



6TiSCH



15 June 2018 Webex

Chairs:

Pascal Thubert

Thomas Watteyne

Etherpad for Minutes: <https://etherpad.tools.ietf.org/p/6tisch>

IPv6 over the TSCH
mode of IEEE 802.15.4

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

[BCP 9](#) (Internet Standards Process)

[BCP 25](#) (Working Group processes)

[BCP 25](#) (Anti-Harassment Procedures)

[BCP 54](#) (Code of Conduct)

[BCP 78](#) (Copyright)

[BCP 79](#) (Patents, Participation)

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Reminder:

Minutes are taken *

This meeting is recorded **

Presence is logged ***

* Scribe; please contribute online to the minutes at: <https://etherpad.tools.ietf.org/p/6tisch>

** Recordings and Minutes are public and may be subject to discovery in the event of litigation.

*** From the Webex login

Agenda bashing

- IETF 102 update [5min]
- Drafts status (6P, etc) vs. charter / milestones [10min]
- Minimal Security WGLC launch [10min]
- Zerotouch join : changes and relation with draft-richardson-anima-ace-constrained-voucher [10min]
- Enhanced Beacon document: status and adoption discussion [10min]
- F-Interop plugtets update [5min]

IETF 102 update

IETF102 - Montreal

- Admin
 - <https://www.ietf.org/how/meetings/102/> 14-20 July 2018
 - We asked for a 90min slot for 6TiSCH
- Important dates
 - 2018-06-15 (Today): Preliminary Agenda published for comment.
 - 2018-06-20 (Wednesday): Cut-off date for requests to reschedule WG
 - 2018-06-22 (Friday): Final agenda to be published.
 - **2018-07-02 (Monday): Internet Draft submission cut-off**
 - 2018-07-04 (Wednesday): Draft Working Group agendas
 - 2018-07-06 (Friday): Early Bird registration and payment cut-off

Draft Status

Milestones

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

draft-chang-6tisch-msf

- Input
 - Review from Yasuyuki Tanaka <https://www.ietf.org/mail-archive/web/6tisch/current/msg05723.html>
- Action
 - -01 published on 2-Mar-2018
 - Addresses all issue, full read-through
- Next steps
 - Today's state: *none*
 - During IETF 101 WG meeting:
 - Decision to integrate with ASF and call for adoption

draft-ietf-6tisch-6top-protocol

- IESG review
 - IESG state: IESG Evaluation::Revised I-D Needed
 - Has 2 DISCUSSEs from Benjamin Kaduk and Alexey Melnikov
 - <https://datatracker.ietf.org/doc/draft-ietf-6tisch-6top-protocol/ballot/>
 - Summary: Summary: Has 2 DISCUSSEs. Has enough positions to pass once DISCUSS positions are resolved.
- Action
 - -11 published on 31-Mar-2018
 - Issues remaining?
- Next steps
 - ?

draft-ietf-6tisch-minimal-security

- Status
 - -06 published on 25-May-2018
- Next steps
 - Today's state: "WG Document"
 - During IETF 101 WG meeting:
 - Switch to "In WG Last Call", for 3 weeks
 - ask for at least 2 reviewers during WGLC, including one from CORE
 - Ready for this now?
 - Liaise with CORE about Section 5.1 "Stateless-Proxy CoAP Option"
 - Done?

draft-ietf-6tisch-6top-sfx

- Today's state: "WG Document"
- Status
 - 01 published on 15 March 2018
- Chairs reviewed, identified editorial issues which prevent us from considering moving to WGLC
 - Fixed?

draft-vilajosana-6tisch-globaltime

- Action
 - -00 published on 1 March 2018
- Input
 - Review from Thomas Watteyne (<https://www.ietf.org/mail-archive/web/6tisch/current/msg05756.html>)
- Action
 - Authors to answer review, publish -01 during/after London?
- Next steps
 - New work, chairs need to see discussion on the ML regarding (1) relevance of work and (2) validity of technical solution proposed

draft-thubert-6lo-fragment-recovery

- Derived from [draft-thubert-6lo-forwarding-fragments-08](#)
- Inherits the base of (MPLS) forwarding operation to [draft-watteyne-6lo-minimal-fragment](#)
 - Simplify sections 7.1 and 7.2 (fwd processing goes away)
 - Normative reference
- Adds the concept of the reverse LSP to the VRB
 - For the Ack
- Some new signaling and behavior
 - ECN, Abort

draft-ietf-6lo-rfc6775-update

IESG review: Approved-announcement to be sent::AD Followup

- Simplified Discovery of compatible 6LR (based on 6CIO only)
- Added new flag indicating plain host for backward compatibility
 - Also an opaque field to register to a routing protocol
- Changed name of unique ID to ROVR, of variable length
 - New codes suffix in DAR/DAC to indicate ROVR size
- REF'ed in [draft-thubert-roll-unaware-leaves](#) and [draft-ietf-rift-rift](#)

Others

- 6tisch-roll-join-priority
- draft-richardson-6tisch-enrollment-enhanced-beacon
- draft-richardson-6tisch-roll-enrollment-priority
- draft-watteyne-6lo-minimal-fragment
- draft-thubert-6lo-fragment-recovery
- draft-ietf-6tisch-6top-sfx
- draft-papadopoulos-6tisch-pre-reqs
- draft-richardson-6tisch-minimal-rekey

Minimal Security WGLC

(already done?)

