

Cisco MGX 8220 Command Reference

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About This Manual

Welcome to the command line interface documentation for the Cisco MGX™ 8220 edge concentrator Release 4.1.

This chapter discusses:

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

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Documentation CD-ROM, a member of the Cisco Connection Family, is updated monthly. Therefore, it might be more current than printed documentation. To order additional copies of the Documentation CD-ROM, contact your local sales representative or call customer service. The CD-ROM package is available as a single package or as an annual subscription. You can also access Cisco documentation on the World Wide Web at <http://www.cisco.com>, <http://www-china.cisco.com>, or <http://www-europe.cisco.com>.

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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 StrataView Plus. 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.

Organization

The body of this publication is:

Chapter **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:

- *Cisco StrataView Plus Operations Guide* providing procedures for using the StrataView Plus network management system.
- Release 9.1 of the Cisco WAN Switching documentation set including:
 - *Cisco BPX 8620 BPX Service Node Extended Services Processor Installation and Operation* provides a general description and installation instructions for the Cisco BPX 8620.
 - *Cisco IPX Reference* providing a general description and technical details of the Cisco IPX narrowband node.
 - *Cisco IGX 8400 Series Reference* providing a general description and technical details of the multi-band Cisco IGX 8400 series.
 - *Cisco MGX 8220 Reference* 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.

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 StrataView Plus. However, the command line interface provides access to features that exist on the MGX 8220 shelf but are not yet accessible through StrataView Plus. Also, when alarm conditions or other unwanted situations occur, the command line interface provides a lower level of access to the cards that StrataView Plus 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
dspttrapmgrs	Display Trap Managers
dspttrapmgr	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
cnfelksrc	Configure Network Clock Source
dspelksrc	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
clralmnt	Clear Alarm Counters/Statistics
dspalmnt	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
dpsrmlns	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
clsrmcnf	Clear SRM-3T3 configuration
cnfsrcmclksrc	Configure SRM-3T3 clock source
dellink	Delete an SRM-3T3 T3 link to a T1slot and line
delslotlink	Delete a link from a T1 slot
dsplink	Display an SRM-3T3 T3 link to a T1slot and line
dspslotlink	Display a link in a T1 slot
dpsrsrcmclksrc	Display SRM-3T3 clock source
BERT Group	
cnfbert	Configure bit error rate test (BERT)
delbert	Delete bit error rate test (BERT)
dspberrt	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	
dspelksrc	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					
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	
Port Group						
addport	Add Port	X				X

Command	Description	FRSM	AUSM	CESM	IM-ATM	FRASM
enfport	Configure FR Port(s)	X	X			
enfportq	Configure AUSM port queue		X			
copyports	Copy Port Configuration	X	X			
delpport	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			
clrportents	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			
enfilmi	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		
clrsarent	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				
dsparent	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		
enfchanpol	Configure Channel Policing	X				
enfchanfst	Configure Channel ForeSight	X	X			
enfchanq	Configure Channel Queue		X			
Connection Group						
addcon	Add Connection		X			

Command	Description	FRSM	AUSM	CESM	IM-ATM	FRASM
delcon	Delete Connection		X			
dspcon	Display Connection		X			
dspcons	Display Connections		X			
dsploads	Display Loads		X			
cnfupcabr	Configure ABR		X			
cnfupcebr	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	
clraimgrpent	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	
dspaimgrpent	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
clrbscportent	Clear BSC Port Count					X
clrbsecucount	Clear BSC CU Count					X
clrlleportent	Clear LLC Port Count					X
clrlscount	Clear LS Count					X
clrsdlcportent	Clear SDLC Port Count					X
cnfbscport	Configure BSC STUN Port					X
cnfbscportmisc	Configure BSC STUN Port Misc					X
cnfllcport	Configure LLC Port					X

