnnnnnn (hexadecimal)

Related Commands

dspifip

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

```
cnfifip -ip 192.169.3.18 -if 28 -msk 255.255.255.000 -bc 192.169.3.18
```

Description

Configure the IP address of the card. See example screen for **dspifip**.

cnfilmi

The **cnfilmi** command configures a port's local management interface. No messages appear on screen unless an error occurs.

Full Name

Configure ILMI

Syntax

cnfilmi <port_num> <signal_type> <vpi> <vci> <scr> <trap_enable> <min_trap_int> <keep_alive> <AddrRegEnb>

where:

<port_num>	port number in the range 1–4 for a 4 port card, 1–8 for an 8 port card
<signal_type>	signalling type: 1 = other, 2 = no signalling, and 3 = ILMI
<vpi>	virtual path identifier in the range 0–255
<vci>	virtual circuit identifier in the range 0–65535 for VCC, * for VPC
<trap_enable>	ILMI trap enable: 1 = disable, 2 = enable
<min_trap_int>	minimum trap interval in the range 1–10 seconds.
<keep_alive>	enable for Keep Alive Polling: 1 = disable, 2 = enable
<AddrRegEnb>	enable for address registration: 1 = disable, 2 = enable

Related Commands

dspilmi, **dspilmicnt**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1

cnfimagrp

The **cnfimagrp** command configures delay and resilient links IMA (inverse multiplexing ATM) parameters on the current AUSM8 or IM-ATM card.

Full Name

Configure IMA group

Syntax

cnfimagrp<grp><max_diff_delay><n_res_lns>

where:

<grp>	IMA group number. The range is 1 to 4 for four port cards, 1 to 8 for eight port cards.
<max_diff_delay>	Maximum differential delay in seconds. The range is 0 – 275 for AUSM8-T1 and 0 – 200 for AUSM8-E1.
<n_res_lns>	number of resilient links in the inverse multiplexer.

Related Commands

dspimagrp, dspimagrps, dspimagrpcnt

Cards on which the command executes

AUSM8, IM-ATM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfllcport

Configures an LLC port to a FRASM line. There is no corresponding **addllcport** command, an LLC port is automatically created through the **addchan** command. Likewise, there is no **delllcport**, an LLC port is automatically deleted using the **delchan** command. There is a one-to-one relationship between an LLC and an LCN.

Full Name

Configure LLC port

Syntax

cnfllcport <chan number><n2> <t1> :

<chan number>	channel number in the range 16–1015
<n2>	number of retry attempts before the system is considered to have failed in the range 1–255
<t1>	time, in milliseconds, that the system waits for an ack after sending a frame, before attempting recovery in the range 1–64000

Related Commands

dspllcport, **dspllcports**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–5

Example

```
cnfllcport 20 100 10000
```

Description

Configures the LLC channel 20, the maximum number of retries before aborting the session is 100, and the maximum wait for an ack before attempting recovery is 10000 milliseconds.

cnfllcportflow

Configures flow LLC port parameters to a FRASM line.

Full Name

Configure LLC STUN port flow

Syntax

cnfllcportflow <chan number> <frthresh> <fwdiv> :

<chan number>	channel number in the range 16–1015
<frthresh>	flow restart threshold in the range 1 – 8
<fwdiv>	flow divisor, permissable values are 1, 2, 4, 8, or 16

Related Commands

cnfllcport, dspllcport, **dspllcports dspllcportmisc**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfllcportmisc 100 4 4
```

Description

Configures the LLC channel 100 with a flow restart threshold of 4 and a flow divisor of 4.

cnfllcportmisc

Configures some miscellaneous LLC port parameters to a FRASM line.

Full Name

Configure LLC STUN port miscellaneous

Syntax

cnfllcportmisc <chan number> <ackmax> <localwindow><xidnvt><xidrt><txqmax> :

<chan number>	channel number in the range 16–1015
<ackmax>	maximum number of acks in the range 1 – 127
<localwindow>	local window size in the range 1 – 127
xidnvt	XID negative in msecs in the range 0 – 60000
xidrt	XID retry time in msecs in the range 1 – 60000
txqmax	transmit max. queue depth in the range 20 to 200

Related Commands

cnfllcport, dspllcport, **dspllcports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfllcportmisc 100 10 25 100 20 25
```

Description

Configures the LLC channel 100 with a ack maximum of 10, a local window size of 25, an XID negative of 100 msecs, an XID retry time of 20 msecs and a maximum transmit queue depth of 25.

cnfllcporttime

Configures some time related LLC port parameters to a FRASM line.

Full Name

Configure LLC port time

Syntax

cnfllcporttime <channel number> <ackdel> <idle> <busy><tpf><trej> :

<channel number>	channel number in the range 16 – 1015
<ackdel>	ack delay time in msecs in the range to 60000
<idle>	idle time in msecs in the range 1 to 60000
<busy>	busy time in msecs in the range 1 to 60000
<tpf>	Tpf time in msecs in the range 1 to 60000
<trej>	Trej time in msecs in the range 1 to 60000

Related Commands

cnfllcport, dspllcport, **dspllcports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfllcporttime 150 100 100 100 600 600
```

Description

Configures the LLC channel 150 with a ack delay, idle time and busy time limit of 100 msecs and a tpf and trej time limit of 600 msecs.

cnfln

The **cnfln** command configures a line on the current card to be either T1 or E1. If the command line does not include the E1 signalling parameter, the line is a T1.

Full Name

Configure line

Syntax

cnfln <line_num> <line_code> <line_len> <clk_src> [E1-signalling]

where:

<line_num>	values in the range 1–4 for a four port card, 1–8 for an eight port card
<line_code>	line coding: 2 for B8ZS, 3 for HDB3, 4 for AMI
<line_len>	line length: 1–7 for T1, 8–9 for E1 specifies the line length: 1 – 0 to 110 ft. (T1 line only) 2 – 110 to 220 ft. (T1 line only) 3 – 220 to 330 ft. (T1 line only) 4 – 330 to 440 ft. (T1 line only) 5 – 440 to 550 ft. (T1 line only) 6 – 550 to 660 ft. (T1 line only) 7 – greater than 660 ft. (T1 line only) 8 – 75 ohms (E1 line only (BNC)) 9 – 120 ohms (E1 line only (DB-15))
<clk_src>	clock source: 1 for loop clock; 2 for local clock With local clocking, the card provides the clocking to the CPE. Loop clocking means that the clock that is sent by the CPE is also used to transmit to the CPE.

[E1-signalling] (CESM E1)

CAS: Channel associated signalling

Timeslot 17 is used to transmit signalling. Timeslot 1 is used for framing.

CAS_CRC: Channel associated signalling with CRC

Timeslot 17 is used to transmit signalling. Timeslot 1 is used for framing. Cyclic Redundancy Check (CRC) included.

CCS: Combined channel signalling

Any time slot is used to transmit signalling, just like data. Timeslot 1 is used for framing.

CCS_CRC: Combined channel signalling with CRC

Any time slot is used to transmit signalling, just like data. Timeslot 1 is used for framing. Cyclic Redundancy Check (CRC) included.

CLEAR: Clear E1

No signalling or framing. The entire line is considered as data.

Related Commands

addln, **delln**

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfln 4 2 1 1
```

Description

Configure line 4 to be T1 with B8ZS line coding, have a length of 1, and use the loop clock as a clock source.

System Response

No system response unless an error occurs.

cnfls

This command configures an SDLC LS (Link Station).

Full Name

Configure SDLC LS Station

Syntax

cnfls <port_num> <lsaddress> <xid> <largestFrame> :

<port_num>	Port number in the range 1–192.
<lsaddress>	LS address in the range 0x01–0xFE (0xFF for STUN).
<xid>	4-byte Hex number that is to be exchanged for this station in the range 0000–FFFFFFFF.
<largestFrame>	Largest allowable frame for this station in the range 1–4096. Larger frames are fragmented.

Related Commands

addls, **dells**, **dspls**, **dsplss**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfls 2 2 00AA 3000
```

Description

Configures an SDLC Link Station on port 2 with an Link Station address of 2. The Xid to be used is 00AA, the largest allowable frame is 3000 bytes.

cnflsmisc

This command configures some miscellaneous parameters for a SDLC LS (Link Station).

Full Name

Configure SDLC LS Station Miscellaneous

Syntax

cnflsmisc <port_num> <lsaddress> <holdq> <startdir> <echo> :

<port_num>	Port number in the range 1–192.
<lsaddress>	LS address in the range 0x01–0xFE (0xFF for STUN).
<holdq>	Hold Queue size in the range 1 to 1024
<startdir>	Startup Direction, 1 = unknown, 2 = inbound, 3 = outbound.
<echo>	Echo enable, 1 = disable, 2 = enable.

Related Commands

addls, **dells**, **dspls**, **dsplss**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnflsmisc 2 0x22 100 2 2
```

Description

Configures an SDLC Link Station on port 2 with an Link Station address of 22. The hold queue size is 100, the startup direction is outbound and the echo is enabled.

cnflsxid

This command configures XID parameters for a SDLC LS (Link Station).

Full Name

Configure SDLC LS Station XID

Syntax

cnflsxid <port_num> <address> <xidpt> <xidpoll><xidON2> :

<port_num>	Port number in the range 1–192.
<address>	LS address in the range 0x01–0xFE (0xFF for STUN).
<xidpt>	XID pass through, 1 = disabled, 2 = enabled
<xidpoll>	XID Polling, 1 = disabled, 2 = enabled
<xidON2>	XID0 retries in the range of 1 to 255.

Related Commands

addls, **dells**, **dspls**, **dsplss**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnflsxid 2 0x22 2 2 20
```

Description

Configures an SDLC Link Station on port 2 with an Link Station address of 22. The XID passthrough and XID polling are both enabled and the XID retries is set to 20.

cnfname

The **cnfname** command configures a name for the shelf. The name can be up to 20 characters. The name can consist of letters, special characters "_" and "-" and numbers. It must begin with a letter and cannot contain spaces. The name is case sensitive.

Full Name

Configure shelf name

Syntax

cnfname <node name>

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

cnfname Kanchendzonga

Description

The prompt returns with the new name. However, on the command line the name is truncated because of the information displayed in the prompt.

System Response

```
WIPRO_B.1.3.ASC.a > cnfname Kanchendzonga
11/14/95-07:03:57 3  StrataCom    0 cnfname Kanchendzonga



Kanchend.1.3.ASC.a >
```

cnfplpp

The **cnfplpp** command configures plpp parameters on the current AUSM8 card.

Full Name

Configure plpp

Syntax

cnfplpp<phy_port_num><loopback><scramble><singlebit_errcorr_ena>

where:

<phy_port_num>	Physical port number in the range 1 to 8
<loopback>	plpp loopback in the range 1 – 3, 1 = no loopback, 2 = remote loopback, 3 = local loopback
<scramble>	cell scramble in the range 1 – 2, 1 = no scramble, 2 = scramble
<singlebit_errcorr_ena>	single bit error correction in the range 1 – 2, 1 = disable, 2 = enable

Related Commands

dspplpp

Cards on which the command executes

AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

cnfport

The **cnfport** command configures a service port on an FRSM or an AUSM.

The screen does not display a message after successful command entry. The configuration can be verified using the **dspport** command.

The syntax for this command is differs according to the service module being addressed.

Summary for FRSM

Full Name

Configure port

Syntax

cnfport <port_num> <lmi_sig> <asyn> <T391> <T392> <N391> <N392> <N393> <CLLMEN> <CLLMTM>

where:

<port_num>	port number is in the range of values 1–96 for a 4 port FRSM card (T1), 1–124 for a 4 port FRSM card (E1), 1–192 for an 8 port FRSM card (T1), 1–248 for an 8 port FRSM card (E1), or 1–4 for a 4 port FRSM HS1 or HS2 card or unchannelized E1 or T1 FRSM
<lmi_sig>	LMI signalling: 1 = Other, 2 = None, 3 = StrataLMI, 4 = AnnexAUNI, 5 = AnnexDUNI, 6 = AnnexANNI, 7 = AnnexDNNI
<asyn>	asynchronous status updates are either enabled [(y)es] or disabled [(n)o].
<T391>	T391 timer is in the range 5–30 sec. This is the `interval in seconds for status polling. This timer is for NNI.`
<T392>	T392 timer is in the range 5–30 sec. This is the `interval in seconds to expect status polling. This timer is for UNI.`
<N391>	N391 counter is in the range 1–255. This is the `number of UNI/NNI polling cycles.`
<N392>	N392 counter is in the range 1–10. This is the UNI/NNI error threshold.
<N393>	N393 counter is in the range 1–10. This is the UNI/NNI `monitored event count. It is always greater than the value for the N392 counter (the UNI/NNI` error threshold).
<CLLMEN>	CLLM Enable is either 1 = Disable or 2 = Enable. Enables or disables Consolidated Link Layer Management messages.

<CLLMTM>	CLLM Timer is in the range 40–5000 ms. Sets the time between Consolidated Link Layer Management messages.

Possible errors are:

- illegal/invalid parameters
- port doesn't exist, use **addport** command to add port first
- LMI NNI not enabled

Related Commands

addport, **delport**, **dspport**, **dspports**

Cards on which the command executes

FRSM

Attributes

Log: Yes State: Active Privilege: 1–6

Summary for AUSM

Full Name

Configure port

Syntax

cnfport <port_num> <plpp loopback>

where:

<port_num>	range of values 1–4 for a 4 port card, 1–8 for an 8 port card
<plpp loopback>	1 = no loopback, 2 = remote loopback, 3 = local loopback

Related Commands

addport, **delport**, **dspport**, **dspports**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1

cnfportcllm

The **cnfportcllm** command configures the CLLM (Consolidated Link Layer Management) parameters for a specified port on the current card. Use CLLM pass ForeSight to another Cisco WAN Switching network using NNI.

Full Name

Configure port CLLM

Syntax

cnfportcllm<portNum><CLLMEN><CLLMTM>

where:

<portNum>	Specify port number: Values in the range 1 – 96 for a 4 port FRSM card (T1), 1–124 for a 4 port FRSM card (E1), 1–192 for an 8 port FRSM card (T1), 1–248 for an 8 port FRSM card (E1), or 1–4 for a 4 port FRSM HS1 or HS2 card or unchannelized E1 or T1 FRSM
<CLLMEN>	CLLM Enable is either 1 = Disable or 2 = Enable. Enables or disables Consolidated Link Layer Management messages.
<CLLMTM>	CLLM Timer is in the range 40–5000 ms. Sets the time between Consolidated Link Layer Management messages.

Related Commands

none

Cards on which the command executes

FRSM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfportq

The **cnfportq** command configures a port's queue parameters on the current AUSM. No messages appear on screen unless an error occurs.

Full Name

Configure port queue

Syntax

cnfportq <port_num> <q_num> <q_algo> <service_seq> <q_depth> <clp_high> <clp_low> <efci_thres>

where:

<port_num>	port_num is a port number in the range 1–4 for a 4 port card, 1–8 for an 8 port card
<q_num>	q_num is the queue number in the range 1–4: 1 is CBR 2 is ABR 3 is VBR and 4 is UBR
<q_algo>	q_algo is the queue algorithm in the range 1–5, 0 = disable queue
<service_seq>	service sequence defines the order in which the queues are serviced: sequence number in the range 1–16
<q_depth>	queue depth is the maximum queue depth in the range 1–8000 cells
<clp_high>	clp high is the queue depth at which Cell Loss Priority-tagged cells are dropped: the range is 1–8000 cells
<clp_low>	clp low is the queue depth at which Cell Loss Priority-tagged cells are no longer dropped: the range is 1–8000 cells
<efci_thres>	efci threshold is the queue depth at which EFCI bit tagging begins: the range is 1–8000 cells

Related Commands

dspportq, **dspportqs**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1

cnfpwd

The **cnfpwd** command configures a password. Prompts appear for the old and new passwords when the command is entered (without arguments).

Full Name

Configure password

Syntax

cnfpwd

then <old password>

then <new password>

then <new password again>

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

Example

```
cnfpwd
```

System Response

```
old password:

new password:

verify new password:
```

cnfsdlcport

Configures an SDLC port to a FRASM line. There is no corresponding **addsdlcport** command. An SDLC port is added using the **addport** command with a port type of SDLC STUN or SDLC FRAS. Likewise, there is no **delsdlcport**, an SDLC port is deleted using the **delport** command.

Full Name

Configure SDLC port

Syntax

cnfsdlcport <port number> <n1> <n2> <t1> :

<port number>	port number in the range 1–192 for T1
<n1>	maximum size, in bits, of an incoming frame in the range 1–12000
<n2>	number of retry attempts before an SDLC station terminates its session with the other station in the range 1–255
<t1>	time, in milliseconds, that the system waits for an ACK after sending a frame, before attempting recovery in the range 1–10000

Related Commands

dspsdlcport, **dspsdlcports**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–6

Example

```
cnfsdlcport 16 12000 100 10000
```

Description

Configures the SDLC port 16 so that the maximum frame size is 12000 bits, the maximum number of retries before aborting the session is 100, and the maximum wait for an ACK before attempting recovery is 10000 milliseconds.

cnfsdlcportmisc

Configures some miscellaneous SDLC port parameters to a FRASM line.

Full Name

Configure SDLC port miscellaneous

Syntax

cnfsdlcportmisc <port number> <sptimer> <frmdisable> <rnr><gpaddr> :

<port number>	port number in the range 1–192
<sptimer>	Slow poll timer in secs in the range 0 to 255.
<frmdisable>	FRMR disable, 1 = disable, 2 = enable
<rnr>	RNR limit in minutes in the range 0 to 30
<gpaddr>	Group poll address in the range 0 to 255

Related Commands

cnfsdlcport, dspsdlcport, **dspsdlcports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfsdlcportmisc 16 0 1 10 20
```

Description

Configures the SDLC port 16 with the slow poll timer set to zero, the FRMR disabled, an RNR limit of 10 minutes and a group poll address of 20.

cnfsdlcportopts

Configures some option SDLC port parameters to a FRASM line.

Full Name

Configure SDLC port options

Syntax

cnfsdlcportopts<port number> <simul> <window> <linespeed> :

<port number>	port number in the range 1–192
<simul>	Simultaneous mode, 1 = disable, 2 = fulldatamode, 3 = halfdatamode.
<window>	Window size in the range 1 to 7
<linespeed>	SDLC speed in bits/sec in the range 1200 to 2000000

Related Commands

cnfsdlcport, dspsdlcport, **dspsdlcports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfsdlcportopts 16 1 4 9600
```

Description

Configures the SDLC port 16 with simultaneous mode set to disables, a window size of 4 and a line speed of 9600 bits per second.

cnfsdlcportpoll

Configures some polling SDLC port parameters to a FRASM line.

Full Name

Configure SDLC port poll

Syntax

cnfsdlcportpoll<port number> <polllimit> <pollpause> <pollwait> :

<port number>	port number in the range 1–192
<polllimit>	Poll limit in the range 1 to 10.
<pollpause>	Poll pause in msecs in the range 1 to 10000
<pollwait>	Poll wait in msecs in the range 10 to 64000

Related Commands

cnfsdlcport, dspsdlcport, **dspsdlcports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnfsdlcportpoll 16 5 100 100
```

Description

Configures the SDLC port 16 with a poll limit of 5, a poll pause and a poll wait of 100 msecs.

cnfslftst

The **cnfslftst** command configures the self test routine on the current card.

Full Name

Configure self test

Syntax

cnfslftst -en <SelftestEnable> -tm <SelftestPeriod>

- <SelftestEnable>	Enable/disable self test, 1 = disabled, 2 = enabled.
- <SelftestPeriod>	Period, in minutes, between self tests in the range 1 – 60. (default is 1, or one minute between self tests)

Related Commands

clrslftst, **dspslftst**, **runslftstno**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: Any user

cnfslftststbysm

The **cnfslftststbysm** configures self test parameters for standby service modules.

Specifically, this command enables or disables self test and, if enabled, specifies the time period between consecutive self tests.

Full Name

Configure self test standby service modules

Syntax

cnfslftststbysm<enable|disable><period>

where:

<enable|disable>	self test enabled or disabled, 1 = disable, 2 = enable
<period>	Period, in minutes, between self tests in the range 1 – 60

Related Commands

dspslftststbysm

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: Any user

cnfsrmclksrc

The **cnfsrmclksrc** command selects the clock source from either the BNM or a SRM-3T3 T3 line.

Full Name

Configure SRM clock source

Syntax

cnfsrmclksrc -srmds3 <T3 line number> -srmclk <Source number>

where:

<T3 Line number>	SRM-3T3 T3 line number (range 1-3)
<Source number>	1: backplane clock for BMN, 2: recovery clock from T3 line

Related Commands

dspsrmclksrc

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active Privilege: 1

cnfsvcrange

The **cnfsvcrange** command configures switched virtual circuit resource parameters on the current AUSM8 card.

Full Name

Configure switched virtual circuit range

Syntax

cnfsvcrange<num_of_resource><resource_type><start_resource><port-num>

where:

<num_of_resource>	Number of resource in the range 1 – 256
<resource_type>	type of resource, enter LCN, VPID, or VPI
<start_resource>	The LCN, VPID, or VPI where search for contiguous range started. In the range of 16 – 1015 for LCN, 1 – 100 for STI VPID, 1 – 20 for UNI VPID, 1 – 340 for NNI VPID, 0 – 255 for VPI
<port-num>	logical port number

Related Commands

dspsvcrange

Cards on which the command executes

AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

cnfstatsmgr

The **cnfstatsmgr** command configures a new statistics manager.

Full Name

Configure statistics manager

Syntax

cnfstatsmgr <ip address>

<ip address	IP address by which the statistics manager is accessed. ip address = nnn.nnn.nnn.nnn, where n = 0–9 and nnn < 256

Related Commands

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 5

cnftime

The **cnftime** command configures the time. The shelf uses a 24 hour clock.

Full Name

Display time

Syntax

cnftime <hh:mm:ss>

Related Commands

cnfdate

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

```
cnftime 14:22:03
```

System Response

```
kanchend.1.3.ASC.a > cnftime 14:11:22
11/14/95-14:11:22 3  tDbgCmdTask 1220 informational        : TIME/DATE updated

11/14/95-14:11:22 3  StrataCom    0 cnftime 14:11:22
```

cnftmzn

The **cnftmzn** command configures the timezone in the shelf.

