

IS-IS Working Group  
Internet-Draft  
Intended status: Standards Track  
Expires: September 11, 2019

S. Litkowski  
Orange  
Y. Qu  
Huawei  
P. Sarkar  
Individual  
I. Chen  
The MITRE Corporation  
J. Tantsura  
Individual  
March 10, 2019

**YANG Data Model for IS-IS Segment Routing**  
**draft-ietf-isis-sr-yang-05**

## Abstract

This document defines a YANG data model that can be used to configure and manage IS-IS Segment Routing.

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## [1. Overview](#)

YANG [[RFC6020](#)] [[RFC7950](#)] is a data definition language used to define the contents of a conceptual data store that allows networked devices to be managed using NETCONF [[RFC6241](#)]. YANG is proving relevant beyond its initial confines, as bindings to other interfaces (e.g., REST) and encodings other than XML (e.g., JSON) are being defined. Furthermore, YANG data models can be used as the basis for implementation of other interfaces, such as CLI and programmatic APIs.

This document defines a YANG data model that can be used to configure and manage IS-IS Segment Routing

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[I-D.ietf-isis-segment-routing-extensions] and it is an augmentation to the IS-IS YANG data model.

The YANG modules in this document conform to the Network Management Datastore Architecture (NMDA) [[RFC8342](#)].

## [2. Requirements Language](#)

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [BCP 14](#) [[RFC2119](#)] [[RFC8174](#)] when, and only when, they appear in all capitals, as shown here.

## [3. Tree Diagrams](#)

This document uses the graphical representation of data models defined in [[RFC8340](#)].

## [4. IS-IS Segment Routing](#)

This document defines a model for IS-IS Segment Routing feature. It is an augmentation of the IS-IS base model.

The IS-IS SR YANG module requires support for the base segment routing module [[I-D.ietf-spring-sr-yang](#)], which defines the global segment routing configuration independent of any specific routing protocol configuration, and support of IS-IS base model [[I-D.ietf-isis-isis-cfg](#)] which defines basic IS-IS configuration and state.