Command	Description	FRSM	AUSM	CESM	IM-ATM	FRASM
cnflleportflow	Configure LLC port flow					X
cnflleportmisc	Configure LLC port misc					X
cnflleporttime	Configure LLC port time					X
cnfls	Configure Link Station					X
cnflsmisc	Configure Link Station misc.					X
cnflsxid	Configure Link Station XID					X
cnfsdleport	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
dspbscportent	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
dsplleport	Display LLC Port					X
dsplleports	Display LLC Ports					X
dsplleportent	Display LLC Port Count					X
dspls	Display Link Station					X
dsplss	Display Link Stations					X
dsplscount	Display Link Station Count					X
dspsdleport	Display SCLC Port					X
dspsdleports	Display SDLC Ports					X
dspsdleportcount	Display SDLC Port Count					X

Command	Description	FRSM	AUSM	CESM	IM-ATM	FRASM
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

addtrapmgr

This command adds an a trap manager for use with stand-alone applications.

Full Name

Add trap manager

Syntax

addtrapmgr <ipaddr>

<ipaddr> The IP address to be assigned to the trap manager in the form n.n.n.n

For example: **addtrapmgr** 1.1.1.1

Adds a trap manager with the IP address of 1.1.1.1

Related Commands

deltrapmgr, cnftrapmgr, dsptrapmgr, dsptrapmgrs

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: 1-2

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

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

<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.

adbstunroute

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

adbstunroute <port_num><cuaddress><chan_num><lsap> :

<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

<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

```
adbstunroute 69 3 69 5 1
```

Description

Creates a BStun Route for port 69, chan 69 with an cuaddress 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

addchan <chan_num> <port_num> <dci_num> <cir> <chan_type>

where:

- | | |
|-------------------------|--|
| <chan_num> | channel number is in the range 16–1015 |
| <port_num> | port number is in the range 1–192 |
| <dci_num> | DLCI is in the range 0–1023 |
| <cir> | committed information rate: 0–1536000 bps for T1; 0–2048000 bps for E1 (FRASM does not support E1) |
| <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

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> channel number is in the range 16–271

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> <egress queue number>

where:

<channel number>	channel number has a range of 16–271
<connection type>	connection type is either 1 for VPP or 2 for VCC
<port number>	port number is in the range 1–4
<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 can be specified as 1–12 and 0 is for the default in addcon

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 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

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

<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.

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 T 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 1-8)
<Target slot number>	T1 service module slot number to be linked
<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

addln

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

Full Name

Add line

Syntax

addln <line number>

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 System Response

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

addInloop

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

Full Name

Add line loop

Syntax

addInloop <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

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
<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

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 and CESM 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
<line_num>	value ranging from 1 to 4
<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 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
<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.
<MUX encoding>	1 or 2: 1 = NRZ, 2 = NRZI
<MUX interface>	1 or 2: 1 = DS0, 2 = DS0A

Related Commands

addportlpbk, cnfport, delpport, dspport, dsports

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 = 12–14
<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

<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
<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 (even numbers only)

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.

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

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

Related Commands

switchcc

Cards on which the command executes

ASC, FRSM, AUSM, CESM, IM-ATM

Attributes

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

clraimgrpct

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

Full Name

Clear AIM group count

Syntax

clraimgrpct <aimux_grp>

where:

<aimux_grp> AIMUX group number

Related Commands

delaimgrpct

Cards on which the command executes

IM-ATM

Attributes

Log: Yes State: Active Privilege: 1-2

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:

clralm <-ds1> <LineNum>

where

<LineNum> LineNum = 1–n, n = 4 if FRSM

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, CESM, IM-ATM

Attributes

Log: No State: Any Privilege: 1–5

clralmct

The **clralmct** 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

clralmct <-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.

On an AUSM, <-ds1 LineNum> is in the range 1–4.

On an SRM-3T3, <-srmds3 LineNum> is in the range 1-3.

