Release Notes for Cisco ONS 15310-MA Release 9.1

Revised: October 2009, OL-18466-01

Release notes contain the new features and enhancements for the Cisco ONS 15310-MA. For detailed information regarding features, capabilities, hardware, and software introduced with this release, refer to Release 9.1 of the *Cisco ONS 15310-MA Procedure Guide, Cisco ONS 15310-MA Reference Manual,* and the *Cisco ONS 15310-MA Troubleshooting Guide,* and Release 9.1 of the *Cisco ONS SONET TL1 Command Guide.* For the most current version of the Release Notes for Cisco ONS 15310-MA Release 9.1, 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://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs

Contents

Changes to the Release Notes

This section documents supplemental changes that have been added to the *Release Notes for Cisco ONS 15310-MA Release 9.1* since the production of the Cisco ONS 15310-MA System Software CD for Release 9.1.

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Using the Bug ToolKit

In Cisco ONS 15310-MA Software Release 9.1 and later, use the Bug ToolKit to view the list of outstanding and resolved bugs in a release. This section explains how to use the Bug ToolKit.

Search Bugs

This section explains how to use the Bug ToolKit to search for a specific bug or to search for all the bugs in a specified release.

Step 1 Go to http://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs.

You will be prompted to log into Cisco.com. After you login, the Bug Toolkit page opens.

Step 2 Click **Launch Bug Toolkit**.

Step 3 To search for a specific bug, enter the bug ID in the **Search for Bug ID** field and click **Go** in the **Search Bugs** tab.

To search for all the bugs in a specified release, enter the following search criteria in the **Search Bugs** tab:

- Select Product Category—Select **Optical Networking**.
- Select Products—Select **Cisco ONS 15310 Series** from the list.
- Software Version—Select **9.10** to view the list of outstanding and resolved bugs in Cisco ONS 15310-MA Software Release 9.1.
- Search for Keyword(s)—Separate search phrases with boolean expressions (AND, NOT, OR) to search within the bug title and details.
- Advanced Options—You can either perform a search using the default search criteria or define custom criteria for an advanced search. To customize the advanced search, select **Use custom settings for severity, status, and others** and provide the following information:
  - Severity—Select the severity level.
  - Status—Select **Open**, **Fixed**, or **Terminated**.

    Select **Open** to view all the open bugs. To filter the open bugs, clear the Open check box and select the appropriate sub-options that appear below the Open check box. The sub-options are New, Held, More, Open, Waiting, Assigned, Forwarded, Postponed, Submitted, and Information Required. For example, if you want to view only new bugs in Cisco ONS 15310-MA Software Release 9.1, only select **New**.

    Select **Fixed** to view fixed bugs. To filter fixed bugs, clear the Fixed check box and select the appropriate sub-options that appear below the fixed check box. The sub-options are **Resolved** or **Verified**.

    Select **Terminated** to view terminated bugs. To filter terminated bugs, clear the Terminated check box and select the appropriate sub-options that appear below the terminated check box. The sub-options are **Closed**, **Junked**, and **Unreproducible**. Select multiple options as required.
  - Advanced—Select the **Show only bugs containing bug details** check box to view only those bugs that contain detailed information, such as symptoms and workarounds.
  - Modified Date—Select this option if you want filter bugs based on the date on which the bugs were last modified.

- Results Displayed Per Page—Select the appropriate option from the list to restrict the number of results that appear per page.

Step 4 Click **Search**. The Bug Toolkit displays the list of bugs based on the specified search criteria.

Export to Spreadsheet

The Bug ToolKit provides the following options to export bugs to a spreadsheet:

- Click **Export All to Spreadsheet** link in the Search Results page under the Search Bugs tab. Specify file name and folder name to save the spreadsheet. All the bugs retrieved by the search will be exported.
- Click **Export All to Spreadsheet** link in the My Notifications tab. Specify file name and folder name to save the spreadsheet. All the saved bugs in all the groups will be exported.

If you are unable to export the spreadsheet, log into the Technical Support Website at http://www.cisco.com/cisco/web/support/index.html for more information or call Cisco TAC (1-800-553-2447).

New Features and Functionality

This section highlights new features and functionality for Release 9.1. For detailed documentation of each of these features, consult the user documentation.

Common Hardware

The following section provide information on new hardware.

Tunable SFP

ONS-SI-155-SR-MM SFP is supported in 15310-MA CTX card.

