

# Checking Firmware and Hardware Versions on MGX 8220/MGX 8250

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## Introduction

This document describes the **dspcds**, **cc**, **dspcd**, **version**, and **dspfwrevs** commands. You can use these commands in order to gather version and revision information about both hardware and firmware of the ASC and the Processor Switching Module (PXM) cards.

The processor card for the MGX 8220 Shelf Concentrator, which was formerly called the AXIS shelf controller, is the ASC. The ASC is a two-card set that consists of an ASC front card and an ASC-BC back card. You can insert the ASC card set only in Slot 3 or Slot 4 of the shelf. In order to achieve 1:1 redundancy, you can insert an ASC card set in both slots.

The processor card for the MGX 8250 Edge Concentrator is the PXM card. This is a three-card set that consists of a full-height PXM front card and two half-height PXM back cards. You can insert the PXM card set only in Slot 7 or Slot 8 of the MGX 8250 Concentrator. In order to achieve 1:1 redundancy, you can insert a PXM card set in both slots.

The ASC provides a user interface in order to control, configure, and manage the shelf. The ASC interfaces with the other cards in the shelf via the cell bus on one side and with the user through console ports on the other side.

Like the ASC, the PXM also provides a user interface for control, configuration, and management. It also provides the switching function for the MGX 8250 Concentrator.

Refer to these documents for more information:

- Cisco MGX 8220 Command Reference
- Cisco MGX 8250 Command Reference

## Prerequisites

### Requirements

Readers of this document should be knowledgeable of these topics:

- ASC
- PXM
- MGX 8220 Shelf Concentrator
- MGX 8250 Edge Concentrator

## Components Used

This document is not restricted to specific software and hardware versions.

## Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

## The dspcds Command

The **dspcds** command displays the status on all cards. It lists the cards that the ASC can see in the shelf. You can only issue this command on the active ASC or active PXM.

```
axis.1.3.ASC.a > dspcds
```

Slot	CardState	CardType	CardAlarm	Redundancy
1.1	Active	BNM-T3	Minor	
1.2	Standby	BNM-T3		
1.3	Active	ASC		
1.4	Standby	ASC		
1.5	Active	AUSM-8T1		
1.6	Empty			
1.7	Active	IMA-8T1/B	Major	
1.8	Active	AUSM-4T1		
1.9	Empty			
1.10	Active	CESM-8T1		
1.11	Empty			
1.12	Active	FRSM-4T1	Major	
1.13	Active	AUSM-8T1		
1.14	Active	AUSM-8T1		
1.15	Active	SRM-3T3		
1.16	Standby	SRM-3T3		

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

```
NumOfValidEntries: 16
NodeName: axis5
Date: 12/19/2000
Time: 09:17:23
TimeZone: PST
TimeZoneGMTOff: -8
StatsMasterIpAddress: 172.16.156.8
shelfIntegratedAlarm: Major
BkplnSerialNum: 142257
BkplnType: 1
BkplnFabNumber: 218412-00
BkplnHwRev: bb
```

```
Syntax : dspcds
```

```
axis.1.3.ASC.a >
```

In the output, the **CardState** field indicates the status of the card in the **CardType** field. **CardState**

Active indicates that ASC recognizes the card and is ready to be configured for the services it supports. You cannot configure the card for services if it is in another state.

CardState Standby indicates that the card is configured for redundancy and is the redundant backup for the adjacent card. Configurations are replicated on the redundant card by the active card. Refer to the Enclosure and Card Installation chapter of Cisco MGX 8850 Installation and Configuration, Release 1.1.00 for more information on redundancy.

The CardAlarm field indicates whether the card is in Major Alarm or Minor Alarm.

## The cc Command

The `cc slot-number` command changes the login session to the card specified. Before you issue other commands, you must first issue the `cc` command.

```
axis.1.3.ASC.a > cc 8  
  
axis.1.8.AUSM.a >
```

## The dspcd Command

The `dspcd` command displays characteristics of the current card hardware and firmware, and information about its status. In order to issue this command on a card, you must issue the `cc` command in order to change the session to the card.

```
axis.1.3.ASC.a > cc 8  
  
axis5.1.8.AUSM.a > dspcd  
  
ModuleSlotNumber:      8  
FunctionModuleState:   Active  
FunctionModuleType:    AUSM-4T1  
FunctionModuleSerialNum: 361017  
FunctionModuleHWRev:   ac  
FunctionModuleFWRev:   4.0.20  
FunctionModuleResetReason: Reset by ASC from PIO  
LineModuleType:        Missing  
LineModuleState:       Not Present  
mibVersionNumber:      20  
configChangeTypeBitMap: CardCnfChng, LineCnfChng  
cardIntegratedAlarm:   Clear  
fab number:            213792-00  
  
axis.1.8.AUSM.a >
```

