IETF 100 - Singapore

Chairs:
 Pascal Thubert
 Thomas Watteyne

Etherpad: https://etherpad.tools.ietf.org/p/notes-ietf-100-6tisch

IPv6 over the TSCH mode of IEEE 802.15.4

Note Well

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I E T F

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

*   Please contribute online to the minutes at: https://etherpad.tools.ietf.org/p/notes-ietf-100-6tisch

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*** Please make sure you sign in the blue sheets

Administrivia

- Minutes
  - Etherpad: https://etherpad.tools.ietf.org/p/notes-ietf-100-6tisch

- Remote participation
  - Meetecho: http://www.meetecho.com/ietf100/6tisch
  - Jabber: 6tisch@jabber.ietf.org

- Mailing list
  - 6tisch@ietf.org
  - To subscribe: https://www.ietf.org/mailman/listinfo/6tisch

- Meeting materials:
  - https://datatracker.ietf.org/meeting/100/materials.html/#6tisch
  - One set of slides per presentation

Agenda

Intro and Status (chairs)   [10min]
- Agenda Bashing
- Milestones
- State of 6TiSCH

Chartered items
- draft-ietf-6tisch-6top-protocol *(Xavi Vilajosana)*   [10min]
- draft-ietf-6tisch-minimal-security *(Malisa Vucinic)*   [15min]
- draft-ietf-6tisch-dtsecurity-zerotouch-join (Michael Richardson)   [10min]
- draft-ietf-6tisch-6top-sfx *(Diego Dujovne)*   [05min]
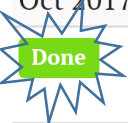
Unchartered items, time permitting
- draft-chang-6tisch-msf *(Tengfei Chang)*   [15min]
- draft-satish-6tisch-6top-sf1 *(Bing Liu - Remy)*   [10min]
- draft-richardson-6tisch-roll-join-priority (Michael Richardson)   [05min]

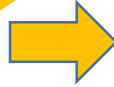Any Other Business?   [10min]

Milestones

Milestones

Date	Milestone
Dec 2018	6TiSCH architecture and terminology in RFC publication queue
Dec 2018	Evaluate WG progress, propose new charter to the IESG
Nov 2018	Initial submission of 6TiSCH architecture to the IESG draft-ietf-6tisch-architecture
Oct 2018	Initial submission of draft-ietf-6tisch-dtsecurity-zerotouch-join to the IESG draft-ietf-6tisch-dtsecurity-zerotouch-join
Oct 2018	Initial submission of 6TiSCH terminology to the IESG draft-ietf-6tisch-terminology
Feb 2018	Initial submission of draft-ietf-6tisch-minimal-security to the IESG draft-ietf-6tisch-minimal-security
Oct 2017	Initial submission of draft-ietf-6tisch-6top-sf0 to the IESG
Done	Initial submission of draft-ietf-6tisch-6top-protocol to the IESG draft-ietf-6tisch-6top-protocol
Done	ETSI 6TiSCH #3 plugtests
Done	WG call to adopt draft-ietf-6tisch-6top-sublayer draft-ietf-6tisch-6top-protocol
Done	WG call to adopt draft-ietf-6tisch-6top-sf0
Done	Second submission of draft-ietf-6tisch-minimal to the IESG draft-ietf-6tisch-minimal

we have a complete "Minimal 6TiSCH" solution!
- 6tisch-minimal (RFC8180)
- 6tisch-minimal-security
- 6tisch-minimal-scheduling-function
- *RPL (RFC6550)*
- *6LoWPAN (RFC6282)*

you can now go build 6TiSCH products

External focus: supporting market adoption

Performance evaluation: *Is 6TiSCH the right technology for my application?*

open-source implementation support:
- OpenWSN
- Contiki-NG
- 6TiSCH simulator
- RIOT

Performance evaluation and benchmarking

Conformance and interop testing (www.f-interop.eu)

Internal focus: further technology developments

ongoing work

Additional SFs:
- draft-ietf-6tisch-6top-sfx*
- draft-duquennoy-6tisch-asf
- draft-satish-6tisch-6top-sf1*

Security:
- draft-ietf-6tisch-dtsecurity-zerotouch-join*

RPL and EB optimizations:
- draft-richardson-6tisch-roll-join-priority*
- richardson-6tisch-join-enhanced-beacon
- DIO and EB merge
- Fast re-route

draft criteria for extending the Minimal 6TiSCH solution:
1. *what problem does this extra specification solve?*
2. *how much better does a network run with this new specification?*
3. *how much larger is the footprint on the node?*

* presented at IETF100