YANG Modeled Telemetry over CORECONF

5 min version (includes speed-talking presenter)
presented @ NETCONF WG, IETF 100, Singapore

(Henk Birkholz {henk.birkholz@sit.fraunhofer.de},
Tianran Zhou {zhoutianran@huawei.com},
Xufeng Liu {xufeng_liu@jabil.com},
Eric Voit {evoit@cisco.com},)
Context

- Binary YANG transfer protocol
- Device-Type Scope
- Subscriptions via CoAP for COMI
- Configured Subscriptions and Call-Home
- Bootstrapping of Drop-Shipped Pledges
Problem Statement

• “There is no complete solution based on CoAP to enable a freshly unpacked YANG data store ("drop-shipped pledge", e.g. the cliché light bulb) to discover an appropriate home it can then Call-Home to in a secure and trusted manner in order to push (un-)solicited subscribed notifications.”

• Identified Gaps
  • FETCH Body media-types for Filter Expressions
    • Filter Expression encoding
  • CoAP Call-Home
  • Discovery / Join Mechanism for CoAP-based solutions (CORE WG)
    • Unknown Home / Changing Homes