IPv6 over the TSCH mode of IEEE 802.15.4

**IETF 99 Prague
Monday 17 July 2017**

Chairs:
 Pascal Thubert
 Thomas Watteyne

Etherpad for minutes:
 http://etherpad.tools.ietf.org:9000/p/notes-ietf-99-6tisch?useMonospaceFont=true

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*** From the Webex login

Agenda

13:30 Intro and Status (Chairs)   **[35min]**

- **Note-Well, Blue Sheets, Scribes, Agenda Bashing**   **[5min]**
- **Status of the work; progress vs. charter**   **[5min]**
- **Summary 1st F-Interop 6TiSCH Interoperability Event (Maria Rita Palattella)** **[10min]**
- **Summary OpenWSN hackathon (Tengfei Chang)**   **[5min]**

13:55 Dynamic Scheduling   **[25min]**

- **6top protocol draft-ietf-6tisch-6top-protocol-07 (Xavi Vilajosana)** **[15min]**
- **Service Function 0 draft-ietf-6tisch-6top-sf0-05 (Diego Dujovne)**   **[10min]**

14:20 Security   **[30min]**

- **draft-ietf-6tisch-minimal-security-03 (Mališa Vučinić)**   **[15min]**
- **update security DT and other derived work (Michael)**   **[15min]**
- **draft-ietf-6tisch-dtsecurity-secure-join-01**
- **draft-richardson-6tisch-join-enhanced-beacon-01**
- **draft-richardson-6tisch-minimal-rekey-01**

Agenda

14:50 Unchartered items, time permitting **[QS]**

- **draft-duquennoy-6tisch-asf** (Simon Duquennoy) **[10min]**

- **draft-munoz-6tisch-examples-02** (Jonathan Muñoz) **[5min]**

- **draft-papadopoulos-6tisch-pre-reqs-00** (Georgios Papadopoulos) **[5min]**

- **draft-lijo-6lo-expiration-time-04** (Lijo Thomas) **[5min]**

15:25 AOB **[…]**

6TiSCH@IETF99

Volunteers

- notetaker 1: Dominique Barthel
- notetaker 2: Francesca Palombini
- Jabber scribe: Ines Robles
- Jabber: Michael Richardson

RFC 8137

IEEE 802.15.4 Information Element for the IETF

Abstract

   IEEE Std 802.15.4 defines Information Elements (IEs) that can be used
   to extend 802.15.4 in an interoperable manner. The IEEE 802.15
   Assigned Numbers Authority (ANA) manages the registry of the
   Information Elements. This document formulates a request for ANA to
   allocate a number from that registry for the IETF and describes how
   the IE is formatted to provide subtypes.

RFC 8180

Minimal IPv6 over the TSCH Mode of IEEE 802.15.4e (6TiSCH) Configuration

Abstract

   This document describes a minimal mode of operation for an IPv6 over
   the TSCH mode of IEEE 802.15.4e (6TiSCH) network. This minimal mode
   of operation specifies the baseline set of protocols that need to be
   supported and the recommended configurations and modes of operation
   sufficient to enable a 6TiSCH functional network. 6TiSCH provides
   IPv6 connectivity over a Time-Slotted Channel Hopping (TSCH) mesh
   composed of IEEE Std 802.15.4 TSCH links. This minimal mode uses a
   collection of protocols with the respective configurations, including
   the IPv6 Low-Power Wireless Personal Area Network (6LoWPAN)
   framework, enabling interoperable IPv6 connectivity over IEEE Std
   802.15.4 TSCH. This minimal configuration provides the necessary
   bandwidth for network and security bootstrapping and defines the
   proper link between the IETF protocols that interface to IEEE Std
   802.15.4 TSCH. This minimal mode of operation should be implemented
   by all 6TiSCH-compliant devices.

6TiSCH@IE

Milestones

New milestones for secure join work?

Done	*Second submission of draft-ietf-6tisch-minimal to the IESG*
Done	*WG call to adopt draft-ietf-6tisch-6top-sf0*
Done	*WG call to adopt draft-ietf-6tisch-6top-sublayer*
Done	*ETSI 6TiSCH #3 plugtests*
Dec 2016	*Initial submission of draft-ietf-6tisch-6top-protocol to the IESG*
Dec 2016	*Initial submission of draft-ietf-6tisch-6top-sf0 to the IESG*
Dec 2016	*Evaluate WG progress, propose new charter to the IESG*
Apr 2017	*Initial submission of 6TiSCH terminology to the IESG*
Apr 2017	*Initial submission of 6TiSCH architecture to the IESG*
Dec 2017	*6TiSCH architecture and terminology in RFC publication queue*