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

clralmct -sonet <LineNum>

Related Commands

dspalmct, **clralmct**

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

dspalment, clralment

Cards on which the command executes

ASC, FRSM, AUSM

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

For FRSM and AUSM

clralms <-ds1> <LineNum>

where:

<LineNum> LineNum = 1-4

For SRM-3T3

clralms <-srmds3> <LineNum>

where:

<LineNum> LineNum = 1-3

Related Commands

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

Cards on which the command executes

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

Attributes

Log: No State: Any 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

dspsnmcnt

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–5

clrbccucount

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

Full Name

Clear bsc cu counters

Syntax

clrbccucount<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

```
clrbccucount 10 0x01
```

Description

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

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

clrchanct

This command clears the channel counters for a specified frame relay channel on an FRSM or AUSM. Counting resumes after the command executes.

Full Name

Clear channel counters

Syntax

clrchanct <channel number>

where:

<channel number> range 16–271

Related Commands

dspchan, **clrchanct**, **dspchanct**

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

clrchannts

The **clrchannts** command clears the channel counter for all frame relay channels on the current FRSM. Counting resumes for frame relay transmissions occurring after the command executes. For a list of the frame relay counters, refer to the description of **clrchannt**.

Full Name

Clear channel counters

Syntax

clrchannts

Related Commands

dspchan, **clrchannt**, **dspchannt**

Supported Cards

FRSM, AUSM, CESM

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Any Privilege: 1–3

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

dpsdlcportcnt

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 the error/event message log. The log resumes updating after this command executes.

Full Name

Clear event/message log

Syntax

clrlog

Related Commands

dspslog

Cards on which the command executes

ASC, FRSM

Attributes

Log: No State: Any Privilege: 1

clriscount

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

Full Name

Clear LS port counters

Syntax

clriscount <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

```
clriscount 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 Rcvd of 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 count

Syntax

clrportcnt <port number>

where:

On an AUSM, <port number> is in the range 1-4.

On an FRSM, <port number> is in the range 1-96.

Related Commands

clrportcnts, **dspportcnt**

Cards on which the command executes

FRSM, AUSM

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, **dsportcnt**

Cards on which the command executes

FRSM, AUSM

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

Related Commands

dpsarcnt

Cards on which the command executes

ASC, FRSM, AUSM, CESH

Attributes

Log: No State: Any Privilege: 1-5

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, 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 of the SDLC connection to be routed 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.

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

clsrmcnf

The **clsrmcnf** 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

clsrmcnf

Related Commands

none

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Any Privilege: 1-6

cnfaimgrp

This command configures the parameters of an AIMUX group.

Full Name

Configure AIM group

Syntax

```
cnfaimgrp <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

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.

Full Name

Configure Bit Error Rate Test

Syntax

cnfbert

Related Commands

dspbert, startbert, modbert, delbert

Cards on which the command executes

ASC

cnfbnmif

The **cnfbnmif** command configures the interface format for the BNM-T3, BMN-E3, or BNM-155 trunk card.

Full Name

Configure BNM Interface

Syntax

cnfbnmif -if <interface format>

Related Commands

dsbnmif

Cards on which the command executes

ASC

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 **delpport** command.

Full Name

Configure BSC STUN port

Syntax

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

<port number>	port number in the range 1-192
<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

dspbseport, **dspbseports**

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

Syntax

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

<port number> port number in the range 1-192

<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.

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
<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
<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

cnfchanpol

The **cnfchanpol** command configures the frame relay 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>

where:

<chan_num>	value ranging from 16 to 271
<cir>	0–1536000 bps for T1, 0–2048000 bps for E1
<bc>	0–65535 in bytes
<be>	0–65535 in bytes
<ibs>	0–65535 in bytes. Less than or equal to Bc
<detag>	1 for enable, 2 for disable

Related Commands

dspchan

Cards on which the command executes

FRSM

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
<vc_q_depth>	Ingress Q Depth: 0–8000 Cells
<clp_thresh_high>	CLP Threshold High: 1–8000 Cells
<clp_thresh_low>	CLP Threshold Low: 1–8000 Cells
<efci_thresh>	EFCI Threshold: 1–8000 Cells

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 = 2–3
2: 100 ohms, 3: 120 ohms

Related Commands

dspclksrc

Cards on which the command executes

ASC, AUSM, IM-ATM

Attributes

Log: Yes State: Active Privilege: 1

cnfdate

The **cnfdate** command configures the date.