Full Name

Configure timezone

Syntax

cnftmzn <timezone>

where:

<timezone>	timezone is 1 for GMT, 2 for EST, 3 for CST, 4 for MST, 5 for PST

Related Commands

cnftime, **cnfdate, cnftmzngmt**

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

```
cnftmzn 3
```

Description

Configures the timezone in the shelf to U.S. Central Standard Time

cnftmzngmt

The **cnftmzngmt** command configures the timezone in the shelf relative to GMT.

Full Name

Configure timezone relative to GMT

Syntax

cnftmzngmt <timeoffsetGMT>

where:

<timeoffsetGMT>	TimeoffsetGMT is the offset in hours from GMT. Permissible values are in the range -12 to 12.

Related Commands

cnftime, **cnfdate, cnftmzn**

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

```
cnftmzngmt 4
```

Description

Sets time zone in the shelf to GMT plus 4 hours.

cnftrapmgr

The **cnftrapmgr** command enables or disables the trap manager function. If enabled, this command configures the number and IP address of the trap manager that is to receive traps. Trap managers which are added using the **addtrapmgr** command and later modified using the **cnftrapmgr** command will not age.

Trap managers which are added using the **cnftrapmgr** command or through the SNMP interface will age.

Once the trap manager is configured, the system does not display the configuration. Only errors in the configuration appear on screen.

Full Name

Configure/delete/add trap manager

Syntax

cnftrapmgr <-ip> <ip_addr> -pt <portnum> <MgrRowStatus> -tf <TrapFlag> -seq <SeqNum>

where:

- -ip ip_addr = nnn.nnn.nnn.nnn, n = 0-9, and nnn < 256
- MgrRowStatus = 1–3, 1: AddRow 2: DelRow 3: ModRow
- -tf <Trap Flag> = 1–2, 1: disabled 2: enabled
- -seq <SeqNum>

Related Commands

None

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

```
cnftrapmgr -ip 192.169.3.102 -pt 3 MgrRowStatus 1 -tf 1 -seq 00
```

System Response

```
cnftrapmgr -ip 192.169.3.102 -pt 3 MgrRowStatus 1 -tf 1 -seq 00
```

cnfupcabr

The **cnfupcabr** command configures a connection's bandwidth control parameters for the available bit rate (ABR) connection type on the current AUSM. No messages appear on screen unless an error occurs.

Full Name

Configure user parameter control available bit rate

Syntax

cnfupcabr <chan_num> <enable> <pcr[0+1]> <cdvt[0+1]> <scr> <scr_police> <mbs> <clp_tag>

where:

<chan_num>	chan_num is a channel number in the range 16–271 for 4 port cards, 16–1015 for 8 port cards
<enable>	enable is the enabled/disable for UPC: 1 = Disable, 2 = Enable
<pcr[0+1]>	pcr[0+1] is the peak cell rate: the range is 10–4670 cells per sec.
<cdvt[0+1]>	cdvt[0+1] is the cell delay variation tolerance [0+1]: the range is 1–250000 micro seconds
<scr>	scr is the sustained cell rate: the range is 1–4670 cells per second
<scr_police>	scr_police specifies the type of scr policing: 1 = CLP[0] Cells, 2 = CLP[0+1] Cells, and 3 = no SCR policing
<mbs>	mbs is the maximum burst size: the range is 1–5000 cells
<clp_tag>	clp_tag is the enable for CLP tagging: 1 = disable, 2 = enable

Related Commands

dspcon, **dspcons**, **cnfupcabr**, **cnfupcvbr**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfupccbr

The **cnfupccbr** command configures a connection's bandwidth control parameters for the constant bit rate (CBR) connection type on the current AUSM. No messages appear on screen unless an error occurs.

Full Name

Configure user parameter control constant bit rate

Syntax

cnfupccbr <chan_num> <enable/disable> <pcr[0+1]> <cdvt[0+1]> <pcr[0]> <cdvt[0]> <clp_tag>

where:

<chan_num>	chan_num is a channel number in the range 16–271 for 4 port cards, 16–1015 for 8 port cards.
<enable/disable>	enable/disable the UPC: 1 = disable, 2 = enable.
<pcr[0+1]>	PCR [0+1] is peak cell rate: the range is 10–4670.
<cdvt[0+1]>	CDVT[0+1] is Cell Delay Variation tolerance [0+1]: range is 1–250000 micro seconds.
<pcr[0]>	PCR [0] is peak cell rate: the range is 10–4670.
<cdvt[0]>	CDVT[0] is Cell Delay Variation tolerance [0]: the range is 1–250000 micro seconds.
<clp_tag>	clp_tag is Clp Tagging enable/disable: 1 = disable, 2 = enable.

Related Commands

dspcon, **dspcons**, **cnfupcabr**, **cnfupcvbr**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfupcubr

The **cnfupcubr** command configures usage parameter control (upc) and unspecified bit rate (ubr) parameters on the current AUSM card.

Full Name

Configure upc and ubr

Syntax

cnfupcubr<chan_num><enable><pcr[0–1}><cvdt[0 – 1]><IngPcUtil><clp_tag>

where:

<chan_num>	channel number in the range 16–271 for 4 port cards, 16–1015 for 8 port cards
<enable>	enable or disable upc in the range 1 – 2, 1 = disable, 2 = enable.
<pcr[0 – 1]>	peak cell rate in the range 10 – N (N = 3622 for T1, 4528 for E1, 4830 for clear E1). For IMA groups, multiply rate by number of links.
<cvdt[0 – 1]>	cell delay variation tolerance in the range of 1 – 250000 microseconds
<IngPcUtil>	Ingress percentage utilization in the range 1 – 100 (0 = default)
<clp_tag	CLP tag enable in the range 1 – 2, 1 = disable, 2 = enable

Related Commands

dspupc

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

cnfupcvbr

The **cnfupcvbr** command configures a channel's bandwidth control parameters for a variable bit rate (VBR) connection type on the current AUSM. No messages appear on screen unless an error occurs.

Full Name

Configure user parameter control variable bit rate

Syntax

cnfupcvbr <chan_num> <enable> <pcr[0+1]> <cdvt[0+1]> <scr> <scr_police> <mbs> <clp_tag>

where:

<chan_num>	chan_num is a channel number in the range 16–271 for 4 port cards, 16–1015 for 8 port cards.
<enable>	enable is the enabled/disable for UPC: 1 = Disable, 2 = Enable.
<pcr[0+1]>	pcr[0+1] is the peak cell rate: the range is 10–4670 cells per sec.
<cdvt[0+1]>	cdvt[0+1] is the cell delay variation [0+1]: range is –250000 micro seconds.
<scr>	scr is the sustained cell rate: the range is 1–4670 cells per second.
<scr_police>	scr_police specifies the type of scr policing: 1= CLP[0] Cells, 2 = CLP[0+1] Cells, and 3 = no SCR policing.
<mbs>	mbs is the maximum burst size: the range is 1–5000 cells.
<clp_tag>	clp_tag is the enable for CLP tagging: 1 = disable, 2 = enable.

Related Commands

dspcon, **dspcons**, **cnfupcabr**, **cnfupccbr**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

copychans

The **copychans** command copies a channel configuration to one or more channels. The purpose of this command is to create and configure multiple channels from the channel that serves as a template.

Full Name

Copy channels

Syntax

copychans <template chan #> <start chan #> <start dlci> <# of chans>

where:

<template chan #>	template channel number
<start chan #>	start channel number
<start dlci>	start dlci for FRSM, start vpi for AUSM as per VCC/VPC
<# of chans>	number of channels

Related Commands

delchan, **delchans**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Active Privilege: 1

copyports

The **copyports** command copies a port configuration to one or more ports. The purpose of this command is to create and configure multiple ports from a single port that serves as a template.

Full Name

Copy ports

Syntax

copyports <template port #> <start port #> <start time slot> <# of ports>

where:

<template port #>	template port number is the number of the port to be copied
<start port #>	start port number is the port to be copied
<start time slot>	start time slot is the starting time slot in the port to be copied
<# of ports>	number of ports is the number of contiguous time slots to be copied

Related Commands

addport, delport, **delports**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Active Privilege: 1

delaimgrp

This command deletes an AIMUX group.

Full Name

Delete AIMUX group

Syntax

delaimgrp <aimux_grp>

where:

<aimux_grp>	AIMUX group number to be deleted (1..8)

Related Commands

addaimgrp, **cnfaimgrps**, **dspaimgrp**, **dspaimgrps**

Cards on which the command executes

IM-ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

Example

`delaimgrp` “2” (deletes AIMUX group 2)

delbert

The **delbert** command deletes the current bit error rate test.

Full Name

Delete Bit Error Rate Test

Syntax

delbert

Related Commands

dspbert, **startbert**, **modbert**, **cnfbert**

Cards on which the command executes

ASC

Example

```
AXISNAME.1.3.ASC.a > delbert
```

System Response

```
Deleting the test in progress...
Done.
```

delbstungroup

This command deletes a BSTUN protocol group.

Full Name

Delete BSTUN Protocol Group

Syntax

delbstungroup <group_num> :

<group_num>	number by which the group is to be known in the range 1–255

Related Commands

addbstungroup, **dspbstungroup**, **dspbstungroups**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delbstungroup 2
```

Description

Deletes a BStun Protocol Group number 2.

delbstunport

This command deletes a BSTUN port.

For more information about using BSTUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Delete BSTUN Port

Syntax

delbstunport <port_num> :

<port_num>	port number in the range 1–192 for T1

Related Commands

addbstunport, **dspbstunport**, **dspbstunports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delbstunport 2
```

Description

Deletes BSTUN port 2.

delbstunroute

This command deletes a BSTUN route.

Full Name

Delete BSTUN Route

Syntax

delbstunroute <port_num> <cuaddress> :

<port_num>	port number of the BSTUN connection to be routed in the range 1–192
<cuaddress>	address of the BSC CU in the range 1–255

Related Commands

addbstunroute, **dspbstunroute**, **dspbstunroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delbstunroute 69 3
```

Description

Deletes the BSTUN route on port 69 with an cuaddress of 3.

delcfgsys

Full Name

Delete Configuration Systems

Syntax

delcfgsys <filename>.fw

Related Commands

addcfgsys, dspcfgsys

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser (0)

delchan

Deletes a frame relay channel.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Delete channel

Syntax

delchan <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

dspchan, **addchan**, **cnfchan**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: Yes State: Active Privilege: 1–2

delchanloop

Delete a channel loopback from the current FRSM, CESM, or AUSM.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Delete a channel loopback

Syntax

delchanloop <chan_num>

where:

<chan_num>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

addchanloop, **tstcon**, **tstdelay**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: Yes State: Active Privilege: 1–4

delchans

The **delchans** command deletes a range of frame relay or ATM channels.

Full Name

Delete channels

Syntax

delchans <start chan #> <# of chans>

where:

<start chan #>	start channel number
<# of chans>	number of channels to delete

Related Commands

none

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Active Privilege: 1

delcon

Deletes a connection from an AUSM.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Delete a connection

Syntax

delcon <connection number>

where:

<connection number>	connection number is in the range 16–271 for a 4 port card, 16–1015 for an 8 port card

Related Commands

addcon, **dspcons**, **dspcon**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

delfrasbnnroute

This command deletes a FrasBNN route.

Full Name

Delete FrasBNN Route

Syntax

delfrasbnnroute <port_num> <lsaddress> :

<port_num>	Port number of the FrasBNN connection to be routed in the range 1–192 for T1, 1–248 for E1.
<lsaddress>	Address of the BSC LS in the range 1–254.

Related Commands

addfrasbnnroute, **dspfrasbnnroute**, **dspfrasbnnroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delfrasbnnroute 69 3
```

Description

Deletes the FrasBNN route on port 69 with an lsaddress of 3.

delfwrev

Deletes the current revision level of the firmware in the MGX 8220 shelf.

Full Name

Delete firmware revision

Syntax

delfwrev <line#> <1st_DS0> <DLCI>

where:

<line#>	line number is in the range 1–4
<1st_DS0>	1st_DS0 is in the range of 1–24 for T1, 1–32 for E1
<DLCI>	DLCI is the connection for which the statistics are to be displayed

Related Commands

dspfwrevs

Cards on which the command executes

ASC

Attributes

Log: Yes State: Any Privilege: Superuser (0)

Example 1

delfwrev

System Response

A typical response is shown below:

dellink

The **dellink** command deletes a link between a T1 line within a T3 line on a SRM-3T3 card and a slot and line number on a T service module.

Full Name

Delete link

Syntax

dellink <T3 line number> <T1 line number> <Number of T1s>

where:

<T3 Line number>	SRM-3T3 T3 line number (range 1–3)
<T1 line number>	start T1 line number within the T3 line (range 1–28)
<Number of T1s>	number of T1s to be deleted (range 1–28)

Related Commands

dsplink, **addlink**

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active Privilege: 1

dellmiloop

This command removes LMI from loopback state for the current card. This enables Annex-G ATM LMI.

Full Name

Delete LMI loop

Syntax

dellmiloop

Related Commands

addlmiloop, dsplmiloop

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 0

Example

```
shelf.1.3.ASC.a > dellmiloop
```

delln

The **delln** command deletes a line from the current card.

Full Name

Delete line

Syntax

delln <line number>

where:

<line number>	Line number to be deleted: 1–4 for 4 port cards, 1–8 for 8 port cards, 1–3 for SRM-3T3 cards

Related Commands

dspln, **addln**, **cnfln**

Cards on which the command executes

FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delln 4
```

Description

Delete line 4 from the current card.

System Response

No system response unless an error occurs.

dellnloop

This command removes a T1 or E1 line loopback state for the current card.

Full Name

Delete line loop

Syntax

dellnloop <line number>

where:

<line number>	value from 1–4 used for four port cards, 1–8 used for eight port cards

Related Commands

addlnloop

Cards on which the command executes

AUSM, IM-ATM, FRSM, CESM

Attributes

Log: Yes State: Active Privilege: 1

dellnsfmaimgrp

This command deletes lines to an existing AIMUX group.

Full Name

Deletes lines from an AIM group

Syntax

dellnsfmaimgrp <aimux_grp> <list_of_lines>

where:

<aimux_grp>	AIMUX group from which lines should be deleted (1..8)
<list_of_lines>	list of lines to be deleted from the AIMUX group separated by dots

Example: **dellnsfmaimgrp** “2 3.5” (Deletes lines 3 and 5 from AIMUX group “2”.)

Related Commands

addlns2aimgrp

Cards on which the command executes

IM-ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

dells

This command deletes an SDLC LS (Link Station).

Full Name

Delete SDLC LS Station

Syntax

dells <port_num> <lsaddress> :

<port_num>	port number in the range 1–192 for T1, 1–248 for E1
<lsaddress>	LS address in the range 0x01–0xFE (0xFF for STUN)

Related Commands

addls, **cnfls**, **dspls**, **dsplss**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dells 2 2
```

Description

Deletes an SDLC Link Station on port 2 with an Link Station address of 2.

delport

The **delport** command deletes a port from an FRSM, or CESM.

No messages appear on screen with successful completion of this command.

Full Name

Delete port

Syntax

delport <port-number>

where:

<port_num>	port number in the range 1–96 for four port T1, 1–124 for four port E1, 1–192 for eight port T1, 1–248 for eight port E1

Related Commands

addport, **cnfport**, **dspport**, **dspports**

Cards on which the command executes

FRSM, CESM

Attributes

Log: Yes State: Active Privilege: 1

delports

The **delports** command deletes a specified number of contiguous port configurations.

Full Name

Delete ports

Syntax

delports <start port #> <# of ports>

where:

<start port #>	start port number is the port to be deleted. Port number in the range 1–96 for four port T1, 1–124 for four port E1, 1–192 for eight port T1, 1–248 for eight port E1
<# of ports>	number of ports is the number of contiguous time slots to be deleted

Related Commands

copyports

Cards on which the command executes

FRSM, CESM

Attributes

Log: No State: Active Privilege: 1

delred

Delete a redundancy link for the specified primary MGX 8220 slot.

Full Name

Delete redundancy

Syntax

delred <PrimarySlotNumber>

where:

<PrimarySlotNumber>	MGX 8220 slot number for which the link to a redundant secondary slot is to be deleted. Range = 5–14

Related Commands

dspred, **addredr**

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

delslotlnk

The **delslotlnk** command deletes SRM-3T3 link information for a specified slot.

Full Name

Delete slot link

Syntax

delslotlnk <slot number> <line number>

where:

<slot number>	Slot number for which the link is to be deleted. Range is 5 through 14.
<line number>	Line number of the link to be deleted. Range is 0 through 8. If the line number is set to zero, all links in the slot are deleted.

Related Commands

dspslotlnk

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active Privilege: 1

delstungroup

This command deletes a STUN protocol group.

Full Name

Delete STUN Protocol Group

Syntax

delstungroup <group_num> :

<group_num>	number of STUN group to delete in the range 1–255

Related Commands

addstungroup, **dspstungroup**, **dspstungroups**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delstungroup 2
```

Description

Deletes a STUN Protocol Group number 2

delstunport

This command deletes a STUN port.

For more information about using STUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Delete STUN Port

Syntax

delstunport <port_num> :

<port_num>	port number in the range 1–192 for T1, 1–248 for E1

Related Commands

addstunport, **dspstunport**, **dspstunports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delstunport 2
```

Description

Deletes STUN port 2.

delstunroute

This command deletes a STUN route.

Full Name

Delete STUN Route

Syntax

delstunroute <port_num> <lsaddress> :

<port_num>	port number of the STUN connection to be routed in the range 1–192 for T1, 1–248 for E1
<lsaddress>	address of the SDLC LS in the range 1–255

Related Commands

addstunroute, **dspstunroute**, **dspstunroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
delstunroute 69 3
```

Description

Deletes the STUN route on port 69 with an lsaddress of 3.

deltrapmgr

Delete a trap manager associated with a specified IP address.

Full Name

Delete Trap Manager

Syntax

deltrapmgr <ipaddr>

where:

<ipaddr>	IP address of the trap manager to delete. In the form of nnn.nnn.nnn.nnn where n = 0–9 and nnn is less than 256.

Related Commands

addtrapmgr, cnftrapmgr, dsptrapmgr, dsptrapmgrs

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

deluser

Delete a user from the list of users that can log onto the shelf. The system does not allow you to delete a user with a privilege level higher than the level at which you execute the command. For example, if the current user privilege is 2, you cannot delete a user at level 1. No screen output appears unless an error in the input occurred.

Full Name

Delete user

Syntax

deluser <user ID> <privilege level>

where:

<user ID>	Name for the user.
<privilege level>	Access privilege of the user. This privilege level can be no higher than the level of the user that is entering this command.

Related Commands

dspusers, **adduser**

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

dncon

The **dncon** command temporarily downs a connection. The typical purpose of **dncon** is some form of operational modification or troubleshooting. You can subsequently up the connection with **upcon**.

Full Name

Down Connection

Syntax

dncon <slot >.<port>.<vpi>.<vci>

where the connection specification has the format *slot.port.vpi.vci*.

Related Commands

upcon

Cards on Which This Command Executes

AUSM

Attributes

Log: No State: Active Privilege: 1

dnport

The **dnport** command downs a port. No messages appear on screen unless an error occurs.

Full Name

Down port

Syntax

dnport <PortNum>

where:

<PortNum>	PortNum = 1–4 for a 4 port card, 1–8 for an 8 port card

Related Commands

upport

Cards on which the command executes

AUSM

Attributes

Log: No State: Active Privilege: 1

donotupdatestandby

Full Name

Do not update standby

Syntax

donotupdatestandby

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 0

dspadrxlat

The **dspadrxlat** command displays the address translation table.

Full Name

Display address translation table

Syntax

dspadrxlat

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: Any User

Example 1

```
dspadrxlat
```

System Response

A typical response is shown below:

dspaimgrp

This command displays detailed status and configuration information for a specified AIMUX group.

Full Name

Display AIM Group Status and Configuration

Syntax

dspaimgrp <aimux_grp>

where:

<aimux_grp>	AIMUX group number for the group to be displayed (range is 1..8)

Related Commands

addaimgrp, **delaimgrp**, **cnfaimgrps**, **dspaimgrps**

Cards on which the command executes

IM-ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

dspaimgrpcnt

This command displays all the AIMUX related counters for a line in an AIMUX group.

Full Name

Display AIM group count

Syntax

dspaimgrpcnt <aimux_grp> <line_num>

where:

<aimux_grp>	AIMUX group number (range is 1..8)
<line_num>	line number (range is 1..8)

Related Commands

clraimgrpcnt

Cards on which the command executes

IM-ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

dspaimgrps

This command displays the status and configuration information for all current AIMUX groups.

Full Name

Display Status and Configuration of All AIM Groups

Syntax

dspaimgrps

Related Commands

addaimgrp, **delaimgrp**, **cnfaimgrps**, **dspaimgrp**

Cards on which the command executes

IM-ATM, AUSM8

Attributes

Log: Yes State: Active Privilege: 1–2

dspaimlncnt

This command displays all the AIMUX line counters for the specified line in an IMA trunk.

Full Name

Display AIM (or Display IMA) line count

Syntax

dspaimlncnt <aimux_grp> <line_num>

where:

<aimux_grp>	AIMUX group number (range is 1..8)
<line_num>	line number (range is 1..8)

Related Commands

clraimlncnt, **clrimalncnt**, **dspimalncnt**

Cards on which the command executes

AUSM8, IM-ATM

Attributes

Log: No State: Active Privilege: 1

dspalm

The **dspalm** command displays the alarms for a line.

Full Name

Display alarms for a line

Syntax

dspalm <-ds3> | <-e3> |<plcp> | <-ds1> | <-srmds3> <LineNum>

for

-ds1, <LineNum> is in the range 1–4 for a four port card, 1–8 for an eight port card

-ds3, <LineNum> = 1

-e3, <LineNum> = 1

-plcp, <PLCPNum> = 1
-srmds3, <LineNum> is in the range 1–3

For an MGX 8220 shelf with a BNM-155, the syntax is:

dspalm -sonet

Related Commands

clralm, **dspalms**

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Active Privilege: 1–6

Example 1

