



# Release Notes for the Cisco WAN Manager, Release 15.3.00 P1

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**August 2006**

**Rev. C0**

These release notes are for use with the Cisco WAN Manager (CWM) 15.3.00 P1 software release that supports MGX, BPX, and IGX switches. You can access the MGX switch documentation at this website. At the site, see MGX Switches:

[http://www.cisco.com/en/US/products/hw/switches/tsd\\_products\\_support\\_category\\_home.html](http://www.cisco.com/en/US/products/hw/switches/tsd_products_support_category_home.html)

The first section describes all of the switch releases that CWM 15.3.00 P1 supports.

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## Releases Supported by CWM 15.3.00, Patch 1

Table 1 shows the BPX, IGX, and MGX switch platforms and releases that the CWM 15.3.00, Patch 1 software supports.

For additional information on supported products, see these sections:

- [Supported Hardware, page 9](#)
- [Releases Certified for CWM 15.3.00 P1, page 22](#)

**Table 1** *Switch Platforms and Releases Supported by CWM 15.3.00 P1*

| Switch Platform  | Supported Software Release  |
|--|---|
| Existing WAN switching products, including the Cisco IGX 8400 series and the Cisco BPX 8600 series | 9.2.33–9.2.43<br>9.3.05–9.3.51<br>9.4.00–9.4.12   |
| SES PNNI Controller  | 3.0.10–3.0.25<br>4.0.00–4.0.15  |
| MGX 8220   | 4.1.07–4.1.12<br>5.0.12–5.0.20  |
| MGX 8230, 8250 and 8850 (PXM1)   | 1.1.40–1.1.42<br>1.2.00–1.2.13<br>1.2.20–1.2.22<br>1.3.00–1.3.12<br>1.3.14                                |
| MGX8830/B (PXM45/C)  | 5.1.20<br>5.2.00<br>5.3.00 and 5.3.10   |
| MGX 8830 and 8850 (PXM1E)<br>MGX 8850 (PXM45)  | 3.0.23–3.0.25<br>4.0.00–4.0.17<br>5.0.00–5.0.20<br>5.1.20<br>5.2.00<br>5.3.00 and 5.3.10                  |
| MGX 8880 (PXM45)   | 5.0.00–5.0.20<br>5.1.20<br>5.2.00<br>5.3.00 and 5.3.10  |
| MGX 8950 (PXM45)   | 2.1.76–2.1.81<br>3.0.23–3.0.25<br>4.0.00–4.0.17<br>5.0.00–5.0.20<br>5.1.20<br>5.2.00<br>5.3.00 and 5.3.10 |

# System Requirements

This section describes the system requirements for using the CWM:

- [CWM Server Requirements, page 3](#)
- [Java Client Requirements, page 4](#)
- [Standalone Statistics Manager Requirements, page 4](#)
- [Solaris Patch Requirements, page 6](#)
- [HP OpenView Requirements, page 7](#)
- [Informix Requirements, page 7](#)

In addition to the CWM platform requirements listed in the *Cisco WAN Manager Installation and Configuration Guide, Release 15.3.00*, consider also the following:

- UltraSPARC II, UltraSPARC III, and UltraSPARCIIIi workstations—The CWM is compatible with them. For system requirements, see Tables 2 through 5.
- Ultra 60 and Enterprise 450 and 4500—They were certified with earlier CWM releases and can still be used with this release. For the certified system requirements, see the CWM 11.0.10 release notes. Cisco does not provide technical support for Sun configurations or products that Sun Microsystems no longer supports.
- Graphics card—A graphics card is required when using the Java Client to access to the CWM.
- Video—Video on the CWM server is required only for user access or maintenance. It can be added to Sun servers or workstations. For Ultra and Enterprise, a video adapter is required.
- Firewalls—If you are using a firewall between the server and the clients, you must open a range of ports for the CWM servers. For additional information about using firewalls, see the “Using Firewalls” section in the CWM installation guide. You can access all CWM documentation at this website:

[http://www.cisco.com/en/US/products/sw/netmgmtsw/ps2340/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/sw/netmgmtsw/ps2340/tsd_products_support_series_home.html)

## CWM Server Requirements

[Table 2](#) lists the system requirements for the CWM server. Note also the following about the CWM servers:

- Other UltraSPARC III server models with equal or higher CPU speed and memory capacity can also be used.
- If UltraSPARC II servers are used, see the CWM 11.0.10 release notes for system requirements.
- If you are using an Ultra 60 (low-end platform), it should have at least 2 GB of RAM.

**Table 2** CWM Server System Requirements

| CWM Platform        | No. of CPUs | Min. CPU Speed (MHz) | Min. RAM (GB) | Min. Swap Space (GB) | Min. Disk Space (GB) | Max No. of PVC/SPVC Connections or Connection Segments for XPVC | Max. No. of PC Clients | Max. No. of Nodes | UltraSPARC III Server Used for Network Scale Testing by Cisco |
|---------------------|-------------|----------------------|---------------|----------------------|----------------------|---|------------------------|-------------------|---|
| Low - Medium #1     | 1           | 900                  | 2             | 4                    | 1 x 36               | 100K  | 10                     | 100               | Netra 20, Sun Fire 280R                                       |
| Low - Medium #2     | 1           | 1000                 | 2             | 4                    | 2 x 36               | 100K  | 10                     | 100               | Sun Fire V210   |
| Medium #1           | 2           | 900                  | 4             | 8                    | 1 x 36               | 200K  | 20                     | 500               | Netra 20, Sun Fire 280R                                       |
| Medium #2           | 2           | 1280                 | 4             | 8                    | 2 x 72               | 200K  | 20                     | 500               | Sun Fire V240   |
| High- Carrier Grade | 4           | 900                  | 8             | 16                   | 2 x 36               | 1M  | 40                     | 1000              | Sun Fire V880   |
| Carrier Grade       | 8           | 900                  | 16            | 32                   | 2 x 36               | 2M  | 100                    | 2000              | Sun Fire V880   |
| Carrier Grade 2     | 8           | 900                  | 40            | 88                   | 5 x 68               | 3M  | 100                    | 2000              | Sun Fire V880   |

## Java Client Requirements

Table 3 lists the Java Client system requirements.

**Table 3** Java Client System Requirements

| CWM Java Client | Operating System   | Web Browser   | No. of CPUs  | CPU Speed (MHz) | RAM (MB) | Swap Space (GB) | Disk Free Space (MB) |
|-----------------|--|---|--------------|-----------------|----------|-----------------|----------------------|
| PC              | Windows 2000<br>Windows NT 4.0, SP 6a<br>Windows XP, SP1 | IE 6.0<br>Netscape 4.76<br>JRE 1.4.2_02<br>(CWM 15.3.00 P1 also supports JRE 1.4.2_10.) | 1: Pentium 3 | 750             | 512      | N/A             | 130                  |
| SPARC10         | Solaris 8<br>Solaris 9                                   | Netscape 4.76   | 1: 450 MHz   | 450             | 512      | 1               | 130                  |

## Standalone Statistics Manager Requirements

Table 4 lists the Standalone Statistics Collector (SSC) or Standalone Statistics Manager (SSM) system requirements, which are the same. Note also the following:

- The file size is 2 MB (typically holds statistics with peak enabled for 20-KB endpoints).
- The number of files does not increase with smaller file size.

- Average Network Transfer Rate is the required TFTP or FTP throughput to collect the maximum number of files (combination of server performance and network bandwidth and traffic).
- One SSM can control a maximum of 12 SSCs.

**Table 4** *SSC or SSM System Requirements*

| SSC Platform | No. of CPUs | Min. CPU Speed (MHz) | Average Network Transfer Rate | RAM    | Swap Space (GB) | Disk Space (GB) | Max. No. of Stats Files (15-min. collection intervals) | Server Used in Cisco Testing |
|--------------|-------------|----------------------|-------------------------------|--------|-----------------|-----------------|--|------------------------------|
| Low          | 2           | 450                  | 170 kbps                      | 512 MB | 2               | 2 x 18          | 350  | U60                          |
| Medium #1    | 2           | 450                  | 3.5 MB/sec                    | 512 MB | 2               | 2 x 18          | 700  | U60                          |
| Medium #2    | 1           | 1002                 | 4 MB/sec                      | 1 GB   | 2               | 2 x 73          | 550  | Sun Fire 210/240             |
| Medium #3    | 1           | 900                  | 1.7 MB/sec                    | 1 GB   | 2               | 1 x 36          | 700  | Netra 20 or Sun Fire 280R    |
| High #1      | 2           | 900                  | 3.5 MB/sec                    | 4 GB   | 8               | 1 x 36          | 900  | Netra 20 or Sun Fire 280R    |
| High #2      | 2           | 1200                 | 4 MB/sec                      | 1 GB   | 2               | 2 x 73          | 1200   | Sun Fire 240                 |

[Table 5](#) lists additional system requirements for the parser in the CWM server, SSC, or SSM. If the parser is enabled, add the applicable system requirements in [Table 5](#) to the CWM server requirements listed in [Table 2](#) or to the SSM or SSC requirements listed in [Table 4](#).

Five statistics are collected from each connection segment endpoint in 15-minute file collection intervals. Collecting statistics for 4 million endpoints with five statistics per endpoint requires 80 GB of disk space per 24-hour period. You will need at least 3 x 36 GB of disk space.

**Table 5** *Parser System Requirements for the CWM Server, SSC, or SSM*

| SSM Platform         | No. of CPUs | Min. CPU Speed (MHz) | RAM (GB) | Swap Space (GB) | Min. Disk Space (GB) | Max. No. of Connection Segment Endpoints (Statistics Enabled) | Server Used in Cisco Testing |
|----------------------|-------------|----------------------|----------|-----------------|----------------------|---|------------------------------|
| Low - Medium         | 2           | 450                  | 1        | 2               | 2 x 18               | 300 KB  | Ultra 60                     |
| Low - Medium         | 1           | 900                  | 2        | 4               | 2 x 36               | 750 KB  | Netra 20, Sun Fire 280R      |
| Medium               | 2           | 900                  | 4        | 8               | 2 x 36               | 2 MB  | Netra 20, Sun Fire 280R      |
| High - Carrier Grade | 4           | 900                  | 8        | 16              | 2 x 36               | 4 MB  | Sun Fire V880                |

## Solaris Patch Requirements

This section shows the Solaris patches that you must install for the CWM and those that we recommend you install. You will install these patches after you install the Solaris 9 operating system.

### Before You Begin Installing Patches

For best results, follow these Sun recommendations before you begin installing the patches:

- After installing the Solaris 9 operating system, you must install the Solaris 9 Kernel Patch 12 or later. After you have installed the patch, you will install the additional patches (see [Table 6](#)) if they were not already installed as part of the cluster.
- Use the single-user mode to install most patches.
- Shut down CWM processes before installing the patches.
- Avoid installing these patches that cause problems with Informix during startup.
  - SPARC Platform—Solaris 9 with patches 112963-21 through 112963-24
  - x86 Platform—Solaris 9 with patches 113986-17 through 113986-20
- Not all Solaris patches or patch clusters require a reboot. If a reboot is not required, you can start the CWM after the patch is installed.

### Installing the Patches

Use this procedure and sequence to install the Solaris patches, which assumes that the Solaris operating system is already installed.

- 
- Step 1** Verify the already installed patches. To do this, use the Solaris **showrev -p** command.
- Step 2** Go to the SunSolve Patch Access website to access the patches:  
<http://sunsolve.Sun.COM/pub-cgi/show.pl?target=patches/patch-access>  
 (If you have a SunSpectrum contract, you can also access patches from SunService.)  
 Install the Kernel Patch 12 for Solaris 9. See [Table 6](#) for the correct version number.
- Step 3** Install the rest of the required patches if they were not already installed as part of the cluster. Depending on your situation, you may want to enter only the first 6 digits of the patch number in the Find Patch field on the Sun Patch Access site and not the version extension to obtain the latest patch version.
- Step 4** Install the recommended patches, as needed and desired. (Several of these recommended patches may require a service contract with Sun.)

**Table 6**      *Required and Recommended Solaris Patches*

| Patches                        | Solaris 9  |
|--------------------------------|--|
| Required to be installed first | Kernel Patch 12<br>(112233-12 or higher)   |
| Required                       | 112874-31<br>112785-42<br>112970-07<br>114716-01<br>113580-01<br>114224-02<br>112998-03<br>112811-01 |
| Recommended                    | 115336-02<br>112964-07<br>113575-05<br>112808-06   |

## HP OpenView Requirements

HP OpenView is used only for viewing the event log and is not required for other CWM procedures. The CWM works with HP OpenView 6.3 or 7.0.

HP OpenView is not bundled with the CWM CDs. You must order it directly from Hewlett-Packard and follow the H-P installation requirements and procedures. (Refer to *HP OpenView Network Node Manager Products, Installation Guide*, Part No. J1136-90000.)

## Informix Requirements

The CWM uses Informix 9.4 for database operations. The Informix software is bundled with the CWM and is included on the CWM Server CD in the CWM CD package. The Informix program is installed automatically when the CWM is installed.

