



Release Notes for Cisco ONS 15310-MA Release 7.0.5

June 2008



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.

Release notes address closed (maintenance) issues, caveats, and new features for the Cisco ONS 15310-MA. For detailed information regarding features, capabilities, hardware, and software introduced with this release, refer to Release 7.0 of the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Procedure Guide*, *Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Manual*, *Cisco ONS SONET TLI Command Guide*, and the *Cisco ONS 15310-CL and Cisco ONS 15310-MA Troubleshooting Guide*. For the most current version of the Release Notes for Cisco ONS 15310-MA Release 7.0.5, visit the following URL:

http://www.cisco.com/en/US/products/hw/optical/ps2006/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-MA Release 7.0.5* since the production of the Cisco ONS 15310-MA System Software CD for Release 7.0.5.

No changes have been added to the release notes for Release 7.0.5.

Caveats

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

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.

CSCsc56694

IPPM enabled by CTC for an OCN trunk card is disabled automatically after two hours. This issue will be resolved in Release 8.0.

Alarms

CSCse85355

The NE should report alarms or conditions on ingress port not on any internal ports. Alarm detected at the internal ports (TERM) side will be ingress map to the MON side. So the NE raises the STS-MON/VT-MON and STS-TERM/VT-TERM alarms or conditions on the STS-MON/VT-MON ports, irrespective of the actual detection port (MON or TERM). If the user wants the customized severity to be reflected for a specific STS/VT alarms, the alarm profile entities of both STS-MON and STS-TERM, if available, should be changed to the same severity.

CSCsd52665

The NE should report alarms or conditions on ingress port not on any internal ports. Alarm detected at the internal ports (TERM) side will be ingress map to the MON side. So the NE raises the STS-MON/VT-MON and STS-TERM/VT-TERM alarms or conditions on the STS-MON/VT-MON ports, irrespective of the actual detection port (MON or TERM). If the user wants the customized severity to be reflected for a specific STS/VT alarms, the alarm profile entities of both STS-MON and STS-TERM, if available, should be changed to the same severity.

CSCsd56328

The NE should report alarms or conditions on ingress port not on any internal ports. Alarm detected at the internal ports (TERM) side will be ingress map to the MON side. So the NE raises the STS-MON/VT-MON and STS-TERM/VT-TERM alarms or conditions on the STS-MON/VT-MON ports, irrespective of the actual detection port (MON or TERM). If the user wants the customized severity to be reflected for a specific STS/VT alarms, the alarm profile entities of both STS-MON and STS-TERM, if available, should be changed to the same severity.

Electrical IO Card

CSCsh17691

The 3-DS3 / 84 DS1 pack does not output any DS3 rate signal, i.e. no pulses, while in the IS or IS, AINS states if a crossconnection to the port is not in effect. The pack should put out a DS3 AIS signal when not crossconnected, regardless of its state. This appears when the crossconnection to the port is not present. No workaround available. This issue will be resolved in Release 8.01.

Common Control Cards

CSCsc52028

The CTX 2500 card does not accept more than 52 ENE sessions. Figuring 16 ENE sessions per GNE session, the expected ENE logins for 7 GNE sessions is 112, whereas the CTX 2500 accepts only 52. This issue will be resolved in Release 8.0.

Alarms

CSCse85355

After setting the alarm profile to report UNEQ-V as CR, the alarm still reports as the default, MJ, in some instances. To see this, on a single ONS 15310-MA create a path protection VT circuit using a single source with a primary and secondary destination to create the path selector. Inject UNEQ-V into the protect path (for example, CTX2). This declares a minor UNEQ-V. Now inject UNEQ-V into the working path (for example, CTX1). A major UNEQ-V will be declared, rather than the CR that the alarm

profile is set to. If the UNEQ-V is injected into the working path first, then into the protect path, a CR UNEQ-V will be declared and is correct. The workaround is to apply profiles for UNEQ-V monitor and UNEQ-V term that both have the same severity desired. This issue will be resolved in a future release.