```
dspalm -plcp 1
```

Description

On an ASC, display any alarm on the PLCP line.

System Response

```
PLCPNum:                   1
PLCPAlarmState:            No Alarm
PLCPStatisticalAlarmState: No Statistical Alarms
```

Example 2

dspalm -sonet

Description

On an ASC, display any alarm on the BNM-155 SONET line.

System Response

```
LineNum:
SectionCurrentStatus:
SectionStatAlarmStatus:
LineCurrentStatus:
LineStatAlarmStatus:
PathCurrentStatus:
PathStatAlarmStatus:
```

Example 3

dspalm -ds1 5

Description

On a CESM 8 card, display any alarm on line 5.

System Response

```
LineNum:                   5
LineAlarmState:            Alarm(s) On -- RcvLOS
LineStatisticalAlarmState: No Statistical Alarms
```

dspalmcnf

The **dspalmcnf** command displays the threshold information about the alarm statistics being collected.

Full Name

Display alarm configuration

Syntax

dspalmcnf <-ds3 LineNum> | <-e3 LineNum> | <-plcp PLCPNum> | <-ds1 LineNum> | <-srmds3 LineNum>

where:

On an ASC (BNM-T3), <LineNum> and <PLCPNum> = 1

On an FRSM or AUSM, <LineNum> is in the range 1–4 for a 4 port card, 1–8 for an 8 port card

On an SRM-3T3, <LineNum> is in the range 1–3

For an ASC and the shelf configured with a BNM-155, the syntax is:

dspalmcnf -sonetsec <SectionLineNum> | -sonetline<LineLineNum> | -sonetpath <PathLineNum>

Related Commands

dspalm, **dspalms**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No State: Active Privilege: 1–6

Example 1

```
dspalmcnf -ds1 1
```

Description

Display the alarm configuration for line 4 on the current FRSM (slot 7 in this example).

System Response

```
           Severity   AlarmUpCount  AlarmDnCount  AlarmThreshold
     Line  Red / RAIS    NE / FE       NE / FE       NE  /  FE
     ---- ----- -----  ----- -----   ----- -----    ----- -----
     7.4  Major/Minor      6/1        1500/6            1/1500
```

Example 2

```
dspalmcnf -ds3 1
```

Description

Display the alarm configuration for the current ASC.

System Response

```
LineNum:                  1
RedSeverity:              Major
RAISeverity:              Minor
NEAlarmUpCount:           6
NEAlarmDnCount:           1
NEAlarmThreshold:         150
FEAlarmUpCount:           6
FEAlarmDnCount:           1
FEAlarmThreshold:         150
StatisticalAlarmSeverity: Minor
LCV15minThreshold:        3870
LCV24hrThreshold:         38650
LES15minThreshold:        86
LES24hrThreshold:         864     PSES24hrThreshold:        40
LSES15minThreshold:       4       SEFS15minThreshold:       120
LSES24hrThreshold:        40      SEFS24hrThreshold:        1200
PCV15minThreshold:        382     AISS15minThreshold:       120
PCV24hrThreshold:         3820    AISS24hrThreshold:        1200
PES15minThreshold:        86      UAS15minThreshold:        120
PES24hrThreshold:         864     UAS24hrThreshold:         1200
PSES15minThreshold:       4
```

Example 3

```
dspalmcnf -sonetsec 1
```

Description

Display the alarm configuration for the current ASC for SONET section 1 on BNM-155.

System Response

```
SonetSectionLineNum:
SonetSectionStatAlarmSeverity:
SonetSectionCurrent15minESsThreshold:
SonetSectionCurrentDayESsThreshold:
SonetSectionCurrent15minSESsThreshold:
SonetSectionCurrentDaySESsThreshold:
SonetSectionCurrent15minSEFSsThreshold:
SonetSectionCurrentDaySEFSsThreshold:
SonetSectionCurrent15minCVsThreshold:
SonetSectionCurrentDayCVsThreshold:
SonetSectionTraceSel:
SonetSectionTraceToTx:
SonetSectionTraceToExpect:
SonetSectionTraceToRx:
```

dspalmcnt

The **dspalmcnt** command displays the alarm counters and statistics.

Full Name

Display alarm count

Syntax

dspalmcnt

Syntax ASC for BNM-T3:

dspalmcnt -ds3 <LineNum>

-ds3 <LineNum> where LineNum = 1–n, n = 1 if BNM

or

dspalmcnt -e3 <LineNum>

-e3 <LineNum> where LineNum = 1–n, n = 1 if BNM

or

dspalmcnt -plcp <PLCPNum>

-plcp <PLCPNum> where PLCPNum = 1–n, n = 1 if BNM

Syntax ASC for BNM-155:

dspalmcnt -sonet <LineNum>

Syntax FRSM, AUSM, IM-ATM, CESM:

dspalmcnt -ds1 <LineNum>

-ds1 <LineNum> where LineNum = 1–4 for 4 port card, 1–8 for 8 port card

Related Commands

clralmcnt, **clralmcnts**

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Active Privilege: 1–6

Example 1

dspalmcnt -ds3 1

Description

Display alarm count for line 1 of an ASC.

System Response

```
LineNum:             1
LCVCurrent:          0
LCVLast15minBucket:  0
LCVLast24hrBucket:   0
LESCurrent:          0
LESLast15minBucket:  0
LESLast24hrBucket:   0
LSESCurrent:         0
LSESLast15minBucket: 0
LSESLast24hrBucket:  0
PCVCurrent:          0
PCVLast15minBucket:  0
PCVLast24hrBucket:   0
PESCurrent:          0
PESLast15minBucket:  0
PESLast24hrBucket:   0
PSESCurrent:         0
PSESLast15minBucket: 0
PSESLast24hrBucket:  0
SEFSCurrent:         0
SEFSLast15minBucket: 0
SEFSLast24hrBucket:  0
AISSCurrent:         0
AISSLast15minBucket: 0
AISSLast24hrBucket:  0
UASCurrent:          0
UASLast15minBucket:  0
UASLast24hrBucket:   0
PercentEFS:          100
RcvLOSCount:         1
RcvOOFCount:         1
RcvRAICount:         4
RcvCCVCount:         0
RcvFECount:          0
```

Example 2

dspalmcnt -ds1 1

Description

Display alarms and counters for line 1 on the current FRSM.

System Response

```
Line  RcvLOSCount  RcvOOFCount  RcvRAICount  RcvFECount
----  -----------  -----------  -----------  ----------
11.1            1            2           17           2
```

Example 3

dspalmcnt -sonet 1

Description

Display alarms and counters for line 1 on the BNM-155.

System Response

```
SectionCurrentValidFlag:         LineCurrentValidFlag:        PathCurrentValidFlag:
SectionCurrent15minTimeElapsed:  LineCurrent15minTimeElapsed: PathCurrent15minTimeElapsed:
SectionCurrentESs:               LineCurrentESs:              PathCurrentESs:
SectionCurrentSESs:              LineCurrentSESs:             PathCurrentSESs:
SectionCurrentSEFSs:             LineCurrentCVs:              PathCurrentCVs:
SectionCurrentCVs:               LineCurrentUASs:             PathCurrentFCs:
SectionCurrentDayValidFlag:      LineCurrentDayValidFlag:     PathCurrentUASs:
SectionCurrentDayESs:            LineCurrentDayESs:           PathCurrentDayValidFlag:
SectionCurrentDaySESs:           LineCurrentDaySESs:          PathCurrentDayESs:
SectionCurrentDaySEFSs:          LineCurrentDayCVs:           PathCurrentDaySESs:
SectionCurrentDayCVs:            LineCurrentDaySEFSs:         PathCurrentDayCVs:
SectionCounterLOSs:              LineCounterAISs:             PathCurrentDayFCs:
SectionCounterLOFs:              LineCounterRFIs:             PathCurrentDaySEFSs:
                                                              PathCounterAISs:
                                                              PathCounterRFIs:
```

Example 4

dspalmcnt -ds1 5

Description

Display alarms and counters for line 5 on the current CESM.

System Response

```
Line  RcvLOSCount  RcvOOFCount  RcvRAICount  RcvFECount
----  -----------  -----------  -----------  ----------
 9.5       1            2           17           2
```

dspalms

The **dspalms** command displays the alarms on the card.

Full Name

Display all alarms on a card

Syntax

dspalms -<lineType>

where:

-<lineType>	lineType can be ds3, plcp, ds1, or srmds3

For MGX 8220 shelf configured with a BNM-155, the syntax is:

dspalms -sonet (the resulting display is the same as for the **dspalm** command)

Related Commands

dspalm

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No State: Active Privilege: 1–6

Example

```
dspalms -ds1 7
```

Description

Display alarms on the current FRSM (slot 7, in this case)

System Response

```
Line  AlarmState   StatisticalAlarmState
----  -----------  ---------------------
7.1   Alarm(s) On  No Statistical Alarms
7.2   No Alarms    No Statistical Alarms
7.3   No Alarms    No Statistical Alarms
7.4   No Alarms    No Statistical Alarms
```

dspbert

The **dspbert** command displays the status of the current bit error rate test.

Full Name

Display Bit Error Rate Test

Syntax

dspbert

where:

interface format is

Related Commands

cnfbert, **startbert**, **modbert**, **delbert**

Cards on which the command executes

ASC

Example

```
AXISNAME.1.3.ASC.a > dspbert
```

System Response

```
User :                  SuperUser
Start Date :            01/29/97
Current Date :          01/29/97
Start Time :            06:51:14
Current Time :          06:51:18
Physical Slot Number : 8
Logical Slot Number :  8
Line Number :           1
Port Number :           25 (Port test)
DS0 Speed :             56K
Test Type :             BERT Pattern Test
Device Looped :         Latching CSU Device
BERT Pattern :          2^9 Pattern
Bit Count :             173544
Bit Error Count :       6
Error Inject Count :    1

BERT is in sync.
```

dspbnmcnt

The **dspbnmcnt** command displays the cell counters on the BNM.

Full Name

Display BNM cell counter

Syntax

dspbnmcnt

Related Commands

clrbnmcnt

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

Example

dspbnmcnt

Description

```
 Port  RcvCells    XmtCells

   1    17319744    33521472
```

System Response

```
    PortCounterNumOfValidEntries:  1
    CellbusXmtCellCount:           147842
    CellbusNoAckCellCount:         147812
    CellbusGrantCount:             158267
    EgressXmtCellCountDuringAlarm: 16
    EgressInvalidCellCount:        10424
    EgressInvalidCellHdr:          0
    IngressInvalidCellCount:       0
    IngressInvalidCellHdr          0
```

dspbnmif

The **dspbnmif** command displays the interface format (STI, UNI, or NNI) for the BNM-155 trunk card.

Full Name

Display BNM Interface

Syntax

dspbnmif

Related Commands

cnfbnmif

Cards on which the command executes

ASC

Example

```
shelf.1.3.ASC.a > dspbnmif
```

System Response

The system responds by displaying the BNM line interface format.

```
bnmLineInterfaceFormat:  bnmSti
```

dspbscport

Displays an existing BSC STUN port from a FRASM line.

Full Name

Displays BSC STUN port

Syntax

dspbscport <port number> :

<port number>	port number in the range 1–192 for T1, 1–248 for E1

Related Commands

addbscport, **dspbscports**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–6

Example 1

```
dspsdlcport 69
```

Description

Displays the current configuration settings for the BSC port 69. A typical display is shown below.

PortNum:	69
RowStatus:	Add
Role:	Primary
Pause:	10
Serv Lim:	3
Poll Time Out:	10
Recovery Retries:	5

dspbscports

Displays the configuration of all existing BSC STUN FRASM ports.

Full Name

Displays BSC STUN ports

Syntax

dspbscports

Related Commands

addbscport, **dspbscport**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–6

Example

```
dspsdlcports
```

Description

Displays the current configuration settings for each existing BSC port. A typical display for a single port is shown below.

Port	Status	Role	Pause	ServLim	PollTimeOut	Retries
69	Add	Prim	10	3	10	5

Number of BSC ports: 1

dspbscportcnt

This command displays the current values of the BSC counters for a specified port.

Full Name

Display BSC port count.

Syntax

dspbscportcnt <port_num> :

<port_num>	port number to display the current values of the BSC counters for; in the range 1–192 for T1, 1–248 for E1

Related Commands

clrbscportcnt

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example 1

```
dspbscportcnt 12
```

Description

Displays the ls counter values for port 12 and logical address 0x01.

A typical display is shown below.

UnknownCUReceived	1
SoftErrors	2
HardErrors	0
Protocol Violations	0

dspbsccucount

This command displays the current values of the BSC CU counters for a specified port and CU address.

Full Name

Display BSC CU count.

Syntax

dspbsccucount <port_num> <cuaddress> :

<port_num>	port number of the port to display the current values of the BSC CU counters for in the range 1–192 for T1, 1–248 for E1
<cuaddress>	address of the controller unit in the range 0x01–0xFE

Related Commands

clrbsccucount

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

dspbsccucount 12 0x01

Description

Displays the BSC CU counter values for port 12 and CU address 0x01. A typical display is shown below.

Address	231
State	2
BytesSent	4748
BytesReceived	2387
TotalFramesSent	12
TotalFramesReceived	8
DataFramesSent	4
DataFramesReceived	3
SoftErrors	1
HardErrors	0
ProtocolViolations	0

dspbstungroup

This command displays a BSTUN protocol group.

Full Name

Display BSTUN Protocol Group

Syntax

dspbstungroup <group_num> :

<group_num>	number by which the group is to be known in the range 1–255

Related Commands

addbstungroup, **delbstungroup**, **dspbstungroups**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspbstungroup 2
```

Description

Displays the current configuration settings for BSTUN group number 2. A typical display is shown below.

GroupNum:	2
Type:	BSC
LocalAck:	True

dspbstungroups

This command displays all currently active BSTUN protocol groups.

Full Name

Display BSTUN Protocol Groups

Syntax

dspbstungroups

Related Commands

addbstungroup, **delbstungroup**, **dspbstungroup**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspbstungroups
```

Description

Displays the current configuration settings for each existing BSTUN group. A typical display for a single port is shown below

.

Group Num	Type
2	BSC

Number of BSTUN protocol groups: 1

dspbstunport

This command displays a BSTUN port.

For more information about using BSTUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Display BSTUN Port

Syntax

dspbstunport <port_num> :

<port_num>	port number in the range 1–192 for T1, 1–248 for E1

Related Commands

addbstunport, **delbstunport**, **dspbstunports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspBStunport 2
```

Description

Displays BSTUN port 2.

dspbstunports

This command displays all currently active BSTUN ports.

For more information about using BSTUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Display BSTUN Ports

Syntax

dspbstunports

Related Commands

addbstunport, **delbstunport**, **dspbstunport**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspbstunports
```

dspbstunroute

This command displays the parameter values for a BSTUN route.

Full Name

Display BSTUN Route

Syntax

dspbstunroute <port_num> <cuaddress> :

<port_num>	port number of the BSTUN route to be displayed in the range 1–192 for T1, 1–248 for E1
<lsaddress>	address of the BSC CU in the range 1–255

Related Commands

addbstunroute, **delbstunroute**, **dspbstunroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspbstunroute 69 3
```

Description

Displays the BStun Route for port 69, cuaddress of 3.

A typical display is shown below.

PortNum:	69
RowStatus:	Add
Cuaddress:	3
Chan Num:	69
LSAP:	5
LocalAck:	true

dspbstunroutes

This command displays the parameter values for all current BSTUN routes.

Full Name

Display BSTUN Routes

Syntax

dspbstunroutes

Related Commands

addbstunroute, **delbstunroute**, **dspbstunroute**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspbstunroutes
```

Description

A typical display is shown below.

Port	Status	Address	Channel (LCN)	LSAP
69	Add	3	69	5

Number of BSTUN routes: 1

dspbufoverflow

This command displays the data receive buffer overflow amount.

Full Name

Displays buffer overflow

Syntax

dspbufoverflow

Related Commands

Cards on which the command executes

FRSM

Attributes

Log: No State: Any Privilege: 0

Example

nsaxis1.1.7.FRSM.a > dspbufoverflow

Description

A typical display is shown below.

```
Data Receive Buffer Overflow:  0x00000000
```

dspclksrc

The **dspclksrc** command displays the current clock source.

Full Name

Display current clock source

Syntax

dspclksrc

Related Commands

cnfclksrc

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

Example

dspclksrc

Description

Displays the current clock source for the MGX 8220 shelf.

System Response

```
PrimaryClockSource:   Internal Oscillator
SecondaryClockSource: External T1/E1 from C.O.
CurrentClockSource:   Internal Oscillator
ClockSwitchState:     NoChange
ExtClkPresent:        Not Present
ExtClkSrcImpedance:   75 ohms
ExtClkConnectorType:  BNC
```

dspcd

This command displays characteristics of the current card's hardware and firmware and information on its status. Card characteristics include serial number and hardware and firmware revision levels. Status may include the reason for the last reset (FunctionModuleRestReason) and state of the integrated alarm (cardIntegratedAlarm), which can be useful in debugging the card or the BPX 8650 switch, respectively. Some of the information is common to the **version** command display, but **version** shows boot code version in bold.

Full Name

Display card

Syntax

dspcd

Related Commands

cnfcd, **dspcds**, **version**

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspcd

Description

On an AUSM:

System Response

```
    ModuleSlotNumber:          14
    FunctionModuleState:       Active
    FunctionModuleType:        AUSM-4T1
    FunctionModuleSerialNum:   FNTYPE
    FunctionModuleHWRev:       fk
    FunctionModuleFWRev:       model-A 2.0.00
    FunctionModuleResetReason: Reset by ASC from PIO
    LineModuleType:            LM-DB15-4T1
    LineModuleState:           Present
    mibVersionNumber:          4
    configChangeTypeBitMap:    CardCnfChng, LineCnfChng
    cardIntegratedAlarm:       Minor
    cardMinorAlarmBitMap:      Channel failure

  MGX 82203.1.14.AUSM.a >
```

Example 2

dspcd

Description

On an ASC:

System Response

```
ModuleSlotNumber:          4
FunctionModuleState:       Active
FunctionModuleType:        ASC
FunctionModuleSerialNum:   152698
FunctionModuleHWRev:       p1
FunctionModuleFWRev:       eqa2.0g
FunctionModuleResetReason: WatchDog timeout reset
LineModuleType:            LM-ASC
LineModuleState:           Present
mibVersionNumber:          0
configChangeTypeBitMap:    No changes
cardIntegratedAlarm:       Clear
```

Example 3

dspcd

Description

On an FRSM:

System Response

```
ModuleSlotNumber:          7
FunctionModuleState:       Active
FunctionModuleType:        FRSM-4T1
FunctionModuleSerialNum:   189142
FunctionModuleHWRev:       aj
FunctionModuleFWRev:       eqa2.0g
FunctionModuleResetReason: Power reset
LineModuleType:            LM-DB15-4T1
LineModuleState:           Present
mibVersionNumber:          4
configChangeTypeBitMap:    CardCnfChng, LineCnfChng
cardIntegratedAlarm:       Clear
```

dspcderrs

The **dspcderrs** command displays information on the card errors.

Full Name

Display card errors

Syntax

dspcderrs

Related Commands

clrcderrs

Cards on which the command executes

ASC, FRSM, AUSM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example

dspcderrs

Description

If no errors have occurred, no messages appear on screen.

System Response

```
dspcderrs
08/05/95-18:53:05 tRootTask    3 Task failed          : scm
09/05/95-09:14:08 tRootTask    3 Task failed          : scm
value = 0 = 0x0
```

dspcds

The **dspcds** command displays the status of all the cards in the MGX 8220 shelf.

Full Name

Display card shelf information

Syntax

dspcds

Related Commands

dspcd

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspcds

Description

Executed from an ASC.

System Response

```
   Slot  CardState    CardType  CardAlarmStatus
   ----  -----------  --------  ---------------
    1.1   Standby      BNM-T3
    1.2   Active       BNM-T3
    1.3   Standby      ASC
    1.4   Active       ASC
    1.5   Active       FRSM-4T1    Major
    1.6   Active       FRSM-4T1
    1.7   Active       FRSM-4T1
    1.8   Active       FRSM-4T1
    1.9   Empty
    1.10  Active       FRSM-4T1
    1.11  Active       FRSM-4T1
    1.12  Active       FRSM-4T1
    1.13  Active       FRSM-4T1
    1.14  Active       FRSM-4T1
    1.15  Standby      SRM-4T1/E1
    1.16  Active       SRM-4T1/E1

  BkplnSerialNum:
    NumOfValidEntries:    16
    NodeName:             MGX 8220NAME
    Date:                 11/22/95
    Time:                 07:40:03
    TimeZone:             PST
    TimeZoneGMTOff:       -8
    StatsMasterIpAddress: 0.0.0.0
    ShelfIntegratedAlarm: Major

  Syntax : dspcds
```

dspchan

Displays the parameter values associated with the specified channel.

Full Name

Display channel

Syntax

dspchan <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

dspchans, **cnfchan**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspchan 69

Description

Display the channel characteristics of channel 69 on a FRSM card.

System Response

```
ChanNum:                  69
ChanRowStatus:            Mod
ChanPortNum:              1
ChanDLCI:                 100
EgressQSelect:            1
IngressQDepth:            65535
IngressQDEThresh:         32768
IngressQECNThresh:        65535
EgressQDepth:             65535
EgressQDEThresh:          32768
EgressQECNThresh:         6553
DETaggingEnable:          Disabled
CIR:                      24000
Bc:                       5100
Be:                       5100
IBS:                      100
ForeSightEnable:          Enabled
QIR:                      260
MIR:                      62
PIR:                      500
ChanLocalRemoteLpbkState: Enabled
ChanTestType:             TestOff
ChanTestState:            NotInProgress
ChanRTDresult:            65535 ms
ChanType:                 NIW
ChanFECNmap:              setEFCIzero
ChanDEtoCLPmap:           mapCLP
ChanCLPtoDEmap:           mapDE

ChanNumNextAvailable:  17
```

For an AUSM, the display is the same as for the **dspcon** display.

Example 2

dspchan 32

Description

Display the channel characteristics of channel 32 on a CESM8 card.

System Response

