Release Notes for the Cisco Catalyst ESS9300 Embedded Series Switch – Release 17.6.1

The following release notes support the ESS9300. These release notes are updated to describe new features, limitations, troubleshooting, recommended configurations, caveats, and provide information on how to obtain support and documentation.

Revised August 17, 2021

Note: The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

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Product Overview

The ESS9300 is a Small Form Factor (SFF) Ruggedized GigE Embedded platform for tactical, outdoor and mobile environments. The compact design simplifies integration and offers the system integrator the ability to use the ESS9300 in a wide variety of applications. The Cisco ESS 9300 consists of one switch card. There are no cooling plates sold with it. It is up to the system integrator to design a thermal solution. The ESS-9300-10X-E board supports up to 10 ports of 10 GE fiber. Thermal power is 35 Watts.

Image Information

Note: You must have a Cisco.com account to download the software.

Cisco ESS9300 operates on the following Cisco IOS images:

- ie9k_iosxe.17.06.01.SPA.bin

Software Downloads

The latest image file for the ESS9300 is:

https://software.cisco.com/download/home/286327314

Major Enhancements

The following enhancements are added for release 17.6.1:

Additional SFP Support

There are five additional SFPs added.

- CWDM-SFP-1470=
- GLC-BX-U-I/GLC-BX-D-I
- SFP-10G-ER-I
- SFP-10G-ZR-I
- SFP-10G-T-X

RFC 4884 Support

RFC 4884 redefines selected ICMP error messages to support multi-part operation. A multi-part ICMP message carries all of the information that ICMP messages carried previously, as well as additional information that applications may require. As part of RFC 4884 support, 'length' field will be added in ICMP data structure while sending ICMP error message packets and extension header will be added if required. This feature is applicable to ICMPv4 and ICMPv6 messages.

Related Documentation

The following documentation is available:

- All of the Cisco ESS9300 documentation can be found here:

  https://www.cisco.com/c/en/us/support/switches/catalyst-ess9300-embedded-series/series.html

Feature Support

Support for RFC4884 ICMPv6 was added to the ESS3300, and also validated on ESS9300 Switches from Release 17.6.1.

RFC 4884 redefines selected ICMP error messages to support multi-part operation.

Caveats

Caveats describe unexpected behavior in Cisco IOS releases. Caveats listed as open in a prior release are carried forward to the next release as either open or resolved.

Note: You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can register for an account.

For more information about the Cisco Bug Search Tool, see the Bug Search Tool Help & FAQ.

Open Caveats

- **CSCvw59860**

  Port is going ERR-Disabled state with specific SFP variants.

  Symptoms: Occasionally, when connecting some specific SFPs (SFP-H10GB-CU1M/CU3M/CU5M) in ESS9300 where the peer box is also ESS9300, it is observed that link goes in err-disable state where these SFPs are connected and does not recover.

  Conditions: SFP connected should be on of the following:

  SFP-H10GB-CU1M

  SFP-H10GB-CU3M

  SFP-H10GB-CU5M

  Workaround: None.

Resolved Caveats

- **CSCvw13680**

  Alarm Output LED is set based on severity of input/facility Alarm.

  Summary: When alarm is asserted/triggered, Alarm Output LED color is set based on the severity of the Input/Facility Alarm.

  Alarm Output LED Color Settings:

  GREEN: No Alarm detected or Input Alarm detected with severity NONE

  RED: Input/Facility Alarm detected with severity Minor

  Flashing RED: Input/Facility Alarm detected with severity Major

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business impact you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco Marketplace.
- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Modifications to this product not authorized by Cisco could void the FCC approval and negate your authority to operate the product.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

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