



Release Notes for Cisco ONS 15310-MA Release 8.6

OL-19083-01
March 2009

Release notes address closed (maintenance) issues, caveats, and new features for the Cisco ONS 15310-MA platform. For detailed information regarding features, capabilities, hardware, and software introduced with this release, refer to Release 8.5.1 version of the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Procedure Guide*; Release 8.5.1 version of the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Guide*; and Release 8.5.1 version of the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Troubleshooting Guide* and Release 8.5.1 version of the *Cisco ONS SONET TLI Command Guide*. For the most current version of the Release Notes for Cisco ONS 15310-MA Release 8.6, see the following URL:

http://www.cisco.com/en/US/products/hw/optical/ps2001/prod_release_notes_list.html

Cisco also provides Bug Toolkit, a web resource for tracking defects. To access Bug Toolkit, see the following URL:

<http://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs>

About Release 8.6

Cisco ONS 15310-MA Release 8.6 does not include any new features.

Cisco ONS 15310-MA Release 8.6 is based on Cisco ONS 15310-MA Release 8.5.3. The Release Notes for Cisco ONS 15310-MA Release 8.6 contain closed (maintenance) issues and caveats found in Cisco ONS 15310-MA Release 8.6.

Contents

[Changes to the Release Notes, page 2](#)

[Caveats, page 2](#)

[Resolved Caveats for Release 8.6, page 6](#)



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

© 2009 Cisco Systems, Inc. All rights reserved.

[New Features and Functionality, page 10](#)

[Related Documentation, page 10](#)

[Obtaining Optical Networking Information, page 11](#)

[Obtaining Documentation and Submitting a Service Request, page 11](#)

Changes to the Release Notes

This section documents supplemental information that has been added to the *Release Notes for Cisco ONS 15454 Release 8.6* since the production of the Cisco ONS 15454 System Software CD for Release 8.6.

Caveats

Review the notes listed below before deploying the Cisco ONS 15454. Caveats with tracking numbers are known system limitations that are scheduled to be addressed in a subsequent release. Caveats without tracking numbers are provided to point out procedural or situational considerations when deploying the product.

Alarms

This section documents caveats for Alarms in Release 8.6.

CSCsj26750—DS1_14 card shows Act (green) LED instead of Fail (red) LED

When the card type in Cisco Transport Controller is changed from DS1_14 to DS1_E1_56 with a DS1-14 physical card in the slot, the LED in the DS1_14 card will show Act (green), instead of Fail (red). This issue will be resolved in a future release.

CSCsm92317—AIS alarm on the DS1 port is not suppressed

The AIS alarm on the DS1 port is not suppressed when the circuit is OOS, MT and the DS3 port is in service. This issue will be resolved in a future release.

CSCsw42641—CTNEQPT-PBPROT alarm is reported when filler card is inserted in 310MA

A CTNEQPT-PBPROT alarm is reported on a CE-100T card with a filler card in the slot of the CTXMA under the following conditions:

1. A CE-100T card is plugged into slot 1, 2, 5, or 6 with a filler card already present in slot 3 or 4.
2. The CTNEQPT-PBPROT alarm is raised after the CE-100T card or the CTXMA is reset.

No workaround is available for this issue. This issue will be resolved in a future release.

CSCsw45101—CONTBUS-IO alarm is reported when filler card is inserted in 310MA

A CONTBUS-IO-A alarm is reported on a CE-100T card with a filler card in slot 3.

A CONTBUS-IO-B alarm reported on CE-100T with a filler card in slot 4.

This issue occur under the following conditions:

1. A CE-100T card is plugged in into slot 1, 2, 5, or 6 with a filler card already present in slot 3 or 4.
2. The CONTBUS-CLK-A or the CONTBUS-CLK-B alarm is raised after the CE-100T card or the CTXMA is reset.

No workaround is available for this issue. This issue will be resolved in a future release.

CTC

This section documents caveats for CTC in Release 8.6.

CSCsk83405—Retrieval of OSPF diagnostics raises the OSPF Hello Fail alarm

Performing a retrieval of OSPF diagnostic information from the CTC network raises the OSPF Hello Fail alarm and the controller card is locked. This issue will be resolved in a future release.

