Loc-RIB and Adj-RIB-Out Extensions to BMP

`draft-ietf-grow-bmp-loc-rib`
`draft-ietf-grow-bmp-adj-rib-out`

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IETF, GROW Working Group

Drafting status

- Drafts first presented in Chicago (March 2017)

- Plenty of interest, feedback received and processed

- No known outstanding issues:
  - Henk Smit (Nokia) recent on-list feedback materialized in a separate (forward looking and non-competing) draft, `draft-hsmit-bmp-extensible-routemon-msgs`

- So what's next for these two drafts? Last-call?
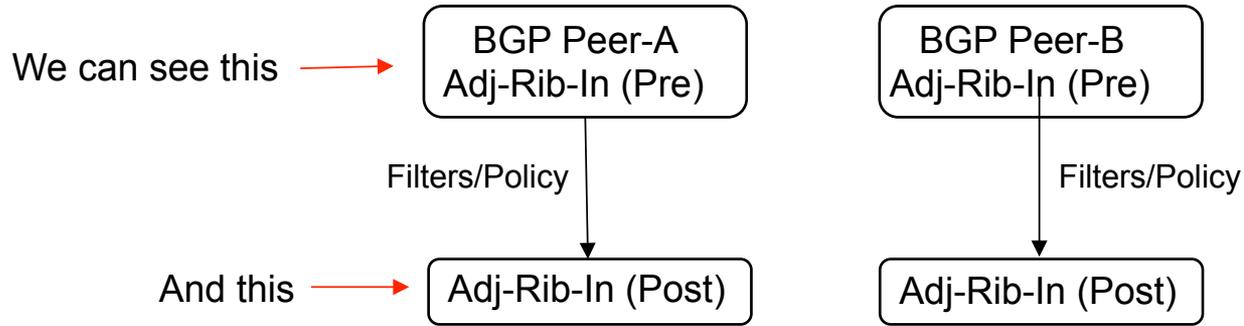
Loc-RIB and Adj-RIB-Out Extensions to BMP

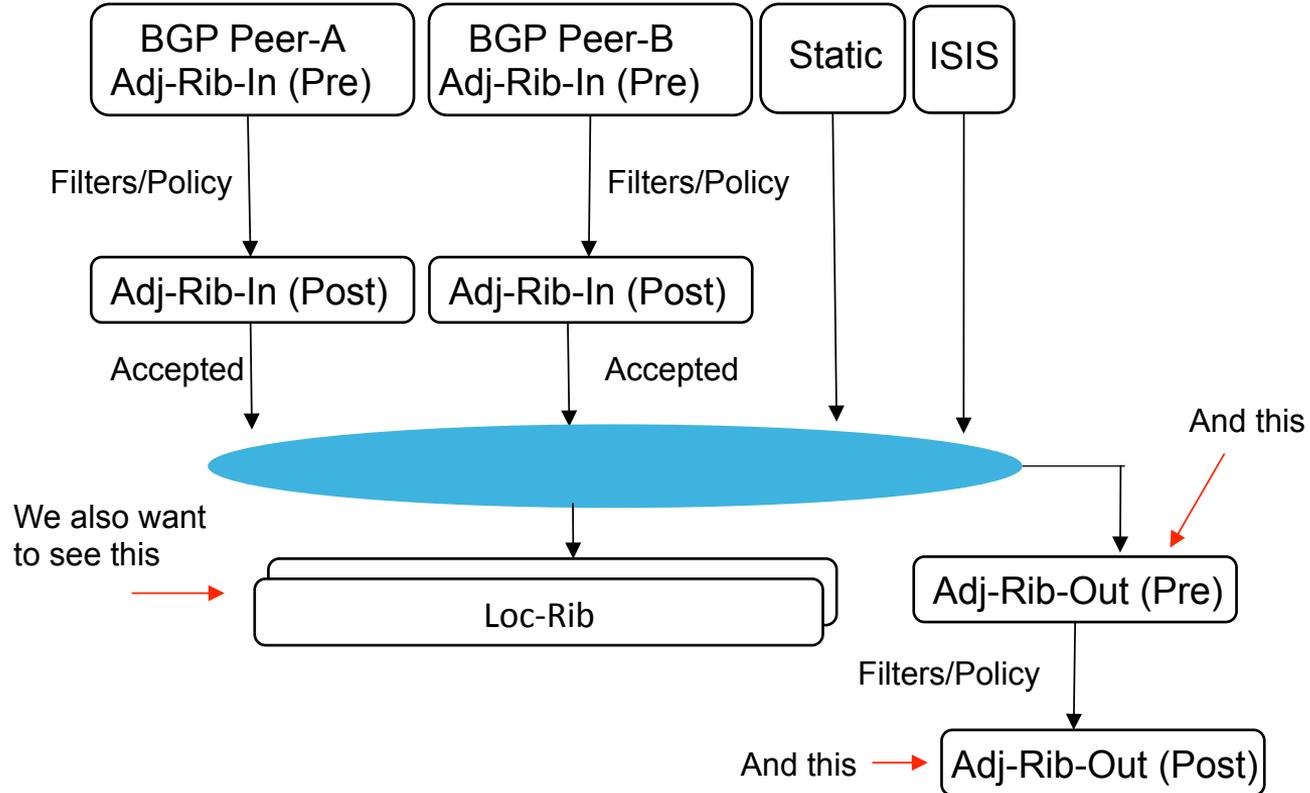exit(0)

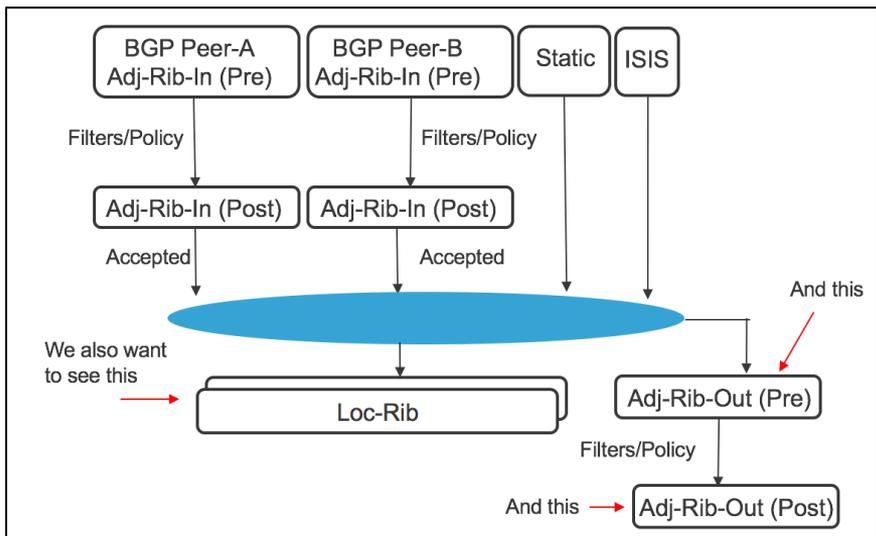# Loc-RIB and Adj-RIB-Out Extensions to BMP

Backup Slides

Current BMP status

RFC 7854 defines access to Adj-RIB-In only

We can see this →
⎡ BGP Peer-A
⎣ Adj-Rib-In (Pre)

BGP Peer-B
Adj-Rib-In (Pre)

Filters/Policy

Filters/Policy

And this →
Adj-Rib-In (Post)

Adj-Rib-In (Post)

Proposal: extend access to Adj-RIB-Out, Loc-RIB

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