TLV support for BMP Route Monitoring and Peer Down Messages

draft-ietf-grow-bmp-tlv

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IETF GROW WG
draft-ietf-grow-bmp-tlv

- Problem statement:
  - Not all BMP message types support TLVs
- Ideas in the draft:
  - Support TLVs in Route Monitoring
  - Support TLVs in Peer Down
  - Bump version for backwards compatibility
Since IETF113 / draft-ietf-grow-bmp-tlv-07

- BGP Update PDU in a BGP Message TLV
  - Changed consistency model to Route Mirroring
- Group TLV introduced
- Constellation of minor fixes
Status draft-ietf-grow-bmp-tlv-10

- Some feedback to process / waiting for conversation to wrap-up
Support for Enterprise-specific TLVs in the BGP Monitoring Protocol

draft-lucente-grow-bmp-tlv-ebit

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Problem statement

“Vendors need the ability to define proprietary Information Elements, because, for example, they are delivering a pre-standards product, or the Information Element is in some way commercially sensitive”
Status draft-ietf-grow-bmp-tlv-ebit-01

- Adopted as WG document
- Minor updates
- Open question: Should E-bit be applicable to other pieces too? I.e. Stats Types?
- No outstanding work
Logging of routing events in BGP Monitoring Protocol (BMP)

draft-lucente-grow-bmp-rel

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Intuition

• Add an event-driven message type to BMP:
  o Alerting
  o Reporting
  o On-change analysis

• Complement to:
  o State Synchronization (Route Monitoring)
  o Debugging (Route Mirroring)
  o Session reporting (Peer Up, Peer Down)
  o Stats
Execution

- Message body consistent to Route Mirroring
  - Per-Peer header
  - BGP Message TLV -> Event Subjects
  - Indexed Informational TLVs -> Event Attributes

- Event Reason TLV defined

- Flags stripped of pre-/post- Policy bit for Adj-Rib-In / Adj-Rib-Out
Status

• MVP to showcase the idea but work done in rush

• Humbled down proposal:
  o Applicability beyond just IPv4/IPv6 routes?
  o Should different BGP messages be reported?

• Throw a tomato to show interest