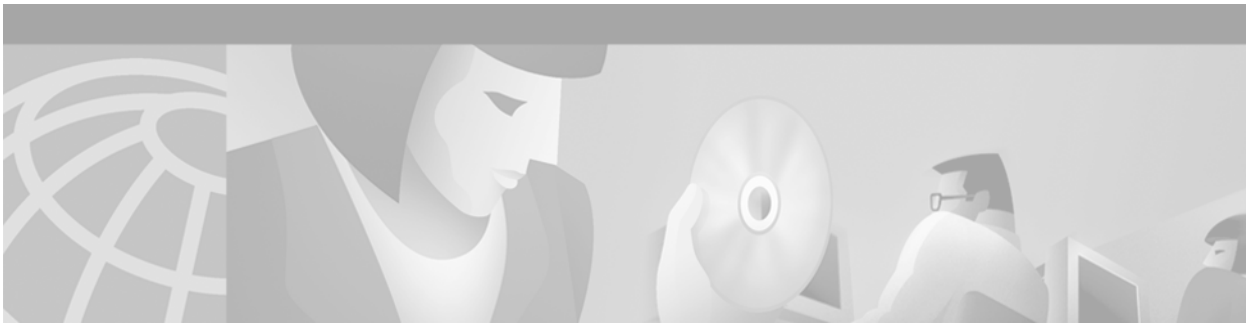

Release Notes for Cisco ONS 15305 Release 1.1

January 2004

Release notes address closed (maintenance) issues, caveats, and new features for the Cisco ONS 15305. For detailed information regarding features, capabilities, hardware, and software introduced with this release, refer to Release 1.1 of the *Cisco ONS 15305 Installation and Operations Guide.* For the most current version of the Release Notes for Cisco ONS 15305 Release 1.1, visit 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, visit the following URL:

http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl

Contents

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

Changes to the Release Notes

This section documents supplemental changes that have been added to the *Release Notes for Cisco ONS 15305 Release 1.1* since the production of the Cisco ONS 15305 System Software CD for Release 1.1.

No changes have been added to the release notes for Release 1.1.

Caveats

Review the notes listed below before deploying the ONS 15305. Caveats with DDTS tracking numbers are known system limitations that are scheduled to be addressed in a subsequent release. Caveats without DDTS tracking numbers are provided to point out procedural or situational considerations when deploying the product.

DDTS # CSCea33196

Unfair distribution of intermodular traffic with flow control can occur.

If traffic is sent from several ports in different modules and flow control is active, traffic throughput is less for ports belonging to same module as the congested.

Typical scenario:

Port 2 module 1, port 1 module 2 and port 1 module 3 send 100Mb traffic streams to port 1 module 1. All ports have flow control enabled. The result is that more traffic is sent from the ports in module 2 and 3 compared to what is sent from the port in module 1. No packet loss from any module occurs. This issue will be resolved in a future release.

DDTS # CSCea33337

Port priority is not strictly enforced when flow control is on. This can occur under the following conditions.

The four input ports are set for 100 MB (64 bytes).

- Port 1 priority is set for 6
- Port 2 priority is set for 4
- Port 3 priority is set for 0
- Port 4 priority is set for 1

VLAN tagging is turned off for all of the FE ports while VLAN tagging is turned on for the STM1 trunk port. (This adds an additional 4 bytes to each stream.)

Flow control is turned on for all the FE ports

When all the ports are turned on, only Port 1 should have priority. Instead, traffic is received on both Ports 1 and 2 at almost 60/40% on each port (81,168 versus 60,876). This issue will be resolved in a future release.

CDB Restore

Restore CDB does not complete successfully when the CDB backup is taken on a device running R1.0 the CDB contains "DccChannelMode" settings.

Workaround: When running R1.1 ICS03, first undo and then redo "DccChannelMode" settings and then take a new backup. This issue will be resolved in a future release.

DDTS # CSCeb22543

On 8xSTM1 cards there may be packet losses for LAN traffic mapped on STM1, and "DXC inlet bit error alarm" conditionsmay be raised, when 8xSTM1 cards are exposed to extreme temperature cycles (-5 to 50˚C with 2 hours dwell at each extreme temperature, and 1˚C/min gradients). The packet losses and raised condition can occur on the 8xSTM1 card. This only occurs under temperature stress. The frequence with which the issue has been observed is an average of 10 packets lost, and less than 100 alarms recorded in a 12 hours cycle. No failures have been detected in nominal conditions.

DDTS # CSCea71600

When power cycling (power on/off at different termperatures) the 8xSTM1 card, the card may fail to recover operation after the power on/off, and may remain in an alarmed state without carrying traffic. In this case the card indicates "DXC inlet failure alarm." The card's LED will also be red. The card recovers normal operation after a software reset. This issue occurs approximately one out of every 20 power on/offs.

DDTS # CSCea31245

If you send 100 MB from two ports to a single port (for example, to test flow control), 64 byte packets are lost. If you increase the size to 75 bytes, packets are no longer lost. This type of traffic is not, however, typical for a device in normal operation. This issue will be resolved in a future release.

