



# **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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**I E T F**

# Reminder:

**Minutes are taken \***  
**This meeting is recorded \*\***  
**Presence is logged \*\*\***

\* Scribe; please contribute online to the minutes at:

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\*\*\* From the Webex login

# Agenda



<b>13:30</b>	<b>Intro and Status (Chairs)</b>	<b>[35min]</b>
	<ul style="list-style-type: none"><li>• Note-Well, Blue Sheets, Scribes, Agenda Bashing</li><li>• Status of the work; progress vs. charter</li><li>• Summary 1st F-Interop 6TiSCH Interoperability Event (Maria Rita Palattella)</li><li>• Summary OpenWSN hackathon (Tengfei Chang)</li></ul>	<ul style="list-style-type: none"><li>[5min]</li><li>[5min]</li><li>[10min]</li><li>[5min]</li></ul>
<b>13:55</b>	<b>Dynamic Scheduling</b>	<b>[25min]</b>
	<ul style="list-style-type: none"><li>• 6top protocol <a href="#">draft-ietf-6tisch-6top-protocol-07</a> (Xavi Vilajosana)</li><li>• Service Function 0 <a href="#">draft-ietf-6tisch-6top-sf0-05</a> (Diego Dujovne)</li></ul>	<ul style="list-style-type: none"><li>[15min]</li><li>[10min]</li></ul>
<b>14:20</b>	<b>Security</b>	<b>[30min]</b>
	<ul style="list-style-type: none"><li>• <a href="#">draft-ietf-6tisch-minimal-security-03</a> (Mališa Vučinić)</li><li>• update security DT and other derived work (Michael)</li><li>• <a href="#">draft-ietf-6tisch-dtsecurity-secure-join-01</a></li><li>• <a href="#">draft-richardson-6tisch-join-enhanced-beacon-01</a></li><li>• <a href="#">draft-richardson-6tisch-minimal-rekey-01</a></li></ul>	<ul style="list-style-type: none"><li>[15min]</li><li>[15min]</li><li></li><li></li><li></li></ul>

# Agenda



## 14:50 Unchartered items, time permitting

[QS]

- Innovation Liaison Officer (Xavi Vilajosana)
- [draft-duquennoy-6tisch-asf](#) (Simon Duquennoy)
- [draft-munoz-6tisch-examples-02](#) (Jonathan Muñoz)
- [draft-papadopoulos-6tisch-pre-reqs-00](#) (Georgios Papadopoulos)
- [draft-lijo-6lo-expiration-time-04](#) (Lijo Thomas)

[5-10min]

[5-10min]

[5min]

[5min]

[5min]

## 15:25 AOB

[...]

# Volunteers

- notetaker 1: Dominique Barthel
- notetaker 2: Francesca Palombini (?)
- notetaker 3: Tero Kivinen
- notetaker 4: Xavi Vilajosana
- notetaker x: Pascal Thubert
- Jabber scribe: Ines Robles, MCR



# RFC 8137

Internet Engineering Task Force (IETF)  
Request for Comments: 8137  
Category: Informational  
ISSN: 2070-1721

T. Kivinen  
INSIDE Secure  
P. Kinney  
Kinney Consulting LLC  
May 2017

## **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

Internet Engineering Task Force (IETF)  
Request for Comments: 8180  
BCP: 210  
Category: Best Current Practice  
ISSN: 2070-1721

X. Vilajosana, Ed.  
Universitat Oberta de Catalunya  
K. Pister  
University of California Berkeley  
T. Watteyne  
Analog Devices  
May 2017

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.



# Milestones

## New milestones for secure join work?

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