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.

As a reminder:

• By participating in the IETF, you agree to follow IETF processes and policies.
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• Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
• As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this.

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)

https://www.ietf.org/privacy-policy/ (Privacy Policy)
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/](https://www.ietf.org/how/meetings/102/) 14-20 July 2018
  • We asked for a 90min slot for 6TiSCH

• Important dates
  • 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

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec 2018</td>
<td>6TiSCH architecture and terminology in RFC publication queue</td>
</tr>
<tr>
<td>Dec 2018</td>
<td>Evaluate WG progress, propose new charter to the IESG</td>
</tr>
<tr>
<td>Nov 2018</td>
<td>Initial submission of 6TiSCH architecture to the IESG</td>
</tr>
<tr>
<td></td>
<td><a href="#">draft-ietf-6tisch-architecture</a></td>
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<tr>
<td>Oct 2018</td>
<td>Initial submission of draft-ietf-6tisch-dtsecurity-zerotouch-join to the IESG</td>
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<tr>
<td></td>
<td><a href="#">draft-ietf-6tisch-dtsecurity-zerotouch-join</a></td>
</tr>
<tr>
<td>Oct 2018</td>
<td>Initial submission of 6TiSCH terminology to the IESG</td>
</tr>
<tr>
<td></td>
<td><a href="#">draft-ietf-6tisch-terminology</a></td>
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<tr>
<td>Feb 2018</td>
<td>Initial submission of draft-ietf-6tisch-minimal-security to the IESG</td>
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<tr>
<td></td>
<td><a href="#">draft-ietf-6tisch-minimal-security</a></td>
</tr>
<tr>
<td>Oct 2017</td>
<td>Initial submission of draft-ietf-6tisch-6top-s0 to the IESG</td>
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<tr>
<td></td>
<td><a href="#">draft-ietf-6tisch-6top-protocol</a></td>
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<tr>
<td></td>
<td><strong>Done</strong> Initial submission of draft-ietf-6tisch-6top-protocol to the IESG</td>
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<td><a href="#">draft-ietf-6tisch-6top-protocol</a></td>
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<td></td>
<td><strong>Done</strong> ETSI 6TiSCH #3 plugtests</td>
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<tr>
<td></td>
<td><strong>Done</strong> WG call to adopt draft-ietf-6tisch-6top-sublayer</td>
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<td><a href="#">draft-ietf-6tisch-6top-protocol</a></td>
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<tr>
<td></td>
<td><strong>Done</strong> WG call to adopt draft-ietf-6tisch-6top-s0</td>
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<tr>
<td></td>
<td><strong>Done</strong> Second submission of draft-ietf-6tisch-minimal to the IESG</td>
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<tr>
<td></td>
<td><a href="#">draft-ietf-6tisch-minimal</a></td>
</tr>
</tbody>
</table>
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](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
• 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