

# 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 IETF112 / draft-ietf-grow-bmp-tlv-06

- Formalized the *boolean* story
- Asking IANA for two new registries:
  - BMP Route Monitoring Information TLVs
  - BMP Peer Down Information TLVs
- Added an Error Handling section:
  - Decoding of TLVs is subject to a well-formed BGP PDU
  - Message size limited to 65535 bytes

# Status draft-ietf-grow-bmp-tlv-07

- All feedback received so far has been processed
- No more outstanding work

# Support for Enterprise-specific TLVs in the BGP Monitoring Protocol

`draft-lucente-grow-bmp-tlv-ebit`

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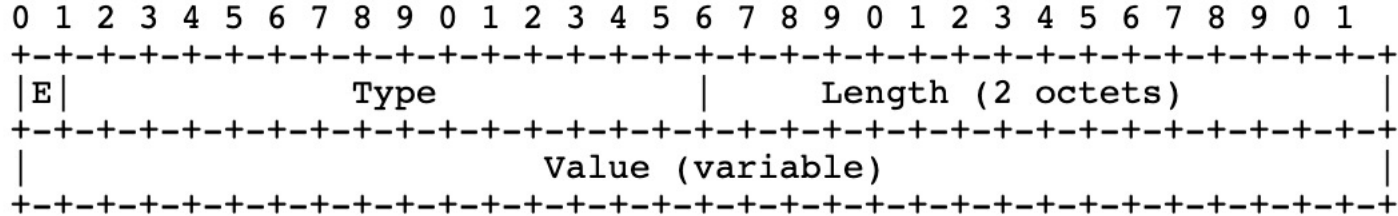
# Problem statement

“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”

# Introduction

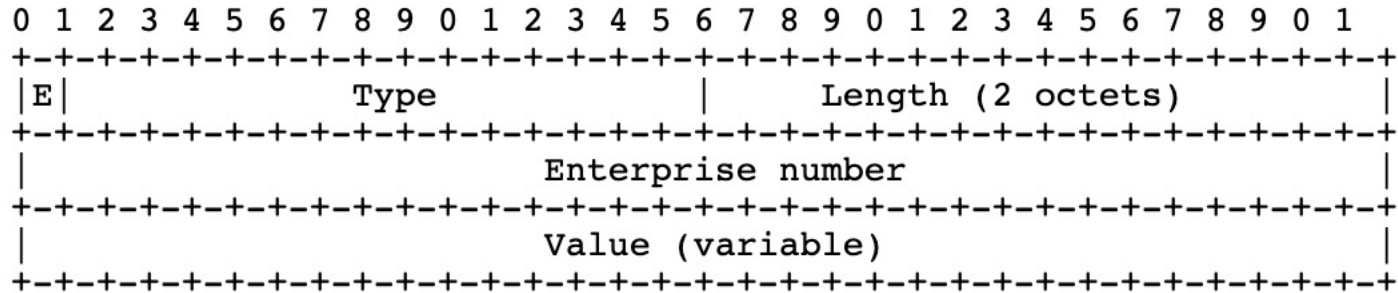
- PEN => IANA-assigned Private Enterprise Number
- Goal: By using a PEN in a TLV we can make it enterprise-specific
- Idea borrowed by IPFIX

# IANA-governed TLVs encoding





# Enterprise-specific TLVs encoding



# Status & Next steps

- Processed received feedback:
  - Added Operational Considerations section to recommend adopters to use publicly-available privately-defined registries
  - Misc editorial comments
- Open questions:
  - Is E-bit applicable to other pieces too? Ie. Message Types, Stats Types?
- Propose WG adoption?