IPv6 Mesh over Bluetooth(R) Low Energy using IPSP

draft-ietf-6lo-blemesh-03

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Status

• draft-ietf-6lo-blemesh-03
  – Last revision, July 2018

• No update since IETF 102
  – Authors believe the document is ready
Running code (I/II)

- First prototype implementation
  - Using BLEEach as basis
    - RFC 7668 open source implementation for Contiki
    - One master (6LBR) and several slaves (6LNs)
  - Extended to support the draft
    - 6LR role has been added
    - Header compression
  - Based on static routing
    - Reminder: route-over routing is required, no specific protocol mandated
Running code (II/II)

• Experiment
  • CC2650 devices, Bluetooth 4.1, Contiki OS,
  • End-to-end communication between 6LN and 6LBR (3 hops)

• Preliminary measurements: average RTT (2-hop) is 252 ms
  – connInterval = 125 ms (62.5 ms of expected latency)
  – UDP packet
WGLC ?

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