```
ChanNum:                  32
ChanRowStatus:            Add
ChanLineNum:              4
ChanMapVpi:               6
ChanMapVci:               43
ChanCBRService:           unstructured
ChanClockMode:            Synchronous
ChanCAS:                  Basic
ChanPartialFill:          40
ChanMaxBufSize:           6144 bytes
ChanCDV:                  10625 micro seconds
C L I P:                  2500 milliseconds
ChanLocalRemoteLpbkState: Disabled
ChanTestType:             TestOff
ChanTestState:            NotInProgress
ChanRTDresult:            65535 ms
ChanPortNum               4
ChanConnType              PVC
ISDetType                 DetectionDisabled
CondData                  255
CondSignalling            10
ExtISTrig                 DisableIdleSupression
ISIntgnPeriod             4095 seconds
ISSignallingCode          0
OnHookCode                1

ChanNumNextAvailable:  32
```

dspchancnt

Displays the counter contents of a channel.

Full Name

Display channel count

Syntax

dspchancnt <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM (16–23 for an IM-ATM card)

Related Commands

dspchstats

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspchancnt 69

Description

Display the counters for channel 69 of the current FRSM

System Response

```
ChanNum:          69
ChanState:        okay

ChanUpTime:       10186

                                    Tx                          Rx
                              ---------------             ---------------
  AbitState:                  Sending A=1                 Receiving A=1
  ATMState:                   Not sending any state       Not receiving any state
  Total Frames:               0                           0
  Total Bytes:                0                           0
  Frames DE:                  0                           0
  Bytes DE:                   0                           0
  Frames Discarded:           0                           0
  Bytes Discarded:            0                           0
  FramesDiscXceedQDepth:      0                           0
  BytesDiscXceedQDepth:       0                           0
  FramesDiscXceedDEThresh:    0                           0
  Frames FECN:                0                           0
  Frames BECN:                0                           0
  FramesTagged FECN:          0                           0
  FramesTagged BECN:          0                           0
  KbpsAIR:                    0                           0
  FramesTaggedDE:             0                           0
  BytesTaggedDE:              0                           0
  RcvFramesDiscShelfAlarm:                                0
  XmtFramesDiscPhyLayerFail: 0
  XmtFramesDiscCRCError:      0
  XmtFramesDiscReAssmFail:    0
  XmtFramesDiscSrcAbort:      0
  XmtFramesDuringLMIAlarm:    0
  XmtBytesDuringLMIAlarm:     0
  RcvFramesDiscUPC:                                       0
  XmtFramesInvalidCPIs:       0
  XmtFramesLengthViolations: 0
  XmtFramesOversizedSDUs:     0
  XmtFramesUnknownProtocols: 0
  RcvFramesUnknownProtocols:                              0
```

Example 2

dspchancnt 16

Description

Display the counters for channel 16 of the current 4 port AUSM

System Response

```
ChanNum:                        16
ChannelState:                   Active
ChannelEgressRcvState:          Normal
ChannelEgressXmitState:         Normal
ChannelIngressRcvState:         Normal
ChannelIngressXmtState:         Normal
ChanInServiceSeconds:           1126725
ChanIngressPeakQDepth(cells):   1
ChanIngressReceiveCells:        41160574
ChanIngressClpSetCells:         0
ChanIngressEfciSetRcvCells:     0
ChanIngressUpcClpSetCells:      0
ChanIngressQfullDiscardCells:   1
ChanIngressClpSetDiscardCells:  0
ChanIngressTransmitCells:       41160574
ChanShelfAlarmDiscardCells:     0


Syntax : dspchancnt "chan_num"
         channel number -- value ranging from 16 to 271
```

Example 3

dspchancnt 16

Description

Display the counters for channel 16 of the current 8 port AUSM

System Response

```
ChanNum:                   16
Chan State:                alarm
Chan RCV ATM State:        Normal
Chan XMT ATM State:        Sending AIS OAM
Cell Loss Status:          Cell Loss
Reassembled Cells:         0
Generated Cells:           202752
Header Errors:             0
Sequence Mismatches :      0
Pointer Reframes:          0
Lost Cells:                0
Underflows:                1
Underflow Inserted Cells:  202753
Overflows:                 0
Overflow Drop Bytes:       0
Ingress Discarded Bytes:   0


Syntax : dspchancnt "chan_num"
         channel number -- value ranging from 16 to 1015
```

Example 4

dspchancnt 32

Description

Display the counters for channel 32 of the current CESM

System Response

```
ChanNum:                    32
State:                      alarm
RCV ATM State:              Receiving AIS OAM
Chan XMT ATM State:         Sending AIS OAM
Cell Loss Status:           No Cell Loss
Reassembled Cells:          169191
Generated Cells:            169270
Header Errors:              0
Sequence Mismatches :       0
Lost Cells:                 4
Channel Uptime (secs.)      86
Signalling Status           Offhook
```

dspchanmap

The **dspchanmap** command displays interworking field mapping for a specified channel.

Full Name

Display channel map

Syntax

dspchanmap <channel number>

where:

<channel number>	channel number is in the range 16–271 for a 4 port card, 16–1015 for an 8 port card.

Related Commands

cnfchanmap

Cards on which the command executes

FRSM

Attributes

Log: No State: Any Privilege: Any

Example

dspchanmap 20

Description

Display the interworking field mapping for channel 20 on the current FRSM.

System Response

```
     chanNum     chanType     FECNmap     Demap     CLPmap
   ------------- --------     -------    ------     ------
       20          NIW      setEFCIzero  mapCLP     mapDE
```

dspchans

This command displays all the current channels on the card.

Full Name

Display channels

Syntax

dspchans

Related Commands

dspchan, **addchan**, **delchan**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Any Privilege: 1–6

Example

dspchans

Description

Display the channels on the current FRSM.

System Response

```
      DLCI       Chan  EQ  I/EQDepth  I/EQDEThre  I/EECNThre  Fst/DE  Type  Alarm
    ------------- ---- -- ----- ----- ----- ----- ----- ----- --- --- ----- -----
    11.1.1.100    69   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.101    70   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.102    71   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.103    72   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.104    73   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.105    74   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.106    75   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.107    76   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.108    77   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.109    78   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.110    79   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.111    80   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.112    81   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.113    82   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.114    83   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.1.115    84   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
    11.1.2.100    85   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  Type <CR> to continue, Q<CR> to stop:
```

For an AUSM, the display is the same as for the **dspcon** display.

dspchstats

Displays the current statistics of a channel.

Full Name

Display channel statistics

Syntax

dspchstats <line#><1st_DS0><DLCI>

where:

<line#>	line number is in the range 1–4 for a 4 port card, 1–8 for an 8 port card
<1st_DS0>	1st_DS0 is in the range of 1–24 for T1, 1–32 for E1
<DLCI>	DLCI is the connection for which the statistics are to be displayed

Related Commands

none

Cards on which the command executes

FRSM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

```
dspchstats 2.4.1000
```

Description

Display the counters for line 2, 1st_DS0 of 4, and DLCI of 1000 for the current FRSM.

System Response

```
                          lineNum:           1
                          Physical Port Num: 4
                          Logical Port Num:  2
                          ChanDLCI:          1000
                          ChanNum:           1
                          ChanState:        okay

                          ChanUpTime:       10186

                                 Tx                            Rx
                            ---------------            ---------------
AbitState:                  Sending A=1                Receiving A=1
ATMState:                   Not sending any state      Not receiving any state
Total Frames:               0                          0
Total Bytes:                0                          0
Frames DE:                  0                          0
Bytes DE:                   0                          0
Frames Discarded:           0                          0
Bytes Discarded:            0                          0
FramesDiscXceedQDepth:      0                          0
BytesDiscXceedQDepth:       0                          0
FramesDiscXceedDEThresh:    0                          0
Frames FECN:                0                          0
Frames BECN:                0                          0
FramesTagged FECN:          0                          0
FramesTagged BECN:          0                          0
KbpsAIR:                    0                          0
FramesTaggedDE:             0                          0
BytesTaggedDE:              0                          0
RcvFramesDiscShelfAlarm:                               0
XmtFramesDiscPhyLayerFail: 0
XmtFramesDiscCRCError:      0
XmtFramesDiscReAssmFail:    0
XmtFramesDiscSrcAbort:      0
XmtFramesDuringLMIAlarm:    0
XmtBytesDuringLMIAlarm:     0
RcvFramesDiscUPC:                                      0
XmtFramesInvalidCPIs:       0
XmtFramesLengthViolations: 0
XmtFramesOversizedSDUs:     0
XmtFramesUnknownProtocols: 0
RcvFramesUnknownProtocols:                             0
```

dspcon

Displays configuration data for a connection.

Full Name

Display connection

Syntax

dspcon <channel number>

where:

<channel number>	channel number is in the range 16–271 for a 4 port card, 16–1015 for an 8 port card

Related Commands

addcon, **delcon**, **dspcons**

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspcon 16

Description

Display the connection parameters for channel 16.

System Response

```
ChanNum:                                16
RowStatus:                              Add
ConnectionType:                         VCC
ServiceType:                            CBR
PortNum:                                1
VPI:                                    10
VCI:                                    100
EgressQNum:                             1
IngressQDepth (cells):                  100
IngressQCLPHigh (cells):                70
IngressQCLPLow (cells):                 60
IngressEfciThreshold (cells):           50
CompliantCellDelayVariation (micro secs): 0
CompliantInfoRate (cells/sec):          0
InitialBurstSize (cells):               0
MaxFrameSize (cells):                   0
PeakInformationRate (cells/sec)         1000
CLPTagEnable:                           Disabled
FrameGCRAEnable:                        Disabled
```

dspcons

Displays details of all connections between the current AUSM and the BNI to which the current shelf attaches.

Full Name

Display connections

Syntax

dspcons

Related Commands

dspcon, **addcon**, **delcon**

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example

dspcons

Description

Display parameters for the connections on the current AUSM.

System Response

```
Chan    Port.VPI.VCI    ConnType    Service Type    PCRlot1   Q-Depth     State
30        1.10.100       VCC            ABR          3622      2000       Active
33        1.10.200       VPC            CBR          3622      100        Alarm
```

dspds3ln

This command displays the parameters of the DS3 line.

Full Name

Display DS3 line

Syntax

dspds3ln “line_num”

where:

“line_num”	value of 1 is accepted for IMATM-T3T1/E3E1

Example: 1

`dspds3ln` “1”

Related Commands

none

Cards on which the command executes

IM-ATM

Attributes

Log: Yes State: Active Privilege: 1–2

Example: 2

`dspds3ln` “1”

LineNum:	1
LineType:	dsx3CbitParity. Means that the line supports ANSI T1.107a–1989 for defining the transport of SDH elements on PDH networks
LineCoding:	dsx3B3ZS. Describes the type of zero code suppression (3B3ZS) used on line 1.
LineLength:	< 450 ft.
LineOOFCriteria:	3 Out of 8. Means that an OOF (out of framing) condition is declared if at least 3 of 8 framing bits are in error.

LineAIScBitsCheck:	Ignor C-bit. Means that an AIS (alarm indication signal) condition is declared when the AIS pattern 1010... is detected irrespective of the state of the C Bits.
LineLoopbackCommand:	NoLoop. Means that this line is not currently in the loopback state. A device that is not capable of performing a loopback will always return this value
LineRcvFEACValidation:	4 Out of 5. This entry specifies the FEAC (far-end alarm and control) code validation criteria. When 4 Out of 5 is specified then a valid FEAC code is declared if 4 of 5 codes match.

dspds3lns

This command displays the parameters of all DS3 lines.

Full Name

Display DS3 lines

Syntax

dspds3lns

Related Commands

none

Cards on which the command executes

IM-ATM

Attributes

Log: Yes State: Active Privilege: 1–2

Example:

```
dspds3lns
```

Line	Type	Coding	Length	Criteria	AIS
8.1	dsx3CbitParity	dsx3B3ZS	< 450 ft.	3 Out of 8	Ignor C-bit

dspfrasbnnroute

This command displays the parameter values for a FrasBNN route.

Full Name

Display FrasBNN Route

Syntax

dspfrasbnnroute <port_num> <lsaddress> :

<port_num>	Port number of the FrasBNN connection to be routed in the range 1–192 for T1, 1–248 for E1.
<lsaddress>	Address of the SDLC Link Station in the range 0x01–xFE.

Related Commands

addfrasbnnroute, **delfrasbnnroute**, **dspfrasbnnroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example 1

```
dspfrasbnnroute 69 3
```

Description

Displays the FrasBNN Route for port 69, lsaddress of 3.

A typical display is shown below.

PortNum:	69
RowStatus:	Add
Lsaddress:	3
Chan Num:	69
LSAP:	5
RSAP	7
THType:	None

dspfrasbnnroutes

This command displays the parameter values for all current FrasBNN routes.

Full Name

Display FrasBNN Routes

Syntax

dspfrasbnnroutes

Related Commands

addfrasbnnroute, **delfrasbnnroute**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

dspifip

The **dspifip** command displays the interface addresses configured for the card. These addresses can be Ethernet, SLIP, and ATM.

Full Name

Display LAN IP configuration

Syntax

dspifip

Related Commands

cnfifip

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

Example

dspifip

Description

Display the IP LAN configuration.

System Response

```
     IPAddress   Interface      NetMask      BroadcastAddress

    -----------  ---------  ---------------  ----------------

   192.168.3.18  Ethernet   255.255.255.000  192.168.3.18

        0.0.0.0  Slip       255.255.255.000       N/A

        0.0.0.0  ATM        255.255.255.000       N/A
```

dspfst

The **dspfst** command displays the ForeSight parameters for the current card.

Full Name

Display ForeSight

Syntax

dspfst

Related Commands

cnffst

Cards on which the command executes

FRSM, AUSM

Attributes

On FRSM:

Log: Yes State: Active Privilege: 4

On AUSM:

Log: No State: Active Privilege: 2

dspfwrevs

Displays the current revision levels of the firmware in the MGX 8220 shelf.

Full Name

Display firmware revisions

Syntax

dspfwrevs

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspfwrevs

System Response

A typical response is shown below:

```
Cfg Size     Date       Time     File Name    Card Type      Version
--- -------- ---------- -------- ------------ ------------ ----------
n/a  1632340 03/25/1998 10:40:44      asc.fw           ASC    4.0.06
Yes   746224 03/25/1998 11:54:10     sm30.fw    FRSM-4T1E1    4.0.06
Yes   727584 03/25/1998 12:01:44     sm40.fw    AUSM-4T1E1    4.0.05
Yes   701124 03/26/1998 10:49:48     sm35.fw    FRSM-8T1E1    4.0.06
Yes   988468 03/26/1998 11:07:08     sm50.fw    AUSM-8T1E1    4.0.05
Yes   552896 03/26/1998 11:11:16     sm90.fw    CESM-8T1E1    4.1.00aa
```

dspilmi

The **dspilmi** command displays the interim local management interface (ILMI) configuration.

Full Name

Display ILMI

Syntax

dspilmi <port_num>

where:

<port_num>	port_num is in the range 1–4 for a 4 port card, 1–8 for an 8 port card

Related Commands

cnfilmi, **dspilmicnt**

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspilmi 1

Description

Display the ILMI configuration for port 1.

System Response

```
Port Num:                      1
Signalling:                    No signalling
SignallingVPI:                 0
SignallingVCI:                 0
ILMITrap:                      Disabled
ILMI-Min-Trap-Interval (secs): 1
KeepAlivePolling:              Disabled
ErrorThreshold:                3
EventThreshold:                4
PollingInterval (secs):        30
MinimumEnquiryInterval (secs): 10
EXT Operation:                 port 2
```

dspilmicnt

The **dspilmicnt** command displays the ILMI counters.

Full Name

Display ILMI counters

Syntax

dspilmicnt <port_num>

where:

<port_num>	port_num is in the range 1–4 for a 4 port card, 1–8 for an 8 port card

Related Commands

cnfilmi, **dspilmi**

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example

```
dspilmicnt 1
```

Description

Display the ILMI counters for port 1 on the current AUSM card.

System Response

```
Port Num:                 1
SNMPPDUsReceived:         0
Get RequestsReceived:     0
GetNextRequestsReceived:  0
SetRequestsReceived:      0
TrapReceived:             0
GetResponseReceived       0
GetResponseTransmitted:   0
GetRequestTransmitted:    0
TrapsTransmitted:         0
InvalidPDUReceived:       0
Asn1ParseError:           0
NoSuchNameError:          0
TooBigError:              0
```

dspimagrp

The **dspimagrp** command displays delay and resilient links IMA (inverse multiplexing ATM) parameters on the current AUSM8 or IM-ATM card.

Full Name

Display IMA group

Syntax

dspimagrp

Related Commands

cnfimagrp, dspimagrps, dspimagrpcnt

Cards on which the command executes

AUSM8, IM-ATM

Attributes

Log: No State: Active Privilege: 1

dspimagrpcnt

This command displays IMA (inverse multiplexing ATM) counters on the current AUSM8 or IM-ATM card for all IMA groups.

Full Name

Display IMA group counters

Syntax

dspimagrpcnt

Related Commands

dspimagrp, dspimagrpcnt, dspimagrps, dspimainfo, dspimalncnt

Cards on which the command executes

AUSM8, IM-ATM

Attributes

Log: No State: Active Privilege: 1

dspimagrps

The **dspimagrps** command displays IMA (inverse multiplexing ATM) parameters for AUSM.

Full Name

Display IMA groups

Syntax

dspimagrps

Related Commands

dspimagrp, cnfimagrp, dspimagrps, dspimagrpcnt

Cards on which the command executes

AUSM8

Attributes

Log: No State: Active Privilege: 1

dspimainfo

This command displays information about IMA (inverse multiplexing ATM) parameters on the current AUSM8 card.

Full Name

Display AIM (or Display IMA) information

Syntax

dspimainfo

Related Commands

dspimagrp, cnfimagrp

Cards on which the command executes

AUSM8

Attributes

Log: No State: Active Privilege: 1

System Response

dspimalncnt

This command displays all the AIMUX line counters for the specified IMA group.

Full Name

Display AIM (or Display IMA) Line Counters

Syntax

dspaimlncnt <aimux_grp>

where:

<aimux_grp>	AIMUX group number

Syntax

dspaimlncnt

Related Commands

clraimlncnt, **clrimalncnt**, **dspimalncnt**

Cards on which the command executes

AUSM8

Attributes

Log: No State: Active Privilege: 1

dspintvl

The **dspintvl** command displays interval statistics for BNM-155 trunk card.

Full Name

Display interval

Syntax

dspintvl -sonetsec <sonetsecLineNumber> -intvl <intervalNum>|-sonetline <sonetLineLineNumber> -intvl<intervalNum>|sonetPathLineNum <sonetPathLineNumber> -intvl <intervalNum>

Related Commands

none

Cards on which the command executes

BNM-155

Attributes

Log: No State: Active Privilege: 1

System Response

```
SonetSectionLineNum:
SectionIntervalNum:
SectionCurrentValidFlag:
SectionCurrentESs:
SectionCurrentSESs:
SectionCurrentSEFSs:
SectionCurrentCVs:
```

dsplink

The **dsplink** command displays a link on a T3 line on a SRM-3T3 card.

Full Name

Display link

Syntax

dsplink <T3 line number>

where:

<T3 Line number> SRM-3T3 T3 line number (range 1–3)

Related Commands

dellink, **addlink**

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active Privilege: 1

System Response

T3Line	StartT	TRowStatus	TargetSlot	TargetSlotLine
1	1	Add	7	1
1	2	Add	7	2
1	3	Add	7	3
1	4	Add	7	4

dspllcport

Displays an existing LLC port from a FRASM line.

Full Name

Displays LLC port

Syntax

dspllcport <port number> :

<port number>	port number in the range 1–192 for T1, 1–248 for E1

Related Commands

addllcport, **dspllcports**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–6

Example

```
dspllcport 46
```

Description

Displays the current configuration settings for the LLC port 46. A typical display is shown below.

ChanNum:	46
RowStatus:	Add
AckDelayTime:	Primary
AckMax:	Multipoint
IdleTime:	10 sec(s)
N2:	Disable
T1:	Enable
TBusyTime:	7
TPFTime:	12000 bit(s)
REjTime:	20
XIDNegValTime:	1
XIDRetryTime:	10
FlowRestartTimeThreshold:	10000
FlowWindowDivisor:	Disabled

dspllcports

Displays the configuration of all existing LLC FRASM ports.

Full Name

Displays LLC ports

Syntax

dspllcports

Related Commands

addllcport, **dspllcport**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–6

Example

```
dspllcports
```

Description

Displays the current configuration settings for each existing LLC port. A typical display for a single port is shown below

.

Chan	Status	AckDelay/AckMax	IdleTime	N2	T1
46	Add/Prim	Mul	10	Dis	Ena

Number of LLC ports: 1

dspllcportcnt

This command displays the current values of the LLC counters for a specified channel.

Full Name

Display LLC port count

Syntax

dspllcportcnt <chan_num> :

<chan_num>	channel number of the LLC connection to be routed in the range 16–1015

Related Commands

clrllcportcnt

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example 1

```
dspllcportcnt 22
```

Description

Displays the LLC counter values for channel 22.

A typical display is shown below.

PDUsIn	3480
PDUsOut	3128
OctetsIn	5220000
OctetsOut	4692000
TESTCommansIn	5
TESTCommandsOut	11
LocalBusies	2
UnknownSaps	4

dsplmiloop

The **dsplmiloop** command displays the loop configuration of the ATM LMI interface.

Full Name

Display LMI loop

Syntax

dsplmiloop

Related Commands

addlmiloop, dellmiloop

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Any user

Example 1

```
shelf.1.3.ASC.a > dsplmiloop
```

System Response

A typical response is shown below:

```
AtmLMILoopback: Loop
```

dspln

The **dspln** command displays the detailed configuration for a specified line. When the current card is an ASC, the line is:

- ds3 if the shelf is configured with a BNM-T3 trunk card
- SONET if the shelf is configured with a BNM-155 trunk card

Full Name

Display line configuration

Syntax

On FRSM, CESM, IM-ATM, or AUSM cards

dspln <line number>

where:

<line number>	line number can be 1 on an ASC and 1–4 on 4 port service modules and 1–8 on 8 port service modules

On SRM-3T3 cards

dspln <-srmds3> <line number>

where:

<line number>	line number can be 1–3

or

On SONET cards

dspln <-SONET> <line number>

where:

<line number>	line number can be 1–2

Related Commands

addln, **cnfln**, **delln**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No State: Active on ASC, any state on FRSM, AUSM, or SRM-3T3 Privilege: 1–6

Example 1

dspln 2

Description

Display line 2 on the current AUSM card.

System Response