## The version Command

The `version` command shows the different types of version-related information such as firmware version, operating system kernel version, and the date of the software build. In order to issue this command on a card, you must change the session to the card by issuing the `cc` command.

```
axis.1.8.AUSM.a > version  
  
***** Cisco Systems, Inc. AXIS AUSM Card *****  
Firmware Version      = 4.0.20  
Backup Boot version = BT_4.0.00  
AUSM Xilinx file = ausmfract.h  
VxWorks (for STRATACOM) version 5.1.1-R3000.
```

```
Kernel: WIND version 2.4.  
Made on Wed Jan 19 20:07:56 PST 2000.  
Boot line:
```

```
axis.1.8.AUSM.a >
```

## The dspfwrevs Command

The **dspfwrevs** command displays the current revision levels of the firmware on the shelf or concentrator. You can only issue this command on the ASC or the PXM card sets.

```
mgx8220.1.4.ASC.a > dspfwrevs
```

Cfg	Size	Date	Time	File Name	Card Type	Version
n/a	1860300	05/10/2000	09:41:54	asc.fw	ASC	5.0.14
Yes	612764	09/28/1999	11:00:00	sm60.fw	CESM-4T1E1	4.0.15
Yes	762660	09/28/1999	11:00:00	sm30.fw	FRSM-4T1E1	4.0.19
Yes	773128	01/09/2000	11:35:14	sm35.fw	FRSM-8T1E1	5.0.13
Yes	1087240	01/09/2000	11:35:14	sm70.fw	IMA-8T1E1	5.0.12
Yes	754048	09/28/1999	11:00:00	sm40.fw	AUSM-4T1E1	4.0.19
n/a	377604	09/28/1999	11:00:00	sm50.bt	AUSM-8T1E1	AU8_BT_1.0.01
Yes	999204	09/28/1999	11:00:00	sm50.fw	AUSM-8T1E1	4.0.20
Yes	561072	12/11/1998	11:52:24	sm90.fw	CESM-8T1E1	4.1.03
Yes	668424	12/11/1998	11:52:24	sm34.fw	FRSM-HS1	4.0.14
n/a	267212	09/28/1999	11:00:00	sm60.bt	CESM-4T1E1	BT_4.0.01
n/a	264592	09/28/1999	11:00:00	sm90.bt	CESM-8T1E1	CE8_BT_1.0.01
n/a	300268	09/28/1999	11:00:00	sm35.bt	FRSM-8T1E1	FR8_BT_1.0.01
n/a	406224	09/28/1999	11:00:00	sm70.bt	IMA-8T1E1	IMA_BT_1.0.01
Yes	1018788	04/14/2000	13:43:08	sm50_9.fw	AUSM-8T1E1	4.0.21
n/a	1764260	04/14/2000	13:43:08	sm2.fw	ASC	4.1.06
Yes	776920	05/10/2000	09:41:54	sm30_6.fw	FRSM-4T1E1	4.0.21
Yes	1137568	05/10/2000	09:41:54	sm50_14.fw	AUSM-8T1E1	5.0.12
Yes	1137568	01/09/2000	11:35:14	sm50_10.fw	AUSM-8T1E1	5.0.12

```
mgx8220.1.4.ASC.a >
```

In the output, all files with .bt extensions are bootcode files. Files with the .fw extensions are firmware files. You can use firmware files with the format sm##.fw on slots in the shelf that contain a card that matches the firmware type. However, if the format is sm##\_slot#.fw, then the firmware file can only be used by that specific slot for a specific card type. If a card that does not match the firmware is inserted in that slot, then the card goes into the Reserved CardState. The Cfg field indicates whether the file is used by the shelf. The Version field indicates the version of the firmware or bootcode file. Refer to the appropriate Software Release Notes for current information about firmware and bootcode versions.

**Note:** The commands in this document and their explanations are valid for the MGX 8220 and MGX 8250. The screen outputs shown in this document are taken from an MGX 8220 shelf. The outputs for the MGX 8250 Concentrator are very similar.

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## Related Information

- [1.2.00 Version Software Release Notes Cisco WAN MGX 8230, 8250 and 8850 Software](#)
- [Release 5.0 MGX 8220 Documentation](#)
- [MGX 8220 Upgrade and Downgrade Techniques](#)
- [Cisco WAN Switching Solutions Cisco Documentation](#)
- [Guide to New Names and Colors for WAN Switching Products](#)
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