## CWM Packaging

This section describes the CWM and associated software and CDs. See [Table 7](#) for software information and CD contents.

The CWM Software Evaluation CD package includes all CWM CDs and functionality. All of the CWM features are available until the 45-day evaluation period expires. As noted in [Table 7](#), when you order the CWM package, you receive the CWM Server and Documentation CDs.

**Table 7** *CWM and Associated Software*

| Software and Documentation  | CD   | Notes  |
|---|--|--|
| CWM Server<br>Informix 9.4<br>Orbix<br>Java Development Kit (JDK) | CWM Server: CD 1   | Part of the CWM package.   |
| CWM documentation (PDFs)<br>Acrobat Reader<br>gzip                | CWM Documentation: CD 2                                  | Part of the CWM package.<br>The gzip utility is used to decompress the gz files. The command is <code>gzip -d</code> .   |
| CWM Service Agent   | Service Agent CD   | The CD must be ordered separately from the CWM Client/Server package CD set.   |
| Statistics Collection Manager–Standalone (SCMSA)                  | Standalone Statistics Collection Manager CD              | The CD must be ordered separately from the CWM package CD set.<br>The Standalone SCM software includes the WANDEST client software and the Informix server software.   |
| RTM Proxy for the SCM application                                 | RTM Proxy for SCM Application CD                         | This application is included on a separate CD with the Standalone Statistics Collection Manager software only when you order that software. It is meant to be installed only with the SSM and not on systems using the Service Agent. If you have already installed the Service Agent software and you attempt to install this application, you will see errors because the <code>~/config/process.conf</code> file has duplicate entries for the RTM Proxy.<br><br>To install the RTM Proxy for SCM application from the CD, refer to the CWM installation guide. |
| Cisco WAN Data Extraction and Synchronization Tool (WANDEST)      | WANDEST Server Software CD<br>WANDEST Client Software CD | The CD must be ordered separately from the CWM set.  |

**Table 7** *CWM and Associated Software (continued)*

| Software and Documentation  | CD                                      | Notes  |
|-----------------------------|---|--|
| Automated Bulk Provisioning | Automated Bulk Provisioning Software CD | This CD must be ordered separately from the CWM set. |
| Cisco WAN Modeling Tools    | Cisco WAN Modeling Tools Software CD    | This CD must be ordered separately from the CWM set. |

## Supported Hardware

The following subsections list all of the hardware that CWM 15.3.00, Patch 1 supports. You can access BPX, IGX, and MGX switch documentation at this website:

[http://www.cisco.com/en/US/products/hw/switches/tsd\\_products\\_support\\_category\\_home.html](http://www.cisco.com/en/US/products/hw/switches/tsd_products_support_category_home.html)

See also these sections:

- [Releases Supported by CWM 15.3.00, Patch 1, page 2](#)
- [Releases Certified for CWM 15.3.00 P1, page 22](#)

## New Hardware Supported by CWM 15.3.00, Patch 1

No new hardware has been added in the CWM 15.3.00, Patch 1 release.

## Existing Hardware Supported by CWM 15.3.00, Patch 1

The tables on the following pages list the hardware that CWM 15.3.00, Patch 1 supports. [Table 8](#) provides an index of the table numbers that apply to particular platforms.

**Table 8** *Index of Hardware Tables*

| Platform Series   | Table and Page No.                  |
|---|-------------------------------------|
| <a href="#">IGX 8400</a>                                    | <a href="#">Table 9 on page 10</a>  |
| <a href="#">BPX 8600</a>                                    | <a href="#">Table 10 on page 10</a> |
| <a href="#">MGX 8220</a>                                    | <a href="#">Table 11 on page 11</a> |
| <a href="#">MGX 8230 (PXM1)</a>                             | <a href="#">Table 12 on page 12</a> |
| <a href="#">MGX 8250 (PXM1)</a>                             | <a href="#">Table 13 on page 13</a> |
| <a href="#">MGX 8850 (PXM1)</a>                             | <a href="#">Table 14 on page 14</a> |
| <a href="#">PXM1E on MGX 8830, 8830/B, 8850, and 8850/B</a> | <a href="#">Table 15 on page 15</a> |
| <a href="#">MGX 8830/B (PXM 45/C)</a>                       | <a href="#">Table 16 on page 17</a> |
| <a href="#">PXM45 on MGX 8850 and 8850/B</a>                | <a href="#">Table 17 on page 18</a> |
| <a href="#">MGX 8880 (PXM45/C)</a>                          | <a href="#">Table 18 on page 20</a> |
| <a href="#">MGX 8950 (PXM45)</a>                            | <a href="#">Table 19 on page 20</a> |
| <a href="#">SES PNNI Controller</a>                         | <a href="#">Table 20 on page 21</a> |

**IGX 8400 Series**

For IGX 8400 product details, refer to Table 10 in the release notes at this website:

[http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/9\\_4/rnote/9412rn.pdf](http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/9_4/rnote/9412rn.pdf)

**Table 9 IGX 8400**

| Front Card          | Back Card  |
|---------------------|--|
| IGX-HDM             | —  |
| IGX-NPM             | SCM  |
| IGX-NTM             | BC-xxxx-T1/E1/SR/Y1  |
| IGX-UFM-4C          | BC-UFI-8T1/8E1-DB15  |
| IGX-UFM-8C          | BC-UFI-8E1-BNC   |
| IGX-UFM-U           | BC-UFI-12V35<br>BC-UFI-12X21<br>BC-UFI-4HSSI   |
| IGX-URM             | BC-2FE2V   |
| IGX-UVM             | UVI-2T1EC/2E1EC<br>UVI-2J1EC   |
| IGX-UXM<br>IGX-UXME | BC-UAI-4-155-MMF/SMF<br>BC-UAI-2-155-SMF<br>BC-UAI-2SMFXLR<br>BC-UAI-4SMFXLR<br>BC-UAI-3/6-T3/E3<br>BC-UAI-4/8-E1-BNC<br>BC-UAI-4/8-T1/E1-DB15<br>BC-UAI-4-STM1E |

**BPX 8600 Series**

For BPX 8600 product details, refer to Table 9 in the release notes at this website:

[http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/9\\_4/rnote/9412rn.pdf](http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/9_4/rnote/9412rn.pdf)

**Table 10 BPX 8600**

| Front Card  | Back Card                           |
|---|-------------------------------------|
| ASI-2T3/E3  | —                                   |
| ASI-155E  | —                                   |
| ASM-LM  | —                                   |
| BNI-3-T3/C<br>BNI-3-E3/C<br>BNI-155E<br>BNI-2-155/B | BPX-E3-BC<br>BPX-MMF/SMF/SMFLR-2-BC |
| BPX-ASM   | BPX-ASM-BC                          |
| BPX-BCC   | BPX-BCC-BC                          |
| BPX-BCC-3   | BCC-3BC                             |
| BPX-BCC4V   | —                                   |

*Table 10 BPX 8600 (continued)*

| Front Card (continued)                          | Back Card  |
|---|--|
| BPX-BCC-4V/B                                    | —  |
| BPX-BME   | BPX-T3/E3-BC   |
| BPX-BME-OC12                                    | BPX-E3-BC<br>BPX-MMF/SMF/SMFLR-2-BC                            |
| BPX-BXM-155-8                                   | BPX-MMF/SMF/SMFLR-8-155  |
| BPX-BXM-155-4<br>BPX-BXM-E-155                  | BPX-MMF/SMF/SMFLR-4-155  |
| BPX-BXM-622<br>BPX-BXM-E-622                    | BPX-622-2-BC<br>BPX-SMF/SMFLR-622-BC<br>BPX-SMF/SMFLR-622-2-BC |
| BPX-BXM-T3/E3                                   | BPX-T3/E3-BC   |
| BPX-STM1-EL-4<br>BPX-T3/E3                      | BPX-E3-BC<br>BPX-MMF/SMF/SMFLR-2-BC                            |
| BPX-XLR   | BPX-E3-BC<br>BPX-MMF/SMF/SMFLR-2-BC                            |
| RDNT-SMF-155<br>RDNT-LR-155/622<br>RDNT-SMF-622 | BPX-E3-BC<br>BPX-MMF/SMF/SMFLR-2-BC                            |

**MGX 8220 Series**

For MGX 8220 product details, refer to Table 8 in the release notes at this website:

[http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/9\\_4/rnote/9412rn.pdf](http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/9_4/rnote/9412rn.pdf)

*Table 11 MGX 8220*

| Front Card                                | Back Card                         |
|---|-----------------------------------|
| ASC                                       | ASC-LM                            |
| AUSM-4T1E1<br>AUSM-8T1E1<br>AUSM--8T1E1/B | RJ-48-8E1/8T1                     |
| BNM-155                                   | 155-SMF                           |
| T3E3-B/D                                  | T3E3-B/D                          |
| CESM-8T1E1                                | RJ-48-8E1/8T1<br>SMB-8E1          |
| FRSM-4T1E1<br>FRSM-8T1E1                  | RJ-48-8T1/8E1<br>SMB-8E1          |
| FRSM-HS1                                  | HSI-4X21/3HSSI                    |
| FRSM-VHS                                  | HS2                               |
| IMATM-8T1E1/B                             | RJ-48-T3T1/E3E11.3.12<br>SMB-E3E1 |

*Table 11 MGX 8220 (continued)*

| Front Card                               | Back Card             |
|--|-----------------------|
| SRM                                      | DB-15-T1/E1<br>LM-3T3 |
| AUSM-4T1E1<br>AUSM-8T1E1<br>AUSM-8T1E1/B | 8T1/E1                |

**MGX 8230 Series**

For MGX 8230 product details, refer to Tables 16 and 17 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/mgx8230/13/rnotes/rn1312.pdf>

*Table 12 MGX 8230 (PXM1)*

| Front Card                      | Back Card  |
|---------------------------------|--|
| AX-CESM                         | RJ48-8T1/8E1<br>SMB-8E1  |
| AX-FRSM                         | RJ48-8T1/8E1<br>SMB-8E1  |
| MGX-AUSM                        | 8T1/E1   |
| MGX-CESM                        | MGX-RJ48-8T1<br>MGX-BNC-2E3/2E3A/2T3   |
| MGX-FRSM-2CT3<br>MGX-FRSM-2T3E3 | MGX-BNC-2E3/2T3/2E3A   |
| MGX-FRSM-HS1/B                  | MGX-12IN1-4S   |
| MGX-FRSM-HS2                    | MGX-HSSI   |
| MGX-FRSM-HS2/B                  | MGX-HSSI<br>MGX-12IN1-8S   |
| MGX-RPM-128M/B                  | MGX-RJ45-FE/4E<br>MGX-MMF-FE<br>MGX-MMF/SMF-FDDI<br>MGX-MMF/SMF-FDDI/FD  |
| MGX-RPM-PR                      | MGX-MMF-FE<br>MGX-RJ45-4E/B (Ethernet)<br>MGX-RJ45-FE (Fast Ethernet)<br>5-port auto-sensing Fast and Gigabit Ethernet |
| MGX-SRME<br>MGX-SRME/B          | MGX-SMFIR-1-155<br>MGX-STM1-EL1<br>T3  |
| MGX-VISM-8T1/8E1                | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ-48-8T1/8E1<br>AX-R-RJ-48-8T1/8E1<br>MGX-RJ48-8E1                                   |

*Table 12 MGX 8230 (PXM1) (continued)*

|             |  |
|-------------|--|
| MGX-VISM-PR | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1 |
| PXM1        | T3/E3/OC-3/OC-12   |

**MGX 8250 Series**

For MGX 8250 product details, refer to Tables 15 and 17 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/mgx8230/13/rnotes/rn1312.pdf>

*Table 13 MGX 8250 (PXM1)*

| Front Card                   | Back Card   |
|------------------------------|---|
| AX-CESM                      | AX-RJ48-8T1/8E1<br>AX-SMB-8E1   |
| MGX-RPM-128M/B               | MGX-RJ45-FE/4E<br>MGX-MMF-FE<br>MGX-MMF/SMF-FDDI<br>MGX-MMF-FDDI/FD<br>MGX-SMF-FDDI/FD  |
| MGX-SRME                     | MGX-SMFIR-1-155<br>MGX-STM1-EL1   |
| MGX-AUSM                     | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8E1/8T1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1  |
| MGX-CESM                     | MGX-BNC-2E3/2E3A/2T3  |
| MGX-FRSM-HS1/B               | MGX-12IN1-4S  |
| MGX-FRSM-HS2                 | MGX-HSSI  |
| MGX-FRSM-HS2/B               | MGX-HSSI<br>MGX-12IN1-8S  |
| MGX-RPM-PR                   | MGX-MMF-FE<br>MGX-RJ45-4E/B (Ethernet)<br>MGX-RJ45-FE (Fast Ethernet)<br>5-port auto sensing Fast Ethernet and Gigabit-Ethernet |
| MGX-VISM-8T1<br>MGX-VISM-8E1 | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1  |
| MGX-VISM-PR                  | AX-RJ48-8T1<br>AX-R-RJ48-8T1  |

