**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title |  |
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| Re: | [802.15 Standing Committees Meetings in Orlando, Nov 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 #114**

**Warsaw, Poland**

**May 7-10, 2018**

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# SC Maintenance Minutes

## Monday 7 May PM1

**10:30** Meeting opened

* No changes requested to published standards
* No changes requested to operations manual

10:35 Upon no further discussion nor objection, the meeting was recessed

# SC WNG minutes

## Wednesday 9 May AM2

* + **No presentations requests**

# SC IETF Minutes

## Monday 7 May PM1

### Meeting Objectives / Session Focus - SC IETF

Review purpose of this standing committee.

* Purpose is to track the WGs focused on higher layer protocols designed for 802.15.4.
* Upon reviewing the previous list of groups being tracked it was agreed to drop Detnet, T2TRG, and Ace; however Suit was picked up.
* IETF WG tracking was assigned to the following volunteers:
	+ 6lo, Roll: C Perkins
	+ Suit: Tero Kivinen
	+ Core: Demir Rakanovic
	+ 6tisch, lpwan: Pat Kinney

Review of WG minutes from IETF 101 conference in London

**LP-WAN**

**Minutes:** [**https://datatracker.ietf.org/doc/minutes-101-lpwan**](https://datatracker.ietf.org/doc/minutes-101-lpwan)

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

#### Ana presents updates to -10 since last IETF. Work on fragmentation. In version 10. editorial change, abstract reduced, terminology added

#### Three new sections: SCHC overview, Rule Id, Padding

#### Clarify naming of fragmentation modes. 3 names remain: No Ack, Ack on error, Ack Always. We don't use the name "Window modes" any more

draft-petrov-lpwan-ipv6-schc-over-lorawan

##### A good representative group of Lorawan technology. Architecture document and describe where SCHC C/D F/R will be placed. IPv6/UDP with 0 bit sent on the wire. CoAP with POST and GET. Fragmentation parameters for uplink, downlink class A (sleeping device) and downlink class B (beacon) and C (always listening devices)

##### End goal for loRa Alliance: HTTP (with CoAP proxy)

##### Device POSTs a value, that get posted in the cloud. The final idea is to have conversion between HTTP and CoAP with a proxy.

##### End-to-end POST, but not end-to-end HTTP.

##### Not planning to have HTTP over SCHC: CoAP to the compressor and then HTTP proxy to the application.

draft-zuniga-lpwan-schc-over-sigfox

A lot of work "behind the scenes" - testing and optimizing internally. Plan to provide recommendations in the next revision.

draft-minaburo-lpwan-nbiot-hc

In NB-IoT there is different way to transmit data , depending on device state (connected, un-connected, power-save modes)

 Bearer handling: device can go from one mode to another (depending of the buffer size)

Mobility is possible (device is sleeping and wake up in another network)

add LTE-M and 5G NR-MTC (the definition is just beginning)

Transmission mode: DoNAS: full use of SCHC features

Connected mode: reliability and segmentation provided. Doesn't need the corresponding SCHC features. Padding is handled by low layer

### [6tisch](https://datatracker.ietf.org/doc/minutes-interim-2018-6tisch-03-201803021600/)

The WG meeting covered 9 drafts, including 3 unchartered -00 drafts.

* draft-ietf-6tisch-6top-protocol is in IESG LC. Xavi Vilajosana (author) gives an update about the changes triggered by the detailed reviews. These changes are editorial; we do not expect these changes to derail the IESG LC process.
* draft-ietf-6tisch-minimal-security is close to WGLC. A comment was made about using FETCH rather than GET in the join request. Malisa Vucinic (editor) to evaluate the use of FETCH and report to WG.
* draft-ietf-6tisch-terminology was updated to follow the work of the WG. No action needed
* draft-ietf-6tisch-6top-sfx: discussion about status and outcome of this document.
* draft-chang-6tisch-msf is stable and answers a point in the charter. The authors asks for WG adoption. Chairs to confirm WG adoption on the ML.
* draft-duquennoy-6tisch-asf presents new interesting ideas in scheduling function. Discussion about how to integrate with existing work. Simon Duquennoy (editor) to work with WG to integrate ideas of the draft-duquennoy-6tisch-asf into draft-chang-6tisch-msf (pending bit might be a different document).
* draft-vilajosana-6tisch-globaltime introduces new (unchartered) work on how to give 6TiSCH node knowledge of global time. Discussions about drift, security. Sense from room is that there is interest. Chairs to assess consensus on whether there is interest to work this draft, and possibly add to the charter.
* draft-richardson-6tisch-enrollment-enhanced-beacon and draft-richardson-6tisch-roll-enrollment-priority introduce new work on how a node can select the right network and join proxy to join. Discussion on use cases.
* he WG meeting was followed by 3 side meetings, all held in the code lounge:
* a side meeting to discuss the use case for draft-richardson-6tisch-enrollment-enhanced-beacon. The group identified and agreed on the uses, and Michael Richardson (editor) took the action item to modify the slides to be presented in the ROLL WG meeting, and the draft.
* a side meeting to prepare the 2nd F-Interop 6TiSCH interop event
* a side hackathon around the OpenWSN reference open-source implementation of the 6TiSCH stack.
* Some "running code" announcements were made during the 6TiSCH WG meeting:
* 6TiSCH Simulator, release 1.0.0 (​https://bitbucket.org/6tisch/simulator/). Can be used to assess the performance of a 6TiSCH network.
* OpenWSN, release 1.12.0 (​http://www.openwsn.org/). Reference open-source 6TiSCH stack implementation. "Golden device" firmware for interop events.
* Wireshark, dissectors for all major protocols contributed to main Wireshark repository

### core

no minutes were published

* + https://tools.ietf.org/html/draft-ietf-core-coap-tcp-tls-10

Significant email traffic concerning:

* Endpoint Client name/Endpoint name in RD draft
	+ term “endpoint name” is used in the IETF RD draft while the OMA LwM2M spec uses the term “endpoint client name”
* Questions on draft-ietf-core-resource-directory
	+ Draft has been around for almost 10 years, most emails focused on possible enhancements
* Draft-ietf-core-senml-14
	+ Mostly approvals

### 6lo

**Minutes:** [**https://datatracker.ietf.org/doc/minutes-101-6lo/**](https://datatracker.ietf.org/doc/minutes-101-6lo/)

<https://tools.ietf.org/html/draft-ietf-6lo-rfc6775-update-14>

Discuss updates on RUID size and security length <https://tools.ietf.org/html/draft-ietf-6lo-ap-nd-06>

WGLC Preparation and update: <https://tools.ietf.org/html/draft-ietf-6lo-backbone-router-06>

6lo NFC draft WG LC status update

<https://tools.ietf.org/wg/6lo/draft-ietf-6lo-nfc-09>

Update on 6lowPAN Routing header lifetime <https://tools.ietf.org/html/draft-ietf-6lo-deadline-time>

6lo Applicability and Use Cases Updates <https://tools.ietf.org/html/draft-ietf-6lo-use-cases-04>

Fragmentation Design team formation

* Goal, overview and Status of the progress
* draft-watteyne-6lo-minimal-fragment
* draft-thubert-6lo-fragment-recovery

**AOB**

* None offered

SC IETF adjourned at 15:32