



RIB YANG Data Model

draft-acee-rtgwg-yang-rib-extend-08.txt

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Highlights

- Augmentation of RFC 8349
- **RIB Tags and Preference**
- **Repair Path**

Tree – Next Hop

```
augment /rt:routing/rt:control-plane-
protocols/rt:control-plane-
protocol/rt:static-routes/v4ur:ipv4
/v4ur:route/v4ur:next-hop/v4ur:next-hop-
options/v4ur:simple-next-hop:
+--rw preference?      uint32
+--rw tag?             uint32
+--rw application-tag? uint32
augment /rt:routing/rt:control-plane-
protocols/rt:control-plane-
protocol/rt:static-routes/v4ur:ipv4
/v4ur:route/v4ur:next-hop/v4ur:next-hop-
options/v4ur:next-hop-list/v4ur:next-hop-
list/v4ur:next-hop:
+--rw preference?      uint32
+--rw tag?             uint32
+--rw application-tag? uint32
```

```
augment /rt:routing/rt:control-plane-
protocols/rt:control-plane-protocol/rt:static-
routes/v6ur:ipv6
/v6ur:route/v6ur:next-hop/v6ur:next-hop-
options/v6ur:simple-next-hop:
+--rw preference?      uint32
+--rw tag?             uint32
+--rw application-tag? uint32
augment /rt:routing/rt:control-plane-
protocols/rt:control-plane-protocol/rt:static-
routes/v6ur:ipv6
/v6ur:route/v6ur:next-hop/v6ur:next-hop-
options/v6ur:next-hop-list/v6ur:next-hop-
list/v6ur:next-hop:
+--rw preference?      uint32
+--rw tag?             uint32
+--rw application-tag? uint32
```

Tree

```
augment /rt:routing/rt:ribs/rt:rib:
+--ro rib-summary-statistics
+--ro total-routes?          uint32
+--ro total-active-routes?   uint32
+--ro total-route-memory?    uint64
+--ro protocol-rib-statistics* []
  +--ro rib-protocol?        identityref
  +--ro protocol-total-routes? uint32
  +--ro protocol-active-routes? uint32
  +--ro protocol-route-memory? uint64
Augment /rt:routing/rt:ribs/rt:rib/rt:routes/rt:route:
+--ro metric?                uint32
+--ro tag?                   uint32
+--ro application-tag?       uint32
augment /rt:routing/rt:ribs/rt:rib/rt:routes:
+--ro repair-route* [id]
  +--ro id                    string
  +--ro next-hop
  | +--ro outgoing-interface? if:interface-state-ref
  | +--ro next-hop-address?   inet:ip-address
  +--ro metric?              uint32
```

```
augment
/rt:routing/rt:ribs/rt:rib/rt:routes/rt:route
/rt:next-hop/rt:next-hop-options/rt:simple-
next-hop:  +--ro repair-path?      ->
/rt:routing/ribs/rib/routes/repair-route/id
```

```
augment
/rt:routing/rt:ribs/rt:rib/rt:routes/rt:route
/rt:next-hop/rt:next-hop-options/rt:special-
next-hop:  +--ro repair-path?      ->
/rt:routing/ribs/rib/routes/repair-route/id
```

```
augment
/rt:routing/rt:ribs/rt:rib/rt:routes/rt:route
/rt:next-hop/rt:next-hop-options/rt:next-hop-
list      /rt:next-hop-list/rt:next-
hop:
+--ro repair-path?      ->
/rt:routing/ribs/rib/routes/repair-route/id
```



Next Steps

- Collect/address comments
- Request WG adoption



Question?

Thank You