CSCsh20447

When you have two open slots and if you enable Alarms on open slots and do a retrieve all alarms from TL1 Session you can see only one alarm even though you have two open slots. In 7.04 load, in CTC Provisioning->defaults->node->general->RaiseAlarmOnOpenSlot set this flag to true. Open a TL1 session; give RETR-COND-ALL: C. This issue is expected to be fixed in a future release.

CSCsh22922

Create a path protection between 310ma and 454 nodes have a loopback for OC3 card in 454. Create a vt circuit from 310ma to OC3 in 454. Connect test set to ds1 and pump traffic on ds1 port. From the CTC do edit circuit option, in switch column give a Manual to Protection switch. MAN-REQ alarm rises with severity as MN/NA. Change the severity of this alarm from CTC and give APPLY. Do a SYNC option from CTC. Even though you changed the severity of the Alarm that wont reflect in Conditions Pane. If you do a switch from Manual to working this works fine. This issue will be resolved in Release 8.0.

CSCsh20419

When you have two OPEN SLOTS in 15310MA and if you enable alarms on Open slots you will see only one alarm getting raised in Condition Pane of CTC. In 7.04 load, in CTC Provisioning->defaults->node->general->RaiseAlarmOnOpenSlot, set this flag to true. Do retrieve in Conditions Pane. Only one alarm is raised, even though you have 2 open slots. This issue is expected to be fixed in a future release.

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.

CSCsc51017

When multiple TL1 GNE and ENE sessions are created on a 30+ node network, some of the TL1 sessions might continue to be displayed in the user login pane under the network view, even when the sessions have been closed. If this occurs, restart CTC. This issue will be resolved in a future release.

CSCsh24550

Issuing the RTRV-NE-IPMAP command with ALL aid from TL1 to a 15310MA node retrieves the IP of 454 on the other side of DCC more than once. Command that creates the problem: RTRV-NE-IPMAP:: ALL: A; This issue will be resolved in Release 8.0.

CSCsh21744

The performance Monitoring registers for the counts SASCPP, UASCPP, SESCPP, ESCP, and CVCPP are not initialized to zero. May lead to a Threshold Crossing Alert. 1. DS1-28-DS3-EC1-3 and DS1-84-DS3-EC1-3 cards on 15310MA. 2. The DS3 ports configured with C-BIT frame format. 3. Command which will create the problem INIT-REG-T3: T3-1-1:1:: CVCPP; or SASCPP or SESCPP or UASCP or ESCP.

Workaround: All the registers can be cleared at one go through the CTC or by the following TL1 command. INIT-REG-T3: T3-1-1:1: all. This issue is expected to be resolved in 8.01 release.

Resolved Caveats for Release 7.0.x

This section documents caveats resolved in Release 7.0.5.

Maintenance and Administration

CSCsg17018

The Inhibit FE loopback parameter for the mentioned cards should be set to true. (The check box should be checked.) Before you test this, a) Please delete the database. (FlmDeleteDb) b) And reboot the node. (Reboot)

You can check the parameter as mentioned below.

- Card View
- Maintenance Pane
- Loopback Pane
- Port pane on the card for which this is supported. (Mentioned in the bracket)

For 7.04 310MA

- DS1_28_DS3_EC1_3_LINE_CARD (DS3 Port)
- DS1_84_DS3_EC1_3_LINE_CARD (DS3 Port)

15454

- DS3XM_LINE_CARD (DS3)
- DS3XM12_LINE_CARD (DS3)
- DS3I_LINE_CARD (DS3I)
- DS3E_LINE_CARD (DS3)
- DS3_EC1_48_LINE_CARD (DS3 & EC1 Port)

DS1_E1_56_LINE_CARD (You can see these values on loopback pane itself)

CSCsi04127

When you upgrade nodes from R6.22 to R7.0.4, BITS-1 IN, BITS-2 IN, BITS-1 OUT, and BITS-2 OUT go into In-Service (IS), although the R6.2.2 line-timed nodes have all the BITS facilities set to Out-of-service (OOS), before the upgrade. This issue is resolved in Release 7.05 and 7.23.

CSCsi46648

The port labeling on the 15310 DS1 circuit is inconsistent with the DS1 labeling on the 15454 DS1 circuit.

