Summary of diffs in the model

• Added a set of options for connections
  • Active/passive
  • MSS
  • Keepalives
  • Session-Security

• Added Network-instance to the BMP-sources
Summary of diffs in the draft

• Included an example of configuring a BMP monitoring station
BMP sources

- Explicit configuration of the source of data to send to each station:
  - Network instances
    - Name of the Network instance or all of them with `bmp-ni-types-all-ni-idty`
  - RIB 'modes'
  - Address-families
  - Peers (for the RIBs where it applies)
    - Identified individually, based on peer type (e.g., external, internal), or all peers (`bmp-peer-types-all-peers-idty`)

- Provide a method for operators to select the data they require
Example of BMP sources

```xml
<bmp xmlns="urn:ietf:params:xml:ns:yang:ietf-bmp">
  <stations>
    | <station>

    | <bmp_sources>
    | | <network-instances>
    | | | <network-instance>
    | | | | <network-instance-id>global</network-instance-id>
    | | | | <adj-rib-in-pre>
    | | | | | <enabled>true</enabled>
    | | | | | <address-families>
    | | | | | | <address-family>
    | | | | | | | | <name xmlns:bt="urn:ietf:params:xml:ns:yang:">
    | | | | | | | | | ietf-bgp-types">bt:ipv4-unicast</name>
    | | | | | | | | <peers>external</peers>
    | | | | | </address-family>
    | | | | </address-families>
    | | | </adj-rib-out-pre>
    | | | </network-instance>
    | | </network-instances>
    | </bmp_sources>
  </station>
</stations>
</bmp>
```
Gaps

• We still haven’t introduced initiation-delay and backoff timers.
• Do we need more extensive options in BMP sources (e.g. filtering)? For instance, filtering which updates to send using a prefix lists?
  • Thanks to Yimin Shen for his comments and suggestions about this.
draft-cptb-grow-bmp-yang

Feedback

• Working group adoption?
module: ietf-bmp

+-rw bmp

+-rw stations

  +-rw station* [id]
    |  +-rw id           string
    |  +-rw connection
    |    |  +-rw (passive_or_active)?
    |    |    |  +-rw.(active)
    |    |    |    |  +-rw active
    |    |    |    |    |  +-rw network-instance leafref
    |    |    |    |    |  +-rw station-address inet:ip-address
    |    |    |    |    |  +-rw station-port  inet:port-number
    |    |    |    |    |  +-rw local-address  inet:ip-address
    |    |    |    |    |  +-rw local-port?  inet:port-number
    |    |    |    |  +-rw.(passive)
    |    |    |    |    |  +-rw passive
    |    |    |    |    |    |  +-rw network-instance leafref
    |    |    |    |    |    |  +-rw station-address inet:ip-address
    |    |    |    |    |    |  +-rw station-port?  inet:port-number
    |    |    |    |    |    |  +-rw local-address?  inet:ip-address
    |    |    |    |    |    |  +-rw local-port?  inet:port-number
    |    |  +-rw maximum-segment-size? uint16
    |    |  +-rw mtu-discovery?  boolean
    |    |  +-rw keepalives! (keepalives-supported)?
    |    |  +-rw idle-time  uint16
    |    |  +-rw max-probes  uint16
    |    |  +-rw probe-interval  uint16
    |    |  +-rw secure-session-enable?  boolean
    |    |  +-rw secure-session
    |    |  +-rw (authentication)?
    |    |    |  +-rw.enable-ao?  boolean
    |    |    |  +-rw.send-id?  uint8
    |    |    |  +-rw.recv-id?  uint8
    |    |    |  +-rw.include-tcp-options?  boolean
    |    |    |  +-rw.accept-key-mismatch?  boolean
    |    |    |  +-rw.(md5)
    |    |    |  +-rw.enable-md5?  boolean

|
| +--rw session-stats
|   | +--rw discontinuity-time
|   |   |   | yang:date-and-time
|   |   |   +--ro established-session?    boolean
|   |   +--ro total-route-monitoring-messages?    uint64
|   |   +--ro total-statistics-messages?    uint64
|   |   +--ro total-peer-down-messages?    uint64
|   |   +--ro total-peer-up-messages?    uint64
|   |   +--ro total-initiation-messages?    uint64
|   |   +--ro total-route-mirroring-messages?    uint64
|   +--rw actions
|   +--x session-reset
|       +--ro output
|       +--ro (outcome)?
|       |   +--:(success)
|       |       |   +--ro success?    empty
|       |       +--:(failure)
|       |       +--ro failure?    string