Full Name

Configure date

Syntax

cnfdate <mm/dd/yy>

Related Commands

none

Cards on which the command executes

ASC

Attributes

Log: Yes State: Active Privilege: Superuser

Example

```
cnfdate 11/24/95
```

Description

Configure the date to be 11/24/95

System Response

```
kanchend.1.3.ASC.a > cnfdate 11/24/95
```

```
Date = 11/24/95
```

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, |
| -if <Interface> | Interface is as follows: <ul style="list-style-type: none">• 26 for Ethernet• 28 for Slip• 37 for ATM |
| -msk <NetMask> | NetMask = nnn.nnn.nnn.nnn, |
| -bc <BroadcastAddress> | BroadcastAddress = nnnnnnnnnn (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 **cnfifip**.

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>

where:

<port_num>	port number in the range 1–4
<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
<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

dspilmi, dspilmicnt

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1

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 **delleport**, 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.

cnflcportflow

Configures flow LLC port parameters to a FRASM line.

Full Name

Configure LLC STUN port flow

Syntax

cnflcportflow <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 , permissible values are 1, 2, 4, 8, or 16

Related Commands

cnflcport, dspllcport, dspllcports dspllcportmisc

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnflcportmisc 100 4 4
```

Description

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

cnflcportmisc

Configures some miscellaneous LLC port parameters to a FRASM line.

Full Name

Configure LLC STUN port miscellaneous

Syntax

cnflcportmisc <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 msec in the range 0 - 60000
xidrt	XID retry time in msec in the range 1 - 60000
txqmax	transmit max. queue depth in the range 20 to 200

Related Commands

cnflcport, dspllcport, dspllcports

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnflcportmisc 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 msec, an XID retry time of 20 msec and a maximum transmit queue depth of 25.

cnflcporttime

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

Full Name

Configure LLC port time

Syntax

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

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

Related Commands

cnflcport, dspllcport, dspllcports

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example

```
cnflcporttime 150 100 100 100 600 600
```

Description

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

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
<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

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 >
```

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
<lmi_sig>	LMI signalling: 1 = Other, 2 = None, 3 = StrataLMI, 4 = AnnexAUNI, 5 = AnnexDUNI, 6 = AnnexANNI, 7 = AnnexDNNI
<asyn>	asyn update is (y)es or (n)o
<T391>	T391 timer is in the range 5–30 sec.
<T392>	T392 timer is in the range 5–30 sec.
<N391>	N391 counter is in the range 1–255
<N392>	N392 counter is in the range 1–10
<N393>	N393 counter is in the range 1–10
<CLLMEN>	CLLM Enable is either 1 = Disable or 2 = Enable
<CLLMTM>	CLLM Timer is in the range 40–5000 ms

Possible errors are:

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

Related Commands

addport, **delpport**, **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

<plpp loopback> 1 = no loopback, 2 = remote loopback, 3 = local loopback

Related Commands

addport, delpport, dspport, dsports

Cards on which the command executes
AUSM

Attributes

Log: Yes State: Active Privilege: 1

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
<q_num>	queue 3 is the queue number in the range 1–16
<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

none

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 **delpport** 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, dspdlcport, dspdlcports

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 msec in the range 1 to 10000
<pollwait>	Poll wait in msec in the range 10 to 64000

Related Commands

cnfsdlcport, dspdlcport, dspdlcports

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 msec.

cnfsrcmclsrc

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

Full Name

Configure SRM clock source

Syntax

cnfsrcmclsrc -synds3 <T3 line number> -syncclk <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

dspsrmclsrc

Cards on which the command executes

SRM-3T3

Attributes

Log: No State: Active Privilege: 1

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

none

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**

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 with the range -12 to 12.

