



Release Notes for Cisco IOS Release, 15.2(4)EB

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These release notes include important information about the Cisco IOS Release, 15.2(4)EB, and any limitations, restrictions, and caveats that apply to it.

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Software Features

Zero Touch Deployment

During switch installation, the IOS configuration files, the SW image, the IOx Application configuration and its running states are saved and persist on the SD Flash: card. The SDFlash: card can be inserted into an IE4000 to bring the switch up to an operational state with the same configuration.



Zero Touch Replacement

During switch replacement scenario, the IOS configuration files, the IOS SW image, the IOx Application configuration and its running states are saved and persist on the SD Flash: card. The SDFlash: card can be inserted into a replacement IE4000 to bring the new switch up to an operational state with the same configuration.

GUI support for IOx

The IE4000 Device Manager supports IOx networking configuration, Application Management, specifically, MTConnect Agent, as well as the capability to launch the Local Manager.

MTConnect Agent

The open source C++ for MTConnect Agent, version 1.3, is packaged to run on the IE4000's IOx application hosting environment as a container. With the 512 MB RAM reserved for the application execution, the maximum number of MTConnect agents is 10.

Limitations and Restrictions

The IE4000 on-board flash: has only 128MB and the size of the SW tar image is approximately 110MB, the SD flash is the ONLY option to store any application related logs.

Important Notes

Caveats

The following sections provide information about caveats. You can click the issue number to view more information in the Cisco Bug Search tool (login required):

Open Caveats

Issue	Description	Workaround
CSCva38680	If power is interrupted or the switch is reloaded from IOS, during the approximately 5 minutes it takes IOx (application and agents) to start, there is a risk of SDFlash card corruption.	Keep a backup of the SDFlash card contents and then if the issue occurs reformat the SDFlash card and restore the backup.

Issue	Description	Workaround
CSCva07623	Different ip address should be assigned to vlan interface and IOx, but the switch does not display an error message if a same ip address is configured under vlan interface and IOx.	None
CSCuy92959	If you click on System info, in Local Manager, receive the following error: “Unable to get system health information.”	Click on System Info again.
CSCuz29829	Using the IOx Local Manager to install applications that take more than 30 min to download or activate will cause the browser session to timeout. However the process of downloading or activating will continue in the background and successfully complete. Re-login to the LM will eventually reflect that success. Currently the 30 min timeout is not configurable.	Log back into the IOx Local Manager and confirm the application is in Deployed or Activated state.
CSCva63884	The bootloader and IOS version currently used in production IE4000s does not support the Sync Drive feature (loading IOx Image from SD Card).	<ol style="list-style-type: none"> 1. Upgrade to the 15.2(4)EB IOS*.bin file and then reload the system. 2. Install the 15.2(4)EB IOx*tar file and reload the system
CSCva56226	IOx host ip address can't get assigned using a DHCP server.	Assign a static IOx host ip address.
CSCva60049	The software upgrade feature does not work correctly on out-of-box IE4000 units from the Device Manger.	Use the archive download-sw command to upgrade the switch from command line.

Documentation Updates

- [Related Documentation, page 3](#)

Related Documentation

Installation, Configuration, Maintenance, and Operation Guides

<http://www.cisco.com/c/en/us/support/switches/industrial-ethernet-4000-series-switches/tsd-products-support-series-home.html>

Online Help (available on the switch)

- Device Manager online help

Devnet for IOx:

- <https://developer.cisco.com/site/iox/>

SFP Information

- Compatibility Information:
www.cisco.com/en/US/products/hw/modules/ps5455/products_device_support_tables_list.html
- Installation Notes:
www.cisco.com/en/US/products/hw/modules/ps5455/prod_installation_guides_list.html

Obtaining Documentation, Obtaining Support, and Security Guidelines

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.

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