



# Release Notes for Cisco MGX 8240 Release 3.0.1.10 IMC Software

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## Introduction

Release 3.0.1.10 of the Integrated Management Controller (IMC) Release Notes provide additional information to the Release 3.0 IMC documentation.

This document is intended for customer functional and operational groups and engineers responsible for installing and provisioning Cisco MGX 8240 switches.



# System Requirements

This section lists the system requirements needed to deploy the IMC cards.

## Hardware Supported

Release 3.0.1.10 supports all hardware components of Release 3.0.

## Software Compatibility

Release 3.0.1.10 IMC software replaces previous versions.

## Upgrade to a New Software Release

Release 3.0.1.10 software provides an upgrade capability from Release 2.X and Release 3.0. The procedure is the same for both releases. The software preserves configuration across the upgrade on deployed switches.



### Note

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Release 3.0 does not support the upgrade feature in a redundancy configuration. Therefore, users running Release 2.X must upgrade to 3.0.1.

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The software also supports downgrading from Release 3.0.1.10 to Releases 3.0 and 2.X. The configuration changes made in Release 3.0.1.10 are lost after the downgrading process completes. For information on downgrading IMC cards, see the [Downgrade to a Previous Software Version](#) section.

Use the VCLI to upgrade the switch software on IMC cards. The procedure is the same for an individual IMC card and cards in a redundancy group. The upgrade causes management traffic to be lost for approximately five minutes for an individual card and 10 minutes for a redundancy group card. User traffic is not interrupted.

In addition to installing new files, the upgrade procedure copies the current configuration to the upgraded switch software. After the cards in a redundancy group are upgraded, IMC redundancy is automatically restored.

To upgrade IMC cards, complete the following procedure.

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- Step 1 Run the VCLI version that is being upgraded (Release 2.X or 3.0).
  - Step 2 Set the VCLI image directory environment.  
**sw1[.] VCLI>> change env -imagedir /opt/Sentient/vcli/image/R3.0.1.10**
  - Step 3 Set the SNMP time out for 99 seconds.  
**sw1[.] VCLI>> change env -snmptimeout 99**

**Step 4** Set the network time out of 5 minutes.  
**sw1[.] VCLI>> change env -timeout 5**

**Step 5** Verify the changes.  
**sw1[.] VCLI>> sh env**

**Example 1** *Display the timeout changes*

```
sw1[.] VCLI>> sh env
AutoSave: Enabled Timeout: 5 min PageLimit: 0 lines
Snmp Timeout: 99 Provisioning Client Path:
Log Level: 0 Software image path: /users/prameet/tmp/R3.0.1.10
ATM Switch Provisioning: Enabled
```

**Step 6** Set the FTP password for the switch.  
**sw1[.] VCLI>> change system switch -sname <switch name> -ftppass <FTP password> -card <card number>**

If the <FTP password> is not specified, the VCLI uses the default password `sysadmin`.

**Step 7** Start the upgrade.  
**sw1[.] VCLI>> download -sname <switch name> -verbose 1 -noconfirm 1 -card <card number>**

The **-verbose 1** option reports the status of the upgrade during the process. The **-noconfirm 1** option turns off the confirmation message that displays when the download starts.

If an error occurs during the download, the switch is unreachable. To restart the upgrade procedure, repeat [Step 7](#).

**Step 8** Change the old image to the new image.  
**sw1[.] VCLI>> change imccard image -sname <switch name> -card <card number>**

To acknowledge the upgrade and confirm communication loss, type **Y** at the corresponding prompts. To cancel the upgrade and exit the download process, type **N** at the prompts.

The change image process includes the following tasks:

- Checksum is upgraded.
- Existing configuration is copied to the upgraded software directory.
- Default software directory is set.

The card resets and is unavailable while it completes the following functions:

- Loads the software.
- Performs diagnostics.
- Loads the switch configuration.

The change image process takes approximately five minutes for an individual IMC card. This process takes approximately 10 minutes for cards in a redundancy group. During this process, the following errors might occur:

- Download checksum error—A checksum error is detected after the files are transferred to the switch. The upgrade is not complete.

Restart the upgrade procedure using the **download** command from [Step 7](#).

- Configuration copy checksum error—A checksum error is detected while the configuration files are copied to the upgrade software directory. The upgrade is not complete.

Restart the upgrade using the **download** command from [Step 7](#).