Related Commands

cnftime, **cnfdate**

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. 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>
- -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
<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]: 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

dspecon, dspecons, 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.
<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 [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 [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

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.
<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 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

dspecon, dspecons, 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 chan number
<start chan #>	start chan number
<start dlci>	start dlci for FRSM, start vci for AUSM
<# of chans>	number of chans

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

delpport, 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

Attributes

Log: Yes State: Active Privilege: 1-2

Example

delaimgrp "2" (deletes AIMUX group 2)

delbert

The **delbert** command deletes the shelf for bit error rate testing.

Full Name

Delete Bit Error Rate Test

Syntax

delbert

where:

interface format is

Related Commands

dspbert, startbert, modbert, cnfbert

Cards on which the command executes

ASC

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.

delchan

Deletes a frame relay channel from an FRSM.

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> channel number is in the range 16–271

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 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> channel number is in the range 16–271

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 chan number

<# of chans> number of chans

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

Related Commands

addcon, dspcons, dspcon

Cards on which the command executes

AUSM

Attributes

Log: Yes State: Active Privilege: 1–2

where:

<port_num> numbers in the range 1 to 96 are valid

<line_num> value ranging from 1 to 4

<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> either 1, 2, or 3: 1 = frame relay, 2 = FUNI, 3=frame forwarding

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.

<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.

dellink

The **addlink** 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

deln

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

Full Name

Delete line

Syntax

deln <line number>

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

```
de11n 4
```

Description

Delete line 4 from the current card.

System Response

No system response unless an error occurs.

delnloop

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

Full Name

Delete line loop

Syntax

delnloop <line number>

where:

<line number> value from 1–4 used for FRSM, AUSM, and IM-ATM

Related Commands

addnloop

Cards on which the command executes

AUSM, IM-ATM, FRSM, CESH

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

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

<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, CESM or AUSM.

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

Full Name

Delete port

Syntax

delport <port-number>

Related Commands

addport, **cnfport**, **dspport**, **dsports**

Cards on which the command executes

FRSM, CESM, AUSM

Attributes

Log: Yes State: Active Privilege: 1

delports

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

Full Name

Delete ports

Syntax

delports <start port #> <# of ports>

where:

<start port #> start port number is the port to be deleted

<# 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, AUSM

Attributes

Log: No State: Active Privilege: 1

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.

<line number> Line number of the link to be deleted. If line number is 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 by which the group is to be known 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

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

<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.

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

dspre, **addr**

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

deltrapmgr

Delete a trap manager for use with stand-alone applications.

Full Name

Delete trap manager

Syntax

dspttrapmgr <ipaddr>

where:

<ipaddr> IP address of the trap manager to be displayed. In the form of n.n.n.n

Related Commands

addtrapmgr, dspttrapmgr, dspttrapmgrs

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. 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

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

Related Commands

upport

Cards on which the command executes

AUSM

Attributes

Log: No State: Active Privilege: 1

dspaimgrp

This command displays the parameters of an AIMUX group.

Full Name

Display AIM group

Syntax

dspaimgrp <aimux_grp>

where:

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

Related Commands

addaimgrp, delaimgrp, cnfaimgrps, dspaimgrps

Cards on which the command executes

IM-ATM

Attributes

Log: Yes State: Active Privilege: 1-2

dspaimgrpct

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

Full Name

Display AIM group count

Syntax

dspaimgrpct <aimux_grp> <line_num>

where:

<aimux_grp> AIMUX group number

<line_num> line number

Related Commands

clraimgrpct

Cards on which the command executes

IM-ATM

Attributes

Log: Yes State: Active Privilege: 1-2

dspaimgrps

This command displays the parameters of all current AIMUX groups.

Full Name

Display AIM group

Syntax

dspaimgrps

Related Commands

addaimgrp, delaimgrp, cnfaimgrps, dspaimgrp

Cards on which the command executes

IM-ATM

Attributes

Log: Yes State: Active Privilege: 1-2

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

-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:
```

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> | <-srm3 LineNum>

where:

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

On an FRSM, <LineNum> is in the range 1–4

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

Line	Severity	AlarmUpCount	AlarmDnCount	AlarmThreshold
	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
LSES15minThreshold:    4
LSES24hrThreshold:     40
PCV15minThreshold:     382
PCV24hrThreshold:      3820
PES15minThreshold:     86
PES24hrThreshold:      864
PSES15minThreshold:    4
PSES24hrThreshold:     40
SEFS15minThreshold:    120
SEFS24hrThreshold:     1200
AISS15minThreshold:    120
AISS24hrThreshold:     1200
UAS15minThreshold:     120
UAS24hrThreshold:     1200

