

draft-ietf-lpwan-ipv6-static-context-hc-18

Authors:

Laurent Toutain <Laurent.Toutain@imt-atlantique.fr>

Carles Gomez <carlesgo@entel.upc.edu>

Ana Minaburo <ana@ackl.io>

Dominique Barthel <dominique.barthel@orange.com>

Juan Carlos Zuniga <JuanCarlos.Zuniga@sigfox.com>

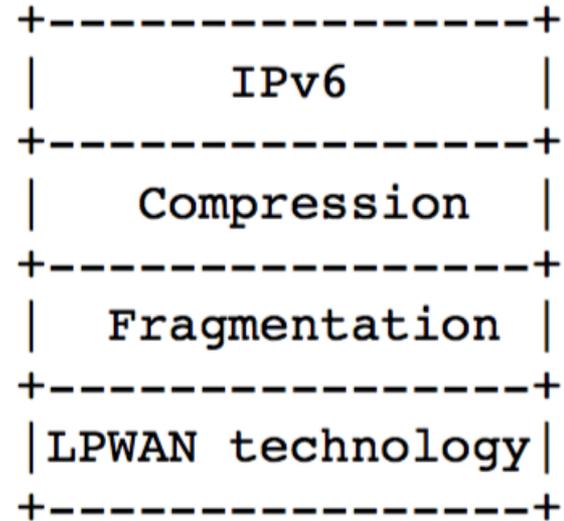
Presentation agenda

- What is this draft about?
- What has happened since IETF103?
- Hackathon@IETF104 report
- What is coming up next?

What is this draft about?

3 deliverables of this draft

- Specification of a Header Compression engine (Section 7)
 - Generic engine, uses Static Context (-> SCHC)
- Specification of UDP/IPv6 compression (Section 10)
 - Using this SCHC engine
- Specification of a fragmentation protocol (Section 8)
 - Has 3 different “modes” described in this draft
 - Different modes address different requirements



What has happened since IETF103?

What has happened since IETF103?

- Second WGLC initiated Nov 12th, closed Nov 27th
 - Devoted to fragmentation
- Presentation of fragmentation to LoRa Alliance Nov 20th
- MIC made optional again
 - Integrity Checking is mandatory, MIC is optional
 - Ticket #32 duly updated with discussion items and conclusions
- Text reworked based on Charlie's review
 - Lots of text improvements, thanks Charlie!
 - Target Value type and interoperable Rule description pushed off to another draft
- Published -18 Dec 14th, 2018

What has happened since IETF103?

- Submitted to IESG Dec 15th, Standards track
- Early IoT Dir review comments by Carsten, March 4th
 - Thank you, Carsten!
- IETF104 Hackathon March 23rd - 24th

SCHC Hackathon at IETF104



9 team members

- Cédric Adjih
- Sergio Aguilar*+
- José Ignacio Alamos*
- Sandoche Balakrichenan
- Dominique Barthel
- Antoine Bernard*
- Ivaylo Petrov
- Shoichi Sakane+
- Laurent Toutain

* First timer @ IETF/Hackathon
+ Remote



<https://github.com/openschc>

Work done at Hackathon-104

- Made OpenSCHC *easier to use*
 - Cleaned up code repo, added README, new Wiki
 - Adjusted code to run with micropython, not just Python3
 - Added/changed unit tests to support Pytest
 - Added Sphinx documentation
- Improved *functionalities*
 - Augmented test coverage
 - Implemented more compression functionalities
 - Added connector to exchange messages over LoRaWAN with pycom device

Lessons learned at Hackathon-I04



- Some parts of spec not understood by implementors
 - *We will add examples in Appendix section*
- Implementing a full system requires describing the compression rule, the fragmentation parameters, etc. New draft started about data model for these
 - [draft-toutain-lpwan-schc-yang-data-model](#)
 - *Work at this hackathon provides food for new draft*

What is coming up next?

What is coming up next?

- Act on Carsten's comments
- Expect to publish -19 around end of April
- Work in synch with reviews by IESG
- Carry on OpenSCHC development

Thank you for your attention