CSCsq14054—CTC hangs when VCAT state changes from OOS,DSBLD to IS,AINS

CTC hangs when the VCAT state transitions from OOS,DSBLD to IS,AINS. The workaround is to manually set the state for individual members. This issue will be resolved in a future release.

Data I/O Cards

This section documents caveats for Data I/O Cards in Release 8.6.

CSCso84751—LCAS members remain in LCAS Rx DNU alarm state after XC soft reset

After XC soft resets on CE-MR-10 or CE-MR-6 cards, LCAS members may remain in an LCAS Rx DNU alarm state. This issue will be resolved in a future release.

CSCsu30587—VT members remain idle after trunk card is pulled multiple times

VT members remain idle on pulling truck cards multiple times. The workaround is to move the affected members to OOG state and then to IS state. This issue will be resolved in a future release.

CSCsu02263—CTX hard reset causes GFP-LFD alarms, VCAT traffic stop flow to GT3

The GFP loss of frame delineation (GFP-LFD) alarm is reported on VC12 and VC3 VCAT circuits, causing loss of traffic to GT3, when the CTX card is hard reset.

This issue occurs under the following conditions:

1. In a three- node setup, configure the Cisco ONS 15310-MA node to directly derive timing from the BITS timed node. Set the remaining nodes to derive time from the Cisco ONS 15310-MA node.
2. Create VC12 and/or VC3 circuits on the Cisco ONS 15310-MA node.
3. Unplug the CTX card.
4. The GFP-LFD alarm is reported.



Note

This issue is seen on the 310MA node only on transition from no CTX in the node to one CTX plugged into the node. The issue is not seen on a CTX hard- reset from CTC.

The workaround for this issue is to hard reset the CTX card or GT3 to clear the alarm.

This issue will be resolved in a future release.

CSCsq83369—Traffic loss on CE-MR-6 card with single CTX soft reset

Traffic loss on a CE-MR-6 card with a single CTX soft reset occurs under the following condition:

- On a 310MA node with a single CTX card, traffic loss (for approximately 15 seconds) on a CE-MR-6 card occurs with a single CTX soft-reset

No workaround is available for this issue. This issue will be resolved in a future release.

Hardware

This section documents caveats for Hardware in Release 8.6.

CSCsl92447—Traffic in a split fiber circuit is dropped when the trunk port is shut down

The traffic in a split fiber circuit is dropped when the trunk port is shut down either by pulling the trunk port fiber or setting the admin state as OOS-DSBLD, and performing a soft reset on an ML-MR card or a hard reset on a CE-MR-10 or CE-MR-6 card. This issue will be resolved in a future release.

CSCsu88198—15310 OSP (ANSI) fails GR1089 1. level 400V surge on DS1 ports

15310 OSP (ANSI) fails GR1089 1. level surge on DS1 ports under the following condition:

- The surge level is 1,000 volts and 600,000 volts.

No workaround is available for this issue. This issue will be resolved in a future release.

Maintenance and Administration

This section documents caveats for Maintenance and Administration in Release 8.6.

**Caution**

VxWorks is intended for qualified Cisco personnel only. Use of VxWorks by customers is not recommended, nor is it supported by the Cisco Technical Assistance Center. Inappropriate use of VxWorks commands can have a negative and service-affecting impact on your network. Consult the troubleshooting guide for your release and platform for appropriate troubleshooting procedures. To exit without logging in, enter a Control-D (press the Control and D keys at the same time) at the Username prompt. To exit after logging in, type “logout” at the VxWorks shell prompt.

**Note**

Cisco Transport Controller (CTC) does not support adding or creating more than five circuits in autoranged provisioning. This restriction is intentional.

**Note**

In releases earlier than Cisco ONS Release 4.6, you could independently set proxy server gateway settings; however, with Cisco ONS Release 4.6.x and later, this is no longer the case. To retain the integrity of existing network configurations, settings made in a pre-4.6 release are not changed upon upgrading to Cisco ONS Release 7.x. Current settings are displayed in Cisco Transport Controller (whether they were inherited from an upgrade or they were set using the current GUI).

