

Charter 2.0

chairs



Description of Working Group

The Working Group will focus on enabling **IPv6** over the **TSCH mode of the IEEE802.15.4e standard**. The extent of the problem space for the WG is **one or more LLNs**, eventually federated through a common backbone link via one or more LLN Border Routers (**LBRs**).

The WG will rely on, and if necessary extend, existing mechanisms for authenticating LBRs. **Initially, the WG will limit its scope to distributed routing over a static schedule.** In that case, a node's schedule can be either preconfigured, or learnt by a node when joining the network, but it remains unchanged after the node has joined a network.

The Routing Protocol for LLNs (**RPL**) is used on the resulting network. The WG will interface with other appropriate groups in the IETF Internet, Operations and Management, Routing and Security areas.

Milestones

12/2013 - WG to adopt 6TiSCH terminology

12/2013 - WG to adopt IEEE802.15.4e TSCH overview

12/2013 - WG to adopt 6TiSCH architecture

12/2013 - WG to adopt 6TiSCH minimal configuration

04/2014 - WG to adopt 6top draft(s)

04/2014 - WG to adopt 6TiSCH data model for CoAP

08/2014 - Submit YANG data model in 6top draft for preliminary OPSDIR review

08/2014 - Submit 6TiSCH architecture for preliminary SECDIR review

11/2014 - Initial submission of 6TiSCH minimal configuration to the IESG

11/2014 - Initial submission of 6top draft(s) to the IESG

11/2014 - Initial submission of 6TiSCH data model for CoAP to the IESG

12/2014 - Initial submission of 6TiSCH terminology to the IESG

12/2014 - Initial submission of 6TiSCH architecture to the IESG

12/2014 - Evaluate WG progress, propose new charter to the IESG

06/2015 - 6TiSCH Minimal and 6top draft(s) in RFC publication queue

12/2015 - 6TiSCH architecture and terminology in RFC publication queue

Non-Chartered Active Work

- Security (Join Process)
 - [draft-richardson-6tisch--security-6top-03](#)
- 6top Layer
 - [draft-wang-6tisch-6top-coapie](#) (6top-to-6top comm.)
 - [draft-wang-6tisch-6top-sublayer](#)
- Dynamic Scheduling
 - [draft-dujovne-6tisch-on-the-fly](#)
 - (no draft yet) Chunk Appropriation / Spatial Reuse

Time-Sensitive Tracks

- 6TiSCH Archi. discusses track operation
- DetNet ML looks at the broader picture
- Lacking Interactions and Data models
- Relation with PCE and CCAMP TBD
- Relation with IEEE and (ONF?) TBD

=> Are we ready for this?

What Else?

- Architecture Update
- More on security
- ...

**! Please speak up !
Mailing List is your friend**