**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<IEEE802.15 SC minutes>** | |
| Date Submitted | [13 July 2017] | |
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| Re: | [802.15 Standing Committees Meetings in Berlin, Germany, July 2017] | |
| Abstract | [IEEE 802.15 Maintenance and WNG Standing Committee Minutes] | |
| Purpose | [Official minutes of the Standing Committee Session] | |
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**IEEE 802.15 Plenary Meeting – Session #107**

**Vancouver, Canada**

**March 13-16, 2017**

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# SC Maintenance Minutes

## Wednesday 12 July PM2

**16:00** SC Maintenance called to order by Chair, Pat Kinney, Kinney Consulting

First topic was the corrigendum draft d1p802.15.4-2015-Corri-1-2017 that, although passing letter ballot had two significant mistakes conflicting on the transmission order of the 64-bit MAC address. P Kinney presented the d2p802.15.4-2015-Corri-1-2017 corrective draft. The unanimous consensus of the group was that it corrected the transmission order stated in 802.15.4-2015 back to the order stated in 802.15.4-2003, 802.15.4-2006, and 802.15.4-2011. However, it was believed that the figure was not intuitive. Another figure was drawn obtaining the consensus of the group.

P Kinney asked the group if there would be any objections to adding the CID value given to IEEE 802.15 to the TSCH short address nonce, there were none.

The next topic was the discussion as to what changes should go into the next revision of 802.15.4. Rolling up all approved amendments and corrigendum are the minimal changes to which IEEE-SA has produced a roll-up edition. Other proposals from group included:

1. Replace Frequency Band (MHz) to Band designator throughout the standard per Table 10-1. Example shown in Table 10-2.
2. 920 MHz band in Table 7-19 specified twice.
3. Band designation specified in Table 7-19 need to be consistent with Table 10-1
4. Table header should be sentence case per IEEE style guide. Example shown in Table 7-19