The figure below describes the overall structure of the isis-sr YANG module:

```
module: ietf-isis-sr
augment /rt:routing/rt:control-plane-protocols
    /rt:control-plane-protocol/isis:isis:
        +-rw segment-routing
            | +-rw enabled?    boolean
            | +-rw bindings
            |     +-rw advertise
            |         | +-rw policies*   string
            |         +-rw receive?    boolean
            +-rw protocol-srgb {sr:protocol-srgb}?
                +-rw srgb* [lower-bound upper-bound]
                    +-rw lower-bound    uint32
                    +-rw upper-bound    uint32
augment /rt:routing/rt:control-plane-protocols
```



```
/rt:control-plane-protocol/isis:isis:isis:interfaces
  /isis:interface:
    +-rw segment-routing
      +-rw adjacency-sid
        +-rw advertise-adj-group-sid* [group-id]
          | +-rw group-id      uint32
          +-rw advertise-protection?      enumeration
augment /rt:routing/rt:control-plane-protocols
  /rt:control-plane-protocol/isis:isis:isis:interfaces
    /isis:interface/isis:fast-reroute:
      +-rw ti-lfa {ti-lfa}?
        +-rw enable?      boolean
augment /rt:routing/rt:control-plane-protocols
  /rt:control-plane-protocol/isis:isis:isis:interfaces
    /isis:interface/isis:fast-reroute/isis:lfa/isis:remote-lfa:
      +-rw use-segment-routing-path?      boolean {remote-lfa-sr}?
augment /rt:routing/rt:control-plane-protocols
  /rt:control-plane-protocol/isis:isis:isis:interfaces
    /isis:interface/isis:adjacencies/isis:adjacency:
      +-ro adjacency-sid* [value]
        +-ro af?                  iana-rt-types:address-family
        +-ro value                uint32
        +-ro weight?              uint8
        +-ro protection-requested?      boolean
augment /rt:routing/rt:control-plane-protocols
  /rt:control-plane-protocol/isis:isis:isis:database
    /isis:level-db/isis:lsp/isis:router-capabilities:
      +-ro sr-capability
        | +-ro flags?      bits
        | +-ro global-blocks
        |   +-ro global-block*
        |     +-ro range-size?      uint32
        |     +-ro sid-sub-tlv
        |       +-ro sid?      uint32
        +-ro sr-algorithms
        | +-ro sr-algorithm*      uint8
      +-ro local-blocks
        | +-ro local-block*
        |   +-ro range-size?      uint32
        |   +-ro sid-sub-tlv
        |     +-ro sid?      uint32
      +-ro srms-preference
        +-ro preference?      uint8
augment /rt:routing/rt:control-plane-protocols
  /rt:control-plane-protocol/isis:isis:isis:database
    /isis:level-db/isis:lsp/isis:extended-is-neighbor
      /isis:neighbor:
        +-ro sid-list* [value]
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```
    +-+ro flags?          bits
    +-+ro weight?         uint8
    +-+ro neighbor-id?   isis:system-id
    +-+ro value           uint32
augment /rt:routing/rt:control-plane-protocols
    /rt:control-plane-protocol/isis:isis/isis:database
    /isis:level-db/isis:lsp/isis:mt-is-neighbor/isis:neighbor:
+-+ro sid-list* [value]
    +-+ro flags?          bits
    +-+ro weight?         uint8
    +-+ro neighbor-id?   isis:system-id
    +-+ro value           uint32
augment /rt:routing/rt:control-plane-protocols
    /rt:control-plane-protocol/isis:isis/isis:database
    /isis:level-db/isis:lsp/isis:extended-ipv4-reachability
    /isis:prefixes:
+-+ro sid-list* [value]
    +-+ro flags?          bits
    +-+ro algorithm?      uint8
    +-+ro value           uint32
augment /rt:routing/rt:control-plane-protocols
    /rt:control-plane-protocol/isis:isis/isis:database
    /isis:level-db/isis:lsp/isis:mt-extended-ipv4-reachability
    /isis:prefixes:
+-+ro sid-list* [value]
    +-+ro flags?          bits
    +-+ro algorithm?      uint8
    +-+ro value           uint32
augment /rt:routing/rt:control-plane-protocols
    /rt:control-plane-protocol/isis:isis/isis:database
    /isis:level-db/isis:lsp/isis:ipv6-reachability/isis:prefixes:
+-+ro sid-list* [value]
    +-+ro flags?          bits
    +-+ro algorithm?      uint8
    +-+ro value           uint32
augment /rt:routing/rt:control-plane-protocols
    /rt:control-plane-protocol/isis:isis/isis:database
    /isis:level-db/isis:lsp/isis:mt-ipv6-reachability
    /isis:prefixes:
+-+ro sid-list* [value]
    +-+ro flags?          bits
    +-+ro algorithm?      uint8
    +-+ro value           uint32
augment /rt:routing/rt:control-plane-protocols
    /rt:control-plane-protocol/isis:isis/isis:database
    /isis:level-db/isis:lsp:
+-+ro segment-routing-bindings* [fec range]
    +-+ro fec              string
```

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```
+--ro range      uint16
+--ro flags?     bits
+--ro binding
    +--ro prefix-sid
        +--ro sid-list* [value]
            +--ro flags?     bits
            +--ro algorithm? uint8
            +--ro value       uint32
```

## 5. IS-IS Segment Routing configuration

### 5.1. Segment Routing activation

Activation of segment-routing IS-IS is done by setting the "enable" leaf to true. This triggers advertisement of segment-routing extensions based on the configuration parameters that have been setup using the base segment routing module.

### 5.2. Advertising mapping server policy

The base segment routing module defines mapping server policies. By default, IS-IS will not advertise nor receive any mapping server entry. The IS-IS segment-routing module allows to advertise one or multiple mapping server policies through the "bindings/advertise/policies" leaf-list. The "bindings/receive" leaf allows to enable the reception of mapping server entries.

### 5.3. IP Fast reroute

IS-IS SR model augments the fast-reroute container under interface. It brings the ability to activate TI-LFA (topology independent LFA) and also enhances remote LFA to use segment-routing tunneling instead of LDP.

## 6. IS-IS Segment Routing YANG Module