*Table 13 MGX 8250 (PXM1) (continued)*

| Front Card  | Back Card  |
|-------------|--|
| MPSM-8-T1E1 | AX-RJ-48-8T1/8E1<br>AX-R-RJ-48-8T1/8E1<br>AX-SMB-8E1<br>AX-R-SMB-8E1 |
| PXM1        | T3/E3/OC-3/OC-12   |
| SRM         | LM-3T3   |

**MGX 8850 Series**

For MGX 8850 product details, refer to Tables 15 and 17 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/mgx8230/13/rnotes/rn1312.pdf>

*Table 14 MGX 8850 (PXM1)*

| Front Card                      | Back Card  |
|---------------------------------|--|
| AX-CESM                         | AX-RJ48-8E1/8T1<br>AX-SMB-8E1  |
| AX-FRSM                         | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8E1/8T1<br>AX-R-RJ48-8E1/8T1<br>MGX-RJ48-8E1                                     |
| MGX-AUSM                        | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1                                     |
| MGX-CESM                        | RJ48-8T1<br>R-RJ48-8T1<br>MGX-BNC-2E3/2E3A/2T3   |
| MGX-FRSM-2CT3<br>MGX-FRSM-2T3E3 | MGX-BNC-2T3/2E3<br>MGX-BNC-2E3A<br>MGX-BNC-2T3   |
| MGX-FRSM-HS1/B                  | MGX-12IN1-4S<br>MGX-SCSI2-2HSSI/B  |
| MGX-FRSM-HS2                    | MGX-SCSI2-2HSSI/B  |
| MGX-FRSM-HS2/B                  | MGX-12IN1-8S   |
| MGX-RPM-PR                      | MGX-MMF-FE<br>MGX-RJ45-4E/B (Ethernet)<br>MGX-RJ45-FE (Fast Ethernet)<br>5-port auto sensing Fast and Gigabit Ethernet |

**Table 14** *MGX 8850 (PXM1) (continued)*

| Front Card                   | Back Card   |
|------------------------------|---|
| MGX-RPM-128M/B               | MGX-MMF-FE<br>MGX-RJ45-FE<br>MGX-RJ45-4E<br>MGX-MMF/SMF-FDDI<br>MGX-MMF/SMF-FDDI/FD |
| MGX-SRME                     | MGX-SMFIR-1-155<br>MGX-STM1-EL1   |
| MGX-VISM-8T1<br>MGX-VISM-8E1 | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ-48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1 |
| MGX-VISM-PR                  | AX-RJ48-8T1<br>AX-R-RJ48-8T1  |
| MGX-VXSM-6T3                 | VXSM-BC-SMB-3T3E3   |
| MPSM-8-T1E1                  | AX-RJ-48-8T1/8E1<br>AX-R-RJ-48-8T1/8E1<br>AX-SMB-8E1<br>AX-R-SMB-8E1                |
| PXM1                         | T3/E3/OC-3/OC-12  |
| SRM                          | LM-3T3  |

**PXM1E on MGX 8830, 8830/B, 8850, and 8850/B Series**

For product details, refer to Tables 4 through 8 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/8850px45/relnote/52008xx0.pdf>

**Table 15** *PXM1E on MGX 8830, 8830/B, 8850, and 8850/B*

| Front Card                      | Back Card  |
|---------------------------------|--|
| AX-FRSM                         | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1 |
| AX-CESM                         | AX-RJ48-8E1/8T1<br>AX-SMB-8E1  |
| MGX-AUSM                        | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1 |
| MGX-FRSM-2T3E3<br>MGX-FRSM-2CT3 | MGX-BNC-2T3/2E3<br>MGX-BNC-2E3A  |
| MGX-FRSM-HS2/B                  | MGX-12IN1-8S   |

Table 15 PXM1E on MGX 8830, 8830/B, 8850, and 8850/B (continued)

| Front Card   | Back Card  |
|--|--|
| MGX-RPM-PR   | MGX-MMF-FE<br>MGX-RJ45-4E/B (Ethernet)<br>MGX-RJ45-FE (Fast Ethernet)<br>5-port auto sensing Fast and Gigabit Ethernet   |
| MGX-SRME/B   | MGX-BNC-3T3-M<br>MGX-STM1-EL-1   |
| MPSM-8-T1E1  | AX-RJ48-8T1/E1<br>AX-R-RJ48-8T1/8E1<br>AX-SMB-8E1<br>AX-R-SMB-8E1  |
| MPSM-16-T1E1   | RBBN-16-T1E1-1N<br>MCC-16-E1-1N<br>RED-16-T1E1<br><br>(For the 1:N redundancy of the MPSM-16-T1E1, MGX 8830/B supports the RCON-1TO3-8830 back card and MGX 8850/B supports the RCON-1TO3-8850 and RCON-1TO5-8850 back cards.) |
| MPSM-T3E3-155  | SFP-2-155<br>BNC-3-T3E3<br>SMB-2-155-EL  |
| PXM1E-8-155  | MMF-4-155/C<br>MMF/SMFIR/SMFLR-1-155-SFP<br>PXM-UI-S3/B  |
| PXM1E-8-T3E3   | SMB-8-T3/E3<br>PXM-UI-S3/B   |
| PXM1E-16-T1E1  | MCC-16-E1<br>RBBN-16-T1E1<br>PXM-UI-S3/B   |
| PXM1E-T3E3-155<br>(also referred to as<br>PXM1E-COMBO) | MGX-T3E3-155<br>MMF/SMFIR/SMFLR-1-155-SFP<br>PXM-UI-S3/B   |
| MGX-SRME   | MGX-SMFIR-1-155<br>MGX-STM1-EL 1   |
| MGX-SRME/B   | MGX-SMFIR-1-155  |
| MGX-VISM-PR  | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1   |

**MGX 8830/B (PXM 45/C) Series**

For MGX 8830/B product details, refer to Tables 4 through 8 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/8850px45/relnote/52008xx0.pdf>

**Table 16 MGX 8830/B (PXM 45/C)**

| Front Card     | Back Cards   |
|----------------|--|
| AXSM-2-622-E   | SMFIR/SMFLR-1-622/C  |
| AXSM-8-622-XG  | SFP-4-622  |
| AXSM-XG-OC12   | SFP-4-622  |
| AXSM-16-T3E3-E | SMB-8-T3/E3  |
| AXSM-16-155-XG | SFP-8-155<br>MMF/SMFIRSMFLR-1-155-SFP<br>MCC-8-155   |
| MGX-SRME/B     | MGX-BNC-3T3-M<br>MGX-STM1-EL-1   |
| MPSM-8-T1E1    | AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>AX-SMB-8E1<br>AX-R-SMB-8E1   |
| MPSM-T3E3-155  | SFP-2-155<br>BNC-3-T3E3<br>SMB-2-155-EL  |
| MPSM-16-T1E1   | RBBN-16-T1E1-1N<br>MCC-16-E1-1N<br>RED-16-T1E1<br>MCC-16-E1<br>RBBN-16-T1E1<br><br>(For the 1:N redundancy of the MPSM-16-T1E1, MGX 8830/B supports the RCON-1TO3-8830 back card.) |
| VISM-PR        | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1   |

**MGX 8850 and 8850/B (PXM 45) Series**

For product details, refer to Tables 4 through 8 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/8850px45/relnote/52008xx0.pdf>

**Table 17 PXM45 on MGX 8850 and 8850/B**

| Front Card                     | Back Card  |
|--------------------------------|--|
| AXSM-1-2488<br>AXSM-1-2488/B   | SMFLR/SMFSR/SMFXLR-1-2488<br>SMFLR/SMFSR/SMFXLR-1-2488/B                           |
| AXSM-2-622-E                   | SMFIR/SMFLR-1-622/C  |
| AXSM-4-622<br>AXSM-4-622/B     | SMFIR/SMFLR-2-622<br>SMFIR/SMFLR-2-622/B   |
| AXSM-8-155-E                   | SMB-4-155<br>MMF/SMFIR/SMFLR-4-155/C   |
| AXSM-8-622-XG                  | SFP-4-622  |
| AXSM-16-155                    | MMF-8-155-MT<br>SMFIR/SMFLR-8-155-LC   |
| AXSM-16-T3E3<br>AXSM-16-T3E3/B | SMB-8-T3/E3  |
| AXSM-16-155/B                  | MMF-8-155-MT/B<br>SMFIR/SMFLR-8-155-LC/B   |
| AXSM-16-155-XG                 | SFP-8-155<br>MMF/SMFIR/SMFLR-1-155-SFP<br>MCC-8-155                                |
| AXSM-32-T1E1-E                 | MCC-16-E1<br>RBBN-16-T1E1  |
| AX-CESM                        | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8T1/8E1<br>MGX-RJ48-8E1 |
| AX-FRSM-8T1/8E1                | AX-SMB-8T1/8E1   |
| AX-FRSM-8E1-C                  | AX-R-SMB-8E1<br>AX-RJ48-8E1<br>AX-R-RJ48-8E1<br>MGX-RJ48-8E1                       |
| MGX-CESM                       | AX-RJ48-8T1<br>AX-R-RJ48-8T1   |
| MGX-FRSM-2CT3                  | MGX-BNC-2T3  |
| MGX-FRSM-HS2/B                 | SCSI2-2HSSI/B<br>MGX-12IN1-8S  |
| MGX-FRSM-2T3E3                 | MGX-BNC-2E3<br>MGX-BNC-2T3   |

*Table 17 PXM45 on MGX 8850 and 8850/B (continued)*

| Front Card   | Back Card  |
|--------------|--|
| MGX-RPM-PR   | MGX-MMF-FE<br>MGX-RJ45-4E/B (Ethernet)<br>MGX-RJ45-FE (Fast Ethernet)<br>5-port auto sensing Fast and Gigabit Ethernet   |
| MGX-RPM-XF   | MGX-1GE/2GE<br>MGX-1OC12POS/2OC-12POS-IR<br>MGX-XF-UI/-UI/B  |
| MGX-SRME     | MGX-SMFIR-1-155<br>MGX-STM1-EL1  |
| MGX-SRME/B   | MGX-BNC-3T3-M<br>MGX-STM1-EL-1   |
| MGX-VISM-PR  | AX-SMB-8E1<br>AX-R-SMB-8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8E1/8T1   |
| MGX-VXSM     | VXSM-BC-4-155<br>VXSM-BC-24T1E1  |
| MPSM-8-T1E1  | AX-RJ-48-8T1/8E1<br>AX-R-RJ-48-8T1/8E1<br>AX-SMB-8E1<br>AX-R-SMB-8E1   |
| MPSM-16-T1E1 | RBBN-16-T1E1-1N<br>MCC-16-E1-1N<br>RED-16-T1E1<br><br>(For the 1:N redundancy of the MPSM-16-T1E1, MGX 8830/B supports the RCON-1TO3-8830 back card and MGX 8850/B supports the RCON-1TO3-8850 and RCON-1TO5-8850 back cards.) |
| PXM45/B      | PXM-HD<br>PXM-UI-S3  |
| PXM45/C      | PXM-HD<br>PXM-UI-S3/B  |

**MGX 8880 (PXM45/C) Series**

For MGX 8880 product details, refer to Table 3 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/mgx8880/relnote/528880.pdf>

**Table 18 MGX 8880 (PXM45/C)**

| Front Card     | Back Card  |
|----------------|--|
| AXSM-1-2488/B  | SMFLR/SMFSR/SMFXLR-1-2488/B  |
| AXSM-4-622/B   | SMFIR/SMFLR-2-622/B  |
| AXSM-32-T1E1-E | MCC-16-E1<br>RBBN-16-T1E1  |
| PXM45/C        | PXM-HD<br>PXM-UI-S3/B  |
| MGX-RPM-XF-512 | MGX-1GE/2GE<br>MGX-1OC12POS/2OC-12POS-IR<br>MGX-XF-UI/-UI/B        |
| MGX-SRME/B     | MGX-BNC-3T3-M<br>MGX-STM1-EL-1                                     |
| MGX-VISM-PR    | AX-SMB-8E1<br>AX-R-SMB-8T1/8E1<br>AX-RJ48-8T1/8E1<br>AX-R-RJ48-8E1 |
| MGX-VXSM-155   | VXSM-BC-4-155  |
| MGX-VXSM-T1E1  | VXSM-BC-24T1E1   |
| MGX-VXSM-6T3   | VXSM-BC-SMB-3T3E3  |

**MGX 8950 (PXM 45) Series**

For MGX 8950 product details, refer to Tables 4 through 8 in the release notes at this website:

<http://www.cisco.com/univercd/cc/td/doc/product/wanbu/8850px45/relnote/52008xx0.pdf>

