



Release Notes for the Cisco Fourth-Generation T1/E1 Voice and WAN Network Interface Module

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Overview

The Cisco Fourth-Generation T1/E1 Voice and WAN Network Interface Modules (NIMs) are interface cards that are inserted into the NIM slot of the Cisco 4451-X Integrated Services Routers and expand the capabilities of the router to provide data and voice support on T1/E1 trunks. The T1/E1 Voice and WAN Network Interface Module requires an onboard Cisco Packet Voice Digital Signal Processor Module (PVDM4) to support voice.

The Cisco PVDM4 is supported only on the Cisco 4451-X platform and can be plugged in to the single slot on the router motherboard or on the network interface module to provide voice services such as conferencing and transcoding.

System Requirements

The Cisco Fourth-Generation T1/E1 Voice and WAN Network Interface Modules and Cisco PVDM4s are supported on the Cisco 4451-X Integrated Services Router that runs on Cisco IOS XE Release 3.9S and later.

Open Caveats

This section describes the open caveats. In this section, the following information is provided for each caveat:

- **Symptom**—A description of what is observed when the caveat occurs.
- **Conditions**—The conditions under which the caveat has been known to occur.
- **Workaround**—Solutions, if available, to counteract the caveat.



Americas Headquarters:

Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

**Tip**

If you have an account on Cisco.com, you can also use the Bug Toolkit to find select caveats of any severity. To access the Bug Toolkit, log in to Cisco.com and go to http://www.cisco.com/pcgi-bin/Support/Bugtool/launch_bugtool.pl.

If the defect that you have requested cannot be displayed, this may be due to one or more of the following reasons: the defect number does not exist, the defect does not have a customer-visible description yet, or the defect has been marked Cisco Confidential.)

Open Caveats—Cisco IOS XE Release 3.9S

This section documents the unexpected behavior that may be seen with the Cisco Fourth-Generation T1/E1 Voice and WAN Network Interface Module on the Cisco 4451-X Integrated Services Router with Cisco IOS XE Release 3.9S.

- CSCuf21611
Symptoms: TDM voice calls are terminated when a T1/E1 NIM on a different slot is restarted or reloaded using OIR commands.
Conditions: Issuing OIR commands on a T1/E1 module in any NIM slot shuts down the voice ports on all other T1/E1 NIMs.
Workaround: There is no workaround.
- CSCuf34496
Symptoms: The router crashes when a T1/E1 module is started or reloaded with OIR when there are active TDM calls on a different T1/E1 module in the same router.
Conditions: Issuing OIR commands on a T1/E1 module when there are active calls on a different module.
Workaround: There is no workaround.
- CSCuf38058
Symptoms: NIM-8CE1T1-PRI has intermittent failure when reloading.
Conditions: Occurs when reloading the module.
Workaround: There is no workaround.
- CSCuf 52990
Symptoms: The network interface module does not respond to a show platform hardware subslot command and does not display accurate information for the show interface command.
Conditions: Occurs when there is data traffic.
Workaround: There is no workaround.
- CSCuf65800
Symptoms: Ping packet sizes of 955 and 956 bytes fail.
Conditions: Occurs when the cyclic redundancy check (CRC) on the serial interface is set to 16 bits.
Workaround: Configure the CRC to 32 bits.
- CSCug05013
Symptoms: Bert patterns 2^15 and 2^20-o153 sent between the T1/E1 NIM and a SPA-8XCET1/E1 card fail.

Conditions: Conducting a bert test between the T1/E1 NIM and SPA-8XCET1/E1 card with bert patterns of 2^15 and 2^20-o153.

Workaround: Choose a 2^5 inverted bert pattern on the SPA-8XCET1/E1 card when a bert pattern of 2^5 is chosen on the T1/E1 NIM card. There is no workaround for 2^20-o153 bert patterns.

Related Documentation

- *[Documentation Roadmap for the Cisco 4451-X Integrated Services Router](#)*
- *[Configuring the Cisco Fourth-Generation T1/E1 Voice and WAN Network Interface Module](#)*
- *[Installing the Cisco Fourth-Generation T1/E1 Voice and WAN Network Interface Module](#)*
- *[Installing the Cisco PVD4](#)*
- *[Software Configuration Guide for the Cisco 4451-X Integrated Services Routers](#)*
- *[Hardware Installation Guide for the Cisco 4451-X Integrated Services Routers](#)*

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:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as an RSS feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service. Cisco currently supports RSS Version 2.0.

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