Fragmentation update for 6LoWPAN

draft-ietf-6lo-minimal-fragment
draft-ietf-6lo-fragment-recovery

Pascal Thubert
IETF 106
Singapore
Performance and Reliability improvements to 6LoWPAN Fragmentation

- **RFC 4944** (6LoWPAN)
  - Defines a minimal Fragmentation
  - End-to-End in Mesh Under, one hop in Route Over
- **draft-ietf-6lo-minimal-fragment** (WGLC completed in May 2019)
  - Enables Fragment Forwarding for Streamlining
  - Builds upon **draft-ietf-lwig-6lowpan-virtual-reassembly**
- **draft-ietf-6lo-fragment-recovery** (WGLC completed in June 2019)
  - Provides 6LoWPAN route-over end-to-end reliability
  - Selective retry, flow control
  - Requires new fragment formats
Changes in draft-ietf-6lo-minimal-fragment

• Dave’s review

  Is this a description of the VRB implementation?
  ⇒ No it is a generic description of what a FF solution must do and caveats
  ⇒ Added text to reflect that. VRB is one instance of FF, there are others.
  ⇒ Added Introduction section

  Is this this normative?
  ⇒ Presented as informational but mandates behavior. Q to Chairs and AD
  ⇒ Added References
  => Made RFC 4944 and VRB drafts normative references
Changes in draft-ietf-6lo-fragment-recovery

• Comments from Martine
  
  ICMP error to the source? Which content? e.g., hitting HL
  
  There’s a generic problem here:
  
  => what if the problem is a 6lo compression issue? By intermediary node?
Next steps

- In the hands of the AD (Suresh)