CSCsb88234—No plug-in message when a filler card is plugged in without prior provisioning

When a card is provisioned and a filler card is plugged in, a DBCHG with ENT-EQPT alarm is raised, but when a filler card is plugged in without a prior provision there is no plug-in message. Similarly, there is no message upon removal of the filler card. The workaround for TL1 is to issue an inventory call and the filler card appears. For Cisco Transport Controller, the card is displayed and removed when the card is removed. This issue will be resolved in a future release.

CSCsu33773—STS PM counters cannot be cleared on protect STS in BLSR switched state

STS PM counters cannot be cleared on protect STS in BLSR switched state. No workaround is available for this issue. This issue will be resolved in a future release.

CSCsu62968—DS3 Port changes to IS from AINS state after soak expiry without valid input signal

DS3 ports of DS1-28/DS3-EC1-3 and DS1-84/DS3-EC1-3 cards changes from AINS to IS state after an AINS soak time expiry without a valid input signal. The workaround is to manually edit the DS1 port state after rebooting, or change the state to any other state except OOS,DSBLD and then revert the state to OOS,DSBLD. This issue will be resolved in a future release.

Optical I/O Cards

This section documents caveats for Optical I/O Cards in Release 8.6.

CSCsx13871—OC-3 PPM on 15310-MA node does not report PJ-Gen performance monitors

PJ-Gen is not reported for OC-3-rated pluggable port modules (PPM) after you perform the following tasks:

1. Create an STS-1 circuit on an OC-3-rated PPM.
2. Enable IIPPM for the same circuit (on the same OC-3 PPM).
3. Enable PJStsMon on STS-1.
4. Create a frequency offset into this OC-3 PPM using testset. The same PJ-Gen is not reported in CTC/TL-1.

No workaround is available for this issue.

Path Protection

This section documents caveats for Path Protection in Release 8.6.

CSCsl52122—Revertive path protection circuit may not switch to protected path during activation

A revertive path protection circuit may not switch to protected path during activation when the path protection selector does not detect the working path as Active even if that path has errors. This issue will be resolved in a future release.

TL1

This section documents caveats for TL1 in Release 8.6.



Note

To be compatible with TL1 and DNS, all nodes must have valid names. Node names should contain alphanumeric characters or hyphens, but no special characters or spaces.

CSCsu24438—RTRV-TH-MOD2 command for optical ports does not retrieve any value

The RTRV-TH-MOD2 command for optical ports does not retrieve any value when the MONTYPE specified in the command is "ALL" with the FEND location, and returns the error "/* Far End Performance Monitoring Values Not Supported */" The workaround is to use the following commands to retrieve the threshold values of the optical ports:

- RTRV-TH-MOD2::AID:1::,FEDN;
- RTRV-TH-ALL:::1::,FEND;
- RTRV-TH-MOD2::AID:1::<MONTYPE>,FEND;

This issue will be resolved in a future release.

Resolved Caveats for Release 8.6

This section documents caveats resolved in Release 8.6.

Alarms

This section documents resolved caveats for Alarms in Release 8.6.

CSCsj96051—CE100 port transitions from IS,AINS to IS when CARLOSS alarm is raised

Ports on CE1000 and CE100T cards with a CARLOSS alarm will transition into IS state if the state is changed from OOS,DSBLD to IS,AINS and provisioned with zero soak-time. This issue has been resolved.

CSCsu64887—LOS alarm remains critical on DS3 port after deleting the STS circuit on that port

The loss of signal (LOS) alarm remains critical on DS3 ports of DS1-28/DS3-EC1-3 and DS1-84/DS3-EC1-3 cards after deleting the STS circuits on those ports. This issue has been resolved.

CSCsu47466—DS1 Alarms are incorrectly raised or suppressed after CTXMA reboot

DS1 Alarms are incorrectly raised or suppressed against the first three DS1 ports of the WBE28/WBE84 card. This issue has been resolved.

Common Control Cards

This section documents resolved caveats for Common Control Cards in Release 8.6.