**Table 19 MGX 8950 (PXM45)**

| Front Card     | Back Card  |
|----------------|--|
| AXSM-1-2488/B  | SMFLR/SMFSR/SMFXLR-1-2488/B                            |
| AXSM-1-9953-XG | SMFIR/SMFLR/SMFSR-1-9953                               |
| AXSM-4-622/B   | SMFIR/SMFLR-2-622/B                                    |
| AXSM-4-2488-XG | SMF-4-2488-SFP<br>SMFSR-1-2488-SFP<br>SMFLR-1-2488-SFP |
| AXSM-16-155/B  | SMFLR-2-622/B<br>SMFIR/SMFLR-8-155-LC/B                |

**Table 19** *MGX 8950 (PXM45) (continued)*

| Front Card         | Back Card  |
|--------------------|--|
| AXSM-16-155-XG     | SFP-8-155<br>MMF/SMFIR/SMFLR-1-155-SFP<br>MCC-8-155  |
| AXSM-16-T3E3/B     | SMB-8-T3/E3  |
| MGX-RPM-PR         | MGX-MMF-FE<br>MGX-RJ45-4E/B (Ethernet)<br>MGX-RJ45-FE (Fast Ethernet)<br>5-port auto-sensing Fast and Gigabit Ethernet |
| MGX-RPM-XF         | MGX-1GE/2GE<br>MGX-1OC12POS/2OC-12POS-IR<br>MGX-XF-UI/-UI/B  |
| MGX-XM60           | —  |
| PXM45/B<br>PXM45/C | PXM-HD<br>PXM-UI-S3<br>PXM-UI-S3/B   |

**SES PNNI Controller**

For product details, refer to Tables 1-1, 1-2, and 1-3 in the release notes at this website:

[http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/pnni\\_ses/rel4/relnotes/ses4015.pdf](http://www.cisco.com/univercd/cc/td/doc/product/wanbu/bpx8600/pnni_ses/rel4/relnotes/ses4015.pdf)

**Table 20** *SES PNNI Controller*

| Front Card  | Back Card  |
|-------------|--|
| PXM1        | PXM-UI<br>PXM-UI-S3  |
| PXM1-4-155  | PXM-UI<br>PXM-UI-S3<br>MGX-MMF-4-155/B<br>MGX-SMFIR-4-155/B<br>MGX-SMFLR-4-155/B |
| PXM1-1-622  | PXM-UI<br>PXM-UI-S3<br>MGX-SMFIR-1-622/B<br>MGX-SMFLR-1-622/B                    |
| PXM1-2-T3E3 | PXM-UI<br>PXM-UI-S3<br>MGX-BNC-2E3<br>MGX-BNC-2E3A<br>MGX-BNC-2T3                |

## Releases Certified for CWM 15.3.00 P1

Table 21 lists the card, shelf, or switch software releases that were used to test the CWM 15.3.00 P1 software. Although CWM 15.3.00 P1 supports other releases, the releases listed in the table are the specific releases that were tested for CWM 15.3.00 P1.

See also these sections:

- [Releases Supported by CWM 15.3.00, Patch 1, page 2](#)
- [Supported Hardware, page 9](#)

**Table 21** *Releases Tested with CWM 15.3.00 P1*

| Card, Shelf, or Switch                        | Tested Software Release                    |
|---|--|
| BPX/IGX switch software                       | 9.3.51<br>9.4.10<br>9.4.12                 |
| BPX SES Shelf                                 | 3.0.25<br>4.0.15                           |
| MGX 8220 Shelf                                | 4.0.06<br>4.1.12<br>5.0.20                 |
| MGX 8230, 8250, and 8850 (PXM1) switches      | 1.2.22<br>1.3.10<br>1.3.12<br>1.3.14       |
| MGX 8830 and 8850 (PXM1E) switches            | 5.0.20<br>5.1.00<br>5.3.00<br>5.3.10       |
| MGX 8830/B, 8850, 8880, 8950 (PXM45) switches | 5.2.00<br>5.3.00<br>5.3.10                 |
| RPM-PR and RPM-XF cards                       | Cisco IOS 12.3(2)T6<br>Cisco IOS 12.4(4th) |
| VISM-PR cards                                 | 3.3.10<br>3.3.20<br>3.3.25<br>3.3.30       |
| VXSM cards                                    | 5.0.70<br>5.2.00<br>5.2.50<br>5.3.10       |

## New Features and Enhancements

This section describes the new features introduced in CWM 15.3.00 P1:

- **Multi-Time Zone Support for Object Finder**—This feature enables you to specify the local or GMT time zone when viewing and querying historical alarms. In the previous CWM releases, the historical Alarms query from the Object Finder displayed the time only in the client machine timestamp.
- A new feature has been added to support CWM login without depending on UNIX user accounts. To add and configure users with this feature, you use the Security Manager GUI. Because this feature is configurable, you can use the new feature or use the previous CWM authentication process that existed before this release.
- CWM GUI login with no UNIX user account
- VXSM 2.5 supports ATM trunking and VBD index filtering.
- CALEA image support for VXSM 2.5 and VISM 3.3.20 and 3.3.25

## CWM Feature Limitations

This section describes features that the CWM does not support or features for which CWM limitations exist. See these sections:

- [Features Not Supported, page 23](#)
- [Feature Limitations, page 24](#)
- [Configuration Center Limitations, page 29](#)
- [HP OpenView Limitations, page 29](#)
- [SSM Issues, page 29](#)
- [CWM-to-CWM Communication Limitations, page 30](#)
- [Network Monitor Limitations, page 31](#)
- [Chassis View Operation, page 31](#)
- [CWM Notes and Cautions, page 33](#)

## Features Not Supported

These features are not supported by the CWM:

- CID level traps are not sent to the CWM to prevent potential trap flooding.
- CID level statistics are not available in bulk statistics file format from the VXSM modules.
- The CWM does not support use of the Korn shell.
- XPVC support on the FRSM T3E3 in PXM45-based switches has not been tested.
- Several windows display fields that relate to the MPSM-T3E3-155 MultiLink Frame Relay (MLFR) feature, which is not currently supported.
- When managing VISM service modules that are running VISM 3.2.10, the CWM supports only the Rel. 3.2 features.

- These VISM 3.1 features introduced cannot be accessed from the CWM: TGCP, Dynamic Payload, and T.38 Fax Relay.
- The CWM database is not populated with the MPG configuration data. Instead, the Service Agent accesses the configuration directly from the switch.
- These cards are not supported by CWM 15.3.00 P1: the BME card and the FRSM12, URM, ARM, FRM, BTM, ALM and CVM service modules. To take advantage of the GUI enhancements, you must upgrade to the newer service modules supported in releases after CWM 12.0.
- These are the Current Route feature limitations:
  - P2MP calls and SVC/SVP connections are not supported.
  - Only master-ended (not slave-ended) connections have current route information.
  - The configuration upload file contains only a snapshot of the current route information at the time the switch receives a CWM configuration upload request.
  - If a node becomes congested, both of the connTrace messages that the command line interface (CLI) and the Current Route feature send are dropped. The CWM does not distinguish between the messages. This situation is also true for a connTrace ACK message received on a congested node.
  - When a node ID is changed, follow this procedure on each network node to flush out all existing current route information and start collecting new information. Disable and re-enable the current route feature by using the **cnfndcurrte** command. After disabling the feature, wait for at least 9 seconds (the timeout period for a connttrace message) before re-enabling the feature to avoid processing stale conn-trace messages.
  - Because the path information for a connection traversing more than 20 nodes is not stored in the current route path table, the connection does not have current route information.
- While the CWM is running, if the remote display is stopped without properly shutting down the CWM desktop, reopening it remotely may not succeed.

## Feature Limitations

The following are known CWM feature limitations:

- For a few of the latest Solaris patches and the Sun Fire E6900 server, the Informix engine may generate a shared memory error as shown in this example:

```
"oninit: Fatal error in shared memory creation <machine name>"
```

When this error occurs, the Informix engine fails to come up and is not able to perform database related operations. The error can be resolved by changing values in the /etc/system and /usr/users/informix94/etc/onconfig files. The following shows the change to the /etc/system file:

```
forceload: sys/shmsys
forceload: sys/semsys
set shmsys:shminfo_shmmax=268435456
set semsys:seminfo_semaem=16384
set semsys:seminfo_semap=64
set semsys:seminfo_semni=4096
set semsys:seminfo_semns=4096
set semsys:seminfo_semnu=4096
set semsys:seminfo_semume=64
set semsys:seminfo_sevmx=32767
set shmsys:shminfo_shmmn=100
set shmsys:shminfo_shmmni=100
set shmsys:shminfo_shmseg=100
```

```
set semsys:seminfo_semmsl=100
set rlim_fd_max=1024
```

After you have made the above changes, edit and configure the “SHMBASE” value in /usr/users/informix94/etc/onconfig as follows and reboot the machine:

```
SHMBASE 0x0A000000L
```

- Because of a VISM image issue, the CWM cannot update fax\_jitt\_mode and fax\_jitt\_initdelay in the vism\_card table for a Fax jitter configuration change. This problem will be fixed in the next VISM release.
- Even though the VXSM T3 card is compatible with the MGX 8880 and 8850 PXM45 platform releases, the CWM software does not discover it.
- Cisco does not recommend pointing multiple CWMs at the same gateway node.
- When /usr/users becomes completely full, the orbix processes cannot write to the disk and continue operations. To correct the problem, free up disk space in /usr/users and then restart the orbix processes and the CWM as follows: Stop the core and exit out of the CWM prompt, run the stoporbix2000 script, type CWM (you should see “Starting Orbix...” in the ~svplus/log/.startStopOrbix.log file), and start the core.
- When the SSM is installed with the SCM Gateway configuration, the SCM GUI does not open when the primary SSM and secondary SSM are started simultaneously (or within a time gap of 30 seconds to 1 minute). Avoid this problem by waiting 2 to 3 minutes after starting core in the primary SSM before starting core in the secondary SSM in the SCM Gateway configuration.
- When a shortage of shared memory exists on the workstation, the Informix engine may generate an operating system error, as shown in this example:

```
shmat: [22]: operating system error
18:45:49 shmat: [22]: operating system error
18:45:57 Error writing '/tmp/shmem.1fd4555c.0' errno = 4
18:45:57 mt.c, line 10260, thread 7148, proc id 1008, errors occurred during
mt_notifyvp.
```

When this error occurs, the statsparser is not able to perform database-related operations. The error can be resolved temporarily by changing the /etc/system configuration as follows:

```
forceload: sys/shmsys
forceload: sys/semsys
set shmsys:shminfo_shmmax=1073741824
set semsys:seminfo_semaem=16384
set semsys:seminfo_semmap=5000
set semsys:seminfo_semmni=8192
set semsys:seminfo_semmns=8192
set semsys:seminfo_semmnu=8192
set semsys:seminfo_semume=256
set semsys:seminfo_sevmx=50000
set shmsys:shminfo_shmmin=256
set shmsys:shminfo_shmmni=32000
set shmsys:shminfo_shmseg=256
set semsys:seminfo_semmsl=100
```

The long-term solution is to increase the amount of memory to support 2 million connections consistently.

- When using in-band management, only 50-KB connections are supported on the BPX-SES. To manage 100-KB connections on the BPX-SES, set up the CWM for out-of-band management.

- If an ATM IP interface (also called In-band interface) is being used to manage the switch from the CWM, the CWM cannot receive all node bring-up traps. The ATM connections required for in-band management can take time to get routed on node bring-up and therefore are not available for trap delivery at the initialization time. If this initialization time is an issue, the workaround is to configure the CWM for out-of-band management.
- Allow a 2- to 3-minute period between enabling or disabling statistics operations on the same BPX or IGX node. Whenever statistics are enabled or disabled on a BPX or IGX node and the switch is configuring statistics, enabling or disabling statistics a second time fails.
- If the Start Collection process on the SCM GUI is taking a long time, investigate whether or not collection was started with an unreachable in-band or out-of-band IP address. Use a reachable IP address to start collection with a reachable IP address, either in band or out of band.
- The SSM statistics database can go out of sync with node\_ids on the CWM after a coldstart -F is executed on the server. To ensure that the node IDs remain consistent, stop and disable collection before doing a coldstart -F. A CWM-to-CWM gateway must be enabled to ensure uninterrupted statistics collection.
- When the persistent topology feature is enabled, to decommission a node in the network and take it out of the topology you must delete the node from the persistent topology data using the switch CLI. To decommission a node or to delete a trunk from the PNNI network, you must delete the entry from the persistent gateway nodes.
- To ensure all CWM servers have the same XPVC Preferred data, the CWM-to-CWM gateway must be enabled; otherwise, you must manually propagate the data to all CWM servers.
- On MGX PXM1-based feeders in the BPX network, VISM or VISM-PR terminated XPVCs can connect only to the AUSM service module. No such restriction exists for PXM1E-based or PXM45-based nodes.
- Manual node resync may appear to have failed due to the GUI timing out for PXM45/PXM1E-based Cisco MGX nodes with many connections (for example, 400K DAX endpoints).
- To correctly manage feeder nodes after they have been moved, you must first delete all trunks from the old node by using the CLI before adding the feeder back onto the system.
- When a back card is removed because the front card is not provisioned, the CWM reports a major alarm with the description “Back Card; not present.” However, the switch may not show an alarm. If the card is actually not provisioned, manually clear the major alarm after determining the alarm condition is not real.
- After executing a **clrsmcnf** command for AXSM from the switch CLI, Chassis View shows the AXSM front card once the card is active, but no back card is found. To ensure that Chassis View recognizes the back card again, you must execute a first level manual node resync.
- RPM-PR and RPM ports/subinterfaces must be configured with a number less than 32767. If you have configured any ports or subinterfaces with a number greater than 32767, you must delete them and then re-add them using a number less than 32767.