In case of DS1 circuits created using DS1_84_DS3_EC1_3_LINE_CARD and DS1_28_DS3_EC1_3_LINE_CARD in 15310 MA the DS1 port information is displayed differently in the circuit table.

Workaround: The DS1 port information can be derived using the port and vt information displayed.

pDS1(1-28)/S1/V1-1 => port 1 (1-1 is the first port in the 1-28 range)

pDS1(1-28)/S1/V2-1 => port 2

pDS1(1-28)/S1/V7-4 => port 28 (last vt)

pDS1(29-56)/S1/V1-1 => port 29 (1-1 is first port in the 29-56 range)

The 28 VT 1.5s (DS1s) in each port range are in this order.

1-1, 2-1, ... 7-1, 1-2, 2-2, ... 7-2, 1-3, ... 7-4

<vt-group> - <vt-channel> where vt-group is 1-7 and vt-channel is 1-4

The formula is DS1 Port num = (X*28) + vt-group + ((vt-chan-1) * 7)

where X = 0 for 1-28 range, 1 for 29-56 range and 2 for 57-84 range

This issue is resolved in Release 7.05.

Electrical IO Cards

CSCsd59042

When upgrading the software from Release 6.x.x to Release 7.x.x, the DS3 and EC1-12 cards fail to load if the node name begins with the letters FL. Changing the node name resolves this issue.

TL1

CSCsg22884

This bug is about retrieval of Far end Performance Monitoring values through TL1 on the 15310MA on the cards DS1-28-DS3-EC1-3 and DS1-84-DS3-EC1-84. Now these are retrievable through TL1.

Path Protection

CSCsh77496

If path protection/SNCP circuits are created while path defects are present on path protection/SNCP trunks, then sometimes path protection/SNCP circuits may not switch and traffic outage is observed

Workaround: Avoid creating path protection circuits while faults are present on either of the path protection trunk ports. This issue is resolved in 6.03, 7.05 and 7.2.3

Electrical IO Cards

CSCsg23089

SF LED is ON even when all the DS3 or DS1 ports are in IS_AINS state. Expected behavior is, SF LED should be on only in IS state and if any of IS port has any alarms on it. In all other states it should be OFF. It is made consistent with expected behavior.

CSCsi56959

DS3 unidirectional traffic goes down when reverting from 8.x, 7.05 or higher versions.

The issue can be reproduced as follows :

-
- Step 1** A unidirectional STS circuit is connected between any two DS3 port in 15310MA with WBE cards running 7.04 version.
- Step 2** The traffic is up.
- Step 3** An upgrade is made to 7.05 or 8.x versions and then downgraded to 7.04 version.
- Workaround 1:
- Once the downgrade to 7.04 is done, hard reset the WBE card in 310MA that has the source port of the unidirectional circuit. This brings back the traffic.

Workaround 2:

1. Delete unidirectional circuit after the downgrade is done.
2. Create and delete a bidirectional circuit on the same source and destination, once.
3. Create the unidirectional circuit on the same port.

This brings back the traffic.



Note

This issue is valid only if we see the signal coming out of the destination port of the unidirectional circuit having DS3-AIS. For any other DS3 failures, this issue may not be the valid root cause.

New Features and Functionality

The following feature has been added to the ONS 15310-MA for Release 7.0.2.

Daylight Savings Time Support

With Release 7.0.2 CTC and TL1 display daylight savings time (DST) in keeping with the new DST rules applicable from 2007 forward. As described in the change in energy policy for the United States of America (USA), the DST start date will be the 2nd Sunday of March and the DST end date will be 1st Sunday of November.

Related Documentation

Release-Specific Documents

- *Release Notes for the Cisco ONS 15310-CL Release 7.0*
- *Release Notes for the Cisco ONS 15310-CL Release 7.0.x*
- *Release Notes for the Cisco ONS 15454 SDH Release 7.0.x*
- *Release Notes for the Cisco ONS 15327 Release 7.0.x*
- *Release Notes for the Cisco ONS 15600 Release 7.0.x*

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

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