```
<CODE BEGINS> file "ietf-isis-sr@2019-03-06.yang"
module ietf-isis-sr {
    namespace "urn:ietf:params:xml:ns:"
        + "yang:ietf-isis-sr";
    prefix isis-sr;

    import ietf-routing {
        prefix "rt";
    }

    import ietf-segment-routing-common {
```

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```
prefix "sr-cmn";
}

import ietf-segment-routing {
prefix "sr";
}

import ietf-isis {
prefix "isis";
}

import iana-routing-types {
  prefix "iana-rt-types";
}

organization
  "IETF LSR - LSR Working Group";

contact
  "WG List: <mailto:lsr@ietf.org>

  Editor: Stephane Litkowski
  <mailto:stephane.litkowski@orange.com>

  Author: Acee Lindem
  <mailto:acee@cisco.com>
  Author: Yingzhen Qu
  <mailto:yingzhen.qu@huawei.com>
  Author: Pushpasis Sarkar
  <mailto:pushpasis.ietf@gmail.com>
  Author: Ing-Wher Chen
  <mailto:ingwherchen@mitre.org>
  Author: Jeff Tantsura
  <mailto:jefftant.ietf@gmail.com>
  ";

description
  "The YANG module defines a generic configuration model for
  Segment routing ISIS extensions common across all of the vendor
  implementations.";

revision 2019-03-06 {
description
  "Initial revision.";
reference "RFC XXXX";
}
```



```
/* Identities */

/* Features */

feature remote-lfa-sr {
    description
        "Enhance rLFA to use SR path.";
}

feature ti-lfa {
    description
        "Enhance IPFRR with ti-lfa
        support";
}

/* Groupings */

grouping sid-sub-tlv {
    description "SID/Label sub-TLV grouping.";
    container sid-sub-tlv {
        description
            "Used to advertise the SID/Label associated with a
            prefix or adjacency.";
        leaf sid {
            type uint32;
            description
                "Segment Identifier (SID) - A 20 bit label or
                32 bit SID.";
        }
    }
}

grouping sr-capability {
    description
        "SR capability grouping.";
    container sr-capability {
        description
            "Segment Routing capability.";
        leaf flags {
            type bits {
                bit mpls-ipv4 {
                    position 0;
                    description
                        "If set, then the router is capable of
                        processing SR MPLS encapsulated IPv4 packets
                        on all interfaces.";
                }
            }
        }
    }
}
```



```
        }
    bit mpls-ipv6 {
        position 1;
        description
            "If set, then the router is capable of
            processing SR MPLS encapsulated IPv6 packets
            on all interfaces.";
    }
}
description
    "Flags.";
}
container global-blocks {
    description
        "Segment Routing Global Blocks.";
    list global-block {
        description "Segment Routing Global Block.";
        leaf range-size {
            type uint32;
            description "The SID range.";
        }
        uses sid-sub-tlv;
    }
}
}
}

grouping sr-algorithm {
    description
        "SR algorithm grouping.";
    container sr-algorithms {
        description "All SR algorithms.";
        leaf-list sr-algorithm {
            type uint8;
            description
                "The Segment Routing (SR) algorithms that the router is
                currently using.";
        }
    }
}

grouping srlb {
    description
        "SR Local Block grouping.";
    container local-blocks {
        description "List of SRLBs.";
        list local-block {
            description "Segment Routing Local Block.";
```