**Step 9** When the switch is back online and the upgrade is complete, verify that the switch software is updated to Release 3.0.1.10 for each card.

```
sw1[.] VCLI>> sh imc info -card <card number>
```

**Example 2** *Display software version for an individual IMC card*

```
sw1[.] VCLI>> sh imc info -card 1
Switch Name: sw1
Card 1
Primary Card Type: IMC
Software Version: Cisco Systems, IMC, Release 3.0.1.10
Current Date/Time (GMT): 10/25/00 11:27:44
Hardware Rev: RevC205A0233-00
Part Number: Serial Number: 0233A 000 67
CLEI Code: unknown Date of Manufacture: 99 2 10
Card Type: IMC Unable to Communicate with the Backup
```

**Example 3** *Display software version for IMC card in a redundancy group*

```
sw1[.] VCLI>> sh imc info -card 1
Switch Name: sw1
Card 1
Primary Card Type: IMC
Software Version: Cisco Systems, IMC, Release 3.0.1.10
Current Date/Time (GMT): 10/25/00 11:27:44
Hardware Rev: RevC205A0233-00
Part Number: Serial Number: 0233A 000 46
CLEI Code: Date of Manufacture: 99 2 10

Card Type: IMC I/O Card Type: IMC
Backup Card Type: IMC
Software Version: Cisco Systems, IMC, Release 3.0.1.10
Current Date/Time (GMT): 10/25/00 11:27:44
Hardware Rev: RevC204G0233-00
Part Number: Serial Number: 0245A 000 46
CLEI Code: Date of Manufacture: 99 2 10
```

To downgrade IMC cards, follow the steps in the [Downgrade to a Previous Software Version](#) section.

## Downgrade to a Previous Software Version

Release 3.0.1.10 software supports downgrading from Release 3.0.1.10 to Releases 2.X and 3.0. The procedure is the same for both releases. The configuration changes made in Release 3.0.1.10 are lost after the downgrade process completes.

The software also supports upgrading from Release 2.X and Release 3.0 to Release 3.0.1.10. For information on upgrading IMC cards, see the [Upgrade to a New Software Release](#) section.

The downgrade procedure is the same for an individual IMC card and cards in a redundancy group.

The downgrade takes approximately five minutes per card, and interrupts management traffic for approximately 1–15 seconds per card. IMC redundancy is restored once the downgrade is complete.

To downgrade IMC cards, complete the following procedure.

**Step 1** Change the active software to the previous version of software.

```
sw1[.] - VCLI>> change imccard image -sname <switch name> -card <card number> -noconfirm 1
```

To acknowledge the upgrade and confirm communication loss, type **Y** at the corresponding prompts. To cancel the upgrade and exit the download process, type **N** at the prompts. These prompts display for each card.

The **-noconfirm 1** option turns off the confirmation message that displays when the download starts.

During the downgrade, the IMC card loads the previous software and configuration, and performs diagnostics.

**Step 2** When the switch is back online and the downgrade is complete, verify that the switch software is downgraded to either Release 2.2.0.17 Or Release 3.0.0.X.

```
sw1[.] VCLI>> sh imc info -card <card number>
```

**Example 4** *Display software version for an individual IMC card*

```
sw1[.] VCLI>> sh imc info -card 1
Switch Name: sw1
Card 1
Primary Card Type: IMC
Software Version: Cisco Systems, IMC, Release 2.2.0.17
Current Date/Time (GMT): 10/27/00 11:40:30
Hardware Rev: RevC205A0233-00
Part Number: Serial Number: 0233A 000 46
CLEI Code: Date of Manufacture: 99 2 10

Card Type: IMC I/O Card Type: IMC
IMC unable to communicate with the backup.
```

**Example 5** *Display software version for IMC in a redundancy group*

```
sw1[.] VCLI>> sh imc info -card 1
Switch Name: sw1
Card 1
Primary Card Type: IMC
Software Version: Cisco Systems, IMC, Release 2.2.0.17
Current Date/Time (GMT): 10/30/00 12:27:35
Hardware Rev: RevC205A0233-00
Part Number: Serial Number: 0233A 000 46
CLEI Code: Date of Manufacture: 99 2 10
Card Type: IMC I/O Card Type: IMC
Backup Card Type: IMC
Software Version: Cisco Systems, IMC, Release 2.2.0.17
Current Date/Time (GMT): 10/25/00 11:27:44
Hardware Rev: RevC204G0233-00
Part Number: Serial Number: 0245A 000 46
CLEI Code: Date of Manufacture: 99 2 10
```

To upgrade IMC cards, follow the steps in the [Upgrade to a New Software Release](#) section.