```

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:

```
dspalmcnt -ds1 <LineNum>
```

```
-ds1 <LineNum> where LineNum = 1–4
```

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
RcvFECCount:     0
```

Example 2

```
dspalmcnt -ds1 1
```

Description

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

System Response

Line	RcvLOSCount	RcvOOFCount	RcvRAICount	RcvFECCount
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:
SectionCurrentSEsSs:	LineCurrentSEsSs:	PathCurrentSEsSs:
SectionCurrentSEFSs:	LineCurrentCVs:	PathCurrentCVs:
SectionCurrentCVs:	LineCurrentUASs:	PathCurrentFCs:
SectionCurrentDayValidFlag:	LineCurrentDayValidFlag:	PathCurrentUASs:
SectionCurrentDayESs:	LineCurrentDayESs:	PathCurrentDayValidFlag:
SectionCurrentDaySEsSs:	LineCurrentDaySEsSs:	PathCurrentDayESs:
SectionCurrentDaySEFSs:	LineCurrentDayCVs:	PathCurrentDaySEsSs:
SectionCurrentDayCVs:	LineCurrentDaySEFSs:	PathCurrentDayCVs:
SectionCounterLOSs:	LineCounterAISs:	PathCurrentDayFCs:
SectionCounterLOFs:	LineCounterRFIs:	PathCurrentDaySEFSs:
		PathCounterAISs:
		PathCounterRFIs:

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
```

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 shelf for bit error rate testing.

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

dspbnmct

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

Full Name

Display BNM cell counter

Syntax

dspbnmct

Related Commands

clrbnmct

Cards on which the command executes

ASC

Attributes

Log: No State: Active Privilege: 1–6

Example

dspbnmct

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 for the BNM-155 trunk card.

Full Name

Display BNM Interface

Syntax

dspbnmif

Related Commands

cnfbnmif

Cards on which the command executes

ASC

The system responds by displaying the BNM line interface format.

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

Related Commands

addbscport, **dspbscports**

Cards on which the command executes

FRASM

Attributes

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

Example 1

```
dspbscport 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

dspbscports

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 of the BSC connection to be routed in the range 1-192

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 BSC connection to be routed in the range 1-192

<cuaddress> address of the controller unit in the range 0x01-0xFE

Related Commands

clrbccucount

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

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 connection to be routed in the range 1-192

<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, caaddress 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

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, AUSM, IM-ATM

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 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, CESH, 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, SRM-3T3

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 a frame relay channel on an FRSM.

Full Name

Display channel

Syntax

dspchan <channel number>

where:

<channel number> channel number is in the range 16–271

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.

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.

dspchancnt

Displays the counter contents of a channel.

Full Name

Display channel count

Syntax

dspchancnt <channel number>

where:

<channel number> channel number is in the range 16–271

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	
XmtFramesDuringLMIAAlarm:	0	
XmtBytesDuringLMIAAlarm:	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 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
```

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
<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

dspchstats

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 1, 1st_DS0 of 4, and DLCI or 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	
XmtFramesDuringLMIAAlarm:	0	
XmtBytesDuringLMIAAlarm:	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

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
IngressEfcThreshold (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
LineCoding:                    dsx3B3ZS
LineLength:                    < 450 ft.
LineOOFCriteria:               3 Out of 8
LineAIScBitsCheck:            Ignor C-bit
LineLoopbackCommand:         NoLoop
LineRcvFEACValidation:       4 Out of 5
```


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

dspfrasnroute

This command displays the parameter values for a FrasnBNN route.

Full Name

Display FrasnBNN Route

Syntax

dspfrasnroute <port_num> <lsaddress> :

<port_num> Port number of the FrasnBNN connection to be routed in the range 1-192 for T1.

<lsaddress> Address of the SDLC LS in the range 0x01-xFE.

Related Commands

addfrasnroute, delfrasnroute, dspfrasnroutes

Cards on which the command executes

FRASM

Attributes

Log: Yes State: Active Privilege: 1

Example 1

