

IETF I06 Hackathon report

Dominique Barthel dominique.barthel@orange.com

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



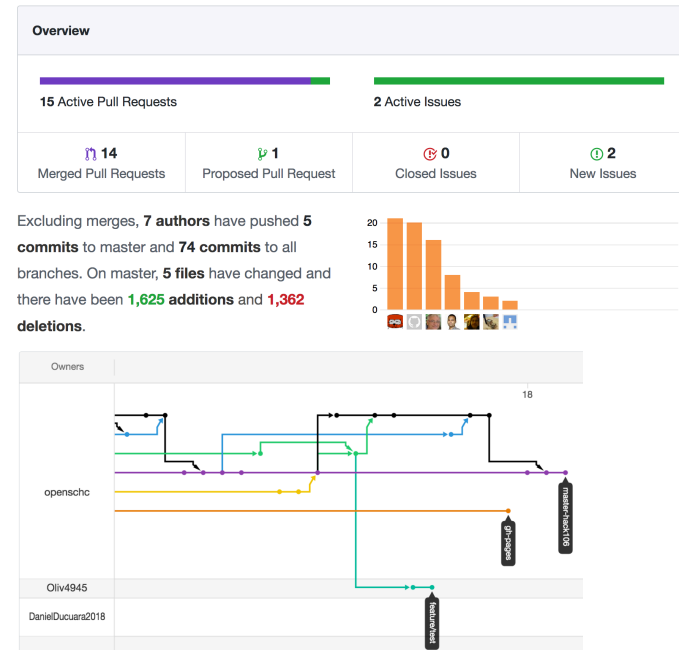
<https://github.com/openschc>

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

November 15, 2019 – November 18, 2019

Period: 3 days -



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