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.

New and Changed Segment Routing Features

Segment Routing Features Added or Modified in IOS XR Release 7.3.x

Feature	Description	Introduced/Changed in Release	Where Documented
Data Plane Validation for SR-MPLS IPv6-based Controller Instantiated LSPs	You can now verify the network configuration and paths and policies set up, without interrupting or potentially disrupting live network traffic, for SR-MPLS (Segment Routing over Multiprotocol Label Switching) IPv6-based Label Switched Paths (LSPs). With this feature, you can validate controller instantiated LSPs programmed directly into the forwarding hardware.	Release 7.3.6	

Feature	Description	Introduced/Changed in Release	Where Documented
BGP Best Path Computation using SR Policy Paths	BGP selects the best path from the available pool of paths such as iBGP, eBGP, color, or noncolor paths with native next hop and SR policy next hop. BGP uses either native next hop or an SR policy next hop for best path computation.	Release 7.3.4	BGP Best Path Computation using SR Policy Paths
Improved Segment List Information for Inactive or Invalid Policies	This feature provides for displaying detailed segment list information, and also lists information on invalid and inactive policies. This allows you to determine if the policies have been received correctly, to the SR-TE policies with explicit path.	Release 7.3.3	SR-TE Policy with Explicit Path
Support for SRv6 Micro-Segments (uSID) and SRv6 Full-length Segments	This release supports both SRv6 Micro SIDs (uSID) and SRv6 Base/Full-length SIDs.	Release 7.3.2	Configure Segment Routing over IPv6 (SRv6) with Full-Length SIDs Configure Segment Routing over IPv6 (SRv6) with Micro-SIDs
SRv6/MPLS L3 Service Interworking Gateway (SRv6 uSID)	This feature is introduced.	Release 7.3.2	
SRv6/MPLS L3 Service Interworking Gateway (SRv6 Full-Length SID)	This feature is introduced.	Release 7.3.2	SRv6/MPLS L3 Service Interworking Gateway
SRv6/MPLS Dual-Connected PE (SRv6 Full-Length SID)	This feature is introduced.	Release 7.3.2	
SRv6/MPLS Dual-Connected PE (SRv6 uSID)	This feature is introduced.	Release 7.3.2	

Feature	Description	Introduced/Changed in Release	Where Documented
SRv6 Services: EVPN VPWS — All-Active Multi-Homing (SRv6 uSID)	This feature is introduced.	Release 7.3.2	
SRv6-Services: VPNv4/VPNv6 Dual-Stack Support	This feature is introduced.	Release 7.3.2	Configuring SRv6 BGP-Based Services
Segment Routing Treetrace Enhancements	This feature is introduced.	Release 7.3.2	Segment Routing Treetrace Enhancements
SR-TE PCE Groups	This feature is introduced.	Release 7.3.2	Configure SR-TE PCE Groups
BGP PIC over SR-TE	This feature is introduced.	Release 7.3.2	*SR-TE* Usage Guidelines and Limitations
Microloop Avoidance for OSPF Flexible Algorithm	This feature is introduced.	Release 7.3.2	Calculation of Flexible Algorithm Path
Segment Routing Conditional Prefix Advertisement for OSPF	This feature is introduced.	Release 7.3.1	Conditional Prefix Advertisement
Link Delay Measurement with IPv6 Link Local Address	This feature is introduced.	Release 7.3.1	Link Delay Measurement
SRv6 Micro-Segment (uSID)	This feature is introduced.	Release 7.3.1	
SRv6 Services: IPv6 L3VPN	This feature is introduced.	Release 7.3.1	SRv6 Services: IPv6 L3VPN
SRv6 Services: BGP Global IPv6	This feature is introduced.	Release 7.3.1	SRv6 Services: IPv6 BGP Global
Weighted Anycast SID-Aware Path Computation	This feature is introduced.	Release 7.3.1	Weighted Anycast SIDs
Prefer Manual Adj-SID in Path Calculation	This feature is introduced.	Release 7.3.1	SR-TE Policy Path Types
Multicast VPN: Tree-SID MVPN With TI-LFA	This feature is introduced.	Release 7.3.1	Multicast VPN: Tree-SID MVPN With TI-LFA
SR Performance Measurement Named Profiles	This feature is introduced.	Release 7.3.1	SR Performance Measurement Named Profiles

Feature	Description	Introduced/Changed in Release	Where Documented
SR OAM for SR Policy (Policy Name / Binding SID / Custom label stack)	This feature is introduced.	Release 7.3.1	SR OAM for SR Policy (Policy Name / Binding SID / Custom label stack)
Cumulative Metric Bounds (Delay-Bound Use-Case)	This feature is introduced.	Release 7.3.1	Cumulative Metric Bounds (Delay-Bound Use-Case)
SR-MPLS over GRE as TI-LFA Backup Path	This feature is introduced.	Release 7.3.1	SR-MPLS over GRE as TI-LFA Backup Path