



Release Notes for Cisco ONS 15540 ESPx 10-GE Transponder Module Functional Image Release 2.14

July 15, 2004

Cisco ONS 15540 ESPx transponder module (product numbers 15540-10GE-03B3xxx) functional image release 2.14

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This document describes the features and caveats for the functional image, release 2.14, for the 10-GE transponder modules used with the Cisco ONS 15540 ESPx.

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Introduction

The 10-GE transponder module is double the size of the 2.5-Gbps transponder module and requires a special 10-Gbps line card motherboard. You can install up to two 10-GE transponder modules in a 10-Gbps line card motherboard. Each transponder supports one client side and one trunk side interface. The client side is a short-reach 1310-nm interface and the trunk side interface is an ITU grid compliant 15xx-nm long-reach interface. The 10-GE transponder module is available in 32 versions, one for each of the 32 ITU channels it supports.

The 10-GE transponder module is not protocol independent; it supports the 802.ae specification for 10GBASE-LR interfaces.

Determining the Release of Your 10-GE Transponder Module Functional Image

This section describes the process you use to determine the existing functional image version installed on your 10-GE transponder module.

To display the functional image version in a 10-GE transponder module, use the following command in privileged EXEC mode:

Command	Purpose
show hardware detail	Displays the functional image information.

Example

The following example shows the functional image information for the 10-GE transponder module in slot 11/1:

```
Switch# show hardware detail
-----
15540_Chassis_with_external_patch_support named Switch, Date:17:18:01 IST Thu Jul 15 2004
-----

Slot Number           :11/1
Controller Type       :0x1014
On-Board Description  :10GE_1550_ch56_CSC029
Orderable Product Number:15540-10GE-03B329=
Board Part Number     :800-18941-03
Board Revision        :A0
Serial Number         :CNH07400018
Manufacturing Date    :10/14/2003
Hardware Version      :5.60
RMA Number            :
RMA Failure Code      :
Optical Rx Power Table :IDPROM based, calibrated
→ Functional Image Version:2.13
Function-ID           :0
Transceiver type      :Non-pluggable Transceiver
-----
<Information deleted>
```

Updating to a New Release

For detailed functional image upgrade instructions, refer to the *Cisco ONS 15540 ESPx Configuration Guide*. To download the 10-GE transponder module functional image, go to the following URL:

<http://www.cisco.com/cgi-bin/tablebuild.pl/ons15540-fpga>.



Caution

A functional image download cannot revert once the download is started. Do not interrupt the download procedure. Wait until it has finished before attempting any commands on the switch. Confirm that the download is done in binary mode and check file sizes before and after the download. A failure during reprogramming can result in the card being unusable.

Caveats

This section lists the caveat for the 10-GE transponder module functional image.

Use [Table 1](#) to determine the status of a particular caveat and its relevancy to your transponder module. In the table, “C” indicates a closed or fixed caveat, and “O” indicates an open caveat.



Note

Not all transponder module hardware types are affected by each caveat in Table 1. Check the specific caveat description for affected hardware types.

Table 1 Transponder Module Functional Image Release Caveat Reference

DDTS Number	Release 2.14	Release 2.13
CSCdz80042	C	O

Caveat Symptoms and Workarounds

This section describes the caveats for this release of the 10-GE transponder module functional image.

- [CSCdz80042](#)

Symptom: The **show interfaces waveethernetphy** command output may show a high receive power level on the trunk even when there is no input signal or cable connected to the card. This is only seen with 10-GE transponder modules with functional image version 2.13 and hardware versions 2.0-99, 3.0-99, or 4.0-99.

Workaround: Upgrade the 10-GE transponder module functional image to version 2.14 or later.

Related Documentation

Refer to the following documents for more information about the Cisco ONS 15540 ESPx:

- [Regulatory Compliance and Safety Information for the Cisco ONS 15500 Series](#)
- [Cisco ONS 15540 ESPx Planning Guide](#)
- [Cisco ONS 15540 ESPx Hardware Installation Guide](#)
- [Cisco ONS 15540 ESPx Optical Transport Turn-Up and Test Guide](#)
- [Cisco ONS 15540 ESPx Cleaning Procedures for Fiber Optic Connections](#)
- [Cisco ONS 15540 ESPx Configuration Guide](#)
- [Cisco ONS 15540 ESPx Command Reference](#)
- [Cisco ONS 15540 ESPx System Alarms and Error Messages](#)
- [Cisco ONS 15540 ESPx Troubleshooting Guide](#)
- [Network Management for the Cisco ONS 15540 ESPx](#)
- [Cisco ONS 15540 ESPx TLI Command Reference](#)
- [MIB Quick Reference for the Cisco ONS 15500](#)
- [Cisco ONS 15540 ESPx Software Upgrade Guide](#)

Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation at this URL:

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

You can access international Cisco websites at this URL:

http://www.cisco.com/public/countries_languages.shtml

Ordering Documentation

You can find instructions for ordering documentation at this URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpk/pdi.htm

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Ordering tool:

<http://www.cisco.com/en/US/partner/ordering/index.shtml>

- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

Documentation Feedback

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You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

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For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, Cisco Technical Support provides 24-hour-a-day, award-winning technical assistance. The Cisco Technical Support Website on Cisco.com features extensive online support resources. In addition, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not hold a valid Cisco service contract, contact your reseller.

Cisco Technical Support Website

The Cisco Technical Support Website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, 365 days a year at this URL:

<http://www.cisco.com/techsupport>

Access to all tools on the Cisco Technical Support Website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool automatically provides recommended solutions. If your issue is not resolved using the recommended resources, your service request will be assigned to a Cisco TAC engineer. The TAC Service Request Tool is located at this URL:

<http://www.cisco.com/techsupport/servicerequest>

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco TAC engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553 2447

For a complete list of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/techsupport/contacts>

Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is “down,” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- Cisco Marketplace provides a variety of Cisco books, reference guides, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:

<http://www.cisco.com/go/marketplace/>

- The Cisco *Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the Cisco Product Catalog at this URL:
<http://cisco.com/univercd/cc/td/doc/pcat/>
- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:
<http://www.ciscopress.com>
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<http://www.cisco.com/packet>
- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:
<http://www.cisco.com/go/iqmagazine>
- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:
<http://www.cisco.com/ipj>
- World-class networking training is available from Cisco. You can view current offerings at this URL:
<http://www.cisco.com/en/US/learning/index.html>

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