

RPKI MIB modules

draft-ymbk-bgp-origin-validation-mib-00.
draft-ymbk-rpki-rtr-mib-01.txt

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RPKI related MIB modules

- RPKI-ORIGIN-VALIDATION-MIB
 - lists all the ROAs for the router
 - and their state (unknown, valid, invalid)
- RPKI-ROUTER-MIB
 - lists all connections to the RPKI cache servers
 - and the attributes for that connection
 - defines 2 notifications to inform NMS about
 - connection(s) going up/down
 - entries to go stale

bgpValROATable

```
BgpValROATableEntry ::= SEQUENCE {  
  
    bgpVRTasNum           Unsigned32,  
    bgpVRTPrefixType     InetAddressType,  
    bgpVRTPrefix         InetAddress,  
    bgpVRTPrefixLength   InetAddressPrefixLength,  
    bgpVRTValid          INTEGER  
  
}
```

RPKI router peer Table 1/2

```
RpkiRPeerTableEntry ::= SEQUENCE {  
  
    rpkiRPTRemoteAddressType      InetAddressType,  
    rpkiRPTRemoteAddress          InetAddress,  
    rpkiRPTRemoteAddressPort      Integer32,  
    rpkiRPTLocalAddressType       InetAddressType,  
    rpkiRPTLocalAddress           InetAddress,  
    rpkiRPTLocalAddressPort       Integer32,  
    rpkiRPTConnectProtocol        INTEGER,  
    rpkiRPTConnectionStatus       INTEGER,  
    rpkiRPTMsgsFromPeer           Counter64,  
    rpkiRPTMsgsToPeer             Counter64,  
    rpkiRPTActiveRecords          Unsigned32,  
    rpkiRPTRecordsAnnounced      Unsigned32,  
}
```

RPKI router peer Table 2/2

```
rpkiRPTRecordsWithdrawn Unsigned32,  
rpkiRPTHighestSerialNum Unsigned32,  
rpkiRPTNonce Integer32,  
rpkiRPTStalePathTimer Integer32,  
rpkiRPTStalePathTimeRemaining Integer32,  
rpkiRPTRefreshTimer Integer32,  
rpkiRPTRefreshTimeRemaining Integer32  
}
```

Next steps 1/2

- revise with new/better indexing
- naming conventions
- Add priority to RpkirPeerTable
- Add notification definitions (traps)
- Do we want to add stuff to the bgp4-MIB
 - RFC 4273
 - or the draft that is still in the WG

Next steps 2/2

- WG pls review if tables and notifications are complete
- Does the WG want these two I-Ds as WG documents
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