Release Notes for *Cisco ONS 15200 Release 1.0*

This document addresses caveats and known system limitations for Release 1.0 of the Cisco ONS 15200 system.

Contents

New Features

Table 1 displays a brief listing of the new software features.

Table 1   New Software Features

Software	New Feature
Maintenance Manager Version 1.0 (1)	Initial release
MetroPlanner Version 1.02	Initial release
Sub-Network Manager Version 1.0(1) (Includes Web-based Interface, SNMP, and Command Line Interface.)	Initial release

CISCO SYSTEMS

Software Caveats

This section describes the software caveats known to exist at the time of publication.

CSCdt40095 – Performance Monitoring not Implemented

This section describes the CSCdt40095 caveat and known workarounds.

Software

Command Line Interface, Maintenance Manager, SNMP, Web-based Interface

Detail

Performance monitoring of analog parameters in the system is not implemented according to specification. It is not possible to log data or present logged data. This does not affect the monitoring of traffic performance.

Workaround

None.

CSCdt27012 – Wrong Alarm LED Displayed for DC Power Alarm at the NCB

This section describes the CSCdt27012 caveat and known workarounds.

Software

SNMP.

Detail

Yellow alarm LED should be displayed for the DC power alarm at the Network Control Board (NCB) module.

Workaround

None.

CSCdt27015 – Alarm Detection from the NEC

This section describes the CSCdt27015 caveat and known workarounds.

Software

Command Line Interface, Maintenance Manager, SNMP, Web-based Interface

Detail

When the lower warning threshold (LWT) is set below the lower alarm threshold (LAT) of a threshold-crossing alarm, no alarms will be detected for that signal. Similarly, the higher warning threshold (HWT) must never be set above the higher alarm threshold (HAT).

Workaround

None. The user must set alarm thresholds in the logical order.

CSCdt27007 – No NCB Status Reported

This section describes the CSCdt27007 caveat and known workarounds.

Software

Maintenance Manager, Web-based Interface

Detail

No NCB module status, other than the summary LED, is reported to the Maintenance Manager or Web-based Interface. The NCB module can be seen in the graphics, but cannot be reached.

Workaround

None.

CSCdt37672 – Ghost Paths

This section describes the CSCdt37672 caveat and known workarounds.

Module

Client Line Interface Port (CLIP) module

Detail

When the QDBS gets the same DCN address from many CLIP modules with different serial number and is "generally confused," ghost paths remain in the system even when the address conflict has been resolved.

Ghost paths are easily recognized because they don't display a channel number. Ghost paths are displayed as **clip_()**.

Workaround

Reboot the NCB module to remove ghost paths as necessary.

Hardware and Firmware Caveats

This section describes the firmware caveats known to exist at the time of publication.

CSCdt38994 – Jitter Transfer Function

This section describes the CSCdt38994 caveat and known workarounds.

Module

Client Line Interface Port (CLIP) module

Detail

Symptom: The ONS 15200 jitter transfer function is not compliant with ITU recommendation G.958.

Conditions: The requirement for the f_c parameter is 125 kHz for STM-1 and 2 MHz for STM-16.

The ONS 15200 has an f_c equal to 350 kHz and one equal to 5 MHz, respectively.

This caveat has no impact on the performance of the ONS 15200 system.

Workaround

None.

CSCdt37670 – DCN Address Clashes are not Resolved

This section describes the CSCdt37670 caveat and known workarounds.

Module

Client Line Interface Port (CLIP) module

Detail

Two single-channel unit (SCU) CLIP modules can be assigned the same address on the internal CAN bus when they are installed on separate CAN buses. When these buses are connected, these CLIP modules have the same address. This address conflict is not resolved in the current version 1.0(1).

Also, false paths can be created as a consequence of the address conflict. These ghost paths can remain in the system even after the conflict is over.

Workaround

When an SCU is added to a CAN bus, it must be connected to the bus before it is powered up. At least one of the CLIP modules must be powered off before the CAN buses are connected. The CLIP module can then be restarted.

System Limitations

This section describes the ONS 15200 system limitations known to exist at the time of publication.

Restricted Maintenance Manager Scope

Due to limited bandwidth of the internal data communication network, the Maintenance Manager is currently configured to manage only the CLIP modules on the local 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).

Multiple NCB Modules in the Same Network

It is currently not possible to have more than one of Network Control Board (NCB) module in a sub-network, because each NCB module will set itself up as 'primary subscriber'. The NCB module which was inserted last will be the only one receiving alarms, getting system data updated, etc.

Multiple Maintenance Manager Sessions in the Same Network

There are currently restrictions in running multiple Maintenance Manager sessions in a sub-network. because the last Maintenance Manager session started will, by default, tell all CLIP modules within its "realm" (one CAN + one QPP) that it is to receive all subscriptions of alarms (as maintenance subscriber). Because there is only one maintenance subscriber allowed, the old one becomes an ex-subscriber.

Conflicting MCU Labels

In the current implementation, the MCUs are automatically labeled in the management software. The name is constructed from the sub-rack ID (two bits) read from the MCU backplane and from the internal data communication address. There is no way for the system to distinguish between different MCUs in different locations at the same hop distance (CAN+QPP) with identical backplane jumper settings. As a consequence, the non-distinguished MCUs are superimposed on each other, and if the same slot has been used in both MCUs, one of the CLIP modules will be put in a separate list of CLIP modules found but not associated to any MCU or SCU.

However, the two CLIP modules discussed above have different CAN addresses and CAN be individually managed from the SNM.

Creation of Paths

The system performs an automatic inventory of active optical paths between two CLIP modules by matching the DCN addresses of the CLIP modules. This procedure does not always work. As a consequence some paths never appear in the user interfaces (Command Line Interface, Web-based Interface, or Maintenance Manager).

This situation will only occur in configurations where there are optical paths between CLIP modules and neither CLIP module is on the CAN bus to which the management system is connected.

User Interface on the Maintenance Manager

The graphics on the Maintenance Manager are updated slowly and, in some cases, flicker.

NEBS Testing

The equipment will be tested for compliance to NEBS level 3. The equipment has previously passed environmental testing that indicates that it will comply to ETSI and all NEBS level 2 requirements. It is expected that the system will also meet NEBS level 3 requirements, with the possible exception of the short term temperature requirements. A complete report summarizing the results of these tests, performed by the Swedish environmental lab, SEMKO, is available.

SNMP Interface

The SNMP interface is read-only. This will be amended in the next main release of the ONS 15200 management software.

System Clock

The Network Control Board (NCB) module's real time clock does not have a battery backup.

In addition, the real time clock may have up to 5 minutes of deviation in a 24-hour period. This limitation is addressed in a furure revision of the NCB module.

Inventory Data

In the current implementation, Cisco-style inventory data, read from the hardware, is presented incorrectly (random text) on the management interfaces. This will be corrected in a maintenance release.

Alarm Cut-off Button

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

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 *Release Notes for Cisco ONS 15200 Release 1.0*, 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.

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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. The toll-free Optical Networking Assistance number is 1-877-323-7368.

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.

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