

# 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? Ie. 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:
  - Alerting
  - Reporting
  - On-change analysis
- Complement to:
  - State Synchronization (Route Monitoring)
  - Debugging (Route Mirroring)
  - Session reporting (Peer Up, Peer Down)
  - 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:
  - Applicability beyond just IPv4/IPv6 routes?
  - Should different BGP messages be reported?
- Throw a tomato to show interest

