



# 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 8000 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	Changed in Release	Where Documented
Flexible algorithm with bandwidth optimization	This feature is introduced.	Release 24.4.1	<a href="#">Flexible algorithm with bandwidth optimization</a>
SR-TE policy with enhanced flexible algorithm metric types	This feature is introduced.	Release 24.4.1	<a href="#">SR-TE policy with enhanced flexible algorithm metric types</a>
Segment routing Tree-SID interoperability and SR-P2MP enhancements	This feature is introduced.	Release 24.4.1	<a href="#">Segment routing Tree-SID interoperability and SR-P2MP enhancements</a>
VRF-to-VRF route leaking in SRv6 core	This feature is introduced.	Release 24.4.1	<a href="#">VRF-to-VRF route leaking in SRv6 core</a>
Delay and synthetic loss measurement for GRE tunnel interfaces	This feature is introduced.	Release 24.4.1	<a href="#">Delay and synthetic loss measurement for GRE tunnel interfaces</a>
Fallback delay advertisement for interfaces	This feature is introduced.	Release 24.4.1	<a href="#">Fallback delay advertisement for interfaces</a>
Far-end delay metrics in one-way measurement mode	This feature is introduced.	Release 24.4.1	<a href="#">Measurement Modes</a>

Feature	Description	Changed in Release	Where Documented
SRv6 double recursion for multilayer BGP underlay	This feature is introduced.	Release 24.4.1	<a href="#">SRv6 double recursion for multilayer BGP underlay</a>
SRv6 services: EVPN E-Line support	This feature is introduced.	Release 24.4.1	<a href="#">SRv6 services on EVPN E-Line</a>
BGP Signaling for co-existence of IP routes	This feature is introduced.	Release 24.3.1	<a href="#">BGP Signaling for co-existence of IP routes with or without SRv6 SID</a>
H.Insert.Red Headend Behavior for SRv6 on Cisco Silicon One P100-based Routers	This feature is introduced.	Release 24.3.1	<a href="#">SRv6 Head-End Behaviors</a>
SRv6 Services on EVPN E-Line	This feature is introduced.	Release 24.3.1	<a href="#">SRv6 services on EVPN E-Line</a>
Data Plane Validation for SR-MPLS IPv6-based Controller Instantiated LSPs	This feature is introduced.	Release 24.2.11	<a href="#">Data Plane Validation Support for SR-MPLS IPv6-based LSPs</a>
Overriding MPLS Imposition (IP-to-MPLS) via Service Layer API (SL-API)	This feature is introduced.	Release 24.2.11	<a href="#">Overriding MPLS Imposition (IP-to-MPLS) via Service Layer API (SL-API)</a>
MPLS OAM support for SR-TE Policies using MPLS IPv6-based LSPs	This feature is introduced.	Release 24.2.11	<a href="#">MPLS OAM support for SR-TE Policies using IPv6-based LSPs</a>
User-Defined Generic Metric Support for IS-IS Flex Algo	This feature is introduced.	Release 24.2.11	<a href="#">User-Defined Generic Metric Support for IS-IS Flex Algo</a>
Liveness Monitoring for IP Endpoint over SRv6 Network	This feature is introduced.	Release 24.2.11	<a href="#">IP Endpoint Liveness Monitoring</a>
Delay Measurement for IP Endpoint over SRv6 Network	This feature is introduced.	Release 24.2.11	<a href="#">Delay Measurement for IP Endpoint</a>
Reporting of SR-TE Policies Using BGP-Link State for SRv6	This feature is introduced.	Release 24.1.1	<a href="#">Reporting of SR-TE Policies Using BGP-Link State</a>
Path Maximum Transmission Unit (MTU) discovery for SRv6 Encapsulated Packets	This feature is introduced.	Release 24.1.1	<a href="#">Path Maximum Transmission Unit (MTU) Discovery for SRv6 Encapsulated Packets</a>

<b>Feature</b>	<b>Description</b>	<b>Changed in Release</b>	<b>Where Documented</b>
Synthetic Loss Measurement	This feature is introduced.	Release 24.1.1	<a href="#">Synthetic Loss Measurement</a>
Path Tracing Source and Sink Nodes	This feature is introduced.	Release 24.1.1	<a href="#">Path Tracing in SRv6 Network</a>
SR-MPLSv6 Traffic Engineering	This feature is introduced.	Release 24.1.1	<a href="#">SR Policy Path Computation for IPv6</a>
Exclude Network Resources during Path Computation over SR-TE Policies	This feature is introduced.	Release 24.1.1	<a href="#">Exclude Network Resources during Path Computation over SR-TE Policies</a>
Configure the Shortest Path for Disjoint Candidate Paths	This feature is introduced.	Release 24.1.1	<a href="#">Configure the Shortest Path for Disjoint Candidate Paths</a>
Enable Strict Disjointness for SR-TE policies in the PCE	This feature is introduced.	Release 24.1.1	<a href="#">Enable Strict Disjointness for SR-TE policies in the PCE</a>
Identical Route Distinguisher (RD) for Interworking Gateways between MPLS and SRv6 Domains	This feature was modified.	Release 24.1.1	<a href="#">SRv6/MPLS L3 Service Interworking Gateway</a>