```
LineNum:                 2
LineConnectorType:       BNC
LineType:                dsx1E1CAS
LineEnable:              Enabled
LineCoding:              dsx1HDB3
LineLength:              G.703 75 ohm
LineXmtClockSource:      LocalTiming
LineLoopbackCommand:     NoLoop
LineSendCode:            NoCode
LineUsedTimeslotsBitMap: 0xffffffff
ConfigChangePortBitMap:  0x0

 LineNumOfValidEntries: 4
```

Example 2

dspln 1

Description

Display line 1 on the current ASC (1 is the only valid line number on an ASC).

System Response for BNM-T3

```
LineNum:               1
LineType:              dsx3CbitParity
LineCoding:            dsx3B3ZS
LineLength:            LessThan450ft
LineOOFCriteria:       3 out of 8
LineAIScBitsCheck:     Check C-bits
LineLoopbackCommand:   NoLoop
LineRcvFEACValidation: 4 out of 5 FEAC codes

LineNumOfValidEntries: 1
```

System Response for BNM-155

```
sonetLineNum:               1
sonetLineType:
sonetLineloopbak:
sonetHCmasking:
sonetPayloadScramble:
sonetFrameScramble:
sonetMediumType:
sonetMediumTimeElapsed:
sonetMediumValidIntervals
sonetMediumLineCoding
sonetMediumLineType
sonetMediumCircuitIdentifier

sonetMediumValidEntries:
```

Example 3

dspln 5

Description

Display line 5 on the current CESM8 card.

System Response

```
LineNum:                   5
LineConnectorType:         RJ-48
LineEnable:                Enabled
LineType:                  dsx1ESF
LineCoding:                dsx1B8ZS
LineLength:                0-131 ft
LineXmtClockSource:        LocalTiming
LineLoopbackCommand:       NoLoop
LineSendCode:              NoCode
LineUsedTimeslotsBitMap:   0x0
LineLoopbackCodeDetection: codeDetectDisabled

LineNumOfValidEntries: 8
```

dsplns

The **dsplns** command displays the configuration for all lines on the current card. The displayed parameters depend on the card.

Full Name

Display lines

Syntax

dsplns

Related Commands

addln, **cnfln**, **delln**

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Active on ASC, any state on FRSM, CESM, or AUSM Privilege: 1–6

Example 1

dsplns

Description

Display lines on the current FRSM card.

System Response

```
Line  ConnType     Type      Enable/Coding      Length     XmtClockSource
----  -------- ------------ ------- -------- ------------- --------------
 7.1   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming
 7.2   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming
 7.3   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming
 7.4   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming

 LineNumOfValidEntries: 4
```

Example 2

dsplns

Description

Display lines on the current ASC with BNM-T3 trunk card.

System Response

```
Line       Type        Coding      Length       Criteria   AIScBitsCheck
----  --------------  --------  -------------  ----------- -------------
2.1   dsx3CbitParity  dsx3B3ZS  LessThan450ft  3 out of 8  Check C-bits

LineNumOfValidEntries: 1
```

Example 3

dsplns

Description

Display lines on the current ASC with BNM-155 trunk card.

System Response

```
Medium   Medium   Medium    Medium
Sonet     Line      Line      HSC      Payload      Frame      Time      Valid      Line      Line
Line      Type      Lpbk      mask     Scramble     Scramble Elapsed     Intvls     Coding    Type
----  --------------  --------  -------------  ----------- ------------------


  LineNumOfValidEntries: 1
```

Example 4

dsplns

Description

Display lines on the current CESM card.

System Response

```
Line   Conn      Type     Status/Coding      Length     XmtClock Alarm Stats
       Type                                             Source        Alarm
----  ----- ------------ ------ -------- ------------- -------- -----  -----
 11.1  RJ-48 dsx1ESF         Dis/dsx1B8ZS 0-131 ft      LocalTim
 11.2  RJ-48 dsx1ESF         Ena/dsx1B8ZS 0-131 ft      LocalTim  No   No
 11.3  RJ-48 dsx1ESF         Dis/dsx1B8ZS 0-131 ft      LocalTim
 11.4  RJ-48 dsx1ESF         Dis/dsx1B8ZS 0-131 ft      LocalTim
 11.5  RJ-48 dsx1ESF         Ena/dsx1B8ZS 0-131 ft      LocalTim  Yes  No
 11.6  RJ-48 dsx1ESF         Dis/dsx1B8ZS 0-131 ft      LocalTim
 11.7  RJ-48 dsx1ESF         Ena/dsx1B8ZS 0-131 ft      LocalTim  Yes  No
 11.8  RJ-48 dsx1ESF         Dis/dsx1B8ZS 0-131 ft      LocalTim

 LineNumOfValidEntries: 8
```

dsploads

The **dsploads** command displays the connection load at a port. This helps to determine whether adding more connections is advisable. The display shows the load in cells per second. The layout of the display is in rows and columns. One column exists for each port, and one row exists for each connection type. If the traffic is exceeding the bandwidth configured for the port, an “overload” message appears at the bottom of the column for the overloaded port.

Full Name

Display loads

Syntax

dsploads

Related Commands

none

Cards on which the command executes

AUSM

Attributes

Log: No State: Active Privilege: 1–6

Example

dsploads

Description

Display the load on the current AUSM.

System Response

```
        Load Display for AUSM ports

                          Port 1  Port2   Port3   Port4
                          ******************************
  CBR (based on PCR0+1)       0       0       0       0

  VBR (based on PCR0+1)       0       0       0       0

  ABR (based on MCR)      64000   64000   64000   64000
                          ------------------------------

  Total                   64000   64000   64000   64000

  Load Status             OverloadOverloadOverloadOverload

  Note: All Cell Rates are multiplied by respective
                 Percentage Utilization factors
```

dsplog

The **dsplog** command displays the events and messages in the log. The most recent events appear at the top of the list.

This command displays the MGX 8220 log. If no parameters are entered, the entire log for all cards in the shelf is displayed. The log for a particular card and/or for only a number of most recent days can be specified.

Full Name

Display event/message log

Syntax

dsplog [<slot#>] [<no. of days>]

where:

<slot#>	slot number of the card for which the log is to be displayed
<no. of days>	number of most recent days to be included in the display (up to 4 maximum)

Related Commands

clrlog

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–5

Example

dsplog

Description

Display all five available logs for each card on the shelf

System Response

```
dsplog
04/01/70-13:10:03 tRootTask    2 Illegal msg received
04/01/70-13:10:07 aum        1312 local IP address not programmed
03/01/70-20:11:31 smm        1207 slave ack timeout
```

dspls

Displays an existing SDLC Link Station.

Full Name

Display SDLC LS (Link Station)

Syntax

dspls <port number> <lsaddress> :

<port number>	port number in the range 1–192 for T1, 1–248 for E1
<lsaddress>	Link Station address in the range 1–254

Related Commands

addls, **dells**, **cnfls**, **dsplss**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
dspls 2 2
```

Description

Displays the current configuration settings for the SDLC station on port 2 with station address 2. A typical display is shown below.

PortNum:	2
RowStatus:	Add
LSAddress:	15
HoldQ:	12
LargestFrame:	265
XID:	1010(Hex)
Echo:	False
PartnerMACAddress:	00000

dsplscount

This command displays the current values of the Link Station counters for a specified port and Link Station address.

Full Name

Display LS counters.

Syntax

dsplscount <port_num> <lsaddress> :

<port_num>	port number of the port to display the current values of the LS counters for; in the range 1–192 for T1, 1–248 for E1
<lsaddress>	address of link station in the range 0x01–0xFE (0xFF for STUN)

Related Commands

clrlscount

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example 1

```
dsplscount 12 0x01
```

Description

Displays the Link Station counter values for port 12 and link station address 0x01.

A typical display is shown below.

BLUsIn	2390
BLUsOut	4530
Octets In	3585000
OctetsOut	6795000
Polls In	7500
Polls Out	8200
Poll Rsps In	8200
Poll Rsps Out	7500
Local Busies	20

Remote Busies	15
I Frames In	1980
I Frames Out	4120
UIFramesIn	2970000
UIFramesOut	6180000
XIDsIn	22
XIDsOut	37
TESTsIn	43
TESTsOut	64
REJsIn	4
REJsOut	7
FRMRsIn	9
FRMRsOut	5
SIMsIn	11
SIMsOut	2
RIMsIn	2
RimsOut	3
DISCIn	1
DISCOut	0
UAIn	29
UAOut	11
DMIn	2
DMOut	4
SNRMIn	4
SNRMOut	5
ProtocolErrs	1
ActivityTOs	2
RNRLIMITs	1
RetriesExps	3
RetransitsIn	1
RetransmitsOut	5

dsplss

Displays the configuration of all existing SDLC Link Stations.

Full Name

Displays SDLC Link Stations

Syntax

dsplss

Related Commands

addls, **dells**, **cnfls**, **dspls**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dsplss
```

Description

Displays the current configuration settings for each existing SDLC port. A typical display for a single port is shown below

.

Port	Role	Topol	SlowPoll	FFAck	Frmr	Wndw	N1	N2	Lmt	Pause	Wait
69	Add/Prim	Mul	10	Dis	Ena	7	12000	20	1	10	10000

Number of SDLC stations: 1

dspmaptbl

The **dspmaptbl** command displays the numbers assigned to frame relay ports or ATM ports on the FRSM or AUSM, respectively.

Full Name

Display map table

Syntax

dspmaptbl

Related Commands

none

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Active Privilege: 1–6

Example 1

```
dspmaptbl
```

Description

Display the map table for the current FRSM.

System Response

```
PortNum  DLCI  ChanNum  LineNum
  -------  ----  -------  -------
   1       100    69        1
   1       101    70        1
   1       102    71        1
   1       103    72        1
   1       104    73        1
   1       105    74        1
   1       106    75        1
   1       107    76        1
   1       108    77        1
   1       109    78        1
   1       110    79        1
   1       111    80        1
   1       112    81        1
   1       113    82        1
   1       114    83        1
   1       115    84        1
   2       100    85        1
   2       101    86        1
   2       102    87        1
   2       103    88        1

Type <CR> to continue, Q<CR> to stop:
```

Example 2

dspmaptbl

Description

Display the map table for the current AUSM.

System Response

```
 PortNum  VPI  VCI ChanNum  Channel Type
  -------  ---  --- -------  ------------
   1       1    16   16        VCC
   1       1    17   17        VCC
   1       1    18   18        VCC
   1       1    19   19        VCC
   1       1    20   20        VCC
   1       1    21   21        VCC
   1       1    22   22        VCC
   1       1    23   23        VCC
   1       1    24   24        VCC
   1       1    25   25        VCC
   1       1    26   26        VCC
   1       1    27   27        VCC
   1       1    28   28        VCC
   1       1    29   29        VCC
   1       1    30   30        VCC
   1       1    31   31        VCC
   1       1    32   32        VCC
   1       1    33   33        VCC
   1       1    34   34        VCC
   1       1    35   35        VCC

Type <CR> to continue, Q<CR> to stop:
```

dspmsgcnt

The **dspmsgcnt** command displays the control message counters for the card.

Full Name

Display control message counters

Syntax

dspmsgcnt

Related Commands

clrmsgcnt

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Active Privilege: 1–6

Example

dspmsgcnt

Description

Displays the control message counters for the current card.

System Response

```
RiscXmtCtrlMsg:            88506
RiscRcvCtrlMsg:            53494
SARXmtCtrlMsg:             88506
SARRcvCtrlMsg:             53494
SARCtrlMsgDiscLenErr:      0
SARCtrlMsgDiscCRCErr:      0
SARCtrlMsgDiscUnknownChan: 0
SARCtrlMsgLastUnknownChan: 0
```

dspplpp

The **dspplpp** command displays PLPP (Physical Layer Protocol Processor) parameters on the current AUSM card.

Full Name

Display PLPP

Syntax

dspplpp <port number>

where:

<port number>	port number is in the range 1–4 for a 4 port card, 1–8 for an 8 port card

Related Commands

cnfplpp

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
NODENAME.1.19.AUSM8.a > dspplpp 1
```

Description

Display the PLPP (Physical Layer Protocol Processor) parameters for port 1 on the current AUSM card.

System Response

```
PhysicalPortNumber:            1
CellFraming:                   ATM
CellScramble:                  Scramble
Plpp Loopback:                 No Loopback
Single-bit error correction:   Disabled
```

dspport

On an FRSM and CESM, the **dspport** command displays the port configuration for the specified port. On an AUSM, the **dspport** command displays the Physical Layer Protocol Processor of a port on the current AUSM.

Full Name

Display port

Syntax

dspport <port number>

where:

On a 4 port FRSM or CESM, <port number> is in the range 1–96 for T1, 1–124 for E1

On an 8 port FRSM or CESM, <port number> is in the range 1–192 for T1, 1–248 for E1

or

On an AUSM, <port number> is in the range 1–4 for four port cards, 1–8 for eight port cards

Related Commands

FRSM: **addport**, **cnfport**, **delport**

AUSM: **upport**, **dnport**

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Active Privilege: 1–6

Example 1

```
dspport 1
```

Description

Display the port configuration for port 1 on the current FRSM.

System Response

```
    SlotNum:                      7
    PortLineNum:                  1
    PortNum:                      1
    PortRowStatus:                Add
    PortDs0Speed:                 64k
    PortDs0ConfigBitMap:          0xffffff
    PortEqueueServiceRatio:       1
    PortFlagsBetweenFrames:       1
    PortSpeed:                    1536kbps
    SignallingProtocolType:       NoSignalling
    AsynchronousUpdates:          Disable
    T391LineIntegrityTimer:       10
    T392PollingVerificationTimer: 15
    N391FullStatusPollingCounter: 6
    N392ErrorThreshold:           3
    N393MonitoredEventCount:      4
    PortState:                    FailedDuetoLineFailure
    PortSignallingState:          No Signalling Failure
    CLLMEnableStatus:             Disable
    CLLMxmtStatusTimer:           0

    PortDs0UsedLine1:             0x00ffffff
    PortDs0UsedLine2:             0x00ffffff
    PortDs0UsedLine3:             0x00ffffff
    PortDs0UsedLine4:             0x00ffffff
    PortNumNextAvailable:         60
  Syntax : dspport "port_num"
           port number -- values ranging from 1-96 are accepted
```

Example 2

dspport 1

Description

Display port 1 on the current AUSM.

```
    PortNumber:     1
    Cell Framing:   ATM
    Cell Scramble:  No Scramble
    Plpp Loopback:  No Loopback
```

Example 3

dspport 2

Description

Display port 2 on the current CESM.

```
SlotNum:                      6
PortLineNum:                  2
PortNum:                      2
PortRowStatus:                Add
PortNumOfSlots:               1
PortDs0ConfigBitMap(1stDS0):  0x1(1)
PortSpeed:                    64kbps
PortType:                     structured
PortState:                    Active
```

dspportcnt

This command displays counters for a specified port.

Full Name

Display port counters

Syntax

dspportcnt <port number>

where:

On a 4 port FRSM, <port number> is in the range 1–96 for T1, 1–124 for E1

On an 8 port FRSM, <port number> is in the range 1–192 for T1, 1–248 for E1

or

On an AUSM, <port number> is in the range 1–4 for four port cards, 1–8 for eight port cards

Related Commands

cnfcd, **dspcds**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspportcnt 1

Description

Display port counters on port 1 of the current AUSM.

System Response

```
PortNum:                              1
PortState:                            Out Of Cell Delineation
IngressRcvCells:                      0
IngressGfcErrorCells:                 0
IngressVpiVciErrCells:                0
IngressUnknownVpiVci:                 0
EgressXmtCells:                       918900
EgressPortAlarmDiscardCells:          0
EgressXmtClpSetCells:                 918907
EgressXmtEfciSetCells:                0
PortXmtAisCells:                      918907
PortXmtSgmtLpbkCells:                 0
PortRcvAisCells:                      0
PortRcvFerfCells:                     0
PortRcvSgmtLpbkCells:                 0
PortRcvCrcErrOAMCells:                0
ReceivedHECErrorCells:                6
HECErroredSeconds:                    1
SeverelyHECErroredSeconds:            0
```

Example 2

dspportcnt 1

Description

On an FRSM:

System Response

```
                                        Tx                  Rx
                                 ---------------     ---------------
     Total Frames:               0                   0
     Total Bytes:                0                   0
     Frames FECN:                0                   0
     Frames BECN:                0                   0
     Frames Abort:               0                   0
     Buf Not Available:          0                   0
     KbpsAIR:                    0                   0
     XmtFramesDiscXceedQDepth:   0
     XmtBytesDiscXceedQDepth:    0
     XmtFramesDuringLMIAlarm:    0
     XmtByteDuringLMIAlarm:      0
     XmtFramesUnderrun:          0
     RcvFramesDE:                                    0
     RcvFramesDiscCRCError:                          0
     RcvFramesDiscIllegalHeader:                     0
     RcvFramesDiscAlignmentError:                    0
     RcvFramesDiscIllegalLen:                        0
     RcvFramesDiscXceedDEThresh:                     0
     RcvFramesUnknownDLCI:                           0
     RcvLastUnknownDLCI:                             0
     RcvFramesTaggedFECN:                            0
     RcvFramesTaggedBECN:                            0
     RcvFramesTaggedDE:                              0
     Status:                     0                   0
     StatusInquiry:              0                   0
     AsynchUpdate:               0                   0
     RcvInvalidRequest:                              0
     RcvUNISeqMismatch:                              0
     RcvNNISeqMismatch:                              0
     UNISignallingTimeout:                           0
     NNISignallingTimeout:                           0
     FramesCLLM:                 0                   0
     BytesCLLM:                  0                   0
     CLLMFailures:                                   0
```

dspportstats

The **dspportstats** command displays statistics information for a specified port on the FRSM.

Full Name

Display port statistics

Syntax

dspportstats <line#><1st_DS0>

where:

<line#>	line number is in the range 1–4 for a 4 port card, 1–8 for an 8 port card
<1st_DS0>	1st_DS0 is in the range 1–24 for T1, and 1–32 for E1

Related Commands

dspchstats

Cards on which the command executes

FRSM

Attributes

Log: No State: Any Privilege: 1–6

Example

```
dspportstats 1 12
```

Description

Display statistics information for port 1 on first DS0 of 12.

System Response

```
Line Num:1
Physical Port Num: 12
Logical Port Num: 4
                                        Tx                  Rx
                                  ---------------     ---------------
  Total Frames:                   0                   0
  Total Bytes:                    0                   0
  Frames FECN:                    0                   0
  Frames BECN:                    0                   0
  Frames Abort:                   0                   0
  Buf Not Available:              0                   0
  KbpsAIR:                        0                   0
  XmtFramesDiscXceedQDepth:       0
  XmtBytesDiscXceedQDepth:        0
  XmtFramesDuringLMIAlarm:        0
  XmtByteDuringLMIAlarm:          0
  XmtFramesUnderrun:              0
  RcvFramesDE:                                        0
  RcvFramesDiscCRCError:                              0
  RcvFramesDiscIllegalHeader:                         0
  RcvFramesDiscAlignmentError:                        0
  RcvFramesDiscIllegalLen:                            0
  RcvFramesDiscXceedDEThresh:                         0
  RcvFramesUnknownDLCI:                               0
  RcvLastUnknownDLCI:                                 0
  RcvFramesTaggedFECN:                                0
  RcvFramesTaggedBECN:                                0
  RcvFramesTaggedDE:                                  0
  Status:                         0                   0
  StatusInquiry:                  0                   0
  AsynchUpdate:                   0                   0
  RcvInvalidRequest:                                  0
  RcvUNISeqMismatch:                                  0
  RcvNNISeqMismatch:                                  0
  UNISignallingTimeout:                               0
  NNISignallingTimeout:                               0
  FramesCLLM:                     0                   0
  BytesCLLM:                      0                   0
  CLLMFailures:                                       0
```

dspportq

The **dspportq** command displays queue information for a specified port and egress queue on the AUSM.

Full Name

Display port queue information

Syntax

dspportq <port number> <egress queue number>

where:

<port number>	port number is in the range 1–4 for a 4 port card, 1–8 for an 8 port card
<egress queue number>	egress queue number is in the range 0 to 16 (zero for the default set with the addchan command, 1–12 for a four port card, 1–16 for an eight port card).

Related Commands

dspportqs, cnfportq

Cards on which the command executes

AUSM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example

```
dspportq 1 1
```

Description

Display queue information for egress queue 1 on port 1.

System Response

```
Service Port Num:               1
  Q Number:                     1
  Port Bin State:               Enabled
  Service Sequence:             1
  Queue Depth:                  100
  CLP  Threshold High (cells):  100
  CLP  Threshold Low (cells):   100
  EFCI Threshold:               100
  Queue Algorithm:              1
  Max Bandwidth Increment:      0
  Min Bandwidth Increment:      0
  Q CLP State:                  0
  Q Full Discarded Cells:       0
  CLP Set Discarded Cells:      0
```

dspportqs

The **dspportqs** command displays queue information for all the egress queues on an AUSM or an IM-ATM port.

Full Name

Display port queue information

Syntax

dspportqs <port number>

where:

<port number>	port number is in the range 1–4 for a 4 port card, 1–8 for an 8 port card

Related Commands

dspportq, cnfportq

Cards on which the command executes

AUSM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example

dspportqs 1

Description

Display egress queue information for all the egress queues on port 1.

System Response

```
Port   Q Num  State   Q-Algo Service-Seq Depth-Max  CLP-High  CLP-Low  EFCI-Thrsh
----  -----  -----   ------ ----------- ---------  --------  -------  ----------
  1     1    Enabled    3       1           200      180        160      160
  1     2    Enabled    3       2           900      800        700      700
  1     3    Enabled    3       3           900      800        700      700
  4     1    Enabled    3       1           200      180        160      160
  4     2    Enabled    3       2           900      800        700      700
  4     3    Enabled    3       3           900      800        700      700


Syntax : dspportqs
```

dspports

The **dspports** command displays information on all the ports on the current card.