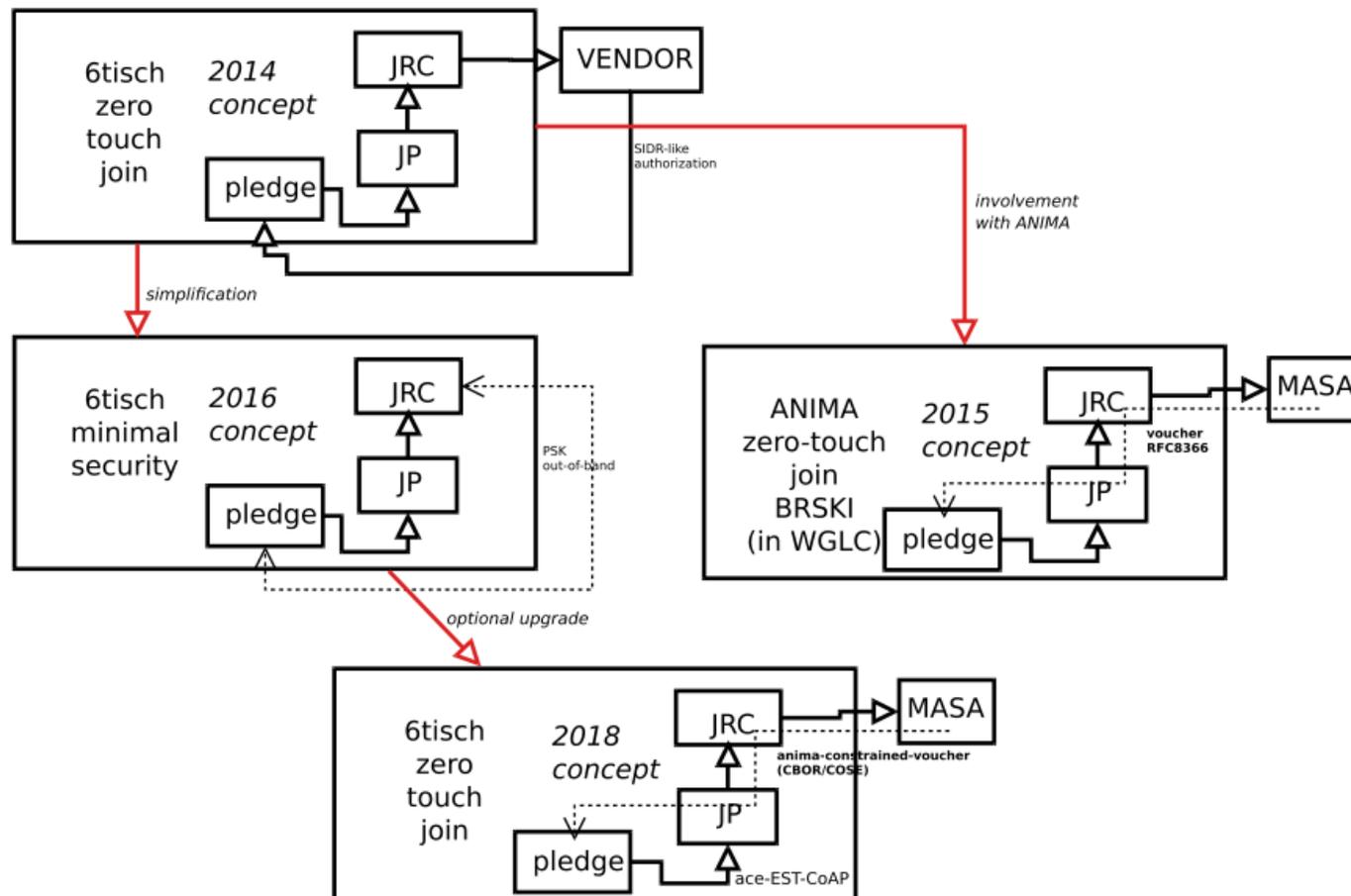
Zerotouch join : changes and relation with draft- richardson-anima-ace-constrained-vouche

ietf-6tisch-dtsecurity-zerotouch-join



- Status
 - -02 published on April 30
 - Lost co-author.
- Many components broken out of this document:
 - Voucher Artifact is now RFC8366.
 - Constrained version is ietf-anima-constrained-voucher
 - Enrollment protocol is ietf-anima-bootstrapping-keyinfra-15 (“BRSKI”), WGLC ended June 14
 - Constrained version of EST is ietf-ace-est-coaps
 - Remaining constrained version of BRSKI in this document.
- Next steps
 - Today’s state: “WG Document”
 - Needs a co-author! **“Your name here”**
 - Requires draft-richardson-6tisch-enhanced-beacon.

6tisch constrained bootstrap evolution



Enhanced Beacon document: status and adoption discussion

F-Interop plugtets update

2nd F-Interop 6TiSCH Interoperability Event



- 26-27 June 2018, Paris
- Supported by the H2020 F-Interop project
- Organized by:
 - LIST (Maria Rita Palattella)
 - Inria (Tengfei Chang)
 - ETSI (Miguel Reina Ortega)
- Test description ready, sent to participants
 - Nightly build: https://openwsn-builder.paris.inria.fr/job/td-6tisch%20builder/lastSuccessfulBuild/artifact/6tisch_plugtest_td_june_2018.pdf
- Using F-Interop tools, see <https://go.f-interop.eu/>

AOB

Confusion about TSCH CSMA-CA retransmission algorithm in IEEE 802.15.4-2015



- See <https://www.ietf.org/mail-archive/web/6tisch/current/msg05936.html>