New Software Features and Functionality

The following new software features are added for Release 9.1:

- Backup NTP/SNTP Server, page 3
- Shelf Temperature, page 4
- Ethernet Drop and Continue Circuit, page 4

Backup NTP/SNTP Server

CTC allows you to specify a backup NTP/SNTP server along with the primary NTP/SNTP server. When the primary NTP/SNTP server fails, the node uses the secondary NTP/SNTP server to synchronize its date and time. If both the primary and secondary NTP/SNTP servers fail, an SNTP-FAIL alarm is raised. The node checks for the availability of the primary or secondary NTP/SNTP server at regular intervals until it can fetch the time from any one of the NTP/SNTP servers.

Shelf Temperature

The CTC displays the temperature of the ONS 15310-MA chassis. The temperature of the shelf (in degrees Celsius) is displayed in the temperature area of the pane in the CTC.

The temperature measured by the TCC2/TCC2P sensors appear on the LCD screen in the ONS 15310-MA chassis.

Ethernet Drop and Continue Circuit

The CE-MR-6 card uses the contiguous concatenation (CCAT) circuits to broadcast signals to multiple destinations from a single source without affecting the traffic. The CE-MR-6 card supports Ethernet drop and continue in CCAT circuits. Ethernet drop and continue (unidirectional) circuits have multiple destinations for use in broadcast circuit schemes. In broadcast scenarios, one source transmits traffic to multiple destinations, but traffic is not returned to the source.

TL1

TL1 Command Changes

New Commands

The RTRV-SHELFSTATcommand is added in Release 9.1.

Command Syntax Changes

The syntax of the following commands have changed:

- ED-EQPT syntax changed from:

  ED-EQPT[:<TID>]:<aid>:<CTAG>[:::PROTID=<protid>],[PRTYPE=<prtype>],[RVRTV=<rvrtv>],[RVTM=<rvtm>],[CARDMODE=<cardmode>],[PEERID=<peerid>],[REGENNAME=<regenname>],[PEERNAME=<peername>],[CMDMDE=<cmdmde>],[RETIME=<retime>],[SHELFROLE=<shelfrole>],[NEWSHELFID=<newshelfid>],[FRPROLE=<frprole>],[FRPSTATE=<frpstate>][:<pst>[,<sst>]];

  To:

  ED-EQPT[:<TID>]:<aid>:<CTAG>[:::PROTID=<protid>],[PRTYPE=<prtype>],[RVRTV=<rvrtv>],[RVTM=<rvtm>],[CARDMODE=<cardmode>],[PEERID=<peerid>],[REGENNAME=<regenname>],[PEERNAME=<peername>],[CMDMDE=<cmdmde>],[RETIME=<retime>],[SHELFROLE=<shelfrole>],[NEWSHELFID=<newshelfid>],[FRPROLE=<frprole>],[FRPSTATE=<frpstate>],[FRPHOLDOFFTIME=<frpholdofftime>][:<pst>[,<sst>]];

- ED-FSTE syntax changed from:

  ED-FSTE[:<TID>]:<src>:<CTAG>[:::FLOW=<flow>],[EXPDUPLEX=<expduplex>],[EXPSPEED=<expspeed>],[SELECTIVEAUTO=<selectiveauto>],[VLANCOS=<vlancosthreshold>],[IPTOS=<iptosthreshold>],[NAME=<name>],[CMDMDE=<cmdmde>],[SUPPRESS=<suppress>],[SOAK=<soak>],[LITIMER=<litimer>][:<pst>[,<sst>]];

  To:

ED-FSTE[:<TID>]:<src>:<CTAG>[:::FLOW=<flow>],[EXPDUPLEX=<expduplex>],[EXPSPEED=<expspeed>],[SELECTIVEAUTO=<selectiveauto>],[VLANCOS=<vlancosthreshold>],[IPTOS=<iptosthreshold>],[NAME=<name>],[CMDMDE=<cmdmde>],[SUPPRESS=<suppress>],[SOAK=<soak>],[LITIMER=<litimer>],[FREQ=<freq>],[LOSSB=<lossb>][:<pst>[,<sst>]];

- ED-NE-GEN syntax changed from:

  ED-NE-GEN[:<TID>]::<CTAG>[:::NAME=<name>],[IPADDR=<ipaddr>],[IPMASK=<ipmask>],[DEFRTR=<defrtr>],[IPV6ADDR=<ipv6addr>],[IPV6PREFLEN=<ipv6preflen>],[IPV6DEFRTR=<ipv6defrtr>],[IPV6ENABLE=<ipv6enable>],[IIOPPORT=<iiopport>],[NTP=<ntp>],[SUPPRESSIP=<suppressip>],[MODE=<mode>],[SERIALPORTECHO=<serialportecho>],[OSIROUTINGMODE=<osiroutingmode>],[OSIL1BUFSIZE=<osil1bufsize>],[OSIL2BUFSIZE=<osil2bufsize>];