```
dspfrasnroute 69 3
```

Description

Displays the FrasnBNN 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

dspfrasnroutes

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

Full Name

Display FrasnBNN Routes

Syntax

dspfrasnroutes

Related Commands

addfrasnroute, delfrasnroute

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

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

Related Commands

cnfilmi, **dspilmient**

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

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
```

dspintl

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

Full Name

Display interval

Syntax

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

Related Commands

none

Cards on which the command executes

SRM-3T3 on shelf equipped with BNM-155

Attributes

Log: No State: Active Privilege: 1

System Response

```
SonetSectionLineNum:  
SectionIntervalNum:  
SectionCurrentValidFlag:  
SectionCurrentESs:  
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

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.

PDUIn	3480
PDUOut	3128
OctetsIn	5220000
OctetsOut	4692000
TESTCommansIn	5
TESTCommandsOut	11
LocalBusies	2
UnknownSaps	4

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 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

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:
sonetLineLoopback:
sonetHCmasking:
sonetPayloadScramble:
sonetFrameScramble:
sonetMediumType:
sonetMediumTimeElapsed:
sonetMediumValidIntervals
sonetMediumLineCoding
sonetMediumLineType
sonetMediumCircuitIdentifier

sonetMediumValidEntries:
    
```

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, 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

dspInS

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

dspInS

Description

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

System Response

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

LineNumOfValidEntries: 1

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

dsploadsgent

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	Overload	Overload	Overload	Overload

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, FRSM

Attributes

Log: No State: Active Privilege: 1-5

Example

```
dsplog
```

Description

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

<lsaddress> LS 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 LS counters for a specified port and LS address.

Full Name

Display LS count.

Syntax

dsplscount <port_num> <lsaddress> :

<port_num> port number of the LS connection to be routed in the range 1-192

<lsaddress> address of logical 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 LS counter values for port 12 and logical 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 LS Stations.

Full Name

Displays SDLC LS 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 counter for the card.

Full Name

Display control message counter

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 counter for the current card.

System Response

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

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 an FRSM or CESM, port number is the port number in the range 1–96

or

On an AUSM, port number is the port number in the range 1–4

Related Commands

FRSM: **addport**, **cnfport**, **delpport**

AUSM: **uport**, **dnport**

Cards on which the command executes

FRSM, AUSM, CESM

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: 0xffffffff
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

```

dspportcnt

This command displays counters for a specified port.

Full Name

Display port counters

Syntax

dspportcnt <port number>

where:

<port number> port number is in the range 1–96

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
HECErrorredSeconds: 1
SeverelyHECErrorredSeconds: 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	
XmtFramesDuringLMIAAlarm:	0	
XmtByteDuringLMIAAlarm:	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

<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	
XmtFramesDuringLMIAAlarm:	0	
XmtByteDuringLMIAAlarm:	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
RcvUNISegMismatch:		0
RcvNNISegMismatch:		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

Syntax

dspportq <port number> <egress queue number>

where:

<port number> queue number is in the range 1–4

<egress queue number> egress queue number is in the range 1–12

Related Commands

dspportqs

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 port.

Full Name

Display card errors

Syntax

dspportqs <port number>

Related Commands

dspportq

Cards on which the command executes

AUSM

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

dsports

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

Full Name

Display ports

Syntax

dsports

Related Commands

addport, cnfport, delpport, dsport

Cards on which the command executes

FRSM, AUSM, CESM

Attributes

Log: No State: Any Privilege: 1–6

Example

dsports

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

dspSDLport

Displays an existing SDLC port from a FRASM line.

Full Name

Displays SDLC port

Syntax

dspSDLport <port number> :

<port number> port number in the range 1-192

Related Commands

addSDLport, dspSDLports

Cards on which the command executes

FRASM

Attributes

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

Example

```
dspSDLport 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

dpsdlcportcnt

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

Full Name

Display SDLC port count

Syntax

dpsdlcportcnt <port_num> :

<port_num> port number of the SDLC connection to be routed in the range 1-192

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

dspsrmlns

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

Full Name

Display 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

dsp1ns

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

dspstungroup

This command displays a STUN protocol group.