Full Name

Display ports

Syntax

dspports

Related Commands

addport, **cnfport**, **delport**, **dspport**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspports

Description

Display the ports on the current FRSM.

System Response

```
 Port    Ena/Speed EQService  SignalType  T391 T392 N391 N392 N393 InAlarm
                     Ratio
-------- --- ----- --------- ------------ ---- ---- ---- ---- ---- -------
7.2.1    Add/1536k    1      NoSignalling   10   15    6    3    4   No
7.2.2    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.3    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.4    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.5    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.6    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.7    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.8    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.9    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.10   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.11   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.12   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.13   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.14   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.15   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.16   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.17   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.18   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.19   Add/  64k    1      NoSignalling   10   15    6    3    4   No
```

Example 2

dspports

Description

Display the ports on the current CESM.

System Response

```
Port     Ena/Speed   Type
------   --- ------ --------
6.2.2    Add/  64k structur
6.4.4    Add/1544k unstruct
6.6.6    Add/ 640k structur

Number of ports:    3

PortDs0UsedLine1:             0x00000000
PortDs0UsedLine2:             0x00000001
PortDs0UsedLine3:             0x00000000
PortDs0UsedLine4:             0x00ffffff
PortDs0UsedLine5:             0x00000000
PortDs0UsedLine6:             0x00003ff0
PortDs0UsedLine7:             0x00000000
PortDs0UsedLine8:             0x00000000
PortNumNextAvailable:         13
```

dsppwd

This command displays a password.

Full Name

Display password

Syntax

dsppwd <userid>

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

dspsdlcport

Displays an existing SDLC port on a FRASM card.

Full Name

Displays SDLC port

Syntax

dspsdlcport <port number> :

<port number>	port number in the range 1–192 for T1, 1–248 for E1

Related Commands

addsdlcport, **dspsdlcports**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–6

Example

```
dspsdlcport 69
```

Description

Displays the current configuration settings for the SDLC port 69. A typical display is shown below.

PortNum:	69
RowStatus:	Add
Role:	Primary
Topology:	Multipoint
SlowPollTimer:	10 sec(s)
FFAckMode:	Disable
FRMRDisable:	Enable
WindowSize:	7
N1:	12000 bit(s)
N2:	20
PollLimit:	1
PollPause:	10
PollWait:	10000
Simultaneous:	Disabled
T1:	3000
VMAC:	00000

dspsdlcports

Displays the configuration of all existing SDLC FRASM ports.

Full Name

Displays SDLC ports

Syntax

dspsdlcports

Related Commands

addsdlcport, **dspsdlcport**

Cards on which the command executes

FRASM

Attributes

Log: No State: Any state Privilege: 1–6

Example

```
dspsdlcports
```

Description

Displays the current configuration settings for each existing SDLC port. A typical display for a single port is shown below

.

Port	Ena/Role	Topol	SlowPoll	FFAck	Frmr	Wndw	N1	N2	Lmt	Pause	Wait
69	Add/Prim	Mul	10	Dis	Ena	7	12000	20	1	10	10000

dspsdlcportcnt

This command displays the current values of the SDLC counters for a specified port.

Full Name

Display SDLC port count

Syntax

dspsdlcportcnt <port_num> :

<port_num>	port number of the port for which the current SDLC counter values are to be displayed in the range 1–192 for T1, 1–248 for E1

Related Commands

clrsdlcportcnt

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1–2

Example 1

dspsdlcportcnt 12

Description

Displays the SDLC counter values for port 12.

A typical display is shown below.

Physical Failures	0
Invalid Addresses	6
Dwarf Frames	5
Polls In	5000
Polls Out	5125
Poll Rspn In	5125
Poll Rspn Out	5000
Local Busies	10
Remote Busies	25
I Frames In	3000
I Frames Out	4500
Octets In	128000
Octets Out	195000
Protocol Errors	2
Activity TOs	1
Retries Exps	2
Retransmits In	5
Retransmits Out	7

dspslftstbysm

The **dspslftststbysm** command displays the current configuration of self tests for standby service modules.

Full Name

Display self test standby service modules

Syntax

dspslftststbysm

Related Commands

cnfslftststbysm

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Any user

Example 1

dspslftststbysm

System Response

A typical response is shown below:

```
Selftest for Standby SMs is Disabled
Selftest period = 5 minutes
```

dspslftsttbl

Displays the current contents of the self test table.

Full Name

Display self test table

Syntax

dspslftsttbl

Related Commands

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspslftsttbl

System Response

A typical response is shown below:

```
Test #  Test Name          Thold Fail Pass Last Enab Destr Card Rst
  1     DRAM access test     1     0    0    P    Y    N     Y
  2     SRAM access test     1     0    0    P    Y    N     Y
  3     GRAM access test     1     0    0    P    Y    N     Y
  4     BRAM checksum test   1     0    0    P    Y    N     Y
  5     CODE checksum test   1     0    0    P    Y    N     Y
  6     PCMCIA access test   1     0    0    P    Y    N     N
  7     PCMCIA chkdsk        1     0    0    P    N    Y     N
  8     BNM loopback test    1     0    0    P    Y    Y     Y
```

dspsrmln

This command displays the configuration for a specified line on the SRM-3T3 card.

Full Name

Display SRM line

Syntax

dspsrmln

Related Commands

addln, **cnfln**, **delln**

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active on SRM-3T3 Privilege: 1–6

dspsrmlns

The **dspsrmlns** command display the configuration for all lines on the current SRM 3T3 card. The displayed parameters depend on the card (see example).

Full Name

Display SRM 3T3 lines

Syntax

dspsrmlns

Related Commands

addln, **cnfln**, **delln**

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active on SRM-3T3 Privilege: 1–6

Example

dspsrmlns

Description

Display lines on the current SRM 3T3 card.

System Response

```
Line  Enable       Type        Coding      Criteria   AIScBitsCheck  FELpbkStatus
---- -------- ------------     -------     --------   ------------- --------------
1.1  Disable  dsx3CbitParity   dsx1B3ZS   3 out of 8  Check C-bits  No far end
1.1  Disable  dsx3CbitParity   dsx1B3ZS   3 out of 8  Check C-bits  No far end 1
1.1  Disable  dsx3CbitParity   dsx1B3ZS   3 out of 8  Check C-bits  No far end


  LineNumOfValidEntries: 3
```

dspstatparms

This command displays the current statistics parameters.

Full Name

Display statistic parameters

Syntax

dspstatparms

Related Commands

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

Example

```
dspstatparms
```

System Response

A typical response is shown below:

dspstungroup

This command displays a STUN protocol group.

Full Name

Display STUN Protocol Group

Syntax

dspstungroup <group_num> :

<group_num>	number of STUN group to display in the range 1–255

Related Commands

addstungroup, **delstungroup**, **dspstungroups**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspstungroup 2
```

Description

Displays the current configuration settings for STUN group number 2. A typical display is shown below.

GroupNum:	2
Type:	SDLC

dspstungroups

This command displays all currently active STUN protocol groups.

Full Name

Display STUN Protocol Groups

Syntax

dspstungroups

Related Commands

addstungroup, **delstungroup**, **dspstungroup**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspstungroups
```

Description

Displays the current configuration settings for each existing STUN group. A typical display for a single port is shown below

Group Num	Type
2	SDLC

Number of STUN protocol groups:1

dspstunport

This command displays a STUN port.

For more information about using STUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Display STUN Port

Syntax

dspstunport <port_num> :

<port_num>	port number in the range 1–192 for T1, 1–248 for E1

Related Commands

addstunport, **delstunport**, **dspstunports**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspstunport 2
```

Description

Displays STUN port 2.

dspstunports

This command displays all currently active STUN ports.

For more information about using STUN and its commands, refer to the *Cisco MGX 8220 Reference*.

- Chapter 4, “MGX 8220 Service Modules”, in section, “Frame Relay Access Service Module”
- Chapter 5, “Service Configuration”, in section, “FRASM Connections”

Full Name

Display STUN Ports

Syntax

dspstunports

Related Commands

addstunport, **delstunport**, **dspstunport**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspstunports
```

dspstunroute

This command displays the parameter values for a STUN route.

Full Name

Display STUN Route

Syntax

dspstunroute <port_num> <lsaddress> :

<port_num>	port number of the STUN route to be displayed in the range 1–192 for T1, 1–248 for E1
<lsaddress>	address of the SDLC Link Station in the range 0x01–0xFF

Related Commands

addstunroute, **delstunroute**, **dspstunroutes**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspstunroute 69 3
```

Description

Displays the Stun Route for port 69, lsaddress of 3.

A typical display is shown below.

PortNum:	69
RowStatus:	Add
Lsaddress:	3
Chan Num:	69
LSAP:	5
LocalAck:	true

dspstunroutes

This command displays the parameter values for all current STUN routes.

Full Name

Display STUN Routes

Syntax

dspstunroutes

Related Commands

addstunroute, **delstunroute**, **dspstunroute**

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
dspstunroutes
```

Description

A typical display is shown below.

Port	Address	Channel (LCN)	LSAP	LocalAck
69	3	69	5	True

Number of STUN routes: 1

dspsarcnt

The **dspsarcnt** command displays the Segmentation and Reassembly (SAR) counters for the specified channel on the current card.

Full Name

Display SAR counters

Syntax

dspsarcnt <ChanNum>

where ChanNum is:

- For FRSM4, 16–271
- For FRSM8, 16–1015
- For ASC, 0–1024
- For AUSM, 16–271
- For AUSM8, 16–1015
- For CESM4, 16–23
- For CESM8, 32–279
- For IM-ATM, 16–23

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dspsarcnt 22

Description

Display SAR count on the current FRSM, channel 22.

System Response

```
                            SarShelfNum:         1
                            SarSlotNum:          13
                            SarChanNum:          22
                                  Tx                      Rx
                            ---------------       ---------------
    Total Cells:            11227853              11529804
    Total CellsCLP:         0                     0
    Total CellsAIS:         498805                0
    Total CellsFERF:        0                     302222
    Total CellsEnd2EndLpBk: 0                     0
    Total CellsSegmentLpBk: 0                     0
    RcvCellsDiscOAM:                              0


  Syntax : dspsarcnt "chan_num"
           channel number -- value ranging from 16 to 271

           possible errors are :
           a) illegal/invalid parameters
           b) channel doesn't exist
```

Example 2

dspsarcnt 32

Description

Display SAR count for channel 32 on the current card (a CESM).

System Response

```
                              SarShelfNum:         1
                              SarSlotNum:          7
                              SarChanNum:          32
                                    Tx                      Rx
                              ---------------       ---------------
Total Cells:                  7493                   7414
Total CellsCLP:               0                      0
Total CellsAIS:               4                      4
Total CellsFERF:              3                      3
Total CellsEnd2EndLpBk:       0                      0
Total CellsSegmentLpBk:       0                      0
RcvCellsDiscOAM:                                     0
```

dspsarcnts

Displays the current SAR (segmentation and reassembly) counter values for all channels.

Full Name

Display SAR counters

Syntax

dspsarcnts

Related Commands

dspsarcnt

Cards on which the command executes

ASC FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

```
dspsarcnts
```

System Response

A typical response is shown below:

```
                          SarShelfNum:         1
                          SarSlotNum:          4
                          SarChanNum:          98
                                Tx                      Rx
                          ---------------       ---------------
  Total Cells:            141357                 0
  Total CellsCLP:         0                      0
  Total CellsAIS:         0                      0
  Total CellsFERF:        0                      0
  Total CellsEnd2EndLpBk: 0                      0
  Total CellsSegmentLpBk: 0                      0
  RcvCellsDiscOAM:                               0

Type <CR> to continue, Q<CR> to stop:

                          SarShelfNum:         1
                          SarSlotNum:          4
                          SarChanNum:          114
                                Tx                      Rx
                          ---------------       ---------------
  Total Cells:            283600                 296016
  Total CellsCLP:         0                      0
  Total CellsAIS:         0                      0
  Total CellsFERF:        0                      0
  Total CellsEnd2EndLpBk: 0                      0
  Total CellsSegmentLpBk: 0                      0
  RcvCellsDiscOAM:                               0

Type <CR> to continue, Q<CR> to stop:
Q
```

dspshelfalm

The **dspshelfalm** command displays the shelf alarms for the MGX 8220 shelf. If no alarm number is specified, the status of every alarm is displayed. See the example for the number for each alarm.

In the **dspshelfalm** display, the State column shows whether the alarm has been asserted. “Normal” means that no alarm has been asserted. If an alarm were asserted, State would show “Above Normal” or “Below Normal”. The presence of the word “missing” in the State column means that the input is missing or ignored. The content of the Severity column indicates what the severity of the alarm would be if the alarm were asserted.

Full Name

Display shelf alarms

Syntax

dspshelfalm [alarm number]

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

Example

dspshelfalm

Description

Display the status of all the shelf alarms.

System Response

```
Alarm     Type     Unit Thresh Severity Measurable Val State
----- ------------ ---- ------ -------- ---------- --- -----
  1   Temperature    1  50      Minor      Yes    40  Normal
  2   Power Supply   1  0       Minor      No     0   missing
  3   Power Supply   2  0       Minor      No     0   missing
  4   DC Level       1  42-54   Minor      Yes    0   missing
  5   DC Level       2  42-54   Minor      Yes    47  Normal
  6   Fan Unit       1  2000    Minor      Yes    0   missing
  7   Fan Unit       2  2000    Minor      Yes    0   missing
  8   Fan Unit       3  2000    Minor      Yes    0   missing
  9   Fan Unit       4  2000    Minor      Yes    0   missing
  10  Fan Unit       5  2000    Minor      Yes    0   missing
  11  Fan Unit       6  2000    Minor      Yes    0   missing

 ASMNumOfValidEntries: 11
 ASMShelfAlarmState:   2
```

dspslotlnk

The **dspslotlnk** command displays SRM-3T3 link information for a specified slot.

Full Name

Display slot link

Syntax

dspslotlnk <slot number>

where:

<slot number>	slot number for which the links are to be displayed. Range is 5 through 14

Related Commands

delslotlnk

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active Privilege: 1

System Response

SlotLine	T3Line	T1
7.1	1	1
7.2	1	2
7.3	1	3
7.4	1	4

dspsmcnf

The **dspsmcnf** command displays configuration enables for the service modules in the system. The output displays the following for each service module slot:

- Whether a card is present and a configuration exists
- Whether rate control is on or off
- Whether the card is channelized
- The number of the MIB version

Full Name

Display service module configuration.

Syntax

dspsmcnf

Related Commands

clrsmcnf

Cards on which the command executes

ASC

Attributes

Log: Yes State: Any Privilege: 1–6

Example

dspsmcnf

Description

System Response

```
MGX 82203.1.3.ASC.a > dspsmcnf

          slot #     Config       Config       Rate        Channelized      MIB
                   Card Type      exist       Control                      Version

          ------   ---------      ------      -------      -----------     ------
             5        --            No          Off            Off            0
             6        --            No          Off            Off            0
             7     FRSM-4T1        Yes          Off            Off            5
             8        --            No          Off            Off            0
             9        --            No          Off            Off            0
            10        --            No          Off            Off            0
            11     FRSM-4E1        Yes           On             On            5
            12     FRSM-4T1        Yes           On             On            5
            13     FRSM-4T1        Yes           On             On            5
            14     AUSM-4T1        Yes           On             Off           4

MGX 82203.1.3.ASC.a >
```

dspsrmclksrc

The **dspsrmclksrc** command displays the SRM 3T3 clock sources for all the T3 lines.

Full Name

Display SRM clock source

Syntax

dspsrmclksrc

Related Commands

cnfsrmclksrc

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active Privilege: 1

System Response

T3Line	lineXmtClockSource
1.1	backplane clock from BNM
1.2	backplane clock from BNM
1.3	backplane clock from BNM

dspsvcrange

This command displays switched virtual circuit resource parameters on the current AUSM8 card.

Full Name

Display switched virtual circuit range

Syntax

dspsvcrange

Related Commands

cnfsvcrange

Cards on which the command executes

AUSM8

Attributes

Log: Yes State: Any Privilege: Any

dspslftst

This command displays the self test routine on the current card.

Full Name

Display self test

Syntax

dspslftst

Related Commands

clrslftst, **cnfslftst**, **runslftstno**

Cards on which the command executes

ASC, FRSM, AUSM, SRM-3T3, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: Any user

Example

```
dspslftst
```

Description

Display the self test results for the switch.

System Response

```
SelfTestEnable:            Disable
SelfTestPeriod:            5
SelfTestState:             SelfTest Passed
SelfTestResultDescription: No failure information available
```

dsptotals

Displays the line, port and channel totals for the current card.

Full Name

Display totals

Syntax

dsptotals

Related Commands

none

Cards on which the command executes

FRSM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

dsptotals

System Response

A typical response is shown below

```
total active lines = 0/4
total active ports = 0/96
total active chans = 0/256
```

dsptrapmgr

The **dsptrapmgr** command displays the contents of the trap manager table.

Full Name

Display trap manager

Syntax

dsptrapmgr <ip addr>

where:

<ip addr>	IP address of the trap manager = nnn.nnn.nnn.nnn, where n = 0 to 9 and nnn < 256

Related Commands

addtrapmgr, cnftrapmgr, deltrapmgr, dsptrapmgrs

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 1–2

Example 1

`dsptrapmgr 1.1.1.1`

System Response

A typical response is shown below:

```
ipaddr:         1.1.1.1
PortNum:        162
RowStatus:      Add
ReadTrapFlag:   Off
NextTrapSeqNum: 396
TimeOut:        Disabled
Age:            0 minutes
```

dsptrapmgrs

The **dsptrapmgrs** command displays the contents of all the SNMP Managers that receive traps.

Full Name

Display trap managers

Syntax

dsptrapmgrs

Related Commands

addtrapmgr, cnftrapmgr, deltrapmgr, dsptrapmgr

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–2

Example

dsptrapmgrs

System Response

A typical response is shown below

```
   ipAddress     PortNum  RowStatus   ReadTrapFlag  NextTrapSeqNum
---------------  -------  ----------  ------------  --------------
192.168.3.251      2500       Add           Off       571
192.168.3.254      2500       Add           Off       631

LastTrapSeqNum:  631
NumOfValidEntries:  2
```

dspred

Displays currently configured redundant slot links.

Full Name

Display redundancy

Syntax

dspred

Related Commands

addred, **delred**

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

dspusers

Displays the users that have been added to the shelf configuration. The screen output shows the user name and highest privilege level and includes a display of the number of those levels above user-privilege.

Full Name

Display users

Syntax

dspusers

Related Commands

adduser, **deluser**

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

Example

dspusers

Description

Display the users configured for this shelf. The users in this example are Raoul and Duke.

System Response

```
      User Id      level
    StrataCom      -2
      Service      -1
    SuperUser       0
        raoul       3
         duke       1
```

Help

Lists the commands available on the current card. The **Help** command is case-sensitive. This command takes no arguments, so it does not display information on individual commands.

Full Name

Help

Syntax

Help

Related Commands

none

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example

`Help`

Description

Display the commands available on the current card. In this case, the card is an ASC.

System Response

```
dsptrapmgr
clrmsgcnt
clrsarcnt
dspadrxlat
cnfalm
dspalmcnf
cnfcnt
clrbnmcnt
cnfifip
dspifip
cnftime
cnfdate
cnfname
cnfclksrc
dspclksrc
dspshelfalm
dspbnmcnt
dspcd
dspsarcnt
dspmsgcnt
dspalm
dspalms
dspalmcnt
dspln
dsplns
dspcds
```

ifShow

The **ifShow** command displays the contents of all the currently configured interfaces.

Full Name

Show Interfaces

Syntax

ifShow

:

Related Commands

memShow, routeShow

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: Service

Example 1

```
ifShow
```

System Response

A typical response is shown below:

logout

The **logout** command lets you exit the current CLI shell.

Full Name

Log Out

Syntax

logout

Related Commands

bye

Cards on Which This Command Executes

ASC, FRSM, AUSM, IM-ATM

Attributes

Log: Yes State: Any Privilege: Any

Example

logout

Description

Log out of the current CLI shell.

System Response

```
(session ended)
```

memShow

The **memShow** command displays the current memory map.

Full Name

Show memory

Syntax

memShow

Related Commands

ifShow, routeShow

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: Service

Example

```
memShow
```

System Response

A typical response is shown below:

modbert

The **modbert** command injects errors into the shelf for bit error rate testing.

Full Name

Modify Bit Error Rate Test

Syntax

modbert

Related Commands

dspbert, **startbert**, **cnfbert**, **delbert**

Cards on which the command executes

ASC

Example

```
AXISNAME.1.3.ASC.a > modbert
```

System Response

A typical response is shown below:

```
Injecting errors...
Done.
```

myid

Displays the login name of the current user.

Full Name

My ID

Syntax

myid

Related Commands

none

Cards on which the command executes

ASC, FRSM, AUSM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example

```
myid
```

Description

Display the login name of the current user.

System Response

```
StrataCat
```

resetcd

The **resetcd** command resets the hardware or failure history on the current ASC. Without a slot number, the command resets only the ASC. With a slot number, **resetcd** resets the card in the specified slot.

Full Name

Reset card

Syntax

resetcd [slot number]

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 1–3

revdn

This command displays

Full Name

Syntax

revdn

Related Commands

revup

Cards on which the command executes

Attributes

Log: Yes State: Active Privilege: 1–6

revup

This command displays

Full Name

Syntax

revup

Related Commands

revdn

Cards on which the command executes

Attributes

Log: Yes State: Active Privilege: 1–6

routeAdd

The **routeAdd** command adds a route on the MGX 8220 shelf.

Full Name

Add routes

Syntax

routeAdd

:

Related Commands

routeDelete

Cards on which the command executes

ASC

Attributes

Log: Yes State: Any Privilege: Any user

Example 1

routeDelete

The **routeDelete** command deletes all routes on the MGX 8220 shelf.

Full Name

Delete routes

Syntax

routeDelete

:

Related Commands

routeAdd

Cards on which the command executes

ASC

Attributes

Log: Yes State: Any Privilege: Any user

Example 1

routeShow

The **routeShow** command displays all the currently configured routes on the MGX 8220 shelf.