# Caveats

This section lists the known and fixed caveats in Release 3.0.1.10.

## Open Caveats - Release 3.0.1.10

The following table lists the open caveats in IMC Release 3.0.1.10.

*Table 1 Open Caveats*

Bug ID	Description
CSCds62539	<p><b>Symptom:</b></p> <p>When the standby IMC card is in backup mode, the LED displays yellow on the card. However, SentientView displays the backup mode as red.</p> <p><b>Workaround:</b></p> <p>None.</p>

## Resolved Caveats - Release 3.0.1.10

The following table consists of the caveats fixed in Release 3.0.1.10.

*Table 2 Fixed Caveats*

Bug ID	Description
CSCdr70040	Value of <code>No-such</code> is returned (instead of <code>Gen_Err</code> ) when the maximum number of managers is reached.
CSCdr88939	IMC trap index incorrectly uses 101 for the top slot.
CSCdr90752	Value of <code>badValue</code> returned when setting the <code>sntpProtocolAdmin</code> to 0.
CSCds19444	SNMP timeout should be set to a large value for upgrade.
CSCds19850	IMC cards reset each other when they have different software revisions.
CSCds20443	Upgrade occurs when same version is already running.
CSCds28054	VCLI does not create the destination directory during an FTP session.
CSCds31017	When the <code>swdwnld</code> command is executed, the FTP of the configuration files from the primary IMC should be blocked.
CSCds35340	Fail to restore on refreshed card ( <code>cfm_BackupReadConfigDataSections</code> ).
CSCds35491	When the <code>swdwnld</code> command is executed, the <code>.db</code> file copies as compressed.
CSCds43259	The backup directory in slot 0 is unable to be read. This directory is located in the <code>cfm_BackupCreateConfigFile</code> .

## Related Documentation

This section provides the documentation related to MGX 8240 Release 3.0.1.10.

## Release-Specific Documents

The following release notes are related to this documentation:

- *Release Notes for Cisco MGX 8240 Release 3.0.1 VCLI Software*, DOC-7810800=
- *Release Notes for Cisco MGX 8240 Release 3.0.1.10 PSM Switch Software*, DOC-7811171=

## Hardware Documents

The IMC Release Notes support the *Cisco MGX 8240 Hardware User's Guide Release 3.0*, DOC-7810728=. This manual provides a physical description of the 8240 and includes instructions on installation, logical connectivity, cabling, traffic management, and statistics.

## Software Documents

The IMC Release Notes support the *Cisco MGX 8240 VCLI User's Guide Release 3.0*, DOC-7810727=. This manual provides the VCLI installation and provisioning procedures, and includes the specific VCLI commands.

## Obtaining Documentation

The following sections provide sources for obtaining documentation from Cisco Systems.

### World Wide Web

You can access the most current Cisco documentation on the World Wide Web at the following sites:

- <http://www.cisco.com>
- <http://www-china.cisco.com>
- <http://www-europe.cisco.com>

### Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Documentation CD-ROM is updated monthly and may be more current than printed documentation. The CD-ROM package is available as a single unit or as an annual subscription.

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## Technical Assistance Center

The Cisco TAC website is available to all customers who need technical assistance with a Cisco product or technology that is under warranty or covered by a maintenance contract.

### Contacting TAC by Using the Cisco TAC Website

If you have a priority level 3 (P3) or priority level 4 (P4) problem, contact TAC by going to the TAC website:

<http://www.cisco.com/tac>

P3 and P4 level problems are defined as follows:

- P3—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- P4—You need information or assistance on Cisco product capabilities, product installation, or basic product configuration.

In each of the above cases, use the Cisco TAC website to quickly find answers to your questions.

To register for Cisco.com, go to the following website:

<http://www.cisco.com/register/>

If you cannot resolve your technical issue by using the TAC online resources, Cisco.com registered users can open a case online by using the TAC Case Open tool at the following website:

<http://www.cisco.com/tac/caseopen>

### Contacting TAC by Telephone

If you have a priority level 1 (P1) or priority level 2 (P2) problem, contact TAC by telephone and immediately open a case. To obtain a directory of toll-free numbers for your country, go to the following website:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

P1 and P2 level problems are defined as follows:

- P1—Your production network is down, causing a critical impact to business operations if service is not restored quickly. No workaround is available.
- P2—Your production network is severely degraded, affecting significant aspects of your business operations. No workaround is available.

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This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section.

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