

# BMP Loc-RIB Extension

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

Serpil Bayraktar and Tim Evens, Cisco

Paolo Lucente, NTT

22 Nov 2019

IETF GROW WG

# Drafting status

- Drafts first presented in Chicago (March 2017)
- Key draft to expand BMP protocol functionality beyond the existing RFC
- Since IETF 105:
  - Loc-RIB:
    - no changes to the draft!
    - We may have found something minor during the BMP Hackaton

# TLV support for BMP Route Monitoring and Peer Down Messages

`draft-ietf-grow-bmp-tlv`

Paolo Lucente, NTT

Yunan Gu, Huawei

Henk Smit

22 Nov 2019

IETF GROW WG

# draft-lucente-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 IETF 105

- Draft got adopted by the WG
- Minor editorial changes
- Peer Down case got better specified:
  - Reason code 1 and 3, a BGP Notification PDU follows; the PDU MAY be followed by TLV data
  - Reason code 2, a 2-byte field to give additional FSM info follows; this field MAY be followed by TLV data
  - For all other Reason codes, TLV data MAY follow the Reason field

# Next steps

- No open questions
- If no objections, shall we start to wrap-up?

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

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

Paolo Lucente, NTT

Yunan Gu, Huawei

22 Nov 2019

IETF GROW WG

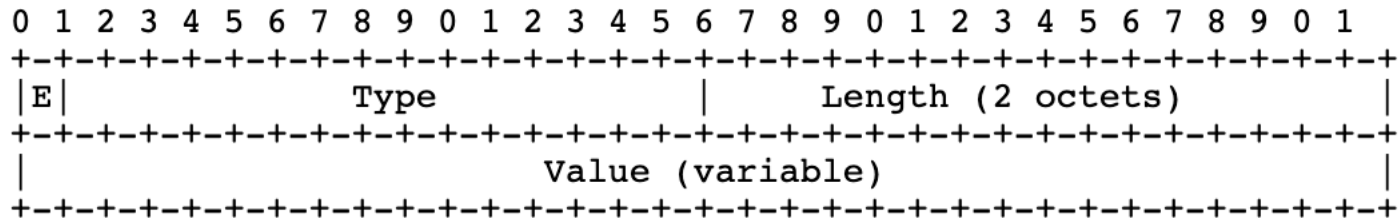
# Problem statement

“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”

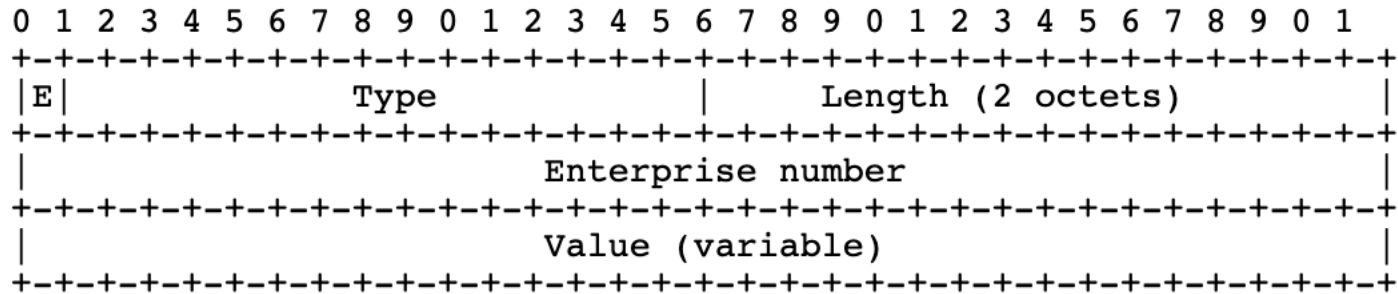
# Introduction

- 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



# Next steps

- Open questions:
  - Not much, tbh
  - Perhaps recommend that any sub-TLVs should have E-bit
  - Perhaps E-bit may be applicable to Message Types too
- Feedback & propose WG adoption?

# Compression of BMP Route Monitoring messages

`draft-msri-grow-bmp-compression`

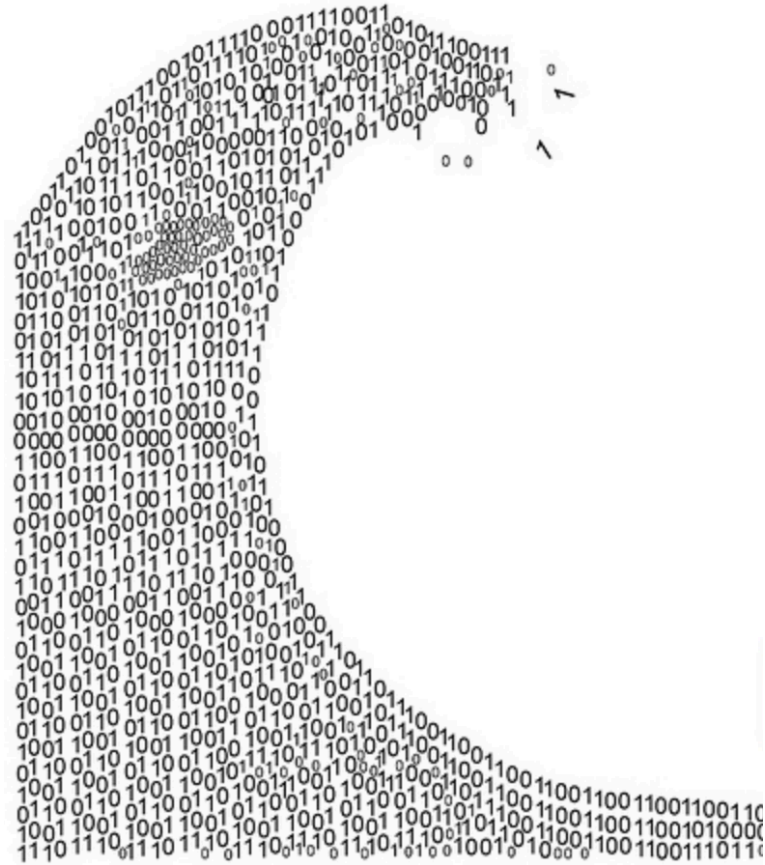
Mukul Srivastava, Juniper

Paolo Lucente, NTT

22 Nov 2019

IETF GROW WG

Problem  
statement



# Proposal

- Flag compressor info in a TLV in the Init Message
- Have a new Message Type for Compressed Route Monitoring (CRM)
- Essentially apply `draft-przygienda-idr-compressed-updates` to BMP

exit(0)