- Note the following in regard to receiving SNMP traps:
  - If you register an SNMP Manager with the SNMP Agent without changing the bit-mask (if you accept the default of FFFFFFFFFFFFFFFF), you receive all SNMP traps, including 25302 and 25303.
  - If you register the SNMP Manager with a nondefault bit mask because you do not want certain groups, such as FFFFFFFF10701555, you do not receive trap 25302 and 25303, even though you have registered for that group.
  - If you deselect a currently undefined group such as Group 28 (a bit mask of FFFFFFFFEFFFFFFF), you can then add traps 25302 and 25303 by editing the trap\_filter.conf file and adding these lines to Group 20 # network connectivity status change traps: TRAP 25302 and TRAP 25303.
- Performing a **switchcc** command on a controller card in an IGX or BPX node forces the CWM to resync with the node again. This causes a delay in receiving status information.
- Changing the line, payload, and medium types of VXSM-4OC3 causes the CWM to perform a whole card resync when you change any of the following: the medium type between SONET and SDH for SONET physical line, the payload type between T1 (VT 1.5 VC 11) and E1(VT 2 VC 12) for the STS or STM (Au) path or between T1 (VT 1.5 VC 11) and DS3 for the STS path, or the tributary path between Au4 and Au3 for the STM path in the SDH medium. (A whole card resync takes several minutes to complete.)
- If you remove and then immediately add back the same IGX feeder when the CWM is running, the CWM establishes two LINK 0's with the node. This is treated as a delete, and the node is deleted. In this situation, Cisco recommends you either remove and add the feeder when the CWM is down, or, after adding the feeder, restart the CWM.
- Changes made to the node name through the Configuration Center are updated automatically in the Tree and Inspector views. However, the node name in the title bar of the internal frame does not update automatically. To make this change, close and reopen the internal frame. You can also update the attribute values in the internal frame by using the Refresh button of that internal frame.
- After the Line Send parameter LineSendCode is modified by using snmpset, the database is not updating it, which shows the parameter as not applicable (shows the value as -1). For additional information, refer to CSCin50480 online.
- The “l\_network\_id” field in the connection segment or port tables may not be populated correctly. To ensure collection of an accurate network ID, use the “netw\_id” field from the “node” table.
- Note the following in regard to the managing a PXM45-based MGX node and populating the “peripheral” table: If you are running a release earlier than 4.0.10, CWM 15.0.00 does not populate (update) the peripheral table. If you are running a 4.0.10 or later release, the status field in the peripheral table gets updated only during node resync. (If you are managing a PXM1-based MGX node, the peripheral table status field does not get updated.)
- If the log level for the CWM EM module is set too high or set above the production default value and many configurations are changed on the switch during a warm start, the sync-up performance is impacted during the warm start.
- SmartLogging is a special feature for CWM debugging available when the log level is set to Level 2. It dumps a configurable number of detailed log messages to log files for each Level 2 log message. For example, when SmartLogging is enabled, an SNMP failure that triggers a Level 2 log message dumps log messages at all levels immediately before and after this event. Because the feature can impact performance due to excessive log messages, it should be disabled in normal operation and enabled only when needed for monitoring performance.

- In regard to the The Forced Deletion feature, note that it does not support XPVC connections. They cannot be force deleted. The feature removes only the unused connection descriptor from the workstation on which it is performed. Other gateway workstations continue to show the descriptor. To clear it completely, you must force delete the unused descriptor at each gateway workstation.
- Occasionally, when you move linked nodes around in the Topology screen, the link does not automatically follow the nodes. Then it looks like the link is not connected to the nodes. Either move the affected nodes around within the window or refresh the Topology screen. When the screen refreshes, the link automatically appears connected to the appropriate nodes again.
- Using the Group Nodes feature affects only your view of the networks. Other users, even those who log into your workstation, do not see the groups you have made.
- After a previously saved configuration file is loaded by using the CWM Config Save & Restore feature, the Tree View continues to show some ports that are not in the restored configuration file. Attempting to configure these ports results in an error. In this case, perform a manual node resync.
- When setting up VISM connections, the VPI value in the VPI/VCI Selector window is grayed out with the VISM card slot number. If VISM is sitting in a feeder node, the VPI value in the VPI/VCI selector is grayed out as zero.
- Ports on PXM45-based nodes which are associated to a trunk display as Trunk Ports, however, ports that are carrying signalling protocol information display as User Ports. Because they are carrying information, you cannot provision connections on these ports. Attempting to do so results in an error being displayed. Choose another port.
- Virtual Ports on BPX are displayed in the Tree View application under the physical Line section as `physicalPort.virtualPort`.
- The PNNI ports on the PXM1 card of an SES node are not displayed in the Tree View.
- The administrative state of the PNNI ports is not aggregated into the total administrative state of the port. The Inspector View application shows both the total administrative state of the port and the administrative state of the PNNI ports as two separate items.
- The Loss of Cell Delineation alarm on the AXSME, AXSM-XG, or MPSM-OC3 cards may not get propagated from the switch to the CWM. For the AXSM cards, a line or path alarm is present, but the MPSM-OC-3 card could have an LOCD alarm triggered without any line or path alarm that is present. The line would show in the CWM as clear, while it is actually in alarm.
- With MPSM-OC3 cards, after you replace an OC-3 back card with a DS3 back card or vice versa, you need to do a coldstart.
- Occasionally, WANDEST fails to install immediately after a CWM and Service Agent installation on a workstation running Solaris 9. This error message appears: "Informix is not in on-line mode." The workaround is to install WANDEST by using the C shell (csh).
- In the Connection Manager, the Service Type field displays some nonapplicable service types for SPVCs; however, the CWM displays an error if you select one of these nonapplicable service types.
- If a valid network.conf file is not present, the CWM may not start properly and may cause a topod core dump.
- Because of a device limitation, an SCT greater than 255 cannot be associated with SCT manager.
- An SSC can be added to only one SSM or CWM at a time.

## Configuration Center Limitations

When the connection modify dialog box is already open, another user can delete the connection using the CMGUI delete option.

The Connection Management section of the Configuration Center GUI for preferred route displays *all* available trunks without considering the traffic class. As a result, it is possible to set a preferred route for a CBR connection traversing trunks that do not support CBR traffic.

While adding connections originating and terminating on the same feeder nodes (MGX8220 only), the CWM treats these connections as three segment connections and adds three segments (two on the same feeder node, one on the routing node) to realize this connection. This is because the ASC cannot route traffic. If you want to pass traffic between two cards in an MGX 8220 chassis, regardless of how connectivity is added, the actual physical connectivity that has to be built is a connection from each endpoint to the ASC and then a looping segment on a BPX.

The RPM card on the PXM1-based MGX 8850/8230/8250 platform is provisioned using Telnet because the RPM does not support SNMP SETs. This should be transparent in daily operation. For more details, please refer to the specific RPM switch CLI release notes.

Occasionally, when the databroker is busy deleting SPVC connections on a PXM1E-based node, this error message appears: “can not delete connections. Failed to communicate with databroker.” The error message can be ignored because the connections are correctly deleted on the switch.

## HP OpenView Limitations

All event messages are displayed in the HP OpenView Event Browser window. There is a limit of 2000 pending messages on the Event Browser. If there are more than 2000 messages to be processed and displayed by the Event Browser, it may exit.

The WAN network icon in the network node manager is no longer automatically created when running the CWM. Use the Network Monitor map instead.

## SSM Issues

Note these SSM issues:

- To collect connection statistics, statistics need to be enabled on the individual connections by setting the stats enable flag to true on each connection. If the user enables connections statistics only on SCM but does not set the stats-enabled flag to true on the connection, the statistics are not collected for that connection. Because no mechanism or warning to the user exists to have this enabled on the connections, the CWM does not display an appropriate error message.
- When enabling statistics by selecting multiple nodes at a time in the SCM, enabling statistics on all the nodes only succeeds when either all of the nodes have the same card types or all of the nodes only contain cards of the same family.
- Occasionally, when high connection counts are enabled on the SES, and statistics collection is enabled, the SES node is not getting synced up. The workaround is to disable statistics collection in the SES. Refer to CSCdw32076 for more information.
- The statistics collection manager retrieves SPVC connection statistics data from BPX-SES nodes, however, only 15-minute collection buckets are supported on the SES.
- The same limitation of only 15 minute collection buckets applies for MGX 8850 PXM45-based nodes with AXSM. No such limitation exists for AXSM-E.

- Only 15-minute collection buckets are supported for PNNI statistics.
- Peak statistics are not supported for PNNI statistics.
- If the PXM45 release is less than 4.0(0.0) PNNI historical statistics can not be enabled.
- The BPX-SES does not support PNNI statistics collection.
- The CWM does not support statistical alarms for lines on PXM45-based MGX nodes.
- The following statistics for SRM and SRM/E T3 lines can be enabled on the switch, but are not supported by SCM: 28 dsx3LCVCurrent, 29 dsx3LESCurrent, 30 dsx3LSESCurrent, 31 dsx3PCVCurrent, 32 dsx3PESCurrent, 33 dsx3PSESCurrent, and 34 dsx3CCVCurrent.
- HP OpenView is supported on the SSM. The SSM processes generate CWM traps.
- At least one CWM must be running, with the nodes synced up, for the SSM to work properly. The SSM uses the CWM server to get traps while enabling statistics for cell bus service modules on the MGX 8850 and PNNI statistics on the BPX.
- The WANDEST server must be up and running on the CWM. The SSM gets the node, node\_info, card, network, rsc\_part, and bis\_object tables from the CWM by using WANDEST.
- If the statsmaster SSM or CWM is down or unreachable in an SCM gateway setup, the statsmaster must be changed on the switch to another CWM or SCM that is up. The statsmaster is needed for SCM statistics enabling or disabling.
- In an SCM Gateway setup with statistics collection in process, the old statistics data is not moved to the new primary CWM or SSM machine after switchover.
- The SSM does not receive traps on Node/Card deletion, so statistics collection must be stopped and disabled before deleting a node or card from the network. Also the SSM does not receive traps on node or card Add messages, so the WANDEST upload must be received before the node or card can be seen in the SCM GUI on the SSM.
- In the SSM, statistics collection must be stopped and restarted after changing the node name or changing the node FTP password.
- Statistics data is stored on in statsdb database.
- Statistics parsing is only supported for the statsdb database on the SSM and the CWM. Statistics parsing is not supported for the stratacom database on the SSM and the CWM.
- Stop statistics collection before upgrading a node image.

## CWM-to-CWM Communication Limitations

This section describes CWM-to-CWM communication limitations:

- The secondary CWMs have to wait for the primary CWM to finish syncing up with the network. Trap 28075 (svDatabaseInSync) is sent when the primary CWM has finished syncing up with the network.
- All the CWMs managing the same network must have seed nodes or gateway nodes that have IP addresses within the same network. All the CWMs should not all point to the same gateway node, but the gateway nodes they point to should be on the same network.
- If an IP address is entered as gateway in the network.conf file and the DNS entry is missing for the gateway node IP address, the Auto-Route network is not discovered.

- The Configurator can be started on either the primary CWM or the secondary CWMs, but devices can be added, modified, or deleted using the Configurator only on the primary CWM.
- The CWM gateway role is undefined or unknown when links between the primary and corresponding secondaries are unstable. When a CWM gateway is in an undefined or unknown role, a core dump sometimes occurs.

All of the above CWM-to-CWM communication limitations listed also apply to the SCM gateway.

## Network Monitor Limitations

Network nodes are managed differently depending on the network configuration. See the following configurations:

- In a single routing node PNNI network, the node is managed by using the IP address specified in the `network.conf` file.
- In the case of a PXM45-based or PXM1E-based MGX network, these PXM45-based or PXM1E-based MGX nodes are managed by using the primary IP address, which is specified by using the `cnfndparms` command and specifying Option 7 or 8 (depending on chassis type). Configure the trap IP address with the primary IP address.
- PXM1-based MGX nodes connected to PXM45-based MGX nodes are managed through the `atm0` IP address. If `atm0` is not set, the LAN IP address is used to manage the PXM1-based MGX nodes. Use the `cnftrapip` command to configure the trap IP address accordingly.

As of CWM 15.0.00 and later, the `SHOW_TOPO_VIEW` flag in the `CMSCClient.conf` file is used to configure if nodes and trunks are displayed in the topology display of the Network Monitor application at CWM startup. Each flag determines what you see when the `NWTopology` opens:

- `SHOW_TOPO_VIEW 1` = You see nodes and trunks in the topology.
- `SHOW_TOPO_VIEW 0` = You cannot see nodes and trunks in the topology.

