

A YANG Data Model for Routing Management (NDMA Version) draft-ietf-netmod-rfc8022bis-01

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RFC 8022 BIS History

- Stated with with new module names for NDMA modules (e.g., ietf-routing-2)
- Goal was clean split from RFC 8022 versions of models that weren't widely implemented and deployed
- Consensus was to retain original module names for backward compatibility and traceability to RFC 8022
 - Refer to “New YANG Module Update Procedure” draft-clacla-netmod-yang-model-update-02.txt for a discussion of the problems associated with renaming the NDMA version.
- Redundant state tree were obsoleted rather than deprecated
 - Less implementation effort for servers implementing NDMA modules for the first time.

Tree Comparison

```

+--rw routing
  +--rw router-id?      yang:dotted-quad
  +--ro interfaces
  | +--ro interface*  if:interface-ref
  +--rw control-plane-protocols
  | +--rw control-plane-protocol* [type name]
  |   +--rw type      identityref
  |   +--rw name      string
  |   +--rw description? String
  |   +--rw static-routes
  |     +--rw v4ur:ipv4
  |     | ...
  |     +--rw v6ur:ipv6
  |     | ...
  +--rw ribs
  +--rw rib* [name]
  +--rw name      string
  +--rw address-family? Identityref
  +--rw description? string
  +--ro default-rib? boolean {multiple-ribs}?
  +--ro routes
  | +--ro route*
  | ...

```

rfc8022bis

```

+--rw routing
  +--rw router-id?
  +--rw control-plane-protocols
  | +--rw control-plane-protocol* [type name]
  |   +--rw type
  |   +--rw name
  |   +--rw description?
  |   +--rw static-routes
  |     +--rw v6ur:ipv6
  |     | ...
  |     +--rw v4ur:ipv4
  |     | ...
  +--rw ribs
  +--rw rib* [name]
  +--rw name
  +--rw address-family?
  +--rw description?
+--ro routing-state
+--ro router-id?
+--ro interfaces
| +--ro interface*
+--ro control-plane-protocols
| +--ro control-plane-protocol* [type name]
|   +--ro type
|   +--ro name
+--ro ribs
+--ro rib* [name]
+--ro name
+--ro address-family
+--ro default-rib?
+--ro routes
| +--ro route*
| ...

```

rfc8022
config tree

rfc8022
state tree

This draft obsoletes RFC 8022

- Obsolete State Data

```
ietf-routing.yang
container routing-state {
    status obsolete;
    ....
}
ietf-ipv4-unicast-routing.yang
augment "/rt:routing-state/rt:ribs/rt:rib/rt:routes/rt:route" {
    status obsolete;
    ....
}
ietf-ipv6-unicast-routing.yang
augment "/rt:routing-state/rt:ribs/rt:rib/rt:routes/rt:route" {
    status obsolete;
    ....
}
ietf-ipv6-router-advertisements.yang
augment "/if:interfaces-state/if:interface/ip:ipv6" {
    status obsolete;
    ....
}
```

Next Steps

- Collect/address comments
 - Versioning for imports?
- Updates based on RFC6087 BIS
- WG Last Call soon

Question?

Thank You