SCHC-over-LoRaWAN

draft-petrov-lpwan-ipv6-schc-over-lorawan-01

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Status

• A task force has been setup
• Led by Semtech
• Companies involved: Semtech, Acklio, Actility, Kerlink, EDF R&D
What’s new in -01?

• LoRaWAN Architecture chapter added
• Mapping LPWAN entities to LoRaWAN ones
• Suggests where SCHC C/D and SCHC Fragmentation can be performed
LoRaWAN Architecture

Figure 1: LPWAN/LoRaWAN Architecture
What’s next?

- LoRaWAN SCHC Rules are being defined:
  - IPv6/UDP with zero bit sent on the wire (all « not-sent »)
  - IPv6/UDP/CoAP uplink/downlink POST
  - IPv6/UDP/CoAP uplink/downlink GET

- LoRaWAN Fragmentation parameters are being defined:
  - Uplink
  - Downlink Class A
  - Downlink Class B & C
End Goal

• Standard end-to-end HTTP POST from an end-device
  – Standard SCHC-rule file format needed
  – Load rule files into LoRaWAN Application Server + SCHC C/D