draft-minaburo-lpwan-RoHC-applicability-00

Ana Minaburo
Laurent Toutain
Outline

• RoHC functionality
• Next Steps
RoHC

RoHC U-Mode

Profile 2: IP/UDP

RoHC O-Mode
RoHC Applicability

- RoHC Framework (RFC 5795)
  - Use a Master SN to manage context synchronization, control compression and reduce the header size
    - Encoded with W-LSB
      - Complex (168p (RFC 3095) + 36p (RFC 5795) + 60p (RFC 4997) + 122p (RFC 5225)) vs to CoAP = 40p and IPv6 = 39p
      - Does not compress CoAP header, which is asymmetric
      - For multimedia flows
      - Not routable packets
      - Control information is sent in the format packet
      - ACL for small flows = 6 bytes
      - ACL for larger flows = 3 bytes
Next Steps

• RoHC for LPWAN
  – Work on CoAP profile
    • Proposed research work is trivial
    • Not enough for LPWAN
  – Adapt Framework to LPWAN networks
    • Asymmetric CoAP behavior – response can be a data packet
  – Patents?

• Or Concentrate efforts on a specific solution for LPWANs