Full Name

Show routes

Syntax

routeShow

:

Related Commands

ifShow, memShow

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: Any user

Example 1

```
routeShow
```

System Response

A typical response

routestatShow

Full Name

Show route status

Syntax

routestatShow

:

Related Commands

ifShow, memShow, routeShow

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: Any user

Example

```
routestatShow
```

System Response

runslftstno

The **runslftstno** command runs the self test with the specified self test number on the current card.

Full Name

Run self test number

Syntax

runslftstno<Test #>

where:

<Test #>	Test # is number of the test to be run. If this parameter is omitted, all tests are run

Related Commands

none

Cards on which the command executes

ASC, FRSM, AUSM, CESM

Attributes

Log: Yes State: Active Privilege: 1–2

Example 1

```
NODENAME.1.19.AUSM8.a > runslftstno
```

Description

Run all self tests on the current card (an AUSM).

System Response

```
Test #  Test Name          Thold Fail Pass Last Enab Destr Card Rst
  1     DRAM access test     1     0    0    P    Y    N     Y
  2     SRAM access test     1     0    0    P    Y    N     Y
  3     GRAM access test     1     0    0    P    Y    N     Y
  4     BRAM checksum test   1     0    0    P    Y    Y     Y
  5     CODE checksum test   1     0    0    P    Y    N     Y
  6     Line loopback test   1     0    0    P    Y    Y     Y
  7     CellBus test         1     0    0    P    Y    N     N
  8     DPRAM test           1     0    0    P    Y    N     Y
  9     CSERAM test          1     0    0    P    Y    N     Y
 10     CAM test             1     0    0    P    Y    Y     Y
 11     IMA grp lpbk test    1     0    0    P    Y    Y     Y
runslftstno "Test #"


NODENAME.1.19.AUSM8.a >
```

Example 2

```
NODENAME.1.1.FRSM.a > runslftstno
```

Description

Run all self tests on the current card (an FRSM).

System Response

```
Test #  Test Name          Thold Fail Pass Last Enab Destr Card Rst
  1     DRAM access test     1     0    0    P    Y    N     Y
  2     SRAM access test     1     0    0    P    Y    N     Y
  3     GRAM access test     1     0    0    P    Y    N     Y
  4     BRAM checksum test   1     0    0    P    Y    N     Y
  5     CODE checksum test   1     0    0    P    Y    N     Y
  6     Line loopback test   1     0    0    P    Y    Y     Y
  7     M32 test             1     0    0    P    Y    Y     N
  8     Data loopback test   1     0    0    P    N    Y     Y
  9     CellBus test         1     0    0    P    Y    N     N
runslftstno "Test #"

NODENAME.1.1.FRSM.a >
```

Example 3

```
runslftstno 1
```

Description

Run the self test with the specified self test number on the current card.

System Response

```
Test Number 1 Result: PASS
```

softswitch

This command switches control from the primary service module to the secondary (or redundant) service module. The primary service module will reboot and will come up in standby mode. Use the **switchback** command to revert to normal operation after a **softswitch**.

Full Name

Switch to Redundant from Primary

Syntax

softswitch <PrimarySlotNum> <SecondarySlotNum>

where:

<PrimarySlotNum>	slot number of the slot containing the primary card of the card pair. Range = 5–14
<SecondarySlotNum>	slot number of the slot containing the secondary card of the card pair. Range = 5–14

Related Commands

switchback, addred, delred, dspred

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: Any

startbert

The **startbert** command starts bit error rate testing on the shelf.

Full Name

Start Bit Error Rate Test

Syntax

startbert

Related Commands

dspbert, **cnfbert**, **modbert**, **delbert**

Cards on which the command executes

ASC

switchback

Use this command to revert to normal operation after a softswitch. the switchback command switches control from the secondary (or redundant) service module back to the primary service module. The secondary (or redundant) service module will reboot and will come up in standby mode

Full Name

Switch Back to Primary from Redundant

Syntax

switchback <PrimarySlotNum> <SecondarySlotNum>

where:

<PrimarySlotNum>	slot number of the slot containing the primary card of the card pair. Range = 5–14
<SecondarySlotNum>	slot number of the slot containing the secondary card of the card pair. Range = 5–14

Related Commands

softswitch, addred, delred, dspred

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: Any

switchcc

The **switchcc** command switches control of the MGX 8220 shelf from the active ASC/BNM core card group to the standby ASC/BNM. The ASC in slot 3 is associated with the BNM in slot 1. The ASC in slot 4 is associated with the BNM in slot 2. If the standby cards are not available, the command is not executed.

During a config copy, this command is disabled. If the command is attempted during a config copy, a “Can’t execute, BRAM or FLASH is being updated” message is displayed.

Full Name

Switch core cards

Syntax

switchcc

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 1–3

tstcon

Tests the integrity of a connection between an MGX 8220 card and a remote end within the WAN switching network by sending a single collection of supervisory cells to the remote end. The terminal displays only a pass or fail message.

Full Name

Test connection

Syntax

tstcon <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

dspcons, **tstconseg**, **tstdelay**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Active Privilege: 1–4

tstconseg

Tests the integrity of a connection between an MGX 8220 card and service equipment (CPE) by sending a single collection of supervisory cells to the remote end. The terminal displays only a pass or fail message.

Full Name

Test connection segment

Syntax

tstconseg <channel number>

where:

<channel number>	range 16–271 for 4 port, 16–1015 for 8 port

Related Commands

dspcons, **tstcon**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Active Privilege: 1–4

tstconsti

Full Name

Test connection segment

Syntax

tstconsti<channel number>

where:

<channel number>	range 16–271 for 4 port, 16–1015 for 8 port

Related Commands

dspcons, **tstcon**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Active Privilege: 4

tstdelay

Externally tests the integrity of a connection by sending a single collection of supervisory cells to the remote end of the network and back. The terminal displays a pass or fail message and the round trip time in milliseconds.

Full Name

Test round trip delay

Syntax

tstdelay <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

dspcons, **tstcon**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Active Privilege: 1–4

Example

tstdelay 16

Description

Test the delay for a round trip to and from the network on channel 16.

System Response

```
MGX 822061.1.10.AUSM.a > tstdelay 16

TestDelay in progress.

TestDelay Passed with 2 ms.

MGX 822061.1.10.AUSM.a >
```

tstdelaysti

Full Name

Test delay sti

Syntax

tstdelaysti <channel no.>

where:

channel no.	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

tstdelay

Cards on which the command executes

AUSM, CESM, FRSM

Attributes

Log: No State: Active Privilege: 4

updatestandby

Full Name

update standby

Syntax

updatestandby

Related Commands

Cards on which the command executes

Attributes

Log: Yes State: Active Privilege: 0

upport

The **upport** command ups a port. No messages appear on screen unless an error occurs.

Full Name

Up port

Syntax

upport <PortNum>

where:

<PortNum>	PortNum = 1–4 for 4 port, 1–8 for 8 port

Related Commands

dnport

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1

users

Lists the users logged into the current card. The screen display shows the means through which each user logged into the shelf, the slot number of the current card, and the login name of the users.

Full Name

Users

Syntax

users

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

Example

users

Description

Display the users logged into the current ASC.

System Response

```
 Port    SlotNum    user ID
Telnet      4       StrataCat
```

verifyhd

This command verifies the hard disk on the ASC

Full Name

Verify Hard Disk

Syntax

verifyhd

Related Commands

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

version

The **version** command displays different types of version-related information, such as firmware version, operating system kernel version, the date of the software build, and so on (refer to screen examples).

Full Name

Display versions

Syntax

version

Related Commands

none

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

version

Description

```
Display version information on the current card (ASC).
***** StrataCom Inc. MGX 8220 ASC Card *****
Firmware Version           =     shenlee
Backup Boot version        =     model-B BT_2.1.2
ASCFRSM Xilinx file        =     asc025.h
ASCBNM Xilinx file         =     bnm_newIte
ASCBNM Altera file         =     bnm155
SRM-T1E1 Xilinx file       =     srm038.h
SRM-3T3 Encoder file       =     encoder42_004.ttf
SRM-3T3 Encoder-2 file     =     encoder80_001.ttf
SRM-3T3 Decoder file       =     decoder42_004.ttf
SRM-3T3 Clock file         =     clkctrl_37.ttf
SRM-3T3 I-Cube file        =     ic320.h
VxWorks (for StrataCom) Version 5.1.1-R3000
Kernel: WIND version 2.4
Made on Thu Mar 20 16:53:19 PST 1997
Boot line:
ln (0.0)
```

System Response

```
MGX 82203.1.3.ASC.a > version

***** Stratacom Inc. MGX 8220 ASC Card *****2
Firmware Version=shenlee
Backup Boot version=model-B BT_2.1.2
ASCFRSM Xilinx file=asc025.h
ASCBNM Xilinx file=bnm_newIte
ASCBNM Altera file=bnm155
SRM-T1E1 Xilinx file=srm038.h
SRM-3T3 Encoder file=encoder42_004.ttf
SRM-3T3 Encoder-2 file=encoder80_001.ttf
SRM-3T3 Decoder file=decoder42_004.ttf
SRM-3T3 Clock file=clkctrl_37.ttf
SRM-3T3 I-Cube file=ic320.h
VxWorks (for STRATACOM) version 5.1.1-R3000.
Kernel: WIND version 2.4.
Made on Wed Feb 14 16:06:24 PST 1996.
Boot line:
sl(0,0)

MGX 82203.1.3.ASC.a >
```

Example 2

version

Description

Display version information on the current card (FRSM).

System Response

```
MGX 82203.1.11.FRSM.a > version

***** Stratacom Inc. MGX 8220 FRSM Card *****
    Firmware Version    = eqa2.0.1g
    Backup Boot version = model-B BT_2.0.0
    ASCFRSM Xilinx file = frsm025.h
VxWorks (for STRATACOM) version 5.1.1-R3000.
Kernel: WIND version 2.4.
Made on Wed Feb 14 16:15:08 PST 1996.
Boot line:


MGX 82203.1.11.FRSM.a >
```

Example 3

`version`

Description

Display version information on the current card (AUSM).

System Response

```
MGX 82203.1.14.AUSM.a > version

***** StrataCom Inc. MGX 8220 AUSM Card *****
    Firmware Version    = model-A 2.0.00
    Backup Boot version = model-A BT_eqa2.0.1
    AUSM Xilinx file = ausmfract.h
VxWorks (for STRATACOM) version 5.1.1-R3000.
Kernel: WIND version 2.4.
Made on Fri Feb 9 18:59:08 PST 1996.
Boot line:


MGX 82203.1.14.AUSM.a >
```

xaddcon

This command adds a connection to the current AUSM.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Add connection

Syntax

xaddcon <channel number> <connection type> <port number> <vpi> <vci> <service type> <egress queue number>

where:

<channel number>	channel number has a range of 16–271 for 4 port cards, 16–1015 for 8 port cards
<connection type>	connection type is either 1 for VPP or 2 for VCC
<port number>	port number is in the range 1–4 for 4 port cards, 1–8 for 8 port cards
<vpi>	vpi has a value in the range 0–255
<vci>	vci has a value in the range 0–65535
<service type>	service type can be: 1 = CBR, 2 = VBR, and 3 = ABR
<egress queue number>	egress queue number is in the range 1–12 for a four port card, 1–16 for an eight port card. 0 is the default in **xaddcon**.

Related Commands

delcon, **dspcons**, **dspcon**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

Example

```
xaddcon 16 2 1 1 1 3 1
```

Description

Add a VCC connection to channel 16 on port 1 with vpi=1, vci=1, ABR service type, and an egress queue number of 1.

System Response

No system response unless an error occurs.

xclrchancnt

This command clears the channel counters for a specified frame relay channel on an FRSM, CESM, IM-ATM, or AUSM. Counting resumes after the command executes.

Full Name

Clear channel counters

Syntax

xclrchancnt <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

dspchan, **clrchancnts**, **dspchancnt**

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attribute

Log: No State: Any Privilege: 1–5

System Response

No system response unless an error occurs.

xclrportcnt

This command is used to clear the values of a port's counters on the current AUSM or FRSM.

No message appears upon successful execution of the command.

Full Name

Clear port counters

Syntax

xclrportcnt <port number>

where:

On an AUSM, <port number> is in the range 1–4 for a 4 port card, 1–8 for an 8 port card.

On an FRSM, <port number> is in the range 1–96 for a four port T1 card, 1–124 for a four port E1 card, 1–192 for an eight port T1 card, or 1–248 for an eight port E1 card.

Related Commands

clrportcnts, **xdspportcnt, xdspportcnt, dspportcnt**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Any Privilege: 1–5

System Response

No system response unless an error occurs.

xcnfalm

This command configures extended alarm counters and statistics for the specified line.

Full Name

Configure extended alarm counters and statistics

Syntax

xcnfalm -ds1 <LineNum> -red <RedSeverity> -rai <RAISeverity> -neu <NEAlarmUpcount> -ned <NEAlarmDncount> -net <NEAlarmThreshold> -feu <FEAlarmUpcount> -fed <FEAlarmDncount> -fet <FEAlarmThreshold>

where:

<LineNum>	LineNum is the line number only, which is a number in the range 1–*n*, where *n* is the maximum number of lines on the interface.
<RedSeverity>	RedSeverity is a number in the range 1–2, where 1: Minor, 2: Major.
<RAISeverity>	RAISeverity is a number in the range 1–2, where 1: Minor, 2: Major.
<NEAlarmUpcount>	NEAlarmUpcount is a number in the range 1–65335.
<NEAlarmDncount>	NEAlarmDncount is a number in the range 1–65335.
<NEAlarmThreshold>	NEAlarmThreshold is a number in the range 1–65335.
<FEAlarmUpcount>	FEAlarmUpcount is a number in the range 1–65335.
<FEAlarmDncount>	FEAlarmDncount is a number in the range 1–65335.
<FEAlarmThreshold>	FEAlarmThreshold is a number in the range 1–65335.

Related Commands

xcnfalmcnt

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
xcnfalm "-ds1 1 -red 1 -rai 1 -neu 100 -ned 100 -net 100 -feu 100 -fed 100 -fet 100
```

Description

Configure the ds1 line 1 alarms so that RED and RAI are both minor alarms, and the up and down counts and threshold for both FE and NE are all set to 100:

System Response

No system response unless an error occurs.

xcnfalmcnt

This command configures the extended alarm counters for the specified line.

Full Name

Configure Extended Alarm Counters.

Syntax

xcnfalmcnt ds1 <LineNum> -sev <StatisticalAlarmSeverity> -lcv15 <lCV15minThreshold> -lcv24 <lCV24hrThreshold> -les15 <lES15minThreshold> -les24 <lES24hrThreshold> -lses15 <lSES15minThreshold> -lses24 <lSES24hrThreshold> -crc15 <cRC15MinThreshold> -crc24 <cRC24HrThreshold> -crces15 <cRCES15MinThreshold> -crces24 <cRCES24HrThreshold> -crcses15 <cRCSES15MinThreshold> -crcses24 <cRCSES24hrThreshold> -sefs15 <sEFS15minThreshold> -sefs24 <sEFS24hrThreshold> -aiss15 <aISS15minThreshold> -aiss24 <aISS24hrThreshold> -uas15 <uAS15minThreshold> -uas24 <uAS24hrThreshold>

Related Commands

cnfalm, dspalmcnt

Cards on which the command executes

ASC, AUSM, FRSM, CESM

Attributes

Log: Yes State: Active Privilege: 3

System Response

No system response unless an error occurs.

xcnfchan

This command configures the extended parameters for a channel.

Full Name

Configure Extended Channel Parameters

Syntax

xcnfchan -chn <ChanNum> -en <ChanStatus> [-cbrserv <CBRService> -clkmode <MODE> -cdv <CDV> -clip <CLIP> -maxbuf <MAX BUF SIZE>]

Related Commands

cnfchan, delchan, xdspchan, dspchan

Cards on which the command executes

CESM

Attributes

Log: Yes State: Active Privilege: 2

Example 1

```
xcnfchan "-chn <ChanNum> -en <ChanStatus> [ -cbrserv <CBRService>
     -clkmode <MODE> -cdv <CDV> -clip <CLIP> -maxbuf <MAX BUF SIZE> ]"
  -chn <ChanNum> where ChanNum = 16 - 264
  -en <ChanRowStatus> where ChanRowStatus 1:add,2:delete,3:modify
  -cbrserv <CBRService> where, CBRService = 1-2, 1: unstructured  2:structured
  -clkmode <MODE> where MODE = 1-3, 1:Synchronous, 2:SRTS, 3:Adaptive
  -cas <CesCas> where CesCas =  1 - 5, 1: Basic 2: E1Cas

3: Ds1SF_Cas 4: Ds1ESF_Cas 5: CCS
  -pf <PartialFil> where PartialFil =  0 - 47
  -maxbuf <SIZE> where SIZE= 1-35565
  -cdv <CDV> where CDV = 1 - 65535
  -clip <CLIP> where CLIP = 1000-65535
  -rmtlb <LocalRemoteLoopbackState> where
        LocalRemoteLoopbackState = 1 - 2, 1: enabled 2: disable
  -tstyp <TestType>
  -pt <PortNum> where PortNum = 1 - n, n = 192 if T1; n = 248 if E1
  -contp <ConnType> where ConnType = 1 - 2, 1: PVC 2: SVC
  -chiden <idleDetType> where idleDetType = 1 - 3,
 1: disable 2: enableOnhookDet 3: enableIdlePatternDet
  -condat <CondData> where CondData = 0 - 255
  -condsig <CondSigCode> where CondSigCode = 0 - 255
  -exis <ExtIdlSupp> where ExtIdlSupp = 1 - 2,

1: DisableSupression 2: EnableSupression
  -idintpd <IntgrPeriod> where IntgrPeriod = 0 - 100
  -chidsig <IdleSigCode> where IdleSigCode = 0 - 255
-onhkcd <OnhookCode> where OnhookCode = 0 - 15
```

System Response

No system response unless an error occurs.

xcnfilmi

This command configures a port's local management interface. No messages appear on screen unless an error occurs.

Full Name

Configure ILMI

Syntax

xcnfilmi <port_num> <signal_type> <vpi> <vci> <scr> <trap_enable> <min_trap_int> <keep_alive>

where:

<port_num>	port number in the range 1–4 for a four port card, 1–8 for an eight port card
<signal_type>	signalling type: 1 = other, 2 = no signalling, and 3 = ILMI
<vpi>	virtual path identifier in the range 0–259
<vci>	virtual circuit identifier in the range 0–65535
<scr>	virtual circuit identifier in the range 0–65535
<trap_enable>	ILMI trap enable: 1 = disable, 2 = enable
<min_trap_int>	minimum trap interval in the range 1–10 seconds.
<keep_alive>	enable for Keep Alive Polling: 1 = disable, 2 = enable

Related Commands

xdspilmi, dspilmi, **dspilmicnt**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 2

System Response

No system response unless an error occurs.

xcnfln

This command configures a line on the current card to be either T1 or E1. If the command line does not include the E1 signalling parameter, the line is a T1.

Full Name

Configure line

Syntax

xcnfln <line_num> <line_code> <line_len> <clk_src> [E1-signalling]

where:

<line_num>	port number in the range 1–4 for a four port card, 1–8 for an eight port card
<line_code>	line coding: 2 for B8ZS, 3 for HDB3, 4 for AMI
<line_len>	line length: 1–7 for T1, 8–9 for E1
<clk_src>	clock source: 1 for loop clock; 2 for local clock
[E1-signalling]	CAS: CAS, no CRC CAS_CRC: CAS with CRC CCS: CCS no CRC CCS_CRC: CCS with CRC CLEAR: Clear E1

Related Commands

xcnfln, cnfln, xaddln, addln, **delln**

Cards on which the command executes

FRSM, AUSM, CESM, IM-ATM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
xcnfln 4 2 1 1
```

Description

Configure line 4 to be T1 with B8ZS line coding, have a length of 1, and use the loop clock as a clock source.

System Response

No system response unless an error occurs.

xcnfport

This command configures a service port on an FRSM or an AUSM.

The screen does not display a message after successful command entry. The configuration can be verified using the **xdspport** or **dspport** command.

The syntax for this command is differs according to the service module being addressed.

Summary for FRSM

Full Name

Configure port

Syntax

xcnfport <port_num> <lmi_sig> <asyn> <T391> <T392> <N391> <N392> <N393> <CLLMEN> <CLLMTM>

where:

<port_num>	port number in the range 1–96 for four port T1, 1–124 for four port E1, 1–192 for eight port T1, 1–248 for eight port E1
<lmi_sig>	LMI signalling: 1 = Other, 2 = None, 3 = StrataLMI, 4 = AnnexAUNI, 5 = AnnexDUNI, 6 = AnnexANNI, 7 = AnnexDNNI
<asyn>	asynchronous status updates are either enabled [(y)es] or disabled [(n)o].
<T391>	T391 timer is in the range 5–30 sec. This is the `interval in seconds for status polling. This timer is for NNI.`
<T392>	T392 timer is in the range 5–30 sec. This is the `interval in seconds to expect status polling. This timer is for UNI.`
<N391>	N391 counter is in the range 1–255. This is the `number of UNI/NNI polling cycles.`
<N392>	N392 counter is in the range 1–10. This is the UNI/NNI error threshold.
<N393>	N393 counter is in the range 1–10. This is the UNI/NNI `monitored event count. It is always greater than the value for the N392 counter (the UNI/NNI` error threshold).
<CLLMEN>	CLLM Enable is either 1 = Disable or 2 = Enable. Enables or disables Consolidated Link Layer Management messages.
<CLLMTM>	CLLM Timer is in the range 40–5000 ms. Sets the time between Consolidated Link Layer Management messages.

Possible errors are:

- illegal/invalid parameters
- port doesn't exist, use **addport** command to add port first
- LMI NNI not enabled

Related Commands

xcnfport, addport, **delport**, **dspport**, **dspports, xdspport**, **xdspports**

Cards on which the command executes

FRSM

Attributes

Log: Yes State: Active Privilege: 1–6

System Response

No system response unless an error occurs.

