

IETF Hackathon: SCHC for LPWAN

IETF 102
14-15 July, 2018
Montreal



Hackathon Plan

- Provide open source implementation of SCHC
 - <https://datatracker.ietf.org/doc/draft-ietf-lpwan-ipv6-static-context-hc/>
 - Advance state of code to reflect -16
- Read and code

What got done

- Educated two newcomers on SCHC, provided a fresh review
- Updated a few contributors on recent draft advances
- A dozen notes for draft improvement, one functional
- Updated fragmentation code
 - <https://github.com/tanupoo/schc-test>
 - More accurate implementation of draft
 - Updated to reflect -16 changes
- Nw-side Python implementation of compression improved

What we learned

- Knew constrained device operation is time-consuming
- Structured our code base into
 - Computer-based Python3
 - Linux-based micropython
 - Pycom's own version of micropython

Wrap Up

Team members:

6 contributors locally + 1 in Japan

2 timers @ IETF/Hackathon

We'll carry on working on the code during the IETF week