Release Notes for SONiC on Cisco 8000 Series Routers, Release 202505c.1.1.0

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SONiC on Cisco 8000 Series Routers, Release 202505c.1.1.0

Cisco SONiC Release 202505c.1.1.0 for Cisco 8000 Series Routers enhances platform reliability and API integration through comprehensive GNMI-OC XPath support across core routing and system management domains. In addition, it introduces advanced flowlet and per-packet load balancing feature on multiple ASICs. This release streamlines network management through a unified GNMI framework and robust serviceability features, ensuring a scalable foundation for high-performance deployments.

New software features

Table 1. SONiC on Cisco 8000 Series Routers, Release 202505c.1.1.0

Product impact	Feature
Software Reliability	GNMI-OC DHCP Relay XPath Support Enhancements
Software Reliability	GNMI Over Cloud VRF XPath Support
Ease of Setup	Enhanced GNMI Operational Configuration Framework
Ease of Setup	Support for GNMI OpenConfig Routes XPath Configuration
API Experience	Support for GNMI-OC SVI XPath Integration
Software Reliability	Support for GNMI-OC Layer 3 Access XPaths
API Experience	Support for GNMI-OC BFD XPath Integration
API Experience	Support for GNMI-OC Access Control List XPath Integration
Software Reliability	GNMI-OC Telemetry Framework Support
Software Reliability	Support for GNMI-OC BGP XPaths
Software Reliability	GNMI-OC System XPath Support
Software Reliability	Support for GNMI-OC LLDP XPaths
Ease of Setup	SONiC Support for Flowlet and Per-Packet Load Balancing
Ease of Setup	Support for GNMI configuration Framework

New hardware

There is no new hardware introduced in this release.

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Changes in behavior

There are no changes in behavior in this release.

Open issues

Table 2. Open issues for Release 202505c.1.1.0

Component	Version
Warmboot support	Warmboot is not supported on Cisco 8122-64EHF and 8122-64EHF-O.
Unsupported show commands	These commands are not fully supported on Cisco 8122-64EHF and 8122-64EHF-O: • show platform npu histogram sms • show platform npu histogram sqg • show platform npu histogram tc • show platform npu temperatures
Syseeprom command	show platform syseeprom returns an incorrect value for device version 0x26 on Cisco 8122-64EHF and 8122-64EHF-O.

Known issues

There are no known issues in this release.

Compatibility

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

Table 3. Component version for SONiC on Cisco 8000 Series Routers, Release 202505c.1.1.0

Component	Version
Linux Kernel	6.1.123-1
SAI API	1.16.1 (SAI_MAJOR=1, SAI_MINOR=16, SAI_REVISION=1)
FRR	10.3-sonic-0
LLDP	1.0.16-1+deb12u1
TeamD	1.31-1
SNMPD	5.9.3+dfsg-2+deb12u1

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Component	Version
Python	3.11.2
SYNCD	1.0.0
swss	1.0.0
Radvd	2.19-1+b1
ISC-DHCP	4.4.3-P1-2
sonic-gnmi version	0.1
redis-server	7.0.15-1~deb12u4
redis-tools version	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 4. Supported hardware for SONiC on Cisco 8000 Series Routers, Release 202505c.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.
8122-64EHF-O	Cisco 8100 2 RU Chassis with 64x 800G (2x 400G OSFP800) with Open Software and without HBM on G200 Silicon.

Related resources

Table 5. Related resources

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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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