Full Name

Display STUN Protocol Group

Syntax

dspstungroup <group_num> :

<group_num> number by which the group is to be known 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

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 connection to be routed in the range 1-192

<lsaddress> address of the SDLC LS 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

dpsarcnt

The **dpsarcnt** command displays the Segmentation and Reassembly (SAR) counters for the current card.

Full Name

Display SAR counters

Syntax

dpsarcnt <ChanNum>

where ChanNum is:

- For FRSM, 16–271
- For ASC, 16–1024
- For AUSM, 16–271
- For CESM, 32-279

Cards on which the command executes

ASC, FRSM, AUSM, CESM

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           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

dpsarcnt 98

Description

Display SAR count for channel 98 on the current card (an AUSM).

System Response

```
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           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           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

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

dpsmconf

The **dpsmconf** 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

dpsmconf

Related Commands

clrsmconf

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 Card Type	Config exist	Rate Control	Channelized	MIB 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 **cnfsrc** command displays the SRM 3T3 clock source for a specified T3 line.

Full Name

Display SRM clock source

Syntax

dspsrmclksrc -ds3<T3 line number>

where:

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

Related Commands

cnfsrc

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

dsptrapmgr

The **dsptrapmgr** command displays a list of a specified SNMP Manager.

Full Name

Display trap manager

Syntax

dsptrapmgr <ipaddr>

where:

<ipaddr> IP address of the trap manager to be displayed. In the form n.n.n.n

Related Commands

addtrapmgr, deltrapmgr, dspttrapmgrs

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1-6

Example

dsptrapmgr 1.1.1.1

Description

System Response

```
ipaddr:      1.1.1.1
PortNum:     162
RowStatus:   Add
ReadTrapFlag: Off
NextTrapSeqNum: 396
TimeOut:     Disabled
Age:         0 minutes
```

dspttrapmgrs

The **dspttrapmgrs** command displays a list of all the SNMP Managers that receive traps.

Full Name

Display trap managers

Syntax

dspttrapmgrs

Related Commands

cnftrapmgr

Cards on which the command executes

ASC

Attributes

Log: No State: Any Privilege: 1-6

Example

dspttrapmgrs

Description

System Response

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

```
dspttrapmgr  
clrmsgcnt  
clrsarcnt  
dspadrxlat  
cnfalm  
dspalmcnf  
cnfcnt  
clrbnmcnt  
cnfifip  
dspifip  
cnftime  
cnfdate  
cnfname  
cnfclksrc  
dspclksrc  
dspshelfalm  
dspbnmcnt  
dspcd  
dpsarcnt  
dspmsgcnt  
dspalm  
dspalms  
dspalmcnt  
dspln  
dsplns  
dspcds
```

modbert

The **modbert** command modifies 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

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

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

startbert

The **startbert** command starts the shelf for bit error rate testing.

Full Name

Start Bit Error Rate Test

Syntax

startbert

Related Commands

dspbert, cnfbert, modbert, delbert

Cards on which the command executes

ASC

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> range 16–271

Related Commands

dspcons, **tstconseq**, **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

Related Commands

dsicons, **tstcon**

Cards on which the command executes

FRSM, AUSM

Attributes

Log: No State: Active Privilege: 1–4

tstdelay

Externally tests the integrity of a connection by sending a single collection of supervisory cells to the remote end to 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> range 16–271

Related Commands

dsicons, **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 >
```

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

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

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 *****
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 >
```


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Cisco MGX 8220
Command Reference
78-5389-01

Release 4.1
May 1998

Documentation Response Card

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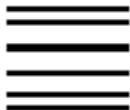


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