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```
leaf range-size {
    type uint32;
    description "The SID range.";
}
uses sid-sub-tlv;
}
}

grouping srms-preference {
    description "The SRMS preference TLV is used to advertise
                 a preference associated with the node that acts
                 as an SR Mapping Server.";
container srms-preference {
    description "SRMS Preference TLV.";
    leaf preference {
        type uint8 {
            range "0 .. 255";
        }
        description "SRMS preference TLV, vlaue from 0 to 255.";
    }
}
}

grouping adjacency-state {
    description
        "This group will extend adjacency state.";
    list adjacency-sid {
        key value;
        config false;
        leaf af {
            type iana-rt-types:address-family;
            description
                "Address-family associated with the
                 segment ID";
        }
        leaf value {
            type uint32;
            description
                "Value of the Adj-SID.";
        }
        leaf weight {
            type uint8;
            description
                "Weight associated with
                 the adjacency SID.";
        }
        leaf protection-requested {
```

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```
type boolean;
description
  "Describe if the adjacency SID
  must be protected.";
}
description
  "List of adjacency Segment IDs.";
}
}

grouping prefix-segment-id {
  description
    "This group defines segment routing extensions
     for prefixes.";

  list sid-list {
    key value;

    leaf flags {
      type bits {
        bit readvertisement {
          position 7;
          description
            "If set, then the prefix to
             which this Prefix-SID is attached,
             has been propagated by the
             router either from another level
             or from redistribution.";
        }
        bit php {
          position 5;
          description
            "If set, then the penultimate hop MUST NOT
             pop the Prefix-SID before delivering the packet
             to the node that advertised the Prefix-SID.";
        }
        bit explicit-null {
          position 4;
          description
            "If set, any upstream neighbor of
             the Prefix-SID originator MUST replace
             the Prefix-SID with a
             Prefix-SID having an
             Explicit-NULL value (0 for IPv4 and 2 for
             IPv6) before forwarding the packet.";
        }
        bit value {
          position 3;
```

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```
        description
          "If set, then the Prefix-SID carries a
           value (instead of an index).
           By default the flag is UNSET.";
      }
      bit local {
        position 2;
        description
          "If set, then the value/index carried by
           the Prefix-SID has local significance.
           By default the flag is UNSET.";
      }
    }
    description
      "Describes flags associated with the
       segment ID.";
  }

leaf algorithm {
  type uint8;
  description
    "Algorithm to be used for path computation.";
}
leaf value {
  type uint32;
  description
    "Value of the prefix-SID.";
}
description
  "List of segments.";
}

grouping adjacency-segment-id {
  description
    "This group defines segment routing extensions
     for adjacencies.";

  list sid-list {
    key value;

    leaf flags {
      type bits {
        bit address-family {
          position 7;
          description
            "If unset, then the Adj-SID refers
             to an adjacency with outgoing IPv4 encapsulation.

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```
        If set then the Adj-SID refers to an adjacency
        with outgoing IPv6 encapsulation.";
    }
    bit backup {
        position 6;
        description
            "If set, the Adj-SID refers to an
            adjacency being protected
            (e.g.: using IPFRR or MPLS-FRR)";
    }
    bit value {
        position 5;
        description
            "If set, then the SID carries a
            value (instead of an index).
            By default the flag is SET.";
    }
    bit local {
        position 4;
        description
            "If set, then the value/index carried by
            the SID has local significance.
            By default the flag is SET.";
    }
    bit set {
        position 3;
        description
            "When set, the S-Flag indicates that the
            Adj-SID refers to a set of adjacencies.";
    }
    bit persistent {
        position 2;
        description
            "When set, the P-Flag indicates that the
            Adj-SID is persistently allocated.";
    }
}
}

