



Release Notes for Cisco ONS 15310-CL Release 6.2.2



Note

The terms “Unidirectional Path Switched Ring” and “UPSR” may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as “Path Protected Mesh Network” and “PPMN,” refer generally to Cisco’s path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

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Release notes address closed (maintenance) issues, caveats, and new features for the Cisco ONS 15310-CL. For detailed information regarding features, capabilities, hardware, and software introduced with this release, refer to Release 6.0 of the *Cisco ONS 15310-CL Procedure Guide*, *Cisco ONS 15310-CL Reference Guide*, *Cisco ONS SONET TL1 Command Guide*, and *Cisco ONS 15310-CL Troubleshooting Guide*. For the most current version of the Release Notes for Cisco ONS 15310-CL Release 6.2.2, 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://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs>

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Changes to the Release Notes

This section documents supplemental changes that have been added to the *Release Notes for Cisco ONS 15310-CL Release 6.2.2* since the production of the Cisco ONS 15310-CL System Software CD for Release 6.2.2.

No changes have been added to the release notes for Release 6.2.2.

Caveats

Review the notes listed below before deploying the ONS 15310-CL. 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.

Maintenance and Administration

**Caution**

VxWorks is intended for qualified Cisco personnel only. Customer use of VxWorks is not recommended, nor is it supported by Cisco's Technical Assistance Center. Inappropriate use of VxWorks commands can have a negative and service affecting impact on your network. Please consult the troubleshooting guide for your release and platform for appropriate troubleshooting procedures. To exit without logging in, enter a Control-D (hold down 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.

CSCeh84908

A CTC client session can disconnect from an ONS node during simultaneous deletion of large numbers of VT level circuits (3000+). Connectivity to the node will recover without any user action. If the condition persists, restart the CTC session to reconnect. This issue is under investigation.

Data I/O Cards

CSCsb40206

In Asymmetric configuration, with autonegotiation enabled and flow control selected, an ML-series card might fail to synchronize with, or to recognize the asymmetric flow control. This issue is under investigation.

Path Protection Functionality

CSCee53579

Traffic hits can occur in an unprotected to path protected topology upgrade in unidirectional routing. If you create an unprotected circuit, then upgrade the unprotected circuit to a path protected circuit using Unprotected to Path Protection wizard, selecting unidirectional routing in the wizard, the circuit will be upgraded to a path protected circuit. However, during the conversion, traffic hits on the order of 300 ms should be expected. This issue will not be resolved.

Bridge and Roll

CSCei37364

When a rollTo leg is not receiving a good signal, and because of this the rollPending alarm is not cleared, there is no alarm indicating the reason that the RollPending alarm fails to clear. This issue is resolved in Release 7.0.

TL1



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.

Resolved Caveats for Release 6.2.2

The following items are resolved in Release 6.2.x.

Maintenance and Administration

CSCsd67191

Rarely, in a large network with many host routes the Proxy ARP server might run out of ring buffer storage, resulting in a subsequent failure of the driver to receive new packets. This can lead to DCC failure and loss of all connections. This issue is resolved in Releases 6.2 and 8.

CSCeg81602

A 100 second outage on DS1 traffic that is physically looped back, and in IS-AINS state, can occur during a span switch. With a loopback on the DS1 traffic a span switch will induce errors that raise a signal degrade (SD) on the DS1. The system then injects AIS due to the SD to keep from transitioning to IS from IS-AINS. To prevent this issue avoid using a physical loopback. This issue is resolved Release 6.0.

Data I/O Cards

CSCeh26707

Loss of Ethernet signal on one of the front ports takes longer than expected to be propagated to the remote port. Link integrity operates slower than expected for Ethernet failures (though it works as expected for SONET failures). To see this, any condition that causes an Ethernet loss of signal (removal of a front port Ethernet cable, for example) will invoke the Ethernet integrity function. This issue is resolved in Release 6.0.

CSCeh28342

On ML-series in the ONS 15310-CL, when policing is enabled, the configured policed rate is not forwarded. This can occur when policing at a rate lower than 1 Mbps. The workaround is to set the policed rate higher than 1 Mbps, or to raise the configured policed rate until the desired rate is forwarded. This issue is resolved in Release 6.0.

Path Protection Functionality

CSCec15064

A path protected /SNCP circuit with a defect signal present (for example, AIS-P or AIS-V) on the protect path will produce RDI-P or RDI-V upstream of the detection point, but these signals will not be detected or indicated. This issue is resolved in Release 6.0.

TL1 Functionality

CSCsb69386

If a TL1 tunnel is open on an ONS 153xx NE, sometimes when the NE reboots the nodes behind the tunnel will become permanently grayed out. This issue can occur when the tunnel far end is either rebooting or is already servicing other TL1 tunnels with several NEs behind the tunnel. To work around this issue, restart CTC at a later time, when the far end NE has less active TL1 tunnels. This issue is resolved in Release 6.2.

New Features and Functionality

This section highlights new features and functionality for Release 6.2.x. For complete documentation of each of the features of the ONS 15310-CL, consult the user documentation.

There are no new features for Release 6.2.x.

Related Documentation

Release-Specific Documents

- *Release Notes for the Cisco ONS 15310-CL, Release 6.2*
- *Release Notes for the Cisco ONS 15454 SDH, Release 6.2.2*
- *Release Notes for the Cisco ONS 15327, Release 6.2.2*
- *Release Notes for the Cisco ONS 15600, Release 6.2.2*
- *Release Notes for the Cisco ONS 15454, Release 6.2.2*
- *Upgrading Cisco ONS 15310-CL to Release 6.2*

Platform-Specific Documents

- *Cisco ONS 15310-CL Procedure Guide*
Provides installation, turn up, test, and maintenance procedures
- *Cisco ONS 15310-CL Reference Manual*
Provides technical reference information for SONET/SDH cards, nodes, and networks
- *Cisco ONS 15310-CL Troubleshooting Guide*
Provides a list of SONET alarms and troubleshooting procedures, general troubleshooting information, and hardware replacement procedures
- *Cisco ONS SONET TL1 Command Guide*
Provides a comprehensive list of TL1 commands

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.

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

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