6lo WG presentation
IETF 94, Yokohama

draft-kelsey-6lo-mesh-link-establishment

Richard Kelsey (richard.kelsey@silabs.com)

Robert Cragie (robert.cragie@arm.com)

Brief description

- Protocol for link configuration, parameter dissemination and link quality determination
- Primarily aimed at 802.15.4-based mesh networks
- MLE message is a UDP datagram with TLV records as payload
- MLE messages can be secured using AES-CCM

History

- Developed primarily for ZigBee IP
- Originally submitted as individual submission draft-kelsey-intarea-mesh-link-establishment
- AD sponsored (Ralph Droms)
- Comments raised but document ended up expiring
- Port already allocated (19788: "ML")
- Numerous implementations (inc. Wireshark dissector, to be submitted)

Resurrection

- ZigBee IP still would prefer a RFC to refer to
- MLE in its base form is being used in other activities
  - Thread
  - ZigBee NAN
- The original draft has been resubmitted as draft-kelsey-6lo-mesh-link-establishment
- Now affiliated with 6lo WG
- Intended status informational

The way forward

- Comments requested on 6lo WG mailing list
  - Two responses so far
  - More review solicited
- Combine 6lo WG comments with comments on original MLE draft as input to the next revision
- Provide additional clarification
- Document is currently specific to ZigBee IP
- Consider choices regarding what the document(s) would look like moving forward

Document choices

1. Keep document as is
   - Provides a historical reference of what was used in ZigBee IP
   - Additional documents written as required
2. Split document into base set and ZigBee IP specific part
   - Base set provides reference for other work
   - Clarifies which parts are ZigBee IP specific
   - Additional documents written as required
3. Incorporate recent changes into draft
   - Need to clarify what would go in from Thread and/or ZigBee NAN