In releases prior to CWM 15.0.00, a flag named `TOPO_SHOW_MAP` in the `/usr/users/svplus/config/CwmGs.conf` file was used to configure if nodes and trunks were displayed in the topology display of the Network Monitor application at CWM startup. Because this flag is now obsolete, you should use the `SHOW_TOPO_VIEW` flag in the `CMSCClient.conf` file instead.

## Chassis View Operation

This section describes different aspects of the Chassis View operation in the CWM:

- [Chassis View Card Operation in a Redundant Setup, page 32](#)
- [RPM Card Behavior based on the Chassis View Flag Value, page 32](#)
- [Chassis View Operation after Card and Line Switchover, page 32](#)

## Chassis View Card Operation in a Redundant Setup

This section describes how the primary and secondary cards are shown in Chassis View when they are in a redundant setup. The Chassis View behavior is changed based on the `CHASSIS_SHOW_PHYSICAL_MAPPING_AND_HIDE_UNMANAGED_ALARMS` flag set in the `CMSCClient.conf` file under the `~svplus/config` directory.

### When set to *false*

When two cards are in a redundant relationship, the primary card (also known as the logical slot) displays the ports and lines for all provisioning activities even if the primary slot becomes standby. No ports and lines are shown under the secondary slot even after it becomes active.

In Chassis View, the primary card displays the ports only if they are available in the active card. The secondary slot does not display the ports even if it becomes active.

### When set to *true*

- For the controller and non-controller cards:
  - When two cards are in a redundant relationship, the active card displays the ports and lines for all provisioning and troubleshooting activities.
  - In Chassis View, the active card displays the ports only if they are available in the active card. In a redundant setup, Chassis View displays the lines and alarms under the active card.
 

However, this flag does not affect the tree view and other CWM applications. The logical slot in the tree view of a CWM application and the physical slot in Chassis View are maintained when you select an object in one application and drag it to another application.
- For the controller card only:
  - Chassis View does not show unmanaged or unsupported alarms for PXM and RPM cards and unmanaged alarms for MGX nodes, such as the HIST and ACO alarms on the PXM cards.
  - Chassis View does show the following in the active controller card: the shelfIntegrated alarm for MGX nodes, physical mapping (alarms and ports or lines) for redundant cards, and alarms that are similar to DCA, DCB, and ENET.
  - Chassis View displays an Empty Reserved controller card as a blank card in the front view.
  - If no back card or no secondary back card exists, Chassis View displays either card as a blank back card in the rear view.

## RPM Card Behavior based on the Chassis View Flag Value

When the `CHASSIS_SHOW_PHYSICAL_MAPPING_AND_HIDE_UNMANAGED_ALARMS` flag value is set to *true* in the `CMSCClient.conf` file, unmanaged alarms, such as the `CB_TX` and `CB_RX` alarms on the RPM cards, are not shown in the RPM card in Chassis View.

## Chassis View Operation after Card and Line Switchover

For a card switchover in a redundant setup, Chassis View behavior depends on the `CHASSIS_SHOW_PHYSICAL_MAPPING_AND_HIDE_UNMANAGED_ALARMS` flag value set in the `CMSCClient.conf` file.

After line switchover, provisioning is allowed only on the working line of an automatic protection switching (APS) pair, whether the line is currently active or not. However, both the working and protection lines are monitored.

## CWM Notes and Cautions

Because of the asynchronous behavior of the ILOG client and server interaction, the CWM client requests may be sent before the CWM server is ready. In this case, this error message appears:

```
Ilb Error: Synchronous request to <unidentified actor failed by timeout>.
```



### Note

If the ILOG timeout persists for more than 5 minutes and the CWM is not functioning normally, you should call service.

Parameters that the Network Monitor or Configuration Center displays that do not apply to an element, such as a line or a trunk, often contain the value `-1`. Consider this the same as Not Applicable.

Network Configurator displays an authentication failure under these circumstances:

- Your password gets changed when you are logged into the CWM with any of these applications open: Configuration Center, Network Monitor, or Chassis View.
- You try to launch the Network Configurator, and the CWM does not prompt you to enter a password. Instead, it displays an authentication failure.

In this case, exit the CWM and launch the Configuration Center again.



### Caution

If you do not shut down Informix before rebooting, data will be lost. To shut down Informix properly before you reboot the machine, execute `/usr/users/svplus/scripts/kill_db` as superuser (`root`).

If persistency is enabled in a PNNI network and you remove a node from the network, you must also delete the node and the corresponding trunks and feeders manually from all the gateway nodes. Otherwise, none of these will be cleared from the CWM.

## Installing and Uninstalling CWM 15.3.00 P1

This section describes how to install or upgrade CWM 15.3.00 P1. It also provides important background information about installing or upgrading the CWM server. To install or upgrade the server, refer to the CWM 15.3.00 installation guide at this URL. You can access all CWM documentation at this website:

[http://www.cisco.com/en/US/products/sw/netmgts/ps2340/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/sw/netmgts/ps2340/tsd_products_support_series_home.html)

The installation procedure assumes that you have already installed CWM 15.3.00.

See these sections:

- [Before You Start, page 34](#)
- [Installing Patch 1, page 36](#)
- [Uninstalling Patch 1, page 43](#)

## Before You Start

This section provides important background information that is provided to help you install the patch successfully.

- Naming Managed Nodes

The name of each node that the CWM manages must be unique. Duplicate node names are detected if both node names are found in the PNNI networks. Duplicate node names are not detected if one node is in the AutoRoute network and the other node is in the PNNI network.

- Core File Management

In the past, core files were created without unique names and then overwritten. Now, for each core dump, a unique directory is created under `~syplus/corefilesdir/`. Each directory is named as follows: `<Core.<processName>.<pid>.mmddHrMinSec`. These directories have these contents:

- Core file named `<processName>.<pid>.mmddHrMinSec.core`
- Information file with `dmesg`, `onstat -d`, `pstack`, and other details named `"<processName>.<pid>.mmddHrMinSec.info"`
- Corresponding log file(s) named `"<processName>.<pid>.log"`

- Cisco Info Center Version

The CWM integrates with the Cisco Info Center (CIC) by including a tar file that can be installed using the CIC update utility (`nco_update`):

```
CIC36xPatch004CWM151.tar
```

The format of this tar file enables the update utility on the CWMAgent CD-ROM to process the file.

The CWM 15.3.00-P1\_SNMPAgent.tar.gz file that contains the CIC36xPatch004CWM151.tar file includes rule files that are compatible only with CIC 3.6.1 so you must install CIC 3.6 or 3.6.1 to use this file.

For more information on CIC, refer to this URL:

[http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/info\\_ctr/3\\_6/index.htm](http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/info_ctr/3_6/index.htm)

- C-Note/CWM Configuration

The CWM supports C-Note version 3. Before the Orbix `cmldomain` services for C-Note are started, the CWM core must be started and core processes should be running. Enter this command to add the IP address of the C-Note workstation to the `/opt/ssng/config/CMLLogin/SnmpPublisher.xml` file:

```
vi /opt/ssng/config/CMLLogin/SnmpPublisher.xml
```

The line you add should look like this, substituting your C-Note workstation IP address:

```
<ipAddress>172.28.140.218</ipAddress>
```

- Numbering for Release 9.4 IGX Feeder Nodes

When an IGX is added as a feeder to a SES-BPX or MGX node, it has a default node number that may not be unique within the network. If it is not unique, it needs to be modified to a unique node number by issuing the `rnmd <x>` command, where `x` is unique with regard to all other auto-route nodes.

To find the other node numbers, use the `dsponds +n` command. If you fail to do this, the CWM Databroker may have an incorrectly formed hybrid connection database, and the CWM GUI may show the connection as incomplete.

- Security Profiles

Before CWM 15.3.00 P1, a CWM user had to have a valid UNIX user because the user was authenticated against UNIX when he or she logged in to the CWM.

As of CWM 15.3.00 P1, a new feature has been added to support CWM login without depending on UNIX user accounts. With the new procedure, you add and configure users using the Security Manager. Because this feature is configurable, you can use the new feature or use the previous CWM authentication process.

- CWM Database

After creating a new database with the coldstart script, a database inconsistency will result if the CWM is restarted (stop core and start core) before it is synchronized with the network. In this case, rerun the coldstart script; do not use the SV+CreateDb tool. When a gateway node is upgraded or rebuilt before the CWM has synced up with the network, the CWM must be cold-started (create the CWM database and then restart the CWM) to ensure CWM database consistency. For the IGX ports, the asi\_line table is populated with the 1-based port number and not the 0-based port number.

- RPM Management Limitations

The RPM-PR card is not supported on MGX PXM1-based nodes that Chassis View manages. The applicable trap is missing so the CWM cannot monitor the back card. For the RPM and RPM-PR cards in the standby state, the status displays as blue, not yellow as on other card types. For the RPM and RPM-PR card types, hardware and firmware revisions are not populated in the database.

The RPM back card support feature is disabled by default. To enable the feature and obtain RPM back card information, edit the emd.conf file before starting the CWM core. Note that when back card support is enabled, back card information is polled from the switch only during a coldstart or a manual resync. After that, any back card configuration or status changes are not updated until you perform another coldstart or a manual resync.

The CWM does not distinguish between the Ethernet back card versions installed with the MGX-RPM-128M/B or RPM-PR. No difference in functionality exists.

- Equipment Management Configuration Notes

In the emd.conf file, the OORequest and OOSTart parameters should be customized, depending on network. The OORequest parameter defines the number of configuration files per node that can be requested at one time, with a maximum of 32 configuration files concurrently per node. The range is 1 through 32, and the default is 32. The OOSTart parameter defines the number of OOEMC child processes. The range is 1 through 25, and the default is 6.

All of the PNNI nodes that the CWM manages (PXM45-based 8950, 8880, and 8850 nodes; PXM1E- based 8950, 8850, and 8830 nodes; and BPX nodes with SES shelves) are distributed among OOEMC processes.

The number of nodes that a single process manages is computed by dividing the number of PNNI network nodes by the number of processes that OOSTart defines. Assume that the number of nodes that one process manages is called MANAGED\_NODE\_COUNT. Then,  $\text{MANAGED\_NODE\_COUNT} * \text{OORequest}$  must be less than or equal to 200, which can be achieved by increasing the OOSTart or reducing the OORequest. The normal range of OOSTart is 5 to 20. If the OOSTart value is increased beyond 10, the number of DMD processes has to be increased or the shared memory overflows.

- Network Monitor Server Configuration File (NMServer.conf)

Two parameters in the NMServer.conf configuration file—HELLO\_EVENT\_INTERVAL and EVENT\_REDELIVERY\_COUNT—are tied to the NM\_SERVER\_DISCONNECT\_TIMEOUT parameter in the CMSClient.conf client configuration file. The NM\_SERVER\_DISCONNECT\_TIMEOUT parameter value needs to be set to the same number as

the HELLO\_EVENT\_INTERVAL value times the EVENT\_REDELIVERY\_COUNT value. The range for HELLO\_EVENT\_INTERVAL is 0 through 600, and the default is 60. The range for EVENT\_REDELIVERY\_COUNT is 0 through 10, and the default is 3. The default for the NMSERVER\_DISCONNECT\_TIMEOUT parameter is 60 times 3, or 180.

If you change any of these parameters, they must be adjusted so the HELLO\_EVENT\_INTERVAL value times the EVENT\_REDELIVERY\_COUNT value continues to equal the NMSERVER\_DISCONNECT\_TIMEOUT parameter value.

The Network Monitor Server configuration file (NMServer.conf) also contains the PERIODIC\_RESYNC\_INTERVAL parameter. This parameter defines the interval in hours between periodic resyncs. The range is 2 through 24, and the default is 8. You can also disable the periodic resync feature by setting the PERIODIC\_RESYNC\_INTERVAL parameter to 0.

## Installing Patch 1

This section describes how to install the CWM 15.3.00, Patch 1 (CWM 15.3.00 P1). Refer to these sections:

- [Backing Up the Existing Database, page 37](#)
- [Installing the CWM Server Patch, page 37](#)
- [Verifying and Restoring Your Saved Database, page 39](#)
- [Installing the CWM SNMPAgent \(ServiceAgent\) Patch, page 40](#)
- [Installing the SSC Patch, page 41](#)
- [Installing the SSM Patch, page 41](#)
- [Installing the RTM Proxy Patch, page 42](#)

Table 22 lists the contents of the Patch 1.