CSCsr41128—TCC card reboots when many sockets are created

The traffic from a port scanner creates many sockets, causing the TCC card to reboot. This issue has been resolved.

CTC

This section documents resolved caveats for CTC in Release 8.6.

CSCsi29266— CTC displays BIC_UNKNOWN

The CTC inventory window displays BIC_UNKNOWN, when EIA BIC is not installed in either the A or B position on ONS 15454-SA or 15454-SA-HD chassis. This issue has been resolved.

Data I/O Cards

This section documents resolved caveats for Data I/O Cards in Release 8.6.

CSCsm21404—Packet loss with soft reset of CE-MR-6/CE-MR-10 card

The traffic is affected for 1000 milliseconds when a CE-MR-6/CE-MR-10 card is soft reset after an SW-LCAS circuit is created between the CE-MR-6/CE-MR-10 card and the CE-1000-4 card. The traffic is affected for 30 milliseconds when the CE-MR-6/CE-MR-10 card is soft reset after an SW-LCAS circuit is created between the CE-1000 card and the CE-MR-6/CE-MR-10 card. This issue has been resolved.

CSCsq14370—ifspeed query results in incorrect value for circuit size

When queried, the ifspeed parameter returns a value of 1000 for the POS port regardless of the circuit size provisioned on CE-MR-6/CE-MR-10 cards. This issue has been resolved.

CSCsk04872— Multiple low-order VCATs do not transition to IS when created in TL1 or CTC

In Release 8.0, when multiple members (more than 16) are added to a low-order VCAT Group using TL1 scripts or CTC with the service state set to In-Service (IS), not all members report being in IS state. This issue has been resolved.

CSCsg35077—Cisco IOS crashes while processing malformed ISAKMP message

A device with a valid IPSec configuration that is running Cisco IOS software may crash during processing of an Internet Key Exchange (IKE) message. This issue has been resolved.

Hardware

This section documents resolved caveats for Hardware in Release 8.6.

CSCsq29634— Primary Nonvolatile Backup Memory Failure alarm on CTX card

Memory incoherency in CTX-MA causes CRC failure and raises the Primary Nonvolatile Backup Memory Failure (BKUPMEMP) alarm is on several ONS 15310-MA nodes running on Release 8.0 software version. This issue has been resolved.

Maintenance and Administration

This section documents resolved caveats for Maintenance and Administration in Release 8.6.



Caution

VxWorks is intended for qualified Cisco personnel only. Use of VxWorks by customers is not recommended, nor is it supported by the Cisco Technical Assistance Center. Inappropriate use of VxWorks commands can have a negative and service-affecting impact on your network. Consult the troubleshooting guide for your release and platform for appropriate troubleshooting procedures. To exit without logging in, enter a Control-D (press the Control and D keys at the same time) at the Username prompt. To exit after logging in, type “logout” at the VxWorks shell prompt.

**Note**

Cisco Transport Planner (CTP) does not support adding or creating more than five circuits in auto-ranged provisioning. This restriction is intentional.

**Note**

In releases earlier than Cisco ONS Release 4.6, you could independently set proxy server gateway settings; however, with Cisco ONS Release 4.6.x and later, this is no longer the case. To retain the integrity of existing network configurations, settings made in a pre-4.6 release are not changed upon upgrading to Cisco ONS Release 7.x. Current settings are displayed in Cisco Transport Controller (whether they were inherited from an upgrade or they were set using the current GUI).

CSCsu49095—Pointer Justification counter does not increment for more than 4 STSs

The Pointer Justification counter does not increment for all STSs on CTX cards on the Cisco ONS 15310-MA node. This issue has been resolved.

CSCsv13893—Admin state change from IS,NR to OOS,DSBLD fails

Changing the Admin state of an electrical port or optical port from IS,NR to OOS,DSBLD fails. This issue has been resolved.

CSCsk84133—Unable to archive audit log

The user cannot perform an audit log and the system displays the message “The archive is up to date”. This issue has been resolved.

CSCsv14375—Shared secret key greater than 16 characters corrupts after an upgrade

A shared secret key greater than 16 characters corrupts after an upgrade from Release 7.2 to Release 8.5.2. This issue has been resolved.

