



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 ASR 9000 Aggregation Services Routers*, and lists where they are documented.

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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
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

Feature	Description	Introduced/Changed in Release	Where Documented
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 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	
SRv6 Services: EVPN VPWS — All-Active Multi-Homing (SRv6 uSID)	This feature is introduced.	Release 7.3.2	
SRv6 Services: EVPN VPWS — All-Active Multi-Homing (SRv6 Full-Length SID)	This feature is introduced.	Release 7.3.2	SRv6 Services: EVPN VPWS — All-Active Multi-Homing
BGP-LU Inter-AS Option-C Interworking with LDP and IGP SR-MPLS using Proxy BGP-SR	This feature is introduced.	Release 7.3.2	BGP-LU Inter-AS Option-C Interworking with LDP and IGP SR-MPLS using Proxy BGP-SR
SRv6-Services: VPNv4/VPNv6 Dual-Stack Support	This feature is introduced.	Release 7.3.2	Configuring SRv6 BGP-Based Services
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
Segment Routing Tree-trace Enhancements	This feature is introduced.	Release 7.3.2	Segment Routing Tree-trace Enhancements
Microloop Avoidance for OSPF Flexible Algorithm	This feature is introduced.	Release 7.3.2	Calculation of Flexible Algorithm Path

Feature	Description	Introduced/Changed in Release	Where Documented
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
IPv6 Unlabelled Traffic protection with TiLFA	This feature is introduced.	Release 7.3.1	Usage Guidelines and Limitations
BGP PeerSet SID	This feature is introduced.	Release 7.3.1	Segment Routing Egress Peer Engineering
Manual BGP-EPE Peer SIDs	This feature is introduced.	Release 7.3.1	Configuring Manual BGP-EPE Peering SIDs
Per-Flow Automated Steering	This feature is introduced.	Release 7.3.1	Per-Flow Automated Steering
SR Mapping Server Advertisement of SID-Mapping Entries Between IS-IS Levels	This feature is introduced.	Release 7.3.1	Segment Routing Mapping Server
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
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)

Feature	Description	Introduced/Changed in Release	Where Documented
Cumulative Metric Bounds (Delay-Bound Use-Case)	This feature is introduced.	Release 7.3.1	Cumulative Metric Bounds (Delay-Bound Use-Case)
Deep hashing for payloads with large MPLS label stacks	This feature is introduced.	Release 7.3.1	Deep hashing for payloads with large MPLS label stacks
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
TCP Authentication Option	This feature is introduced.	Release 7.3.1	<i>TCP Authentication Option</i>
SR-PCE Flexible Algorithm Multi-Domain Path Computation	This feature is introduced.	Release 7.3.1	SR-PCE Flexible Algorithm Multi-Domain Path Computation
SR-PCE: Inter-Domain Computation using Redistributed SID (SRTE - BGP-LU Domains Interworking)	This feature is introduced.	Release 7.3.1	SR-PCE: Inter-Domain Computation using Redistributed SID (SRTE - BGP-LU Domains Interworking)
SRv6 IS-IS Prefix Summarization	This feature is introduced.	Release 7.3.1	
SRv6 Anycast locator	This feature is introduced.	Release 7.3.1	SRv6 Anycast locator
SRv6 IS-IS Microloop Avoidance with Flexible Algorithm	This feature is introduced.	Release 7.3.1	
SR-TE Delay Normalization for OSPF	This feature is introduced.	Release 7.3.1	SR-TE Delay Normalization for OSPF