description
"Describes flags associated with the
segment ID.";
```

}

```
leaf weight {
    type uint8;
    description
        "The value represents the weight of the Adj-SID
        for the purpose of load balancing.";
```

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```

leaf neighbor-id {
    type isis:system-id;
    description
        "Describes the system ID of the neighbor
         associated with the SID value. This is only
         used on LAN adjacencies.";
}
leaf value {
    type uint32;
    description
        "Value of the Adj-SID.";
}
description
    "List of segments.";
}

grouping segment-routing-binding-tlv {
    list segment-routing-bindings {
        key "fec range";

        leaf fec {
            type string;
            description
                "IP (v4 or v6) range to be bound to SIDs.";
        }

        leaf range {
            type uint16;
            description
                "Describes number of elements to assign
                 a binding to.";
        }

        leaf flags {
            type bits {
                bit address-family {
                    position 7;
                    description
                        "If unset, then the Prefix FEC
                         carries an IPv4 Prefix.
                         If set then the Prefix FEC carries an
                         IPv6 Prefix.";
                }
                bit mirror {
                    position 6;
                    description
                        "Set if the advertised SID/path
                         is a mirror of another SID/path.
                         If set then the Prefix FEC carries an
                         IPv6 Prefix.";
                }
            }
        }
    }
}

```

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```
        corresponds to a mirrored context.";  
    }  
    bit flooding {  
        position 5;  
        description  
            "If the S bit is set(1),  
             the IS-IS Router CAPABILITY TLV  
             MUST be flooded across the entire routing domain.  
             If the S bit is  
             not set(0), the TLV MUST NOT be leaked between levels.  
             This bit MUST NOT be altered during the TLV leaking.";  
    }  
    bit down {  
        position 4;  
        description  
            "When the IS-IS Router CAPABILITY TLV is  
             leaked from level-2 to level-1, the D bit  
             MUST be set. Otherwise, this bit MUST  
             be clear. IS-IS Router capability TLVs  
             with the D bit set MUST NOT  
             be leaked from level-1 to level-2.  
             This is to prevent TLV looping.";  
    }  
    bit attached {  
        position 3;  
        description  
            "The originator of the SID/Label Binding TLV MAY set the  
             A bit in order to signal that the prefixes and SIDs  
             advertised in the SID/Label Binding TLV are directly  
             connected to their originators.";  
    }  
}  
description  
    "Flags of the binding.";  
}  
  
container binding {  
    container prefix-sid {  
        uses prefix-segment-id;  
        description  
            "Binding prefix SID to the range.";  
    }  
    description  
        "Bindings associated with the range.";  
}  
  
description
```

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```
        "This container describes list of SID/Label bindings.  
        ISIS reference is TLV 149.";  
    }  
    description  
        "Defines binding TLV for database.";  
}  
  
/* Cfg */  
  
augment "/rt:routing/" +  
    "rt:control-plane-protocols/rt:control-plane-protocol"+  
    "/isis:isis" {  
when "/rt:routing/rt:control-plane-protocols/" +  
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {  
    description  
        "This augment ISIS routing protocol when used";  
}  
    description  
        "This augments ISIS protocol configuration  
        with segment routing.";  
  
uses sr:sr-controlplane;  
container protocol-srgb {  
    if-feature sr:protocol-srgb;  
    uses sr-cmn:srgb;  
    description  
        "Per-protocol SRGB.";  
}  
}  
  
augment "/rt:routing/" +  
    "rt:control-plane-protocols/rt:control-plane-protocol"+  
    "/isis:isis/isis:interfaces/isis:interface" {  
when "/rt:routing/rt:control-plane-protocols/" +  
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {  
    description  
        "This augment ISIS routing protocol when used";  
}  
    description  
        "This augments ISIS protocol configuration  
        with segment routing.";  
  
uses sr:igp-interface;  
}  
  
augment "/rt:routing/" +  
    "rt:control-plane-protocols/rt:control-plane-protocol"+  
    "/isis:isis/isis:interfaces/isis:interface"+
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```
"/isis:fast-reroute" {
when "/rt:routing/rt:control-plane-protocols/" +
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
description
    "This augment ISIS routing protocol when used";
}
description
    "This augments ISIS IP FRR with TILFA.";

container ti-lfa {
    if-feature ti-lfa;
    leaf enable {
        type boolean;
        description
            "Enables TI-LFA computation.";
    }
    description
        "TILFA configuration.";
}
}

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol" +
    "/isis:isis/isis:interfaces/isis:interface" +
    "/isis:fast-reroute/isis:lfa/isis:remote-lfa" {
when "/rt:routing/rt:control-plane-protocols/" +
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
description
    "This augment ISIS routing protocol when used";
}
description
    "This augments ISIS remoteLFA config with
use of segment-routing path.";

leaf use-segment-routing-path {
    if-feature remote-lfa-sr;
    type boolean;
    description
        "force remote LFA to use segment routing
path instead of LDP path.";
}
}

/* Operational states */

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol" +
    "/isis:isis/isis:interfaces/isis:interface" +
```

