



28 April 2017 Webex

IPv6 over the TSCH mode of IEEE 802.15.4

Chairs:

Pascal Thubert

Thomas Watteyne

Etherpad for minutes:

http://etherpad.tools.ietf.org:9000/p/6tisch?useMonospaceFont=true

6TiSCH interim 28 April 2017



Note Well

This summary is only meant to point you in the right direction, and doesn't have all the nuances. The IETF's IPR Policy is set forth in BCP 79; please read it carefully.

The brief summary:

- By participating with the IETF, you agree to follow IETF processes.
- If you are aware that a contribution of yours (something you write, say, or discuss in any IETF context) is covered by patents or patent applications, you need to disclose that fact.
- You understand that meetings might be recorded, broadcast, and publicly archived.

For further information, talk to a chair, ask an Area Director, or review the following:

- BCP 9 (on the Internet Standards Process)
- BCP 25 (on the Working Group processes)
- BCP 78 (on the IETF Trust)
- BCP 79 (on Intellectual Property Rights in the IETF)



Reminder:

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

- * Scribe; please contribute online to the minutes at: http://etherpad.tools.ietf.org:9000/p/6tisch?useMonospaceFont=true_
- ** Recordings and Minutes are public and may be subject to discovery in the event of litigation.
- *** From the Webex login

Agenda



•	Administrivia	[2min]
	Agenda bashing	
	 Approval minutes from last meeting 	
•	Status of drafts (chairs)	[15min]
	 Adoption of Michael's drafts on security – co authors? 	
	 6P and SF0 – launching last calls? 	
•	6P finalization (Thomas, Qin)	[10min]
•	Update on security (Michael/Malisa)	[10min]
•	Research Liaison Task Force (Thomas)	[15min]
•	AOB	[3min]



Last interim to-do's

Randy to check IETF documents on 6TiSCH vs. DetNet (https://tools.ietf.org/html/draft-ietf-detnet-use-cases-12 and https://tools.ietf.org/html/draft-ietf-6tisch-architecture-11) and come back to us on whether there is a need to maintain another document, if so whether https://tools.ietf.org/html/draft-thubert-6tisch-4detnet-01 is a good start



Draft status



Michael's drafts on security

draft-richardson-6tisch-join-enhanced-beacon-01

IEEE802.15.4 Informational Element encapsulation of 6tisch Join Information

Diego volunteered as co author.

Idea is refresh and adoption call

draft-richardson-6tisch-minimal-rekey-01

Minimal Security rekeying mechanism for 6TiSCH

Peter volunteered to help

Refresh?



6P and SF0

Publish update before last call?



Update on 6P

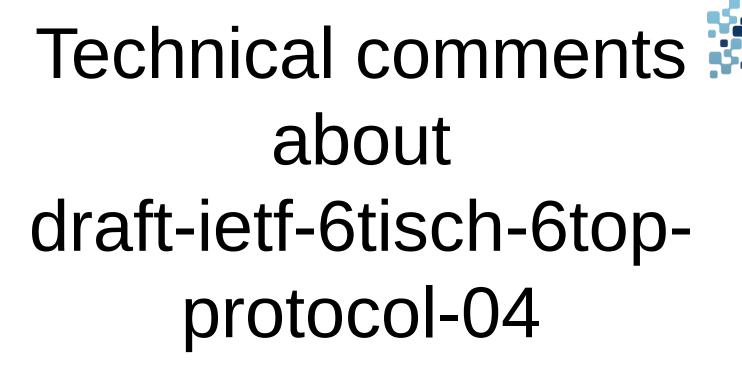
Charlie's review of draft-ietf-6tisch-6top-protocol-04



I think the document has issues, some technical, mostly editorial. They can be easily fixed but some decisions have to be made. All of my comments can be found in the attached output of 'rfcdiff'. The editorial suggestions I mostly incorporated into a revised version of the file, which is also visible in the output of 'rfcdiff'. If this is unclear, please let me know. I think that there should be a new section for "Terminology", and various TSCH, 6TiSCH, and 6top terms explained in that section for convenience.

Here are some of my technical comments about the document. Some of my questions might arise from my own misunderstandings, in which case perhaps a few more sentences or cross-references could be inserted for explanations.

- ERR_EOL is defined as an error, but it is used as a flag for protocol signaling
- Why is any negotiation needed for node A to delete cells?
- If a negotiation is needed, then isn't NumCells needed somewhere in the message format?
- In Figure 13, If you have a Candidate CellList, don't you also need "NumCandCells"?
- GEN and SeqNum play similar roles. The protocol could be cleaner if their roles were combined. Plus you would have more bits, making rollover far less frequent.
- Some of the suggestions for SF specification seem impractical.
- Not clear why LIST and COUNT are needed except possibly for reboot or operating system errors.
- Not clear how to abort the CONFIRMATION step of a 3-step transaction.
- In Figure 14, is NumCells needed for the RELOCATE Response?



April 14, 2017 interim teleconference
Charles Perkins
Futurewei



Technical comments, page

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Technical comments, page



Some of the suggestions for SF specification seem impractical.

"MUST specify the behavior of a node when it boots." Do we really need a registry of application domains?

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Not clear how to abort the CONFIRMATION step of a 3-step transaction.

In Figure 14, is NumCells needed for the RELOCATE Response?



Update on security Design team meetings

Typically present:

Michael Richardson, Tero Kivinen, Pascal Thubert, Thomas Watteyne, Mališa Vučinić, Göran Selander, Toerless Eckert, Peter van der Stok

Status



- Goal to advance 6TiSCH minimal to WG LC by IETF 99 and the zerotouch soon after.
- Dependencies on EDHOC which needs a WG, likely ACE, waiting for the chairs/ADs.



Research Liaison Task Force



Research Liaison idea

- idea
 - Issue requests for simulation, implementation
 - Gather feedback/performance results
- Discussion
 - Is "research" the right term?
 - How to liaise with the community? Wiki? I-D?
 - Propose to have one person in charge of:
 - Issuing calls
 - Coordinating results to WG
 - Maintain list of ongoing work (papers, groups, etc)



AOB?



Thank you!