

# Logging of routing events in BGP Monitoring Protocol (BMP)

`draft-ietf-grow-bmp-rel`

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IETF GROW WG

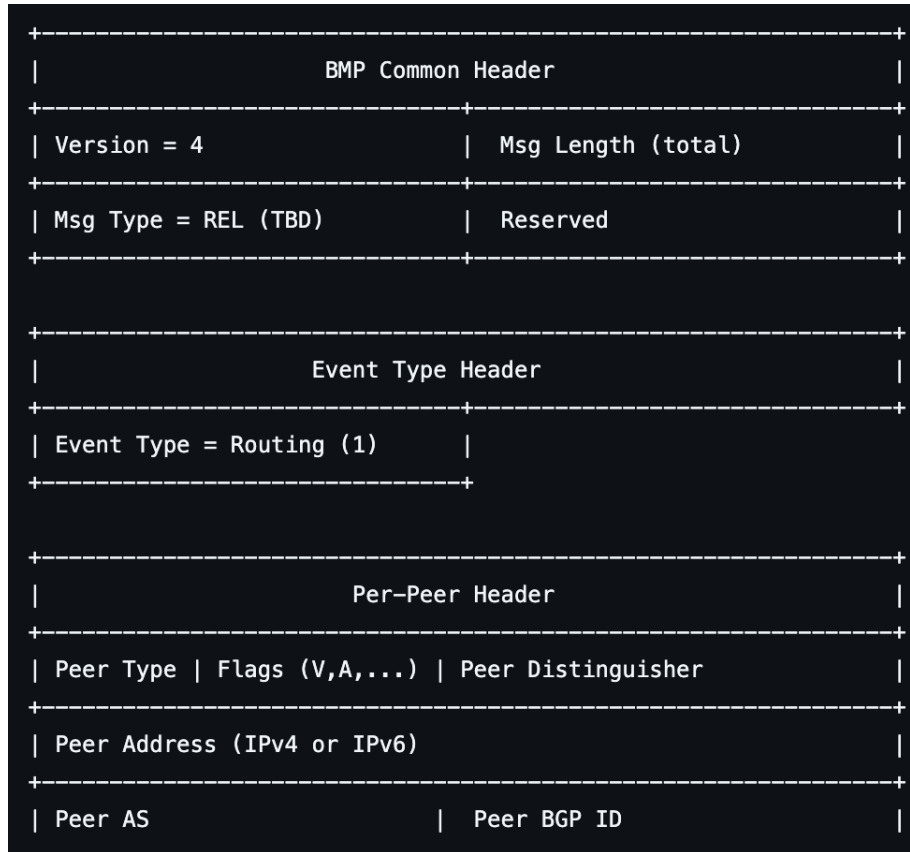
# Intuition

- 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

# Changes since .. IETF 122!

- Added Event Type field for generalization:
  - Routing events
  - Health events
- Worked out Validation Fail TLV:
  - Processed feedback from Lancheng (in -05)
    - Fail reason codes
  - Processed feedback from Fedor (to appear in -06)
    - Validation Fail -> Validation State Change
- Wire format examples

# Wire format example: Routing



# Wire format example: Health

```
+-----+
| BMP Common Header (Version=4, Msg Type=REL) |
+-----+
| Event Type Header: Health Event (2) |
+-----+
| TLV: Event Reason (Type=5) |
|   Length=4, Value=0x00000001 (Log Action) |
+-----+
| TLV: Log Action (Type=6) |
|   Length=13, Value=0x02 ("Unstable") | 0x00000064 (100s) |
|           | 0x00000005 (5 occurrences) |
+-----+
```

# Next steps / Open questions

- *“What does REL want to do as a grown up”* – Jeff
  - Event Types: open to feedback, do we need more types?