

LSR YANG UPDATE

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On behalf of all co-authors

IETF 122 LSR

Published!



RFC 9129
YANG Data Model For The OSPF Protocol

RFC 9130
YANG Data Model For The IS-IS Protocol

RFC 9134
YANG Module For IS-IS Reverse Metric

RFC 9587
YANG Data Module For OSPFv3 Extended Link State Advertisements
(LSAs) (2024/06)

OSPF and IS-IS SR YANG

draft-ietf-isis-sr-yang

draft-ietf-ospf-sr-yang

- Including both OSPFv2 and OSPFv3

On agenda of 2025-04-03 IESG telechat

Experimental: Extensions to OSPF for Advertising Prefix Administrative Tags

- *draft-ietf-ospf-admin-tags: protocol extension and the corresponding YANG module are in one draft.*
 - In RFC editor queue!
- Target to add more YANG support together with specification (works better with relatively small modules)

OSPF YANG Model Augmentations for Additional Features – Version 1

- RFC5329: Traffic engineering Extensions to OSPF Version 3
- *RFC5392: OSPF Extensions in Support of Inter-Autonomous System (AS) MPLS and GMPLS Traffic Engineering*
- RFC8042: OSPF Two-Part Metric
- RFC8379: OSPF Graceful Link Shutdown
- RFC8510: OSPF Link-Local Signaling (LLS) Extensions for Local Interface ID Advertisement
- *RFC9356: Advertising Layer 2 Bundle Member Link Attributes in OSPF*
- RFC9492: OSPF Application-Specific Link Attributes
- RFC9350: IGP Flexible Algorithm
- *draft-ietf-lsr-flex-algo-bw-con: IGP Flexible Algorithms: Bandwidth, Delay, Metrics and Constraints*

IS-IS YANG Model Augmentations for Additional Features – Version 1

- RFC7987: IS-IS Minimum Remaining Lifetime
- RFC8919: IS-IS Application-Specific Link Attributes
- RFC9350: IGP Flexible Algorithm
- RFC8941: Signaling Maximum SID Depth (MSD) using IS-IS
- *draft-ietf-lsr-flex-algo-bw-con: IGP Flexible Algorithms: Bandwidth, Delay, Metrics and Constraints*

OSPF and ISIS SRv6 YANG

draft-ietf-lsr-ospf-srv6-yang

draft-ietf-lsr-isis-srv6-yang

- Back burner

IS-IS Protocol Implementation Conformance Statement (PICS)

- draft-ietf-lsr-isis-pics-yang

- iana-isis-pics.yang

A new IANA registry will be created for IS-IS PICS, which maintains the list of RFCs that support IS-IS PICS.

- letf-isis-pics.yang

A device model and designed to query a node with IS-IS PICS status. The leaf-list of "isis-pics" lists all the supported PICS that defined in the iana-isis-pics module.

- draft-ietf-lsr-isis-pics-srmpis-yang

Used to query an IS-IS implementation of Segment Routing on MPLS data plane [RFC8667].

- draft-ietf-lsr-isis-pics-l2member-attr-yang

Used to query an IS-IS PICS of advertising Layer 2 Bundle Member Link Attributes [RFC8668].

Summary of Sequence

draft-ietf-isis-sr-yang
draft-ietf-ospf-sr-yang

draft-ietf-lsr-isis-yang-augmentation-v1
draft-ietf-lsr-ospf-yang-augmentation-
v1

draft-ietf-lsr-isis-pics*

draft-ietf-lsr-isis-srv6-yang
draft-ietf-lsr-ospf-srv6-yang

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THANK YOU