DDTS # CSCea33042

Same priority and same packet size may yield different traffic flows. When four streams are set up and each has the same packet size (64 byte) going across a 100 MB STM-1 path to another ONS 15305, each of the streams can be off as much as 50%. This is not always the case, however. Sometimes the traffic can be equally distributed. Using random packet sizes, the distribution tends to be more equal. This type of traffic in not typical for a device in normal operation; however, the issue can occur in a lab test. This issue will be resolved in a future release.

DDTS # CSCea33354

If a mirrored port becomes congested and flow control is enabled, no pause packets are generated toward ports belonging to other modules. Flow control fails when ports used for mirroring become congested. If traffic to a mirrored port is sent from a LAN port situated in a different module from that of the

mirrored port, pause packets are not received and mirrored packets are lost. Actual traffic flow is not disturbed by the mirrored port flow control problem, and the copy port traffic is handled correctly. This issue will be resolved in a future release.

Resolved Caveats for Release 1.1

The following caveats were resolved in Release 1.1.

DDTS # CSCea34421

Multicast BPDU packets are mistakenly forwarded when spanning tree is disabled. This issue is resolved in Release 1.1.

DDTS # CSCeb19897

When multiple VC12 containers used by the same Ethernet circuit take different paths in an SDH network, the 6.5 ms tolerance to delay between the separately routed packets does not work properly and 25-30% of the traffic may be lost. This issue is resolved in Release 1.1.

DDTS # CSCec87598

DCC-R/M disconnect/reconnect on MSP-create. This issue is resolved in Release 1.1.

DDTS # CSCed14104 and CSCed14314 and CSCed15692

Fatal error when trying to set speed 1000 MB on a GE port . This issue is resolved in Release 1.1.

New Features and Functionality

This section highlights new features and functionality for Release 1.1. For an overview of features of the 15305, consult the *Cisco ONS 15305 Installation and Operations Guide*, Release 1.1.

Added Module Types

The following new module types have been added for Release 1.1.

- Single optical L-16.1 module (L16.2-1-LC) (Long Haul)
- Dual optical L4.2 module (L4.2-2-LC) (Long Haul)
- Dual Optical S1.1 + 21xE1 module (S1.1-2-LC/E1-21)
- Power Module, AC 230V

Additional New Features

The following additional features have been added for Release 1.1.

- New MIB-variables for 230VAC Power Module Alarms
- Remove VLANs before Module Disable (as with XC etc.)
- Improved module diagnostics
- Updated SETS fpga and software support (synchronization)
- Transparent DCC

Related Documentation

Release-Specific Documents

None.

Platform-Specific Documents

- *Cisco ONS 15305 Quick Installation Guide*, Release 1.1
- *Cisco ONS 15305 Installation and Operations Guide*, Release 1.1
- *Cisco Edge Craft, Software Guide*

Obtaining Documentation

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

World Wide Web

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

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

Documentation CD-ROM

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

Ordering Documentation

Cisco documentation is available in the following ways:

- Registered Cisco Direct Customers can order Cisco Product documentation from the Networking Products MarketPlace:

  http://www.cisco.com/cgi-bin/order/order_root.pl

- Registered Cisco.com users can order the Documentation CD-ROM through the online Subscription Store:

  http://www.cisco.com/go/subscription

- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, in North America, by calling 800 553-NETS(6387).

Documentation Feedback

If you are reading Cisco product documentation on the World Wide Web, you can submit technical comments electronically. Click **Feedback** in the toolbar and select **Documentation**. After you complete the form, click **Submit** to send it to Cisco.

You can e-mail your comments to bug-doc@cisco.com.

To submit your comments by mail, use the response card behind the front cover of your document, or write to the following address:

Attn Document Resource Connection
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Obtaining Technical Assistance

Cisco provides Cisco.com as a starting point for all technical assistance. Customers and partners can obtain documentation, troubleshooting tips, and sample configurations from online tools. For Cisco.com registered users, additional troubleshooting tools are available from the TAC website.

Cisco.com

Cisco.com is the foundation of a suite of interactive, networked services that provides immediate, open access to Cisco information and resources at anytime, from anywhere in the world. This highly integrated Internet application is a powerful, easy-to-use tool for doing business with Cisco.

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Customers and partners can self-register on Cisco.com to obtain additional personalized information and services. Registered users can order products, check on the status of an order, access technical support, and view benefits specific to their relationships with Cisco.

To access Cisco.com, go to the following website:

http://www.cisco.com

Technical Assistance Center

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

Contacting TAC by Using the Cisco TAC Website

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

http://www.cisco.com/tac

P3 and P4 level problems are defined as follows:

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

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

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

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

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

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

Contacting TAC by Telephone

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

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

P1 and P2 level problems are defined as follows:

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

This document is to be used in conjunction with the documents listed in the "Related Documentation" section.