**Table 22** CWM 15.3.00 Patch 1 Contents

| Component                      | File  |
|--------------------------------|---|
| CWM                            | 15.3.00-P1_CWM.tar.gz   |
| SNMP Agent                     | 15.3.00-P1_SNMPAgent.tar.gz   |
| SSC                            | 15.3.00-P1_SSC.tar.gz   |
| SSM                            | 15.3.00-P1_SSM.tar.gz   |
| WANDEST Server 2.7.00, Patch 1 | wandest2.7.00-P1_wdserver.tar.gz  |
| WANDEST Client 2.7.00, Patch 1 | wandest2.7.00-P1_wdclient.tar.gz  |
| RTMProxy                       | 15.3.00-P1_RTMProxy.tar.gz  |
| <b>Note</b>                    | Install this on the CWM Server <b>only</b> if you are using SSM, but not using the SNMPAgent. See <a href="#">Installing the RTM Proxy Patch, page 42</a> . |

## Backing Up the Existing Database

Use this procedure to back up the existing database to preparation for installing the patch. You should back up the database in case a problem exists with Informix.

- 
- Step 1** Find a location with enough space and create a directory at this location. In the examples below the directory is called <dbexport-location>. In each command below, substitute the name you assigned.
- ```
# mkdir /usr/users/svplus/<dbexport-location>
```
- For example,
- ```
# mkdir /usr/users/svplus/DBExports153
```
- where <dbexport-location> is DBExports153.
- Step 2** Use these steps to export the databases:
- Log in as svplus:
 

```
hostname# su -u svplus
```

The system prompts you for the svplus password.
  - Stop the core.
  - Perform a coldstart (drops all network data so you will export only the user data in each database):
 

```
# coldstart
```
  - Export the stratacom database:
 

```
# dbexport stratacom -o <dbexport-location>
```
  - Export the scmdb database:
 

```
# dbexport scmdb -o <dbexport-location>
```
  - Export the statsdb database:
 

```
# dbexport statsdb -o <dbexport-location>
```
- Step 3** If you have a WANDEST server installed, export the WANDEST database:
- ```
# dbexport wandest -o <dbexport-location>
```
- Step 4** Get the output of onstat -d
- ```
# onstat -d > <dbexport-location>/onstat.out
```
- 

## Installing the CWM Server Patch

Use this procedure to install the CWM Server Patch.

- 
- Step 1** Stop stats collection and disable stats on the VXSM.
- Step 2** Log in to the CWM server as user root:
- ```
# su
```
- Step 3** Stop the core.
- Step 4** Download or copy the compressed tar files for the CWM server to a temporary location, such as /tmp:
- ```
# cp 15.3.00-P1_CWM.tar.gz /tmp
```
- Step 5** Change to local directory that contains the compressed tar files:
- ```
# cd /tmp
```

**Step 6** Remove the disk1 directory if it exists:

```
# rm -rf disk1
```

**Step 7** Decompress the compressed tar files and

```
# gunzip 15.3.00-P1_CWM.tar.gz
# tar xvfp 15.3.00-P1_CWM.tar
```

**Step 8** Execute the InstallCWM153Patch1.csh script:

```
# ./InstallCWM153Patch1.csh
```

After you press Enter, this message appears:

```
Console Mode Option is recommended when you cannot connect to X Server
from current terminal (See if you can open an xterm to check!)
Do you Want to Launch Installer in Console Mode? (Yes / No): [No]:
```

**Step 9** To continue the installation using the InstallShield GUI, respond with **No**.  
To continue the installation using Console Mode Install, respond with **Yes**.

(Console Mode Install is a command line script procedure that is a GUI alternative. It is intended for users who do not have access to an X window device. By using the Console Mode Install, the user can install the CWM with an alphanumeric terminal or a PC in terminal emulator mode.)

**Step 10** If WANDEST Server Rel. 2.7 is installed on this machine, follow these steps to install WANDEST Server 2.7.00, Patch 1:

- a. Stop the wdclient and exit root.
- b. Run the /usr/users/svplus/scripts/get\_dbschema.ksh shell script, as follows:

```
cd /usr/users/svplus/scripts
/get_dbschema.ksh
```

A wd\_dbschema\_tmpl file is created in /usr/users/svplus/tmp directory. Edit this file to un-comment any of the tables listed that you want triggers in.

- c. Download or copy the wandest2.7.00-P1\_wdserver.tar.gz to the local directory, such as /tmp.
- d. Change to the local directory and uncompress the gzip file, for example as follows:

```
# gunzip wandest2.7.00-P1_wdserver.tar.gz
```

- e. Untar the tar file, for example:

```
# tar -xvfp wandest2.7.00-P1_wdserver.tar
```

- f. Switch to root.

- g. Run the installation script to install the patch, as follows:

```
# ./InstallWDS27Patch1.csh
```

**Step 11** Exit from root.

---

## Verifying and Restoring Your Saved Database

If Informix did not come back online after restarting the CWM, use this procedure to restore the database you saved before you installed Patch 1.

(The output of `onstat -d` is in `/usr/users/svplus/<dbexport-location>/onstat.out` for reference. For example, `/usr/users/svplus/DBExports153/` where `<dbexport-location>` is `DBExports153`.)

- 
- Step 1** Log in to the workstation as root:
- ```
# su
```
- Step 2** Go to the `/usr/users/informix92/etc` directory:
- ```
# cd /usr/users/informix92/etc
```
- Step 3** Follow these steps only if you have configured a separate raw partition for the Informix physical log:
- Open the `onconfig` file for editing:
 

```
# vi onconfig
```
  - Change this line:
 

```
PHYSDBS  phydbs
```

 to this:
 

```
PHYSDBS  rootdbs
```
  - Change this line:
 

```
PHYSFILE <size>
```

 to this:
 

```
PHYSFILE 20000
```
  - Save the `onconfig` file and exit from the editor.
- Step 4** Go the `/usr/users/svplus/scripts/Install` directory:
- ```
# cd /usr/users/svplus/scripts/Install
```
- Step 5** Run these commands in the order shown below:
- ```
# ./dbmode
# ./dbinit
# ./dbonmode
# ./dbonspace
```
- Step 6** If you have the file `AddPhyLog` in `/usr/users/svplus/scripts/Install`, do these steps:
- ```
# ./AddPhyLog
# ./RestartInf
```
- Step 7** If you have the file `dbaddchunk` in `/usr/users/svplus/scripts/Install`, do these steps:
- ```
# ./dbaddchunk
```
- Step 8** Exit from root.
- Step 9** Check if you have configured separate partition for `datadbs` by using the `onstat -d` command:
- ```
# onstat -d
```
- Step 10** If a separate partition exists, execute these commands to import the database. If no separate partition exists for `datadbs`, go to [Step 11](#):
- ```
# dbimport stratacom -d datadbs -i <dbexport-location>
```

```
# dbimport statsdb -d datadbs -i <dbexport-location>
# dbimport scmdb -d datadbs -i <dbexport-location>
```

**Step 11** If no separate partition exists for datadbs, do these:

```
# dbimport stratacom -i <dbexport-location>
# dbimport statsdb -i <dbexport-location>
# dbimport scmdb -i <dbexport-location>
```

**Step 12** If you had WANDEST server before, execute this command:

```
# dbimport wandest -i <dbexport-location>
```

---

## Installing the CWM SNMPAgent (ServiceAgent) Patch

Use this procedure to install the CWM SNMPAgent (ServiceAgent) patch.

---

**Step 1** Log in to the CWM server as user root:

```
# su
```

**Step 2** Stop the core.

**Step 3** Download or copy the compressed tar file for ServiceAgent to the local directory, such as /tmp:

```
# cp 15.3.00-P1_SNMPAgent.tar.gz /tmp
```

**Step 4** Change to local directory that contains the compressed tar files:

```
# cd /tmp
```

**Step 5** Remove the disk1 directory if it exists:

```
# rm -rf disk1
```

**Step 6** Decompress the compressed tar file and untar the tar file:

```
# gunzip 15.3.00-P1_SNMPAgent.tar.gz
# tar xvf 15.3.00-P1_SNMPAgent.tar
```

**Step 7** Execute the installation patch script:

```
# ./InstallAgent153Patch1.csh
```

This message appears:

```
Console Mode Option is recommended when you cannot connect to X Server
from current terminal (See if you can open an xterm to check!)
```

```
Do you Want to Launch Installer in Console Mode? (Yes / No): [No]:
```

**Step 8** To continue the installation using the InstallShield GUI, respond **No**.  
To continue the installation using Console Mode Install, respond **Yes**.

**Step 9** When prompted, follow the instructions that the application provides.

**Step 10** When you have finished installing the SNMP Agent Patch software, exit from root.

---

## Installing the SSC Patch

Use this procedure to install the SSC patch only if you are using the SSC machine. The patch must be installed on an SSC machine.

- 
- Step 1** Log in to the SSC machine as user root:
- ```
# su
```
- Step 2** Download or copy the compressed tar file to the local directory, such as /tmp:
- ```
# cp 15.3.00-P1_SSC.tar.gz /tmp
```
- Step 3** Change to local directory that contains the compressed tar file:
- ```
# cd /tmp
```
- Step 4** Remove the disk1 directory if it exists:
- ```
# rm -rf disk1
```
- Step 5** Decompress the compressed tar file and untar the tar file:
- ```
# gunzip 15.3.00-P1_SSC.tar.gz
# tar xvfp 15.3.00-P1_SSC.tar
```
- Step 6** Execute the InstallSSC153Patch1.csh script:
- ```
# ./InstallSSC153Patch1.csh
```
- This message appears:
- ```
Console Mode Option is recommended when you cannot connect to X Server
from current terminal (See if you can open an xterm to check!)
```
- Step 7** Do you Want to Launch Installer in Console Mode? (Yes / No): [No]:  
To continue the installation using the InstallShield GUI, respond with **No**.  
To continue the installation using Console Mode Install, respond with **Yes**.
- (Console Mode Install is a command line script procedure that is a GUI alternative. It is intended for users who do not have access to an X window device. By using the Console Mode Install, the user can install the CWM with an alphanumeric terminal or a PC in terminal emulator mode.)
- Step 8** When prompted, follow the instructions that the application provides.
- Step 9** When you have finished installing the SSC Patch software, exit from root.
- 

## Installing the SSM Patch

Use this procedure to install the SSM Patch only if you are using the SSM machine. The patch must be installed on a SSM machine.

- 
- Step 1** Stop stats collection and disable stats on VXSM.
- Step 2** Log in to the SSM machine as user root:
- ```
# su
```
- Step 3** Download or copy the compressed tar file to the local directory, such as /tmp:
- ```
# cp 15.3.00-P1_SSM.tar.gz /tmp
```
- Step 4** Change to local directory that contains the compressed tar files:
- ```
# cd /tmp
```

- Step 5** Remove the disk1 directory if it exists:
- ```
# rm -rf disk1
```
- Step 6** Decompress the compressed tar file and untar the tar file:
- ```
# gunzip 15.3.00-P1_SSM.tar.gz
# tar xvfp 15.3.00-P1_SSM.tar
```
- Step 7** Execute the InstallSSM153Patch1.csh script:
- ```
# ./InstallSSM153Patch1.csh
```
- Step 8** Exit from root.
- 

## Installing the RTM Proxy Patch

Use this procedure to install the RTM Proxy Patch on the CWM machine. Install the patch only on a CWM machine and only on a CWM machine that has no installed SNMP agent and that SSM has used for statistics management.

The purpose of the RTM Proxy Patch tar file is to work only with the SSM. It is not required for configuring a northbound interface. If the service agent is installed, do not install the RTM proxy patch. It is not needed.

---

- Step 1** Log in to the CWM as user root:
- ```
# su
```
- Step 2** Stop the core.
- Step 3** Download or copy the compressed tar file to the local directory, for example, /tmp:
- ```
# cp 15.3.00-P1_RTMProxy.tar.gz /tmp
```
- Step 4** Change to local directory that contains the compressed tar files:
- ```
# cd /tmp
```
- Step 5** Remove the disk1 directory:
- ```
# rm -rf disk1
```
- Step 6** Decompress the compressed tar file and untar the tar file:
- ```
# gunzip 15.3.00-P1_RTMProxy.tar.gz
# tar xvfp 15.3.00-P1_RTMProxy.tar
```
- Step 7** Execute the InstallRTM153Patch1.csh script:
- ```
# ./InstallRTM153Patch1.csh
```

This message appears:

```
Console Mode Option is recommended when you cannot connect to X Server
from current terminal (See if you can open an xterm to check!)
```

- Step 8** Do you Want to Launch Installer in Console Mode? (Yes / No): [No]:  
 To continue the installation using the InstallShield GUI, respond with **No**.  
 To continue the installation using Console Mode Install, respond with **Yes**.

(Console Mode Install is a command line script procedure that is a GUI alternative. It is intended for users who do not have access to an X window device. By using the Console Mode Install, the user can install the CWM with an alphanumeric terminal or a PC in terminal emulator mode.)

- Step 9** When prompted, follow the application instructions.
- Step 10** When you have finished installing the RTM Proxy Patch software, exit from root.

## Uninstalling Patch 1

The patch installation process installs an uninstall script in the `/usr/users/svplus` directory for the CWM and in the `/usr/users/wandest` directory for WANDEST.

When you access the uninstall wizard, you are asked for the backup file location that you provided when you installed the CWM or WANDEST initially.

