Routing Information Base Info Model
draft-ietf-i2rs-rib-info-model-01

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Context

```
+-----------------+   +-----------------+
| RIB-Client 1    | ......| RIB-Client N    |
+-----------------+   +-----------------+
    ^               ^      
    |               |                    
    +-----------------+                    
      |                 |                     
      V                 V                     
+-----------------+   +-----------------+
| RIB-Manager     |   | RIB-Manager     |
+-----------------+   +-----------------+
    +-----------------+                    
      | RIB             |                     
      +-----------------+                    
          ^                   
+-----------------+                     
    | FIB             |                     
    +-----------------+                    
      +-----------------+                     
        | FIB-Manager 1 | ......| FIB-Manager M|
        +-----------------+   +-----------------+   
          | FIB             |           | FIB            |
          +-----------------+           +-----------------+   
            +-----------------+           +-----------------+   
```
The RIB High-Level View
Route

route

route-attributes 0...N

match 1...N

nexthop list

IPv4

IPv6

MPLS

Mac

Interface
Next_hop

route

nexthop-list

1...N

nh-member-list

1...N

nexthop-list-member

nexthop-chain

1...N

nexthop

special-nexthop
Changes since last presented

- Resolution of terminology and grammar
- Added diagrams representing the key objects (similar to IETF slides)
- Text clarifications in multiple places (based on list review)
- Inter-domain (AS) specific stuff in a new section called "Inter-domain extensions to the RIB” (as optional augmentations)
- Consolidated rib-family and nexthop-address-family.
- Removed INSTANCE_DISTINGUISHER.
- Removed route-metric (no strong use-case to program 2 routes with different metrics in the same RIB)
- Enhanced ipv4/ipv6 route object so as to enable source based routing.
- Aligned with the structure draft-ietf-netmod-routing-cfg-11
Questions?