**17:20** Upon no further discussion nor objection, the meeting was adjourned

# SC IETF Minutes

## Tuesday 11 July PM2

**Meeting Objectives / Session Focus - SC IETF**

* Discuss agenda items for next week’s IETF conference in Prague

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| **6tisch**  Dynamic Scheduling  \* <draft-ietf-6tisch-6p-protocol-07> (Xavi Vilajosana)  \* <draft-ietf-6tisch-6top-sf0-05> (Diego Dujovne)  Security  \* <draft-ietf-6tisch-minimal-security-03> (Malisa Vucinic)  \* update security DT and other derived work (Michael Richardson)  Unchartered items, time permitting  \* Innovation Liaison Officer (Xavi Vilajosana  \* <draft-duquennoy-6tisch-asf> (Simon Duquennoy)  \* <draft-munoz-6tisch-examples-02> (Jonathan Munoz)  \* <draft-papadopoulos-6tisch-pre-reqs-00> (Georgios Papadopoulos)  \* <draft-lijo-6lo-expiration-time-04> (Lijo Thomas)  **core**  Published   * draft-ietf-core-etch now RFC 8132   In IESG Processing, more WG input required:   * draft-ietf-core-links-json-09   draft-ietf-core-coap-tcp-tls-09  Discuss this based on:   * draft-silverajan-core-coap-alternative-transports-10 * draft-silverajan-core-coap-protocol-negotiation-06   WG documents:   * draft-ietf-core-cocoa-01   Objective: Evaluate positions of related WGs/RGs and go for WGLC (10)   * draft-ietf-core-comi-00 draft-ietf-core-sid-01 * draft-ietf-core-yang-cbor-04 * draft-veillette-core-yang-library-00   Objective: Go for WGLC (35).  **6lo**  An Update to 6LoWPAN ND Pascal Thubert https://tools.ietf.org/html/draft-ietf-6lo-rfc6775-update-06  Discuss updates from WGLC comments  https://tools.ietf.org/html/draft-ietf-6lo-ap-nd/  https://tools.ietf.org/html/draft-ietf-6lo-backbone-router/  Updates and status  IPv6 over NFC Younghwan Choi  https://tools.ietf.org/wg/6lo/draft-ietf-6lo-nfc-07  Discuss WG review comments  6lo Applicability and Use Cases Yong-Geun Hong https://tools.ietf.org/html/draft-ietf-6lo-use-cases-02  New revision and updates based on WG comments  Packet Expiration Time in 6lo Routing Header Charlie Perkins https://www.ietf.org/id/draft-lijo-6lo-expiration-time-03  Update of the draft based on IETF98 comments  Transmission of IPv6 Packets over PLC Networks Jiangquiang Huo https://tools.ietf.org/html/draft-huo-6lo-plc-01  Updates of the draft based on IETF and external SDO comments  Transmission of IPv6 packets over IEEE 802.15.6 WBAN Sajjad Akbar https://tools.ietf.org/html/draft-sajjad-6lo-wban-00  First time presentation and check WG interest  Fragmentation Update: Fragmentation flow control and recovery https://tools.ietf.org/html/draft-thubert-6lo-forwarding-fragments-05  Updates and request for WG adoption  Open Discussion on Fragmentation Moderated by Chairs  Detnet  DetNet Architecture: Norm Finn draft-ietf-detnet-architecture-02  DetNet Data Plane Encapsulation: Jouni Korhonen (Remote) draft-dt-detnet-dp-sol-01  DetNet Flow Information Model Based on TSN: Balázs Varga draft-farkas-detnet-flow-information-model-01  Considerations for Flow Information Model WG document: Mach Chen  DetNet Security Considerations Tal Mizrahi draft-sdt-detnet-security-01  Implementation Report: DetNet Data Plane Protection János Farkas draft-dt-detnet-dp-sol-01  802.1 TSN Summary and Discussion: János Farkas, Pat Thaler, Norm Finn http://www.ieee802.org/1/pages/tsn.html  lp-wan  LPWAN at the Hackathon(10 min) Presenter: Dominique Barthel  09:50> LPWAN Overview WGLC results and next steps (10 min) Presenter: Stephen Farrell https://datatracker.ietf.org/doc/draft-ietf-lpwan-overview/  SCHC LPWAN Fragmentation Header Presenter: Carles Gomez https://datatracker.ietf.org/doc/draft-ietf-lpwan-ipv6-static-context-hc/  LPWAN Static Context Header Compression (SCHC) for IPv6 and UDP (10 min + 5mn Q&A) Presenter: Laurent Toutain, Ana Minaburo  https://datatracker.ietf.org/doc/draft-ietf-lpwan-ipv6-static-context-hc/  LPWAN SCHC for CoAP Presenter: Laurent Toutain, Ana Minaburo https://datatracker.ietf.org/doc/draft-ietf-lpwan-coap-static-context-hc/  draft-lagos-lpwan-icmpv6-static-context-hc-00(10 mn) Presenter: Diego Dujovne https://datatracker.ietf.org/doc/draft-lagos-lpwan-icmpv6-static-context-hc-00  Rechartering Items so far Presenter: Ana Minaburo  Rechartering Discussion Alexander, Pascal) 1  News from IEEE meeting ( Bob Heile) |

**AOB**

* None offered

**Adjourned at 4:33pm**

# SC WNG meeting

## Wednesday 12 July AM2

**11:12** SC WNG called to order by Chair P Kinney, Kinney Consulting

There were two presentations:

* Demand of Highly Reliable Wireless Network and Future Vision for Car Manufacturing Line in Factory (15-17-0398-00) by Hiroshi Kobayashi of Nissan Motors
  + Q: timing constraint? 100 ms, 1 sec, or just delivered? R: response within a cycle is 30 or 60 seconds
  + Q: differences between Type A and Type B? R: Type A is small but Type B is raw data so it could be a very large amount of data.
  + Q: any interference affecting wireless sensors? R: wireless system would take into account the existing users on the floor, e.g. if 2.4 GHz is already used we would use 5 GHz for the new system.
  + C: dependability needs to be measured
  + Q: use proprietary wireless sensors or standardized wireless? R: within company we have standards but would like a globalized standard.
  + Q: new standard in IEEE 802 needed? R: currently we need parameter settings that are difficult to send to other plants, we would like them to be easier to deploy
* On the way to Industry 4.0 (15-16-0399-00) by Johannes Diem of Mahle International GmbH
* Q: continuous data or is it pushed? R: piloting as to how info is needed
* Q: slide 9 – industry connectivity virtualized network may help

**12:18** meeting adjourned