## Creating a CWM Auto-Restart Shell Script

This section describes how to create and configure a shell script that automatically starts the CWM core after a reboot. To create this shell script, you need to use a text editor to create a new file containing the commands that you want the script to execute.

Use this procedure to create a script that uses the vi editor and shell commands to automatically restart the CWM core after the workstation has been rebooted.



**Note** Several minor errors that existed in the past in the CWM Auto restart shell script have been corrected in the script that follows.

- Step 1** Log in to the CWM as user root:

```
$ su
```

- Step 2** Change to directory `/etc/rc3.d`:

```
# cd /etc/rc3.d
```

- Step 3** Create a shell script of the form: `Snn <filename>`, where nn is the relative sequence number for starting the job under `/etc/rc3.d` by entering this command:

```
# vi /etc/rc3.d/S99init_sv
```

Since this script does not currently exist, the vi editor will open on a blank line, waiting for you to enter the script commands.

- Step 4** Create the shell script by entering these lines:

```
*****

#!/bin/sh
# Check if Informix configuration is going on
while [ ! -z "`ps -ef | grep S98init_db | grep -v grep`" ]
do
    echo "Informix initialization in progress..." >>
    /usr/users/svplus/log/.start_stopCWM.log
    sleep 5
done
# Start Orbix E2A ... as svplus
echo "Starting Orbix E2A ..." >> /usr/users/svplus/log/.start_stopCWM.log
su - svplus -c /usr/users/svplus/scripts/startorbix2000 >>
/usr/users/svplus/log/.start_stopCWM.log
sleep 5
```

```
# Running Guard process ... as svplus
echo "Running Guard process" >> /usr/users/svplus/log/.start_stopCWM.log
su - svplus -c /usr/users/svplus/scripts/Install/RunGuard &
# Start CWM core process ... as svplus
su - svplus -c /usr/users/svplus/scripts/start_SV+ &

*****
```



**Note** To save your changes while using the vi editor, press **Esc**, **colon (:)**, then **wq!**.

**Step 5** Provide execute permissions for `/etc/rc3.d/S99init_sv` by executing this command:

```
# chmod 755 S99init_sv
```

To auto restart Informix after reboot, a shell script has been created automatically during the initial CWM installation. This script is called `/etc/rc3.d/S99init_db`. You need to make sure that the filename of your newly created autorestart shell script has a script number (the second and third characters in the filename) greater than 98. Also, your newly created autorestart shell script cannot have the same script number as any other script files in `/etc/rc3.d`.

For more information on configuring this feature, refer to the `/etc/init.d/README` file.

## Installing WANDEST 2.7.00, Patch 1

If you have standalone WANDEST server and client workstations, follow the procedures in these sections to install and uninstall the patches:

- [Installing the WANDEST Server Patch, page 45](#)
- [Installing the WANDEST Client Patch, page 45](#)
- [Uninstalling Patch 1, page 43](#)

Table 22 lists the contents of WANDEST 2.7.00, Patch 1.

*Table 23 WANDEST 2.7.00, Patch 1 Contents*

| Component      | File                             |
|----------------|----------------------------------|
| WANDEST Server | wandest2.7.00-P1_wdserver.tar.gz |
| WANDEST Client | wandest2.7.00-P1_wdclient.tar.gz |

## Installing the WANDEST Server Patch

Use this procedure to install the WANDEST Server patch.

Confirm that the WANDEST Client has been stopped before installing patches on the WANDEST server.

- 
- Step 1** Log in to the CWM as an “svplus” user.
- Step 2** Stop the core.
- Step 3** Run the `/usr/users/svplus/scripts/get_dbschema.ksh`:
- ```
# cd /usr/users/svplus/scripts
# ./get_dbschema.ksh
```
- A `wd_dbschema_tmpl` file is created in the `/usr/users/svplus/tmp` directory. Edit this file and un-comment out the tables that you want triggers in it.
- Step 4** Switch to root (for example, su):
- ```
# su
```
- Step 5** Download or copy the compressed tar file to the local directory, for example, `/tmp`:
- ```
# cp wandest2.7.00-P1.wdserver.tar.gz /tmp
```
- Step 6** Change to the local directory that contains the compressed tar files:
- ```
# cd /tmp
```
- Step 7** Remove the `disk1` directory:
- ```
# rm -rf disk1
```
- Step 8** Decompress the compressed tar file and untar the tar file:
- ```
# gunzip wandest2.7.00-P1_wdserver.tar.gz
# tar -xvfp wandest2.7.00-P1_wdserver.tar
```
- Step 9** Run the installation script to install the patch:
- ```
# ./InstallWDS27Patch1.csh
```
- Step 10** Exit from root.
- Step 11** Perform a coldstart:
- ```
# coldstart
```
- Step 12** Open a new terminal to start the core.
- 

## Installing the WANDEST Client Patch

Use this procedure to install the WANDEST Client patch.

- 
- Step 1** Log in to the WANDEST client as user root.
- Step 2** Download or copy the compressed tar file for WANDEST client to a local directory; for example, `/tmp`:
- ```
# cp wandest2.7.00-P1_wdclient.tar.gz /tmp
```

**Step 3** Change to the local directory that contains the compressed tar files:

```
# cd /tmp
```

**Step 4** Remove the disk1 directory:

```
# rm -rf disk1
```

**Step 5** Decompress the compressed tar file and untar the tar file:

```
# gunzip wandest2.7.00-P1_wdclient.tar.gz
```

```
# tar -xvfp wandest2.7.00-P1_wdclient.tar
```

**Step 6** Run the installation script to install the patch:

```
# ./InstallWDC27Patch1.csh
```

**Step 7** Exit from root.

---

## SNMP Service Agent Trap Limitation

This section describes the SNMP Service Agent trap limitation with the PXM1-based MGX nodes. The type of traps that the CWM collects from adding and modifying connections on Cisco MGX PXM1-based nodes running release 1.3.00 and onward can be configured by using the **cnfchantrapenbl** and **dspchantrapenbl** commands.

Use these commands to select either Default (the same legacy traps plus trap 50601 to be sent) or Enable (only trap 50601 to be sent for every connection addition or modification).

If the **dspchantrapenbl** command is set to Default, you can use the **cnfchantrapenbl Enable** command to change to collecting only trap 50601 when the CWM is running.

However, if you are currently collecting only trap 50601 (the **dspchantrapenbl** command is set to Enable and you decide to configure the node to send legacy traps for every connection addition or modification by executing the **cnfchantrapenbl Default** command, all CWMs monitoring the node must be shut down (the core must be stopped) before you execute the command.

To determine which CWMs are managing the node, run the **dspttrapmgr** command.

## Caveats

This section lists known and resolved issues in the CWM 15.3.00 P1 and WANDEST 2.7 software:

Known issues in the CWM 15.3.00 P1—[Table 24 on page 47](#)

Issues resolved in CWM 15.3.00 P1—[Table 25 on page 47](#)

**Table 24** *Known Issues in CWM 15.3.00 P1*

| Bug ID     | Description                                                                                                                                                                                                                                       | Details and Workaround                                  |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| CSCek45023 | Lines in list window are superimposed, which causes a mixed image.                                                                                                                                                                                | The workaround is to use the Web client.                |
| CSCek49830 | SCTs cannot be deleted from the CWM. The operation times out.                                                                                                                                                                                     | The workaround is to delete SCTs using the CLI.         |
| CSCek51015 | In the SCT GUI, when trying to produce a clone of an SCT file by doing a “Save As,” the cloned SCT file fails to resemble the original SCT.<br><br>Discrepancies seem to exist in the VC and Cosb parameters between the original and cloned sct. | The workaround is to edit the cloned SCT.               |
| CSCek52079 | Currently the CWM does not support the svPhysicalToLogicalMapTable for MPSM-16T1E1.                                                                                                                                                               | No workaround exists.                                   |
| CSCek52518 | The CAC treatment parameter defaults to “Incac” instead of the basic “cac” in the SCT.                                                                                                                                                            | The workaround is to change the Cac treatment manually. |

## Issues Resolved in the CWM 15.3.00, Patch 1 Software

[Table 25](#) lists issues resolved in the CWM 15.3.0, Patch 1 software.

**Table 25** *Issues Resolved in CWM 15.3.00 P1*

| Bug ID     | Headline                                                                          |
|------------|-----------------------------------------------------------------------------------|
| CSCeg74091 | emc reinitialized multiple times in a few minutes                                 |
| CSCej28230 | Network Monitor logging the close events infinitely                               |
| CSCek23619 | Tool for reading MPSM enable file needs to be added to the CWM                    |
| CSCek26115 | SRT should be accepting local time also                                           |
| CSCek26774 | CWM alarm mismatch with single PXM MGX nodes alarm                                |
| CSCek32048 | DC-A and DC-B LEDs are still lit on Slot 7 in Chassis View, when Slot 8 is active |
| CSCek33527 | Chassis View shows two PXM slot for 8830, while actually have one PXM             |
| CSCek34189 | Aggregate alarm on mgx1 with pri/sec control card                                 |
| CSCek36571 | emc dumps core after receiving the RTM_LINK_DOWN message                          |
| CSCek39107 | Pnni_nodal and Pnni_port report case srt server throws exception err              |

**Table 25** *Issues Resolved in CWM 15.3.00 P1 (continued)*

| Bug ID     | Headline                                                                         |
|------------|----------------------------------------------------------------------------------|
| CSCek39663 | pvc vp connections have incorrect VCI                                            |
| CSCek41554 | CWM: cmgrd process restarting                                                    |
| CSCek41761 | Wrong handling of ifName for DS1 on DS3 line on MPSM-T3E3 card                   |
| CSCek42785 | CWM does not update addcon configurations on the RPM                             |
| CSCek42815 | ATM/IMA port addition fails for any card using ServiceAgent                      |
| CSCek43998 | svCardTable does not support for Jupiter SW Module XM-60                         |
| CSCek44887 | Add group trap feature to trap resiliency feature                                |
| CSCek45726 | Audit trail logging everything as one user                                       |
| CSCek45738 | Connection string in 2511x traps change                                          |
| CSCek46115 | Missing images in software download for some cards on 8830/B                     |
| CSCek46164 | SNMPGet on cwmDsx1VismCnfGrpTable fail for VISM 3.3.10 image                     |
| CSCek46536 | EMEX core dump in snmp call back                                                 |
| CSCek48229 | MR 010920 - Community string and FTP user name and password must be configurable |
| CSCek48635 | Custom default value(80) for LoCLP on BPX trunk for abr-fs conn                  |
| CSCek49086 | Chassis View fails to display in MGX Rev1 for active non redundant slot2 SM      |
| CSCek49105 | MPSM-16T1E1 SCT operations not reflected properly                                |
| CSCek49127 | DC GUI fails to display node list on network view                                |
| CSCek50679 | SCT service category changes while saving SCT                                    |
| CSCek50698 | Improper error handling                                                          |
| CSCin99983 | Routing node is being shown as feeder node in the tree view                      |
| CSCin99995 | DB table missing in CWM due to which exceptions are thrown and login fails       |

## Related Documentation

These documents comprise the CWM documentation set:

- *Release Notes for Cisco WAN Manager, 15.3.00 P1*
- *Cisco WAN Manager Installation Guide, 15.3.00*
- *Cisco WAN Manager User Guide, 15.3.00 P1*
- *Cisco WAN Manager Database Interface Guide, 15.3.00*
- *Cisco WAN Manager SNMP Service Agent Guide, 15.3.00*
- *Cisco WANDEST Installation and Reference, 2.7*

You can access all CWM documentation at this website:

[http://www.cisco.com/en/US/products/sw/netmgmtsw/ps2340/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/sw/netmgmtsw/ps2340/tsd_products_support_series_home.html)

These documents are available on Cisco.com:

- *Release Notes for CWM Automated Bulk Provisioning, 15.3.00*

- *CWM Automated Bulk Provisioning Guide, 15.3.00*
- *Release Notes for the Cisco WAN Modeling Tools, 15.3.00*
- *Cisco WAN Modeling Tools User Guide, 15.3.00*

The Cisco WAN Modeling Tools and Automated Bulk Provisioning user guides are also available on their software CDs and ordered separately.

Refer to the current CWM release notes for information on all the switch products that the CWM supports and that are certified in this release. In addition, a *Guide to Cisco Multiservice Switch Documentation* ships with your product.

You can access the MGX switch documentation at this website. See MGX Switches:

[http://www.cisco.com/en/US/products/hw/switches/tsd\\_products\\_support\\_category\\_home.html](http://www.cisco.com/en/US/products/hw/switches/tsd_products_support_category_home.html)

You can also use Cisco.com to search for any product and topic by entering a word or phrase in the Search window. For example, you can search for “configuring MGX 8850” or “PXMIE.” By using the Advanced Search option, you can search the entire Cisco.com or Technical Support & Documentation.

## Obtaining Documentation, Support, and Security Guidelines

For information on obtaining documentation and support, providing documentation feedback, security guidelines, recommended aliases, and general Cisco documents, see the monthly *What's New* in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at this URL:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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