IETF106 Hackathon report

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SCHC LPWAN team

Team members:
- Cédric
- Laurent
- Shoichi
- Arun
- Olivier (First timer @ IETF/Hackathon)
- Rahul
- Juan Carlos
- Dominique
- Sandoche
- Diego (remote, First timer @ Hackathon)
- Guillaume
- Ryan

https://github.com/openschc
Hackathon goals

- **SCHC (Static Context Header Compression and fragmentation) for LPWANs**
  - draft-ietf-lpwan-ipv6-static-context-hc-22
  - draft-ietf-lpwan-coap-static-context-hc-11

- **OpenSCHC implementation**
  - Clean up repo ✔
  - Improve documentation ✔
  - Improve functionality ✔
  - Setup Travis CI ✔

- **PySCHC (Univ. de Chile) implementation**
What we learned, future work

• Better understanding of SCHC specification
  – Inactivity timer may be useful in Fragment sender
• Spotted missing element in data model (future work draft)
  – Direction that Frag rules apply to
• Spotted issues in OpenSCHC implementation (Python3)
  – Actively fixed them during Hackathon
  – Current code with test env. too big to run on Pycom
• More tests needed
  – test automation
  – need for better reporting of missing features (Issues)
• Suggestion for interop at next Hackathon
Thank you for your attention