# Release Notes for Cisco ONS 15200 Maintenance Manager Software Release 1.1(3)

Release Notes address closed issues, caveats, and new features for the Cisco ONS 15200 Maintenance Manager (MM) software. For detailed information regarding features, capabilities, and software introduced with this maintenance release, refer to the documents listed in the "Related Documentation" section on page 8. For the most current version of the Release Notes for Cisco ONS 15200 Release 1.1, visit the following URL:

http://www.cisco.com/univercd/cc/td/doc/product/ong/15200/15200rnt/index.htm

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## Contents



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# Changes to the Release Notes

This section documents changes that have been added to the *Release Notes for Cisco ONS 15200 Release 1.1* since the production of the Cisco ONS 15200 System Software CD for Release 1.1.

This document is intended as a stand-alone document for those customers that only use MM for system management.

# New Features and Functionality

The following new features and functionality have been added to the ONS 15200 MM Software Release 1.1(3).

## New Software Features

This section describes the new software features implemented in this maintenance release.

### Source Information in Event Log Changed

The Element ID has been replaced with the CLIP name to improve event log information.

### Root Cause of a Fault is Reported, Subsequent Faults are Suppressed

Only the root cause of a fault is reported, subsequent fault(s) will be suppressed and displayed with normal, if read by the user.

### No Performance Monitoring

Performance monitoring is not implemented in the Maintenance Manager. This will not be implemented in any future release.

### Improved Global Alarm Page in MM Interface

The global alarms MM interface page now provides links to alarming CLIPs.

### Improved Path Summary Page in MM Interface

The main path view MM interface page now provides active path information.

### Settable Ping Level

The ping level broadcast depth, the logical distance from the maintenance manager access point in the system to the managed clips, is settable to one or two at launch of the software.

Setting the ping level to one means that only the CAN bus to which MM is connected can be observed and managed. Setting the ping level to two means that in addition, all clips with QPP paired to any of the clips on this CAN bus are accessible.

If used in intermediate nodes in systems with FDI switching, ping level has to be set to one. If not, it will interfere with the FDI function. It is recommended that ping level one be used.

### New Power Level View

A new overview exists in MM 1.1(3), where the optical power levels of all managed clips are presented. This is similar to the new view in the web browser interface.

### Data Rate Settable on Clips and Paths

The data rate of clips is now a settable parameter from MM. It can be set on both the clip and path levels.

# Limitations and Restrictions

This section describes ONS 15200 limitations and restrictions in systems only managed by MM.

## Restricted Maintenance Manager Scope

Due to limited bandwidth in the internal data communication network, the MM is currently configured to manage only the CLIP modules on the local control area network (CAN) bus and CLIP modules connected directly to the local CLIP modules by QPP (i.e., a maximum distance of 1 CAN hop + 1 QPP hop). The new feature Settable Ping Level, page 2, has minimized this restriction.

## Multiple Maintenance Manager Sessions in the Same Network

Restrictions on running multiple MM sessions in a subnetwork apply because the last MM session started will, by default, tell all CLIP modules within its “realm” (one CAN + one QPP) that the latest MM session receives all alarm subscriptions (as a maintenance subscriber). Because there is only one maintenance subscriber allowed, the old one becomes an ex-subscriber.

## NEBS Testing

The MCU has been tested for compliance to New Equipment Building System (NEBS) level 3. Both ONS 15252 and ONS 15201 have passed environmental testing that complies with European Telecommunications Standards Institute (ETSI) and all NEBS level 2 requirements. A complete report summarizing the results of these tests, performed by the Swedish environmental lab, SEMKO, also exists.

## Alarm Cut-off Button

The alarm cut-off button on the Communication Interface Module (CIM) board currently has no function because the supporting software has not yet been implemented.

## No Performance Monitoring

Performance monitoring is not implemented in the Maintenance Manager. This will not be implemented in any future release.

# Caveats

Review the notes listed below before deploying the ONS 15200. Caveats with DDTS bug tracking numbers are known system limitations that are scheduled to be addressed in a subsequent release. Caveats without DDTS bug tracking numbers are provided to point out procedural or situational considerations when deploying the product.

