



Release Notes for SONiC on Cisco 8000 Series Routers, Release 202605.1.1.0



Contents

SONiC on Cisco 8000 Series Routers, Release 202605.1.1.0 3

New software features **Error! Bookmark not defined.**

New hardware **Error! Bookmark not defined.**

Changes in behavior **Error! Bookmark not defined.**

Open issues..... **Error! Bookmark not defined.**

Known issues..... **Error! Bookmark not defined.**

Compatibility..... **Error! Bookmark not defined.**

Supported hardware **Error! Bookmark not defined.**

Related resources..... **Error! Bookmark not defined.**

Legal information **Error! Bookmark not defined.**

SONiC on Cisco 8000 Series Routers, Release 202605.1.1.0

Cisco SONiC Release 202605.1.1.0 introduces support for fabric card shut and unshut functionality, dynamic port breakout, and the Cisco 8223-64E-MO and 8122X-64EF-O platforms. This release enhances the SONiC platform on Cisco 8000 Series Routers by improving software reliability and deployment simplicity.

New software features

Table 1. SONiC on Cisco 8000 Series Routers, Release 202605.1.1.0

Product impact	Feature
Software Reliability	Support for Fabric Card Shut/Unshut Functionality
Software Reliability	Support for Dynamic Port Breakout on Q200/G200 Open PID Platforms
Software Reliability	Cisco SONiC Utility Docker - Application Extension Support
Hardware Reliability	Support for Remote Line Card Hardware Fault Detection and Handling on Route Processor
Software Reliability	Support for 8800 Modular Fabric Remediation in SONiC
Software Reliability	Support for NPU Host in Online Diagnostics Enhancements
Ease of Setup	Support for IP-in-IP DIP and SIP Subnet-Based Tunnel Termination with Scale of 128
Software Reliability	Support for Changing Differentiated Services Code Point via Egress Access Control List

New hardware

Table 2. New hardware support for SONiC on Cisco 8000 Series Routers, Release 202605.1.1.0

Hardware	Description
8122X-64EF-O	Cisco 8100 2 RU chassis with 64x800G or 128x400GbE OSFP800 ports, Open Software, without HBM, based on the G200x ASIC with 112 Gb/s SerDes.
8223-64E-MO	Cisco 8223 3 RU Router with 64x800G QSFP-DD800 ports, MACsec, and Open Software.

Changes in behavior

There are no changes in behavior in this release.

Open issues

There are no open issues in this release.

Known issues

Table 3. The following known issues apply to this release.

Known Issues	Description
Warmboot support on Cisco 8223 and 8122X-64EF-O platforms	Warmboot is not supported on the Cisco 8223 and 8122X-64EF-O platforms in this release.
Sub-port remains down after SoftOIR with 2x200G optics	When using 2x200G optics with firmware version 5.4.0, one sub-port may remain down after a SoftOIR operation.
Egress traffic is blocked by PFC frames on a lossy queue on the Cisco 8122 platform	On the Cisco 8122 platform, egress traffic may be blocked when Priority Flow Control (PFC) frames are received on a lossy queue.

Compatibility

This table outlines the versions of various components included in this release.

Table 4. Component version for SONiC on Cisco 8000 Series Routers, Release 202605.1.1.0

Component	Version
Linux Kernel	6.12.41+deb13-sonic-amd64
SAI API	1.18.1
FRR	10.5.4-sonic-0
LLDP	1.0.16-1+deb12u1
TeamD	1.31-1
SNMPD	5.9.4+dfsg-2+deb13u1
Python	3.13.5-1

Component	Version
SYNCD	1.0.0
swss	1.0.0
Radvd	1:2.20-1+b1
ISC-DHCP	4.4.3-P1-2
sonic-gnmi version	0.1
redis-server	5:8.0.2-3+deb13u3
redis-tools version	5:8.0.2-3+deb13u3
eventd version	1.0.0-0
mgmt-framework version	1.0-01

Supported hardware

Table of supported hardware components and the minimum required software versions.

Table 5. Supported hardware for SONiC on Cisco 8000 Series Routers, Release 202605.1.1.0

Part Number	Description
8102-64H-O	Cisco 8100 2 RU Chassis with 64x100G QSFP28 with Open Software and without HBM on Q200 Silicon.
8101-32FH-O-C01	Cisco 8100 1 RU Chassis with 32x400G QSFP-DD, Open Software, and without HBM on Q200 Silicon.
8101-32FH-O	Cisco 8100 1 RU Chassis with 32x400G QSFP56-DD with Open Software and without HBM on Q200 Silicon.
8201-32FH-O	Cisco 8200 32x400G QSFPDD 1RU Fixed System w/HBM

Part Number	Description
8122-64EHF-O	Cisco 8100 2 RU Chassis with 64x800G or 128x400GbE OSFP800 with open Software without HBM based on G200 ASIC with 112Gb Serdes
8122X-64EF-O	Cisco 8100 2 RU chassis with 64x800G or 128x400GbE OSFP800 ports, Open Software, without HBM, based on the G200x ASIC with 112 Gb/s SerDes.
8102-28FH-DPU-O	Cisco 8100 28x400G QSFPDD DPU enabled, 2RU Fixed Switch, with open Software without HBM
8223-64E-MO	Cisco 8223 3 RU Router with 64x800G QSFP-DD800 ports, MACsec, and Open Software.

Related resources

Table 6. Related resources

Resource	Description
Explore SONiC on Cisco 8000 Series Routers	Provides documentation for installing and deploying SONiC on Cisco 8000 Series Routers.
Explore Cisco 8000 SONiC on Interactive Python Notebooks	Introduces use-case-based documentation for SONiC through Learning Labs, offering guidance on use cases and configurations to facilitate deployment. Additionally, it enables experimentation and customization to meet specific network requirements.
Install SONiC on Cisco 8000 Routers	Provides guidance on installing a new SONiC image on Cisco 8000 series routers, covering two installation methods: Open Network Install Environment (ONIE) and the sonic-installer command.
Cisco 8000 Series Routers Data Sheet	Provides detailed specifications and feature information for Cisco 8000 Series Routers in the Data Sheet.
Cisco Software Download Center	Provides SONiC image download options for Cisco 8000 Series Routers.
Explore SONiC on Cisco 8000 Series Routers	Provides documentation for installing and deploying SONiC on Cisco 8000 Series Routers.
Explore Cisco 8000 SONiC on Interactive Python Notebooks	Introduces use-case-based documentation for SONiC through Learning Labs, offering guidance on use cases and configurations to facilitate deployment. Additionally, it enables experimentation and customization to meet specific network requirements.

Legal information

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers.

© 2026 Cisco Systems, Inc. All rights reserved.