

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

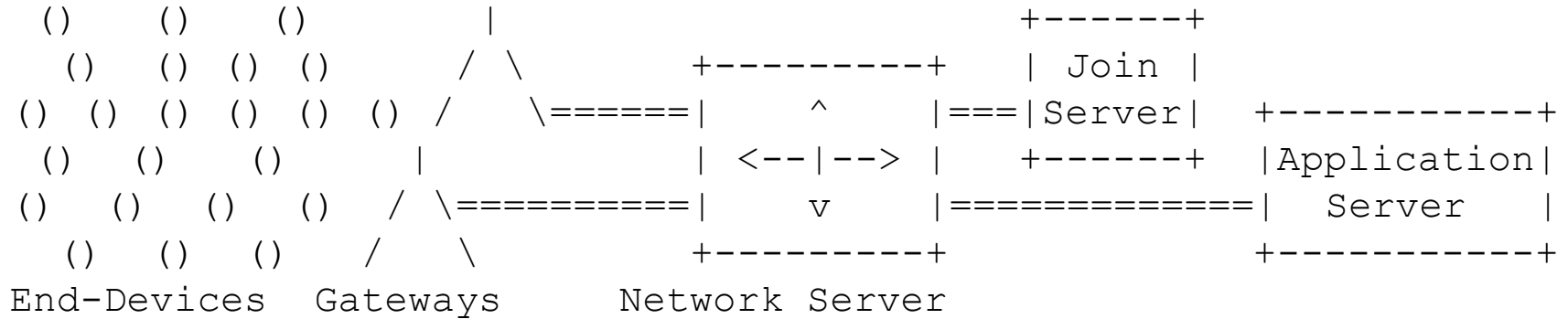


Figure 1: LPWAN/LoRaWAN Architecture

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