## Open Caveats – Software Release *1.1(3)*

### Bug CSCdw23738 – Network Status Not Displayed in MM

**Component**: MM

**Detail**: MM does not display the current network status, as shown by the CIM alarm LEDs, in the graphical view of an MCU.

**Workaround**: None.

**Resolution**: This issue may be resolved in a future release.

### Bug CSCdw08317 – The MM interface does not clear alarms

**Component**: MM software

**Detail**: The MM interface does not clear alarms even though the value is between lwt and hwt.

**Workaround**: Perform an upload.

**Resolution**: This issue may be resolved in a future release.

### Bug CSCdx30943 – When changing client datarate, start at farthest CLIP from NCB

**Component**: Software documentation

**Detail**: When turning up a path between two CLIPs, it is possible that the clients may not be able to communicate with each other because of datarate mismatch.

**Workaround**: If you wish to change the CLIP datarate, always start with the CLIP that is the farthest away from the NCB.

It is preferable to remove the client input signal before changing data rate or to change the datarate on a path level rather than a CLIP level.

**Resolution**: This note will be added to the documentation in a future revision.

### Bug CSCdx47651 – Toggling QPP alarms with wrong datarate set

**Component**: NEC firmware

**Detail**: Some pairs of clips show toggling QPP alarms if the signal between them is Gigabit Ethernet, but

datarate is set to STM-16/OC-48 in the management interface (CLI). When the expected datarate is set incorrectly, the clock and data recovery function will not work. It will transmit noise, which will modulate the DWDM signal and thus disturb the QPP signal directly.

**Workaround**: Be sure to always set the datarate correctly.

**Resolution**: None.

### Bug CSCuk31979 – Alarms not cleared for values ~1.5 dB from thresholds

**Component**: NEC firmware

**Detail**: Alarms are not cleared in WEB and CLI for values that are around 1.5 dB from thresholds in normal operating range. To avoid flickering alarms, threshold hysteresis is implemented. The present value is fluctuating above and below the threshold during the time of the hysteresis, 2 seconds.

**Workaround**: None.

**Resolution**: This issue will be resolved in a future release.

### Bug CSCuk32585 – No manageability of protected channels with regeneration

**Component**: NEC firmware

**Detail**: The ONS 15200 system uses in-band signaling (QPP) for management communication. A protected CLIP transmits identical signals on both the alternative connections, including QPP. QPP is terminated/re-transmitted in each node, including the regenerator nodes. Unfortunately the QPP protocol definition does not currently include information, identifying to which of the alternative paths a message was addressed. Thus there is a possible addressing conflict. A further problem is that a protected CLIP assumes that it receives identical QPP messages on both the incoming QPP links, which is not the case when there are regenerating CLIPs along the alternative paths. The CLIP will randomly pick packets from either of the incoming links. Due to the above described problems it is not currently possible to manage a network with regeneration in protected paths.

**Workaround**: None in SNM 1.1(1). In 1.1(2) it is possible to set pinglevel to one, thereby limiting management to one CAN bus. An NCB is required in each node.

**Resolution**: This issue will be resolved in a future release.

### Bug CSCuk34561 – CLEI code label missing

**Component**: Clip-board

**Detail**: No CLEI label on clip front. All current clips are affected.

**Workaround**: None.

**Resolution**: This issue will be resolved in a future release.

### Bug CSCuk34591 – Alarm Inhibition from MM or CLI/Web

**Component**: SNM-software

**Detail**: When an inhibit on a parameter is set, an alarm will be sent to all snms that are either primary or secondary and to the maintenance subscriber from the nec. When the reverse command no inhibit (CLI) or uninhibit (web) is given, only the interface from which the command was issued will change value. The other management interfaces (CLI, web) are unaffected.

Thus, uninhibit will not reach a second SNM if set from an SNM nor will uninhibit reach an SNM if set from MM.

**Workaround**: None.

**Resolution**: This issue will be resolved in a future release.

### Bug CSCuk34598 – Multiple NCBs can take on identical unit ID

**Component**: SNM software

**Detail**: Several NCBs can be configured (configure snm snm_xxxxx) with identical unit ID. No check or negotiation is done by the SNM software to verify that the unit ID is not already used.