NCP

This section documents resolved caveats for NCP found in Release 8.6.

CSCsx37297—FTP port issue for TCP connect Scan

Line cards do not boot up, and software download and database synchronization between Active and Standby TSC cards fail under the following condition:

- The FTP server task is blocked at the external FTP socket because of the execution of port scanners.

The workaround is to perform an FTP to the node. This issue has been resolved.

Path Protection

This section documents resolved caveats for Path Protection found in Release 8.6.

CSCsw86999 —AIS-V alarm does not clear for STS that does not have circuit created on VT-1

AIS-V alarm does not clear for an STS circuit that does not have a circuit created on VT-1. This issue has been resolved.

New Features and Functionality

No new software features are included in Release 8.6.

Related Documentation

This section lists release-specific and platform-specific documents.

Release-Specific Documents

- *Release Notes for the Cisco ONS 15454, Release 8.5.2*
- *Release Notes for the Cisco ONS 15454 SDH, Release 8.5.2*
- *Release Notes for the Cisco ONS 15454, Release 8.5.3*
- *Release Notes for the Cisco ONS 15454 SDH, Release 8.5.3*
- *Release Notes for the Cisco ONS 15310-MA, Release 8.5.3*
- *Release Notes for the Cisco ONS 15454, Release 8.6*
- *Release Notes for the Cisco ONS 15454 SDH, Release 8.6*
- *Release Notes for the Cisco ONS 15310-CL, Release 8.6*

Platform-Specific Documents

Cisco ONS 15454 Release 8.6 is based on Cisco ONS 15454 Release 8.5.1. Refer to the Release 8.5.1 documents for more information.

- *Cisco ONS 15310-CL and Cisco ONS 15310-MA Procedure Guide*
Provides installation, turn up, test, and maintenance procedures
- *Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Manual*
Provides technical reference information for cards, nodes, and networks
- *Cisco ONS 15310-CL and Cisco ONS 15310-MA Troubleshooting Guide*
Provides a list of SONET alarms and troubleshooting procedures, general troubleshooting information, transient conditions, and error messages
- *Cisco ONS SONET TL1 Command Guide*
Provides a comprehensive list of TL1 commands
- *Cisco ONS SONET TL1 Reference Guide*
Provides general information, procedures, and errors for TL1
- *Cisco ONS 15310-CL and Cisco ONS 15310-MA Ethernet Card Software Feature and Configuration Guide*
Provides software feature and operation information for Ethernet cards

- *Cisco ONS 15454 Software Upgrade Guide, Release 8.5.x*

Obtaining Optical Networking Information

This section contains information that is specific to optical networking products. For information that pertains to all of Cisco, refer to the [Obtaining Documentation and Submitting a Service Request](#) section.

Where to Find Safety and Warning Information

For safety and warning information, refer to the *Cisco Optical Transport Products Safety and Compliance Information* document that accompanied the product. This publication describes the international agency compliance and safety information for the Cisco ONS 15454 system. It also includes translations of the safety warnings that appear in the ONS 15454 system documentation.

Cisco Optical Networking Product Documentation CD-ROM

Optical networking-related documentation, including Cisco ONS 15xxx product documentation, is available in a CD-ROM package that ships with your product. The Optical Networking Product Documentation CD-ROM is updated periodically and may be more current than printed documentation.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

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

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

CCDE, CCENT, Cisco Eos, Cisco HealthPresence, the Cisco logo, Cisco Lumin, Cisco Nexus, Cisco StadiumVision, Cisco TelePresence, Cisco WebEx, DCE, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play, and Learn and Cisco Store are service marks; and Access Registrar, Aironet, AsyncOS, Bringing the Meeting To You, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, CCVP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, iQuick Study, IronPort, the IronPort logo, LightStream, Linksys, MediaTone, MeetingPlace, MeetingPlace Chime Sound, MGX, Networkers, Networking Academy, Network Registrar, PCNow, PIX, PowerPanels, ProConnect, ScriptShare, SenderBase, SMARTnet, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0812R)

© 2009 Cisco Systems, Inc. All rights reserved.

