6lo WG presentation
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draft-kelsey-6lo-mesh-link-establishment
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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   - Provides a historical reference of what was used in ZigBee IP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