

LPWAN BoF

Low-Power Wide Area Networks

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Low-Power Wide Area Networks

Low-Power Wide Area Networks (LPWAN) are long range Low-power Lossy Networks, many of which operating in license-exempt bands. LPWANs provide low-rate connectivity to vast numbers of battery-powered devices over distances that may span tens of miles. Existing pilot deployments have shown the huge potential and met industrial interest, but the loose coupling with the Internet makes the device management and network operation complex and implementation specific. As of today, there is little to no use of IETF technologies in LPWANs at large, and there is a need to evaluate their applicability.

Agenda

Hilton Buenos Aires, Buenos Aires, Argentina

Monday, April 4, 2016.

17:40–19:40 Room Buen Ayre C

- 5 min. Administrativia (scribes), Agenda Bashing, Chair
- 5 min. Opening Remarks, AD

The Problem

- 15 min. IP Challenges of LPWANs, Pascal Thubert
- 15 min. LP-WAN GAP Analysis, Ana Minaburo
- 5 min. IPv6 Neighbor Discovery, Carles Gomez
- 15 min. APP-level protocols/AAA/Management/Security,
Alexander Pelov

Agenda (cont.)

Solutions

- 10 min. Optimized 6LoWPAN Fragmentation Header for LPWAN, Carles Gomez
- 15 min. Constrained Signaling Over LP-WAN including AAA, Alexander Pelov
- 30 min. Discussion
- 5 min. Wrap-Up, Chair, AD

Documents

- **LPWAN Related Drafts**

- draft-minaburo-lp-wan-gap-analysis-01
- draft-gomez-lpwan-fragmentation-header-00
- draft-pelov-core-cosol-01 (CoAP)
- draft-pelov-yang-lora-01

- **Other Related Documents**

- Spreadsheet of link technologies
https://docs.google.com/document/d/1n7cXN4_VuI8imy8MG3-fHjI9FNiNvYfdB4txN4hDQ-w/edit

Please Read the Drafts!