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```
    "/isis:adjacencies/isis:adjacency" {
when "/rt:routing/rt:control-plane-protocols/"+
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
        description
            "This augment ISIS routing protocol when used";
    }
        description
            "This augments ISIS protocol configuration
                with segment routing.";

        uses adjacency-state;
    }

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol"+

    "/isis:isis:database/isis:level-db/isis:lsp"+
    "/isis:router-capabilities" {
when "/rt:routing/rt:control-plane-protocols/"+
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
        description
            "This augment ISIS routing protocol when used";
    }
        description
            "This augments ISIS protocol LSDB router capability.";

        uses sr-capability;
        uses sr-algorithm;
        uses srlb;
        uses srms-preference;
    }

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol"+

    "/isis:isis:database/isis:level-db/isis:lsp"+
    "/isis:extended-is-neighbor/isis:neighbor" {
when "/rt:routing/rt:control-plane-protocols/"+
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
        description
            "This augment ISIS routing protocol when used";
    }
        description
            "This augments ISIS protocol LSDB neighbor.";
        uses adjacency-segment-id;
    }

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol"+

    "/isis:isis:database/isis:level-db/isis:lsp"+
```

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```
"/isis:mt-is-neighbor/isis:neighbor" {
when "/rt:routing/rt:control-plane-protocols/"+
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
    description
        "This augment ISIS routing protocol when used";
}
description
    "This augments ISIS protocol LSDB neighbor.";
    uses adjacency-segment-id;
}

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol"++
    "/isis:isis:database/isis:level-db/isis:lsp"++
    "/isis:extended-ipv4-reachability/isis:prefixes" {
when "/rt:routing/rt:control-plane-protocols/"+
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
    description
        "This augment ISIS routing protocol when used";
}
description
    "This augments ISIS protocol LSDB prefix.";
    uses prefix-segment-id;
}

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol"++
    "/isis:isis:database/isis:level-db/isis:lsp"++
    "/isis:mt-extended-ipv4-reachability/isis:prefixes" {
when "/rt:routing/rt:control-plane-protocols/"+
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
    description
        "This augment ISIS routing protocol when used";
}
description
    "This augments ISIS protocol LSDB prefix.";
    uses prefix-segment-id;
}

augment "/rt:routing/" +
    "rt:control-plane-protocols/rt:control-plane-protocol"++
    "/isis:isis:database/isis:level-db/isis:lsp"++
    "/isis:ipv6-reachability/isis:prefixes" {
when "/rt:routing/rt:control-plane-protocols/"+
    "rt:control-plane-protocol/rt:type = 'isis:isis'" {
    description
        "This augment ISIS routing protocol when used";
}
```

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```
description
  "This augments ISIS protocol LSDB prefix.";
uses prefix-segment-id;
}

augment "/rt:routing/" +
  "rt:control-plane-protocols/rt:control-plane-protocol"+
  "/isis:isis:database/isis:level-db/isis:lsp"+
  "/isis:mt-ipv6-reachability/isis:prefixes" {
when "/rt:routing/rt:control-plane-protocols/"+
  "rt:control-plane-protocol/rt:type = 'isis:isis'" {
  description
    "This augment ISIS routing protocol when used";
}
description
  "This augments ISIS protocol LSDB prefix.";
uses prefix-segment-id;
}

augment "/rt:routing/" +
  "rt:control-plane-protocols/rt:control-plane-protocol"+
  "/isis:isis:database/isis:level-db/isis:lsp" {
when "/rt:routing/rt:control-plane-protocols/"+
  "rt:control-plane-protocol/rt:type = 'isis:isis'" {
  description
    "This augment ISIS routing protocol when used";
}
description
  "This augments ISIS protocol LSDB.";
uses segment-routing-binding-tlv;
}