Summary for AUSM

Full Name

Configure port

Syntax

xcnfport <port_num> <plpp loopback>

where:

<port_num>	port number in the range 1–4 for a four port card, 1–8 for an eight port card
<plpp loopback>	1 = no loopback, 2 = remote loopback, 3 = local loopback

Related Commands

cnfport, addport, **delport**, **dspport**, **dspports, xdspport, xdspports**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1

System Response

No system response unless an error occurs.

xcnfportq

This command configures a port's queue parameters on the current AUSM. No messages appear on screen unless an error occurs.

Full Name

Configure port queue

Syntax

xcnfportq <port_num> <q_num> <q_algo> <service_seq> <q_depth> <clp_high> <clp_low> <efci_thres>

where:

<port_num>	port number in the range 1–4 for a four port card, 1–8 for an eight port card
<q_num>	queue number is in the range 1–12 for a four port card, 1–16 for an eight port card.
<q_algo>	queue algorithm is the queue algorithm in the range 1–5, 0 = disable queue
<service_seq>	service sequence is the service sequence number in the range 1–16
<q_depth>	queue depth is the maximum queue depth in the range 1–8000 cells
<clp_high>	clp high is the high Cell Loss Priority in the range 1–8000 cells
<clp_low>	clp low is the low Cell Loss Priority in the range 1–8000 cells
<efci_thres>	efci threshold is the EFCI threshold in the range 1–8000 cells

Related Commands

cnfportq, xcnfportqs

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–6

System Response

No system response unless an error occurs.

xcnfportqs

The **xcnfportqs** command configures the queue parameters for all ports on the current AUSM. No messages appear on screen unless an error occurs.

Full Name

Configure parameters on all port queues

Syntax

xcnfportqs

Related Commands

cnfportq, **xcnfportq**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–6

System Response

No system response unless an error occurs.

xdelcon

This command deletes a connection on an AUSM.

No messages appear on screen after command entry unless the command cannot execute as entered.

Full Name

Delete a connection

Syntax

xdelcon <connection number>

where:

<connection number>	connection number is in the range 16–271 for a four port card, 16–1015 for an eight port card

Related Commands

delcon, **xdspcon, dspcon, xdspcons, dspcons, xaddcon, addcon**

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

System Response

No system response unless an error occurs.

xdnport

The **xdnport** command downs a port. No messages appear on screen unless an error occurs.

Full Name

Down port

Syntax

dnport <PortNum>

where:

<PortNum>	port number in the range 1–4 for a four port card, 1–8 for an eight port card

Related Commands

upport

Cards on which the command executes

AUSM

Attributes

Log: No State: Active Privilege: 1

System Response

No system response unless an error occurs.

xdspchan

Displays extended ATM or frame relay channel parameters.

Full Name

Display channel

Syntax

xdspchan <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

xdspchans, dspchans, x**cnfchan, cnfchan**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Any Privilege: 1–6

Example

```
xdspchan 69
```

Description

Display the channel characteristics of channel 69 on a FRSM card.

System Response

```
ChanNum:                  69
ChanRowStatus:            Mod
ChanPortNum:              1
ChanDLCI:                 100
EgressQSelect:            1
IngressQDepth:            65535
IngressQDEThresh:         32768
IngressQECNThresh:        65535
EgressQDepth:             65535
EgressQDEThresh:          32768
EgressQECNThresh:         6553
DETaggingEnable:          Disabled
CIR:                      24000
Bc:                       5100
Be:                       5100
IBS:                      100
ForeSightEnable:          Enabled
QIR:                      260
MIR:                      62
PIR:                      500
ChanLocalRemoteLpbkState: Enabled
ChanTestType:             TestOff
ChanTestState:            NotInProgress
ChanRTDresult:            65535 ms
ChanType:                 NIW
ChanFECNmap:              setEFCIzero
ChanDEtoCLPmap:           mapCLP
ChanCLPtoDEmap:           mapDE

ChanNumNextAvailable:  17
```

For an AUSM, the display is the same as for the **dspcon** display.

xdspchancnt

This command displays the counter contents of a channel.

Full Name

Display channel count

Syntax

xdspchancnt <channel number>

where:

<channel number>	The range is 16–271 for 4 port AUSM or FRSM, 16–1015 for 8 port AUSM or FRSM. The range is 16–23 for 4 port CESM, 32–279 for 8 port CESM.

Related Commands

dspchancnt, xdspchstats, dspchstats

Cards on which the command executes

FRSM, AUSM, CESM, IM–ATM

Attributes

Log: No State: Any Privilege: 1–6

xdspchans

This command displays all the extended channel parameter values for all channels on the currently selected card.

Full Name

Display extended channel parameter values

Syntax

xdspchans

Related Commands

xdspchan, dspchan, **addchan**, **delchan**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Any Privilege: 1–6

Example

xdspchans

Description

Display the channels on the current FRSM.

System Response

```
     DLCI       Chan  EQ  I/EQDepth  I/EQDEThre  I/EECNThre  Fst/DE  Type  Alarm
  ------------- ---- -- ----- ----- ----- ----- ----- ----- --- --- ----- -----
  11.1.1.100    69   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.101    70   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.102    71   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.103    72   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.104    73   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.105    74   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.106    75   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.107    76   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.108    77   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.109    78   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.110    79   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.111    80   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.112    81   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.113    82   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.114    83   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.1.115    84   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
  11.1.2.100    85   1  65535/65535 32768/32768 65535/6553  Ena/Dis NIW    No
Type <CR> to continue, Q<CR> to stop:
```

For an AUSM, the display is the same as for the **xdspcons** display.

xdspcon

Displays configuration data for a connection.

Full Name

Display connection

Syntax

xdspcon <channel number>

where:

<channel number>	channel number is in the range 16–271 for a four port card, 16–1015 for an eight port card

Related Commands

dspcon, xaddcon, addcon, **xdelcon**, **delcon**, **xdspcons**, **dspcons**

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example

xdspcon 16

Description

Display the connection parameters for channel 16.

System Response

```
ChanNum:                                16
RowStatus:                              Add
ConnectionType:                         VCC
ServiceType:                            CBR
PortNum:                                1
VPI:                                    10
VCI:                                    100
EgressQNum:                             1
IngressQDepth (cells):                  100
IngressQCLPHigh (cells):                70
IngressQCLPLow (cells):                 60
IngressEfciThreshold (cells):           50
CompliantCellDelayVariation (micro secs): 0
CompliantInfoRate (cells/sec):          0
InitialBurstSize (cells):               0
MaxFrameSize (cells):                   0
PeakInformationRate (cells/sec)         1000
CLPTagEnable:                           Disabled
FrameGCRAEnable:                        Disabled
```

xdspcons

This command displays details of all connections between the current AUSM and the BNI to which the current shelf attaches.

Full Name

Display connections

Syntax

xdspcons

Related Commands

dspcons, xaddcon, addcon, **xdelcon**, **delcon**, **xdspcon**

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example

xdspcons

Description

Display parameters for the connections on the current AUSM.

System Response

```
Chan    Port.VPI.VCI    ConnType    Service Type    PCRlot1   Q-Depth     State
30        1.10.100       VCC            ABR           3622      2000       Active
33        1.10.200       VPC            CBR           3622      100        Alarm
```

xdspilmi

This command displays the interim local management interface (ILMI) configuration.

Full Name

Display ILMI

Syntax

xdspilmi <port_num>

where:

<port_num>	port_num is in the range 1–4 for a four port card, 1–8 for an eight port card

Related Commands

cnfilmi, **xcnfilmi**, **dspilmicnt**

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

xdspilmi 1

Description

Display the ILMI configuration for port 1.

System Response

```
    Port Num:                      1
    Signalling:                    No signalling
    SignallingVPI:                 0
    SignallingVCI:                 0
    ILMITrap:                      Disabled
    ILMI-Min-Trap-Interval (secs): 1
    KeepAlivePolling:              Disabled
    ErrorThreshold:                3
    EventThreshold:                4
    PollingInterval (secs):        30
    MinimumEnquiryInterval (secs):  10
  EXT Operation:                 port 2
```

xdspln

The **xdspln** command displays the detailed configuration for a specified line. When the current card is an ASC, the line is:

- ds3 if the shelf is configured with a BNM–T3 trunk card
- SONET if the shelf is configured with a BNM–155 trunk card

Full Name

Display line configuration

Syntax

On ASC, FRSM or AUSM cards

xdspln <line number>

where:

<line number>	line number can be 1 on an ASC and 1–4 on four port service modules and 1–8 on eight port service modules

On SRM–3T3 cards

xdspln <-srmds3><line number>

where:

<line number>	line number can be 1–3

Related Commands

xaddln, addln, **xcnfln, cnfln**, **xdelln, delln**

Cards on which the command executes

ASC, FRSM, AUSM, SRM–3T3, CESM, IM–ATM

Attributes

Log: No State: Active on ASC, any state on FRSM, AUSM, or SRM–3T3 Privilege: 1–6

Example 1

```
xdspln 2
```

Description

Display line 2 on the current AUSM card.

System Response

```
LineNum:                 2
LineConnectorType:       BNC
LineType:                dsx1E1CAS
LineEnable:              Enabled
LineCoding:              dsx1HDB3
LineLength:              G.703 75 ohm
LineXmtClockSource:      LocalTiming
LineLoopbackCommand:     NoLoop
LineSendCode:            NoCode
LineUsedTimeslotsBitMap: 0xffffffff
ConfigChangePortBitMap:  0x0

 LineNumOfValidEntries: 4
```

Example 2

xdspln 1

Description

Display line 1 on the current ASC (1 is the only valid line number on an ASC).

System Response for BNM–T3

```
LineNum:               1
LineType:              dsx3CbitParity
LineCoding:            dsx3B3ZS
LineLength:            LessThan450ft
LineOOFCriteria:       3 out of 8
LineAIScBitsCheck:     Check C-bits
LineLoopbackCommand:   NoLoop
LineRcvFEACValidation: 4 out of 5 FEAC codes

LineNumOfValidEntries: 1
```

System Response for BNM–155

```
sonetLineNum:               1
sonetLineType:
sonetLineloopbak:
sonetHCmasking:
sonetPayloadScramble:
sonetFrameScramble:
sonetMediumType:
sonetMediumTimeElapsed:
sonetMediumValidIntervals
sonetMediumLineCoding
sonetMediumLineType
sonetMediumCircuitIdentifier

sonetMediumValidEntries:
```

xdsplns

This command displays the configuration parameters for all lines on the current card. The displayed parameters depend on the card.

Full Name

Display lines

Syntax

xdsplns

Related Commands

dsplns, addln, **xaddln, cnfln**, **xcnfln, xdelln, delln**

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM–ATM

Attributes

Log: No State: Active on ASC, any state on FRSM, or AUSM Privilege: 1–6

Example 1

xdsplns

Description

Display lines on the current FRSM card.

System Response

```
Line  ConnType     Type      Enable/Coding      Length     XmtClockSource
----  -------- ------------ ------- -------- ------------- --------------
 7.1   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming
 7.2   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming
 7.3   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming
 7.4   DB-15    dsx1ESF      Modify/dsx1B8ZS   0-110 ft     LocalTiming

 LineNumOfValidEntries: 4
```

Example 2

xdsplns

Description

Display lines on the current ASC with BNM–T3 trunk card.

System Response

```
Line       Type        Coding      Length       Criteria   AIScBitsCheck
----  --------------  --------  -------------  ----------- -------------
2.1   dsx3CbitParity  dsx3B3ZS  LessThan450ft  3 out of 8  Check C-bits

LineNumOfValidEntries: 1
```

Example 3

xdsplns

Description

Display lines on the current ASC with BNM-155 trunk card.

System Response

```
Medium   Medium   Medium    Medium
Sonet     Line      Line      HSC      Payload      Frame      Time      Valid      Line      Line
Line      Type      Lpbk      mask     Scramble     Scramble Elapsed     Intvls     Coding    Type
----  --------------  --------  -------------  ----------- ------------------


LineNumOfValidEntries: 1
```

xdspport

On an FRSM and CESM, the **xdspport** (or **dspport**) command displays the port configuration for the specified port. On an AUSM, the **xdspport** command displays the Physical Layer Protocol Processor of a port on the current AUSM.

Full Name

Display port

Syntax

xdspport <port number>

where:

On an FRSM–4T1, port number is in the range 1–96

On an FRSM–4E1, port number is in the range 1–124

On an FRSM–8T1, port number is in the range 1–192

On an FRSM–8E1, port number is in the range 1–248

or

On a CESM–8T1, port number is in the range 1–192

On a CESM–8E1, port number is in the range 1–248

or

On an AUSM, port number is the port number in the range 1–4 for a four port card, 1–8 for an eight port card

Related Commands

FRSM: **xaddport**, **addport**, **xcnfport**, **cnfport**, **xdelport**, **delport**

AUSM: **xupport**, **upport**, **xdnport, dnport**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Active Privilege: 1–6

Example 1

```
xdspport 1
```

Description

Display the port configuration for port 1 on the current FRSM.

System Response

```
    SlotNum:                      7
    PortLineNum:                  1
    PortNum:                      1
    PortRowStatus:                Add
    PortDs0Speed:                 64k
    PortDs0ConfigBitMap:          0xffffff
    PortEqueueServiceRatio:       1
    PortFlagsBetweenFrames:       1
    PortSpeed:                    1536kbps
    SignallingProtocolType:       NoSignalling
    AsynchronousUpdates:          Disable
    T391LineIntegrityTimer:       10
    T392PollingVerificationTimer: 15
    N391FullStatusPollingCounter: 6
    N392ErrorThreshold:           3
    N393MonitoredEventCount:      4
    PortState:                    FailedDuetoLineFailure
    PortSignallingState:          No Signalling Failure
    CLLMEnableStatus:             Disable
    CLLMxmtStatusTimer:           0

    PortDs0UsedLine1:             0x00ffffff
    PortDs0UsedLine2:             0x00ffffff
    PortDs0UsedLine3:             0x00ffffff
    PortDs0UsedLine4:             0x00ffffff
    PortNumNextAvailable:         60
  Syntax : dspport "port_num"
           port number -- values ranging from 1-96 are accepted
```

Example 2

xdspport 1

Description

Display port 1 on the current AUSM.

```
    PortNumber:     1
    Cell Framing:   ATM
    Cell Scramble:  No Scramble
    Plpp Loopback:  No Loopback
```

xdspportcnt

This command displays counters for a specified port.

Full Name

Display port counters

Syntax

xdspportcnt <port number>

where:

<port number>	For the FRSM, port number is in the range 1–96 for four port T1, 1–124 for four port E1, 1–192 for eight port T1, 1–248 for eight port E1 Port number is in the range 1–4 for a four port AUSM, 1–8 for an eight port AUSM

Related Commands

cnfcd, **dspcds**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example 1

```
dspportcnt 1
```

Description

Display extended port counters on port 1 of the current AUSM.

System Response

```
PortNum:                                1
PortState:                              Sig. Failure
IngressRcvCells:                        0
IngressRcvCellRate (cells/sec):         0
IngressRcvUtilization (percentage):     0
IngressXmtCells:                        0
IngressGFCErrorCells:                   0
IngressVpiVciErrCells:                  0
IngressUnknownVpiVci:                   0x0
IngressRcvClpSetCells:                  0
EgressRcvCells:                         0
EgressRcvCellRate (cells/sec):          0
EgressRcvUtilization (percentage):      0
EgressXmtCells:                         0
EgressXmtCellRate (cells/sec):          0
EgressXmtUtilization (percentage):      0
EgressPortAlarmDiscardCells:            0
EgressXmtClpSetCells:                   0
EgressXmtEfciSetCells:                  0
PortXmtAisCells:                        0
PortXmtSgmtLpbkCells:                   0
PortRcvAisCells:                        0
PortRcvFerfCells:                       0
PortRcvSgmtLpbkCells:                   0
PortRcvCrcErrOAMCells:                  0
TotalIngressQFullDiscardCells:          0
TotalIngressClpSetDiscardCells:         0
TransmitFIFOFullCount (per card):       0
ReceivedHECErrorCells:                  0
HECErroredSeconds:                      0
SeverelyHECErroredSeconds:              0
```

Example 2

dspportcnt 1

Description

Display extended port counters on port 1 of the current FRSM.

System Response

```
                                        Tx                  Rx
                                 ---------------     ---------------
     Total Frames:               0                   0
     Total Bytes:                0                   0
     Frames FECN:                0                   0
     Frames BECN:                0                   0
     Frames Abort:               0                   0
     Buf Not Available:          0                   0
     KbpsAIR:                    0                   0
     XmtFramesDiscXceedQDepth:   0
     XmtBytesDiscXceedQDepth:    0
     XmtFramesDuringLMIAlarm:    0
     XmtByteDuringLMIAlarm:      0
     XmtFramesUnderrun:          0
     RcvFramesDE:                                    0
     RcvFramesDiscCRCError:                          0
     RcvFramesDiscIllegalHeader:                     0
     RcvFramesDiscAlignmentError:                    0
     RcvFramesDiscIllegalLen:                        0
     RcvFramesDiscXceedDEThresh:                     0
     RcvFramesUnknownDLCI:                           0
     RcvLastUnknownDLCI:                             0
     RcvFramesTaggedFECN:                            0
     RcvFramesTaggedBECN:                            0
     RcvFramesTaggedDE:                              0
     Status:                     0                   0
     StatusInquiry:              0                   0
     AsynchUpdate:               0                   0
     RcvInvalidRequest:                              0
     RcvUNISeqMismatch:                              0
     RcvNNISeqMismatch:                              0
     UNISignallingTimeout:                           0
     NNISignallingTimeout:                           0
     FramesCLLM:                 0                   0
     BytesCLLM:                  0                   0
     CLLMFailures:                                   0
```

xdspportq

The **xdspportq** command displays queue information for a specified port and egress queue on the AUSM or IM–ATM.

Full Name

Display port queue.

Syntax

xdspportq <port number> <egress queue number>

where:

<port number>	port number is in the range 1–4 for a four port card, 1–8 for an eight port card
<egress queue number>	egress queue number is in the range 1–12 for a four port card, 1–16 for an eight port card

Related Commands

dspportq, dspportqs

Cards on which the command executes

AUSM, IM–ATM

Attributes

Log: No State: Any Privilege: 1–6

Example

```
xdspportq 1 1
```

Description

Display queue information for egress queue 1 on port 1.

System Response

```
Service Port Num:               1
  Q Number:                     1
  Port Bin State:               Enabled
  Service Sequence:             1
  Queue Depth:                  100
  CLP  Threshold High (cells):  100
  CLP  Threshold Low (cells):   100
  EFCI Threshold:               100
  Queue Algorithm:              1
  Max Bandwidth Increment:      0
  Min Bandwidth Increment:      0
  Q CLP State:                  0
  Q Full Discarded Cells:       0
  CLP Set Discarded Cells:      0
```

xdspportqs

This command displays queue information for all the egress queues on an AUSM port.

Full Name

Display port queues

Syntax

xdspportqs <port number>

Related Commands

dspportqs, xdspportq, dspportq

Cards on which the command executes

AUSM

Attributes

Log: No State: Any Privilege: 1–6

Example

xdspportqs 1

Description

Display egress queue information for all the egress queues on port 1.

System Response

```
Port   Q Num  State   Q-Algo Service-Seq Depth-Max  CLP-High  CLP-Low  EFCI-Thrsh
----  -----  -----   ------ ----------- ---------  --------  -------  ----------
  1     1    Enabled    3       1           200      180        160      160
  1     2    Enabled    3       2           900      800        700      700
  1     3    Enabled    3       3           900      800        700      700
  4     1    Enabled    3       1           200      180        160      160
  4     2    Enabled    3       2           900      800        700      700
  4     3    Enabled    3       3           900      800        700      700


Syntax : xdspportqs
```

xdspports

The **xdspports** command displays information on all the ports on the current card.

Full Name

Display ports

Syntax

xdspports

Related Commands

dspport, addport, **cnfport**, **delport**, **dspport**

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Any Privilege: 1–6

Example

xdspports

Description

Display the ports on the current FRSM.

System Response

```
 Port    Ena/Speed EQService  SignalType  T391 T392 N391 N392 N393 InAlarm
                     Ratio
-------- --- ----- --------- ------------ ---- ---- ---- ---- ---- -------
7.2.1    Add/1536k    1      NoSignalling   10   15    6    3    4   No
7.2.2    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.3    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.4    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.5    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.6    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.7    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.8    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.9    Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.10   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.11   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.12   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.13   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.14   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.15   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.16   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.17   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.18   Add/  64k    1      NoSignalling   10   15    6    3    4   No
7.2.19   Add/  64k    1      NoSignalling   10   15    6    3    4   No
```

xdspshelf

This command displays characteristics of the shelf information on card and line status.

Full Name

Display shelf

Syntax

xdspshelf

Related Commands

dspshelf

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1–6

Example

```
xdspshelf
```

Description

Display extended information about the cards in the shelf.

System Response

```
  Slot  CardState    CardType      CardAlarm  Redundancy
  ----  -----------  ------------  ---------  ------------------
  1.1   Unknown      ?
  1.2   Active       BNM-T3        Minor
  1.3   Empty
  1.4   Active       ASC
  1.5   Active       FRSM-4T1
  1.6   Empty
  1.7   Active       AUSM-4T1      Minor
  1.8   Empty
  1.9   Active       FRSM-8E1
  1.10  Active       AUSM-8T1
  1.11  Active       CESM-8T1
  1.12  Empty
  1.13  Empty
  1.14  Empty
  1.15  Unknown
  1.16  Empty


Type <CR> to continue, Q<CR> to stop:

  NumOfValidEntries:    16
  NodeName:             pubsaxi1
  Date:                 06/14/1998
  Time:                 07:47:27
  TimeZone:             PST
  TimeZoneGMTOff:       -8
  StatsMasterIpAddress: 172.29.52.18
  shelfIntegratedAlarm: Minor
  BkplnSerialNum:       133492
  BkplnType:            1
  BkplnFabNumber:       fab#213882-00 revAD
  BkplnHwRev:           ab
```

xupport

This command ups a port. No messages appear on screen unless an error occurs.

Full Name

Up port

Syntax

xupport <PortNum>

where:

<PortNum>	Specified port number in the range 1–4 for a four port card, 1–8 for an eight port card

Related Commands

xupport, xdnport, dnport

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1