IETF Hackathon:
LPWAN OpenSCHC

IETF 105
20-21 July 2019
Montreal

Hackathon Plan

- Improve open source implementation of SCHC
  - https://github.com/openschc

- What is SCHC (Static Context Header Compression)?
  - compressing headers and fragmenting packets to allow transport over LPWANs (Low Power Wide Area Networks)
  - standardized at the LPWAN Working Group of IETF
  - draft-ietf-lpwan-ipv6-static-context-hc (submitted to IESG)
  - draft-ietf-lpwan-coap-static-context-hc

What got done

- Improved *functionalities*
  - Merged several feature branches
    - Extensive fragmentation tests
    - Compression and fragmentation now integrated
    - Simple tests now work again
  - Added some OAM functionalities

- Made OpenSCHC *easier to use*
  - Created *User Guide,* added into Sphynx documentation
  - Wrote plan for fragmentation random tests

What we learned, perspectives

- Better drive developpement by contributors

- Lower adoption barrier of OpenSCHC even further

- Leverage remote contributors to work 24/7

- Provide easy-to-run, complete examples

- Becoming reference implementation of SCHC

Wrap Up

10 team members:
- Ana*
- Cédric
- Diego   (remote from Chile)
- Dominique
- Ivo
- Laurent
- Matthieu
- Pascal
- Sergio   (remote from Spain)
- Shoichi   (remote from Japan)

*: First timers @ IETF/Hackathon

https://github.com/openschc