
Core Routing Module

draft-ietf-netmod-routing-cfg-01

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Diff against -00

- Parts of the data tree that don't depend on address family (AFN/SAFI) were moved to the generic *ietf-routing* module.
- Typedefs corresponding to IANA-registered enumerations for AFN and SAFI were placed in a separate *iana-afn-safi* module.
- Names of some data nodes were changed, in particular `routing-process` is now `router`.
- The restriction of a single AFN/SAFI per router was lifted.
- RPC operation `delete-route` was removed.
- Illegal XPath references from `get-route` RPC method to the main data tree were fixed.
- Section "Security Considerations" was written.

Main Data Tree

```
+--rw routing
  |--rw router [name]
    |--rw name string
    |--rw description? string
    |--rw enabled? boolean
    |--rw routing-protocols
      |--rw routing-protocol [name]
        ...
    |--rw route-filters
      |--rw route-filter [name]
        ...
    |--rw routing-tables
      |--rw routing-table [name]
        ...
```

RPC Method

```
+---x get-route
+--ro input
| +--ro router-name          router-ref
| +--ro destination-address
|   +--ro address-family?   ianaaf:address-family
|   +--ro safi?             ianaaf:subsequent-address-family
|   +--ro v4ur:address?     inet:ipv4-address
+--ro output
+--ro route
  +--ro address-family?     ianaaf:address-family
  +--ro safi?               ianaaf:subsequent-address-family
  +--ro source-protocol?   string
  +--ro last-modified?     yang:date-and-time
  +--ro v4ur:destination-prefix? inet:ipv4-prefix
  +--ro v4ur:next-hop?     inet:ipv4-address
  +--ro v4ur:outgoing-interface? if:interface-ref
  +--ro rip:metric?        rip-metric
  +--ro rip:tag?           uint16
```

Open Issue

```
leaf enabled {  
    type boolean;  
    default "true";  
}
```

OR

```
leaf disabled {  
    type empty;  
}
```

Next Steps

The document is ready for WGLC.

A data model built from these modules together with the other “core” NETMOD modules can be immediately used for simple routing configurations (static IPv4 routing).

The modules will probably have to be updated based on the feedback from developers of data models for routing protocols, route filters etc., and equipment vendors.