



New and Changed Information for Segment Routing Features

This table summarizes the new and changed feature information for the *Segment Routing Configuration Guide for Cisco NCS 5500 Series Routers*, and lists where they are documented.

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New and Changed Segment Routing Features-24.x.x

Segment Routing Features Added or Modified in IOS XR Release 24.x.x

Feature	Description	Introduced/Changed in Release	Where Documented
Flexible algorithm with bandwidth optimization	This feature is introduced.	Release 24.4.1	Flexible algorithm with bandwidth optimization
SR-TE policy with enhanced flexible algorithm metric types	This feature is introduced.	Release 24.4.1	SR-TE policy with enhanced flexible algorithm metric types
Segment routing Tree-SID interoperability and SR-P2MP enhancements	This feature is introduced.	Release 24.4.1	Segment routing Tree-SID interoperability and SR-P2MP enhancements
VRF-to-VRF route leaking in SRv6 core	This feature is introduced.	Release 24.4.1	VRF-to-VRF route leaking in SRv6 core
Delay and synthetic loss measurement for GRE tunnel interfaces	This feature is introduced.	Release 24.4.1	Delay and synthetic loss measurement for GRE tunnel interfaces
Fallback delay advertisement	This feature is introduced.	Release 24.4.1	Fallback delay advertisement
Far-end delay metrics in one-way measurement mode	This feature is introduced.	Release 24.4.1	Measurement Modes

Feature	Description	Introduced/Changed in Release	Where Documented
SRv6 double recursion for multilayer BGP underlay	This feature is introduced.	Release 24.4.1	SRv6 double recursion for multilayer BGP underlay
BGP Signaling for co-existence of IP routes	This feature is introduced.	Release 24.3.1	BGP Signaling for co-existence of IP routes with or without SRv6 SID
SRv6 Traffic Accounting for NCS 5700	This feature is introduced.	Release 24.3.1	SRv6 Traffic Accounting
Delay Measurement Using Software Timestamp	This feature was introduced.	Release 24.3.1	Delay Measurement Using Software Timestamp
Liveness Monitoring for IP Endpoint over SRv6 Network on Cisco NCS 5508 and Cisco NCS 5700 Series Routers	This feature was introduced.	Release 24.3.1	IP Endpoint Liveness Monitoring
Delay Measurement for IP Endpoint over SRv6 Network on Cisco NCS 5508 and Cisco NCS 5700 Series Routers	This feature was introduced.	Release 24.3.1	Delay Measurement for IP Endpoint
SRv6 Traffic Class DSCP Marking Enhancement for QoS	This feature was introduced.	Release 24.2.1	Configuring SRv6
User-Defined Generic Metric Support for IS-IS Flex Algo	This feature is introduced.	Release 24.2.1	User-Defined Generic Metric Support for IS-IS Flex Algo
Display Neighbor Router Capabilities in OSPF Networks	This feature is introduced.	Release 24.2.1	Display Neighbor Router Capabilities in OSPF Networks
Data Plane Validation for SR-MPLS IPv6-based Controller Instantiated LSPs	This feature is introduced.	Release 24.2.1	Data Plane Validation Support for SR-MPLS IPv6-based LSPs
SR ECMP-FEC Optimization for IPv6 Prefixes	This feature is introduced.	Release 24.2.1	Segment Routing ECMP-FEC Optimization
MPLS OAM support for SR-TE Policies using MPLS IPv6-based LSPs	This feature is introduced.	Release 24.2.1	MPLS OAM support for SR-TE Policies using MPLS IPv6-based LSPs

Feature	Description	Introduced/Changed in Release	Where Documented
Liveness Monitoring for IP Endpoint over SRv6 Network	This feature is introduced.	Release 24.2.1	IP Endpoint Liveness Monitoring
Delay Measurement for IP Endpoint over SRv6 Network	This feature is introduced.	Release 24.2.1	Delay Measurement for IP Endpoint
Dual-Stack Support with SRv6 Unicast and IPv4 Multicast Core	This feature is introduced.	Release 24.2.1	Dual-Stack with SRv6 Unicast and IPv4 Multicast Core
Reporting of SR-TE Policies Using BGP-Link State for SRv6	This feature is introduced.	Release 24.1.1	Reporting of SR-TE Policies Using BGP-Link State for SRv6
Path Maximum Transmission Unit (MTU) Discovery for SRv6 Encapsulated Packets	This feature is introduced.	Release 24.1.1	Path Maximum Transmission Unit (MTU) Discovery for SRv6 Encapsulated Packets
ISIS Flexible Algorithm UCMP Support	This feature is introduced.	Release 24.1.1	IS-IS Flexible Algorithm UCMP Support
Synthetic Loss Measurement	This feature is introduced.	Release 24.1.1	Synthetic Loss Measurement
SR-MPLSv6 Traffic Engineering	This feature is introduced.	Release 24.1.1	SR Policy Path Computation for IPv6
Delay Measurement on NCS-57C3-MOD Fixed Port Routers	This feature is introduced.	Release 24.1.1	Link Delay Measurement
Exclude Network Resources during Path Computation over SR-TE Policies	This feature was introduced.	Release 24.1.1	Exclude Network Resources during Path Computation over SR-TE Policies
Configure the Shortest Path for Disjoint Candidate Paths	This feature was introduced.	Release 24.1.1	Configure the Shortest Path for Disjoint Candidate Paths
Enable Strict Disjointness for SR-TE Policies in the PCE	This feature was introduced.	Release 24.1.1	Enable Strict Disjointness for SR-TE policies in the PCE

Feature	Description	Introduced/Changed in Release	Where Documented
Identical Route Distinguisher on MPLS and SRv6 L3 Services between MPLS and SRv6 Domains	This feature was modified.	Release 24.1.1	SRv6/MPLS L3 Service Interworking Gateway