



# Release Notes for SONiC on Cisco 8000 Series Routers, Release 202405.1.3.0

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# SONiC on Cisco 8000 Series Routers, Release 202405.1.3.0

This release introduces incremental quality enhancements across all supported Cisco 8000 Series platforms.

## New software features

This release adds support for displaying fan IDPROM serial number, version, and fan direction information in the **show platform inventory** command for the 8122-64EH and 8122-64EHF platforms.

## Supported hardware

In this release, Cisco supports installing Software for Open Networking in the Cloud (SONiC) on these Product IDs on the Cisco 8000 series routers:

**Table 1.** Supported Product IDs for SONiC 202405.1.3.0

Product ID	Description
8101-32FH-O	Cisco 8100 1 RU Chassis with 32x400G QSFP56-DD 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.
8102-64H-O	Cisco 8100 2 RU Chassis with 64x100G QSFP28 with Open Software and without HBM on Q200 Silicon.
8122-64EH-O	Cisco 8100 2 RU Chassis with 64x800G or 128x400GbE QSFP-DD800 with Open Software and without HBM.
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.
8102-28FH-DPU-O	<p>This first-generation Smart Switch features the Cisco Silicon One Q200L switching processor and an AMD DSC-200 Data Processing Unit (DPU) in a two-rack unit form factor.</p> <p>It provides a total network bandwidth of 12.8 Tbps, consisting of 11.2 Tbps for switching and 1.6 Tbps for DPU processing. The switch is equipped with 28 QSFP-DD 400 GbE ports.</p>

## Compatibility

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

**Table 2.** Component version for SONiC 202405.1.3.0

Component	Version
Linux Kernel	6.1.0-22-2-amd64

Component	Version
SAI API	1.13.0
FRR	8.5.4-sonic-0
LLDP	1.0.16-1+deb12u1
TeamD	1.31-1
SNMPD	5.9.3+dfsg-2
Python	3.11.2-1+b1
SYNCD	1.0.0
swss	1.0.0
Radvd	1:2.19-1+b1
ISC-DHCP	4.4.3-P1-2
sonic-gnmi version	0.1
redis-server	5:7.0.15-1~deb12u3
redis-tools version	5:7.0.15-1~deb12u3
eventd version	1.0.0-0
mgmt-framework version	1.0-01

## Open issues

This table lists the open issues for the product IDs 8122-64EH-O and 8122-64EHF-O in this release:

**Table 3.** Open issues for SONiC 202405.1.3.0

Known Issue	Description
Stricter policer policy	The Cisco 8122-64EH-O router enforces a stricter policer policy. To compensate, configure the Class of Service (CoPP) policy to accommodate a rate 1.7 times the anticipated punt rate (in packets per second).
MTU modification and drop counters	The default Maximum Transmission Unit (MTU) modification functions as expected on the Cisco 8122-64EH-O router; however, drop counters do not increment.

Known Issue	Description
QoS configuration on PIE ports	<p>If the DEVICE_NEIGHBOR table lacks port entries, QoS configuration is incorrectly applied to all ports, including PIE ports, which do not support QoS.</p> <p>SONiC does not handle errors when QoS configuration fails on PIE ports.</p> <p>The necessary fix is missing from the SONiC branch (see <a href="#">Pull Request #21036 on the sonic-net/sonic-buildimage repository</a>: "Exclude PIE ports from buffer and qos configuration").</p> <p><b>Workaround:</b></p> <p>To prevent QoS and buffer configuration issues on unsupported ports, define the ports in the DEVICE_NEIGHBOR table before applying QoS and buffer configurations. For example:"</p> <p>For example:</p> <pre>"DEVICE_NEIGHBOR": {     "Ethernet32": {         "name": "Ixia",         "port": "Card1/Port1"     },     "Ethernet96": {         "name": "Ixia",         "port": "Card1/Port2"     } }</pre>
MAC learning	Line card VLANs with port channels might have missing MAC entries in the Forwarding Database (FDB) table.
Build-Your-Own (BYO) bundle compatibility	<p>The Build-Your-Own (BYO) bundle for the 8122-64EH and 8122-64EHF platforms is compatible with the 202405 Azure SONiC build image up to SHA1 ec0742534c45bc012bcd0551adc8029d7d9f87ed (dated April 4, 2025) or earlier.</p> <p>To ensure compatibility with newer SHA1 versions, Azure SONiC build image <a href="#">PR #21924</a> must be reverted during the SONiC image build process.</p>

## Related resources

**Table 4.** Additional content

Document	Description
<a href="#">Explore SONiC on Cisco 8000 Series Routers</a>	Provides documentation for installing and deploying SONiC on Cisco 8000 Series Routers.
<a href="#">Explore Cisco 8000 SONiC on Interactive Python Notebooks</a>	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.
<a href="#">Install SONiC on Cisco 8000 Routers</a>	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.
<a href="#">Cisco 8000 Series Routers Data Sheet</a>	Provides detailed specifications and feature information for Cisco 8000 Series Routers in the Data Sheet.
<a href="#">Cisco Software Download Center</a>	Provides SONiC image download options for Cisco 8000 Series Routers.

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