**Workaround**: Make sure each unit ID is only used once.

**Resolution**: This issue will be resolved in a future release.

### Bug CSCuk34601 – Data Rate Mismatch

**Component**: MM software

**Detail**: No throughput from the client side of the ONS 15200 system. The data rate of the two clips constituting a channel have been set to different data rates. This makes data transfer between the two client ports impossible. No alarm is given in maintenance manager, neither red nor yellow, on any level (global, path level, or clip level). This always occurs when the data rates on the two paired clips of a channel are not matched.

**Workaround**: The only workaround is to make sure the data rates are matched.

**Resolution**: This issue is not scheduled to be resolved in a future release.

### Bug CSCuk38159 – No Equipment Missing Alarm Received from SNM in MM 1.1(3)

**Component**: MM software

**Detail**: When an SNM/NCB that is inserted in an MCU and has been registered by MM 1.1(3) is removed from the MCU physically, no alarm is generated in MM. This is unlike the situation when a CLIP is pulled in a similar fashion and the alarm “equipment missing” is received if the CLIP parameter “inuse” is set to yes.

When the SNM/NCB hasn't replied to ping requests from MM in a predetermined time, the SNM/NCB is removed from the database in MM.

**Workaround**: Do not remove SNM/NCB when using MM. It is intended primarily for SCU usage in the field and should be feasible in most cases.

**Resolution**: This issue will be resolved in a future release.

### Bug CSCuk38518 – Configuration Data Not Transferred between SNM and MM

**Component**: MM software

**Detail**: When a clip configuration is made from an SNM, the change will no transfer to a running MM. To update MM, you need to ask for an update or restart MM.

**Workaround**: None.

**Resolution**: This issue will not be resolved in a future release.

# Resolved Caveats – Software Release *1.1(3)*

### Bug CSCdw25115 – Data Rate Not Settable in MM

**Component**: MM software

**Detail**: It is not possible to set the data rate on a path via MM.

**Workaround**: Set the data rate on both clips.

**Resolution**: This issue is resolved in release 1.1(3).

### Bug CSCuk34580 – No Yellow or Red Marks Generated at Alarms

**Component**: MM software

**Detail**: When an alarm is generated a yellow or red mark should appear in front of the overall event log and alarm.

**Workaround**: None.

**Resolution**: This issue is resolved in release 1.1(3).

### Bug CSCuk34608 – Wrong Color Indication for QPPA/QPPB Alarm

**Component**: MM software

**Detail**: MM displays the QPPA/QPPB alarm with red alarm indicator under clip alarm and global alarm. A minor, yellow alarm indicator should be displayed.

**Workaround**: None.

**Resolution**: This issue is resolved in release 1.1(3).

### Bug CSCuk34610 – Wrong Color Indication for FDI Alarm

**Component**: MM software

**Detail**: MM displays the FDI alarm with a red alarm indicator under clip alarm and global alarm. A minor, yellow alarm indicator should be displayed.

**Workaround**: None.

**Resolution**: This issue is resolved in release 1.1(3).

# Related Documentation

For additional information on the Cisco ONS 15200, refer to the following documents.

*Cisco ONS 15200 Product Description*

*Cisco ONS 15200 Module Handbook*

*Cisco ONS 15200 Installation, Setup, and Test Manual*

*Cisco ONS 15200 Maintenance Manager Installation and Operations Guide*

*Cisco ONS 15200 Web Interface Software User Manual*

*Cisco ONS 15200 Command Line Interface Manual*

# 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

## Optical Networking Product Documentation CD-ROM

Optical networking-related documentation, including the *Cisco ONS 15200 Release Notes*, is available in a CD-ROM package that ships with your product. The Optical Networking Product Documentation CD-ROM, a member of the Cisco Connection Family, is updated as required. Therefore, it might be more current than printed documentation. To order additional copies of the Optical Networking Product Documentation CD-ROM, contact your local sales representative or call customer service. The CD-ROM package is available as a single package or as an annual subscription. You can also access Cisco documentation on the World Wide Web at http://www.cisco.com, http://www-china.cisco.com, or http://www.europe.cisco.com.

## Ordering Documentation

Cisco documentation is available in the following ways:

- Registered Cisco Direct Customers can order Cisco Product documentation, including the Optical Networking Product CD-ROM from the Networking Products MarketPlace:

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

- 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).

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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

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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 Cisco TAC telephone numbers for your country, go to the following URL:

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

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

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