draft-barthel-lpwan-oam-schc-00

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Purpose

• General interest in OAM for IoT
• Start with simple stuff
  – ICMPv6 error messages
  – Ping
  – Traceroute
• Use-cases discussion
  – what messages should go on the LPWAN or be proxied at the Core
• Header Compression
  – Focus on RFC4443
Slide from IETF100

Scenarios considered

IPv6
IPv6?
трaceroute
Echo Req
Echo Reply?

LPWAN

gw
NS
SCHC core

Internet

IPv6
IPv6?
трaceroute
Echo Req
Echo Reply?

draft-barthel-icmpv6-schc-00
Status

• No change in draft since IETF104

• Implemented at this Hackathon:
  SCHC core responds to Pings from the Internet
  – Matching done with the matching part of a Compression Rule
  – Custom Compression Action reroutes action to ping response dedicated code

• Will augmented Rule description draft with this functionality
Next steps (unchanged from IETF104)

- Discuss use cases on mailing list
  - Is there other simple useful OAM stuff for IoT networks?
- Implement compression Rules and experiment
Thank you!