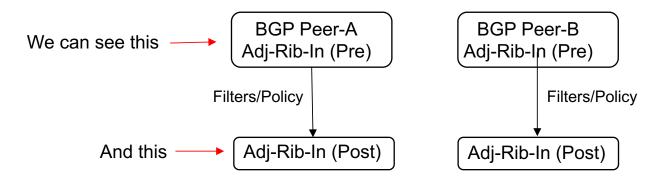
draft-ietf-grow-bmp-local-rib draft-ietf-grow-bmp-adj-rib-out update

Serpil Bayraktar, Tim Evens - Cisco Paolo Lucente - NTT

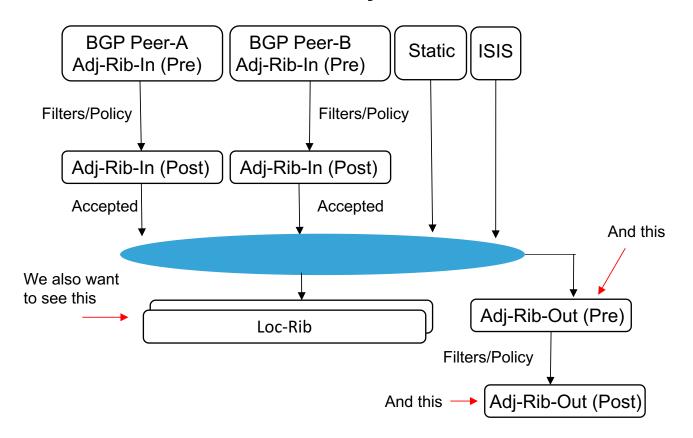
July 17, 2017 @ IETF 99, GROW WG

Recap from IETF 98: current state

RFC 7854 defines access to Adj-RIB-In only



Recap from IETF 98: extend to Adj-RIB-Out and Loc-RIB



draft-ietf-grow-bmp-local-rib diffs

- Expanded on current state (Adj-RIB-In) complexities if local-RIB is wanted:
 - Add a middle-box to BGP peer with, then export BMP Adj-RIB-In pre-policies
- Expanded on Peer UP proposed type 3 TLV to indicate VRF/table name:
 - Max 255 chars string, default value "global" with zero-filled Route Distinguisher
- Added section 5.4.2 on Granularity
 - Note about potential state compression (emerged during BMP BoF at IETF 98)

draft-ietf-grow-adj-rib-out diffs

- New co-authors: Penghui Mi (Tencent), Shunwan Zhuang (Huawei)
- Recent discussion about peer-group vs and per-peer data:
 - Keep it open to both scenarios
 - Keep it simple
 - Proposal: new Peer UP TLV to encode peer-group information

Thanks, Questions, Tomatoes.

Serpil Bayraktar, Tim Evens - Cisco Paolo Lucente - NTT

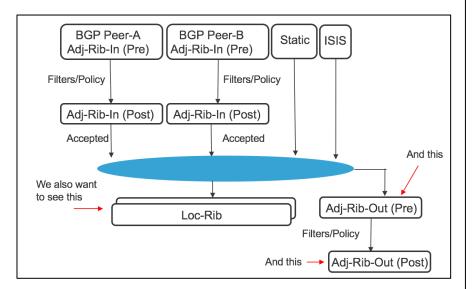
July 17, 2017 @ IETF 99, GROW WG

Backup slides (from IETF 98)

Serpil Bayraktar, Tim Evens - Cisco Paolo Lucente - NTT

July 17, 2017 @ IETF 99, GROW WG

Use Cases



Local-RIB

- Monitor routes selected and used by the router
 - ECMP
 - Correlation with netflow/ipfix
 - Next hop preservation
- Monitor locally originated and BGP routes without requiring peering
- Policy verification

Adj-RIB-Out

- Monitor routes advertised to peers
- Policy verification

Extensions to RFC 7854

Local-RIB

- New Peer Type 3
 - Supports backwards capability
- Flags are specific to Peer Type
- New F Flag: indicates filtered
- Using existing Stats
- Replaces "Locally Originated Routes" specified in Section 8.2
- Peer Up Info TLV Type 3: vrf name

Adj-RIB-Out

- New per peer header O flag to indicate Adj-RIB-In or Adj-RIB-Out
- Added statistics Types 14-17
 - 14 = Adj-RIB-Out pre-policy
 - 15 = Adj-RIB-Out post-policy
 - 16 = Adj-RIB-Out pre-policy per AFI/SAFI
 - 17 = Adj-RIB-Out post-policy per AFI/SAFI