



Release Notes for SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1



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SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1

Cisco SONiC Release 202405cz.2.3.1 introduces support for Support for IPv6 Virtual Tunnel End Point, Upstream Validation Support for VXLAN EVPN with Multi-Host, and Upstream Validation for Artificial Intelligence and Machine Learning Feature Set. This release enhances the SONiC platform on Cisco 8000 Series routers by improving software reliability and API integration.

New software features

Table 1. SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1

Product impact	Feature
Upgrade	Support for IPv6 Virtual Tunnel End Point
Upgrade	EVPN-VxLAN: IPv6 underlay
Upgrade	EVPN-VXLAN: Enhanced IPv6 Tunnel Support
Upgrade	EVPN-VXLAN: Support for VxLAN Tunnel IPv4 and IPv6
Software Reliability	Enhanced DHCP Relay Scalability
Upgrade	Support for Nvidia SuperNIC SPC-X Capability Through SuperNIC Handshake Integration
Upgrade	Capability Negotiation Enhancement via Link Layer Discovery Protocol
Upgrade	Support for Interface Dampening and Debounce Timer in SONiC
Upgrade	Support for SONiC Ansible Facts Module
Upgrade	Memory Trend Monitoring and High CPU Syslog Detection in SONiC
Upgrade	OpenConfig gNMI Support for Management Information Bases
Upgrade	Enhanced Manageability for OC System and Platform Models
Upgrade	Multi-Homing Express Reboot Support Enhancements

New hardware

There is no new hardware introduced in this release.

Changes in behavior

There are no changes in behavior in this release.

Resolved issues

Table 2. Resolved issues for SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1

Bug ID	Description
CSCwu67685	DHCP packets dropped due to UDP checksum is empty.
CSCwu99972	L2 traffic not passing across fabric links between leaf switches
CSCwv00216	Traffic forwarding issues after adding static route in two switches single-homed.
CSCwu14664	Communitation lost from external network to host due to MAC sync issues after host IP address change
CSCwu66953	Hyperfabric Transceiver Linkup Fails
CSCwu99445	Fans in exhaust configuration, reporting problem with speeds, PWM and RPMs.
CSCwv20298	Local neighbor is not restored after an overlay EVPN/BGP /32 that suppressed it is withdrawn
CSCwv22503	Optics Not Detected On Hyperfabric HF6100-32D

Open issues

Table 3. Open issues for SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1

Bug ID	Description
CSCwv30133	Port using QSFP-40/100-SRBD in 100G mode is not coming up after image upgrade to 20260607
CSCwv00025	Port using QSFP-100G-CUXM is not coming up between HF6100-32D and non-Hyperfabric platforms

Known issues

Table 4. Known issues for SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1

Known Issues	Description
Express Reboot and Log Rotation Timer Coincidence	In an intermittent timing condition where the log rotation timer expiry exactly coincides with the Express Reboot process, the dockers may perform a cold reboot instead of an express reboot. To prevent this, restart the log rotation timer before the Express Reboot command is triggered.
Intermittent Traffic Loss During Express Reboot	During express reboot, in rare scenarios, a few traffic streams may experience a loss of more than one second. This occurs just after node boots up after express reboot. The system automatically recovers these flows within a few seconds without requiring manual intervention.
Missing MAC in Dataplane During Route Churn	During an intermittent condition with significant route churn, a MAC address may be present in the control plane but missing in the dataplane, causing L2 traffic to be handled as BUM traffic instead of unicast. To resolve this, execute the command <code>vttysh -c "clear bgp l2vpn evpn <neighbor address>"</code> .

Compatibility

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



Table 5. Component version for SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1

Component	Version
Linux Kernel	6.1.0-11-2-amd64
SAI API	1.14.0
FRR	8.5.4
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~deb12u4
redis-tools version	5:7.0.15-1~deb12u4
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 6. Supported hardware for SONiC on Cisco 8000 Series Routers, Release 202405cz.2.3.1

Part Number	Description
8102-64H-O	Cisco 8100 2 RU Chassis with 64x100G QSFP28 with Open Software and without HBM on Q200 Silicon.

Related resources

Table 7. 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.

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