draft-ietf-lpwan-schc-over-sigfox-03
&
PySCHC Implementation

Juan Carlos Zúñiga (Sigfox), Carles Gómez (UPC),

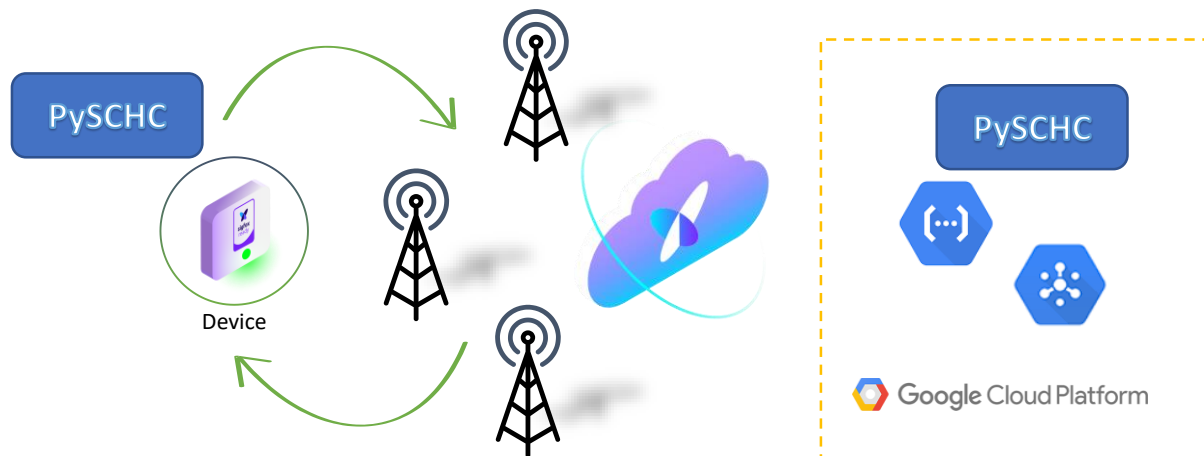Laurent Toutain (IMT-Atlantique),

Diego Wistuba(U Chile), Sandra Céspedes (U Chile), Sergio Aguilar (UPC)

Updates

- Hackathon: Off-line coding between UChile and UPC
  - ACK-on-Error, No-ACK…

- Last draft updates (rev 02, 03)
  - Added more details about **ACK-on-Error data fragmentation and integrity mode** implementation
  - Update references and terminology to match RFC 8724
  - Usage of [Sigfox Sequence #] on SCHC Receiver to optimize SCHC ACK transmissions in ACK-on-Error (e.g. All-1 fragment)
  - Added recommendation for No-ACK usage (see next slides)

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Testing Network Architecture

- PySCHC SW
- Pycom (LoPy4)
- Sigfox Network
- Google Cloud *

* *https://cloud.google.com/community/tutorials/sigfox-gw*

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No-ACK

- Recommendation to use FCN to indicate size of packet:
  - In combination with [Sigfox Sequence #], this allows implicit indication about expected # of fragments and/or size of packet
  - Network can induce whether all fragments have been received or not

Next Steps

- Interoperability tests between PySCHC and other implementations should also help defining protocol parameters
  - Planned for upcoming IETF Hackathons:
  - IETF Bangkok? – TBD at the moment

- Continue fine-tuning of:
  - Timers
  - SCHC Header fields (Rules, DTag, etc.)

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