/* Notifications */

}
```

&lt;CODE ENDS&gt;

## 7. Security Considerations

Configuration and state data defined in this document are designed to be accessed via the NETCONF protocol [[RFC6241](#)].

As IS-IS is an IGP protocol (critical piece of the network), ensuring stability and security of the protocol is mandatory for the network service.



Authors recommends to implement NETCONF access control model ([[RFC6536](#)]) to restrict access to all or part of the configuration to specific users.

## **8. Contributors**

Authors would like to thank Derek Yeung, Acee Lindem, Yi Yang for their major contributions to the draft.

## **9. Acknowledgements**

Author affiliation with The MITRE Corporation is provided for identification purposes only, and is not intended to convey or imply MITRE's concurrence with, or support for, the positions, opinions or viewpoints expressed. MITRE has approved this document for Public Release, Distribution Unlimited, with Public Release Case Number 18-3281.

## **10. IANA Considerations**

The IANA is requested to assign two new URIs from the IETF XML registry ([[RFC3688](#)]). Authors are suggesting the following URI:

URI: urn:ietf:params:xml:ns.yang:ietf-isis-sr  
Registrant Contact: IS-IS WG  
XML: N/A, the requested URI is an XML namespace

This document also requests one new YANG module name in the YANG Module Names registry ([[RFC6020](#)]) with the following suggestion :

name: ietf-isis-sr  
namespace: urn:ietf:params:xml:ns.yang:ietf-isis-sr  
prefix: isis-sr  
reference: RFC XXXX

## **11. Change log for ietf-isis-sr YANG module**

### **11.1. From version -03 to version -04**

- o Fixed yang module indentations.

### **11.2. From version -02 to version -03**

- o Change address-family type according to routing types.



**11.3. From isis-sr document version -01 to version -02**

- o NMDA compliancy.
- o Added SRLB in configuration and LSDB.
- o Added SR capability in LSDB.
- o Added SR algorithms in LSDB.
- o Added SRMS preference in LSDB.
- o Alignment with iana-rt-types module.
- o Align binding SID with [draft-ietf-isis-segment-routing-extensions-13](#).

**11.4. From isis-sr document version -00 to version -01**

- o Added P-Flag in Adj-SID.

**11.5. From isis document version -12 to isis-sr document version -00**

- o Separate document for IS-IS SR extensions.

**11.6. From isis document version -12 to version -13**

- o Align with new segment routing common module.

**11.7. From isis document version -09 to version -11**

- o Fixed XPATH in 'when' expressions.

**11.8. From isis document version -08 to version -09**

- o Align to [draft-ietf-netmod-routing-cfg-23](#).

**11.9. From isis document version -07 to version -08**

- o Align to [draft-ietf-netmod-routing-cfg-21](#).

**12. Normative References**

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#### Authors' Addresses

Stephane Litkowski  
Orange

Email: [stephane.litkowski@orange.com](mailto:stephane.litkowski@orange.com)

Yinghzen Qu  
Huawei

Email: [yingzhen.qu@huawei.com](mailto:yingzhen.qu@huawei.com)

Pushpasis Sarkar  
Individual

Email: [pushpasis.ietf@gmail.com](mailto:pushpasis.ietf@gmail.com)

Ing-Wher Chen  
The MITRE Corporation

Email: [ingwcherchen@mitre.org](mailto:ingwcherchen@mitre.org)

Jeff Tantsura  
Individual

Email: [jefftant.ietf@gmail.com](mailto:jefftant.ietf@gmail.com)