  To:

  ED-NE-GEN[:<TID>]::<CTAG>[:::NAME=<name>],[IPADDR=<ipaddr>],[IPMASK=<ipmask>],[DEFRTR=<defrtr>],[IPV6ADDR=<ipv6addr>],[IPV6PREFLEN=<ipv6preflen>],[IPV6DEFRTR=<ipv6defrtr>],[IPV6ENABLE=<ipv6enable>],[IIOPPORT=<iiopport>],[NTP=<ntp>],[SUPPRESSIP=<suppressip>],[MODE=<mode>],[MSPUBVLANID=<mspubvlanid>],[MSINTLVLANID=<msintlvlanid>],[SERIALPORTECHO=<serialportecho>],[OSIROUTINGMODE=<osiroutingmode>],[OSIL1BUFSIZE=<osil1bufsize>],[OSIL2BUFSIZE=<osil2bufsize>],[BKUPNTP=<bkupntp>];

- ENT-EQPT syntax changed from:

  ENT-EQPT[:<TID>]:<aid>:<CTAG>::<aidtype>[:PROTID=<protid>],[PRTYPE=<prtype>],[RVRTV=<rvrtv>],[RVTM=<rvtm>],[CARDMODE=<cardmode>],[PEERID=<protid>],[REGENNAME=<regenname>],[CMDMDE=<cmdmde>],[TRANSMODE=<transmode>],[RETIME=<retime>],[SHELFROLE=<shelfrole>],[FRPROLE=<frprole>],[FRPSTATE=<frpstate>][:];

  To:

  ENT-EQPT[:<TID>]:<aid>:<CTAG>::<aidtype>[:PROTID=<protid>],[PRTYPE=<prtype>],[RVRTV=<rvrtv>],[RVTM=<rvtm>],[CARDMODE=<cardmode>],[PEERID=<protid>],[REGENNAME=<regenname>],[CMDMDE=<cmdmde>],[TRANSMODE=<transmode>],[RETIME=<retime>],[SHELFROLE=<shelfrole>],[FRPROLE=<frprole>],[FRPSTATE=<frpstate>],[FRPHOLDOFFTIME=<frpholdofftime>][:];

Command Response Changes

The following TL1 command responses have changed:

- RTRV-ALM-BITS response changes:

  <aid>,[<condtype>]:<condeff>,,,[<locn>],[<dirn>],,:,

  To:

  <aid>,[<aidtype>]:<ntfcncde>,<condtype>,<srveff>,[<ocrdat>],[<ocrtm>],[<location>],[<direction>]:[<desc>],

- RTRV-ALM-UCP response changes:

  <aid>:<ntfcncde>,<condtype>,<srveff>,,,,:[<desc>],

  To:

  <aid>:<ntfcncde>,<condtype>,<srveff>,[<ocrdat>],[<ocrtm>],,:[<desc>],

- RTRV-ALS response changes:

  <slot>,[<rslt>]:[<diagtype>],[<peer>],[<aid>],[<aidtype>]

To:

- RTRV-EQPT response changes:

  <aid>:<aidtype>,<equip>,[<role>],[<status>]:[<protid>],[<prtype>],[<rvrtv>],[<rvtm>],[<cardname>],[<ioscfg>],[<cardmode>],[<peerid>],[<regenname>],[<peername>],[<transmode>],[<retime>],[<shelfrole>],[<frprole>],[<frpstate>]:<pst>,[<sst>]

  To:

  <aid>:<aidtype>,<equip>,[<role>],[<status>]:[<protid>],[<prtype>],[<rvrtv>],[<rvtm>],[<cardname>],[<ioscfg>],[<cardmode>],[<peerid>],[<regenname>],[<peername>],[<transmode>],[<retime>],[<shelfrole>],[<frprole>],[<frpstate>],[<frpholdofftime>]:<pst>,[<sst>]

- RTRV-FSTE response changes:

  <aid>::[<adminstate>],[<linkstate>],[<mtu>],[<flowctrl>],[<optics>],[<duplex>],[<speed>],[<flow>],[<expduplex>],[<expspeed>],[<vlancosthreshold>],[<iptosthreshold>],[<name>],[<suppress>],[<soak>],[<soakleft>],[<selectiveauto>],[<litimer>]:<pst>,[<sst>]

  To:

  <aid>:[<role>],[<status>]:[<adminstate>],[<linkstate>],[<mtu>],[<flowctrl>],[<optics>],[<duplex>],[<speed>],[<flow>],[<expduplex>],[<expspeed>],[<vlancosthreshold>],[<iptosthreshold>],[<name>],[<suppress>],[<soak>],[<soakleft>],[<selectiveauto>],[<litimer>],[<lbcl>],[<opt>],[<opr>],[<freq>],[<lossb>],[<actflow>],[<actduplex>],[<actspeed>]:<pst>,[<sst>]

- RTRV-NE-GEN response changes:

  <[<ipaddr>],[<ipmask>],[<defrtr>],[<ipv6addr>],[<ipv6preflen>],[<ipv6defrtr>],[<ipv6enable>],[<iiopport>],[<ntp>],[<name>],[<swver>],[<load>],[<protswver>],[<protload>],[<defdesc>],[<platform>],[<secumode>],[<suppressip>],[<mode>],[<autopm>],[<serialportecho>],[<osiroutingmode>],[<osil1bufsize>],[<osil2bufsize>]

  To:

  [<ipaddr>],[<ipmask>],[<defrtr>],[<ipv6addr>],[<ipv6preflen>],[<ipv6defrtr>],[<ipv6enable>],[<iiopport>],[<ntp>],[<name>],[<swver>],[<load>],[<protswver>],[<protload>],[<defdesc>],[<platform>],[<secumode>],[<suppressip>],[<mode>],[<mspubvlanid>],[<msintlvlanid>],[<autopm>],[<serialportecho>],[<osiroutingmode>],[<osil1bufsize>],[<osil2bufsize>],[<net>],[<bkupntp>]

  To:

  <aid>:,,[<role>],[<status>]:<opticalPortType>,[<power>],[<oscpower>],[<iloss>],[<voamode>],[<voaattn>],[<voapwr>],[<voarefattn>],[<voarefpwr>],[<osri>],[<amplmode>],[<amplmodeFlg>],[<chpower>],[<chpowerFlg>],[<gain>],[<expgain>],[<expgainFlg>],[<refopwr>],[<offset>],[<reftilt>],[<reftiltFlg>],[<caltilt>],[<aseopwr>],[<dculoss>],[<awgst>],[<heatst>],[<name>],[<soak>],[<soakleft>],[<wrkchannels>],[<ratio>],[<raman_status>],[<raman_quality>],[<time>],[<date>],[<raman_restore_fc>],[<time_fc>],[<date_fc>],[<tdcu_fg>],[<tdcu_cg>]:<pst>,[<sst>]

Note In Software Release 9.1, the OSI TL1 commands are not supported.

TL1 ENUM Changes

ALM_THR

The following ALM_THR enum items are added:

- ALM_THR_ADD_HDEG => "ADD-HDEG"

- ALM_THR_ADD_HFAIL => "ADD-HFAIL"
- ALM_THR_ADD_LDEG => "ADD-LDEG"
- ALM_THR_ADD_LFAIL => "ADD-LFAIL"

ALM_THR is used in the following commands:

- RTRV-ALMTH-MOD2O
- SET-ALMTH-MOD2O

FRPHOLDOFFTIME

The following FRPHOLDOFFTIME enum items are added:

- FRPHOLDOFF_100MSEC => "100-MSEC"
- FRPHOLDOFF_1MSEC => "1-MSEC"
- FRPHOLDOFF_200MSEC => "200-MSEC"
- FRPHOLDOFF_2MSEC => "2-MSEC"
- FRPHOLDOFF_500MSEC => "500-MSEC"
- FRPHOLDOFF_50MSEC => "50-MSEC"
- FRPHOLDOFF_5MSEC => "5-MSEC"
- FRPHOLDOFF_DISABLED => "DISABLED"

FRPHOLDOFFTIME is used in the following commands:

- ED-EQPT
- ENT-EQPT
- RTRV-EQPT
- DLT-WDMANS

Related Documentation

Release-Specific Documents

- Release Notes for the Cisco ONS 15454, Release 9.1
- Release Notes for the Cisco ONS 15454 SDH, Release 9.1
- Release Notes for the Cisco ONS 15310-CL, Release 9.1
- Release Notes for the Cisco ONS 15310-MA SDH, Release 9.1
- Release Notes for the Cisco ONS 15600, Release 9.1
- Release Notes for the Cisco ONS 15600 SDH, Release 9.1
- Cisco ONS 15310-MA Software Upgrade Guide, Release 9.1

Platform-Specific Documents

- *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.

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.