

# IETF 86 ROLL

Routing over Low-Power  
And Lossy  
Networks  
Tuesday 9am  
Room Caribbean 2

<http://ietf86streaming.dnsalias.net/ietf/ietf864.m3u>

Jabber: <xmpp:roll@jabber.ietf.org?join>

Materials: <http://tools.ietf.org/wg/roll/agenda>

# Note Well

The brief summary:

- 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.
- 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

# Agenda

- Note Well
- Document status
- Applicability Statements
- TODO list for the WG
- 6tsch overview

# Document Status



roll-p2p-measurements	IESG Evaluation	Revised ID needed
roll-p2p-rpl	IESG Evaluation	Revised ID needed
roll-security-threats-01	IESG Evaluation	Telechat 2013-03-28
roll-terminology-11	AD Evaluation	Revised ID needed
roll-trickle-mcast-04	Waiting for WG LC	?-do we need another-?

## IESG issues raised by p2p

- The prefix information object (PIO) was removed, too confusing
- The option to send data (an IPv6 upper layer protocol) was removed; use case was unclear.

## WG LC issues raised by mcast-trickle

- Many issues raised, much discussion.
- -04 document came out to address these.
  - diff 02 to 04
- btw: IPR claim filed
  - [draft-ietf-roll-trickle-mcast](https://datatracker.ietf.org/ipr/draft-ietf-roll-trickle-mcast) search on [datatracker.ietf.org/ipr](https://datatracker.ietf.org/ipr)
  - Does this change anything for us?
- are we done here?

# Secdir review of security-threats

- Extensive review, many issues raised, document authors are working on this.
- A decision was made not to raise tracker issues on this, but perhaps that should be revisited?

# Applicability Statements

- WG adopted draft-phinney-roll-rpl-industrial-applicability-02 (YEAH!)
- WG adopted draft-brandt-roll-rpl-applicability-home-building-03 (YEAH!)
- Security directorate did pre-review of template, some minor changes asked for.
- *Metering applicability statement has gone AWOL?!?*
  - *Needs resurrection by end of April.*



## Industrial applicability

- 6tsch may be required technology for industrial applicability
- There seem to be some significant open security pieces missing
  - Is there a need to rekey between phases of plant operation?

# Home/building applicability stmt

- mandates p2p
- *“Applicability Statement: The use of RPL-P2P in Home and Building Control”*
  - Is this too narrow scope?
- Please read.
- Please contribute text.
- Aim to be ready for WG LC by end of April!

## TODO list for the WG

- Get current documents (p2p, mcast-trickle, security-threats) through IESG
- Make progress on applicability statements
  - This won't be easy, and will take significant participation
  - No information is missing, just text.

Thank you – on to 6tsch overview

- In this room. Right after us, going until 1pm.
- Wednesday as well 11:30 to 1pm.

**6TSCH**

ORLANDO 86th IETF

- IPv6 access and routing over deterministic (Time Scheduled Channel Hopping) MAC
- Mix of centralized and distributed routing
- Put together architecture binding existing standards (RPL, 6LoWPAN, PANA, ForCES/OpenFlow, NSIS/RSVP, diffserv) over 802.15.4e TSCH
- Provide missing components and steer work

# 6TSHC (sixtus) IETF ML

- Define scope and problem
  - Backbone + PCE + TSCH/RPL/6LoWPAN WSN
  - draft-phinney-roll-rpl-industrial-applicability
- Define goals and deliverables
  - Info: LLN context, Architecture, Terminology
  - New: 6TUS, Management protocols, track reservation
  - Adapt: 6TSCH RPL OF, fragment forwarding
  - Extern: Backbone Router, PCE
- Define dependencies and liaisons
  - IEEE 802.1TSN, ISA100.20, IoT6

# 6TSHC (sixtus) IETF ML

- draft-phinney-roll-rpl-industrial-applicability
- draft-palattella-6tsch-terminology
- draft-watteyne-6tsch-tsch-lln-context
- draft-wang-6tsch-6tus
- draft-thubert-6tsch-architecture
- List todos



# Tuesday Caribbean 2 -> 12:45

- draft-phinney-roll-rpl-industrial-applicability
- draft-palattella-6tsch-terminology
- draft-watteyne-6tsch-tsch-lln-context
- draft-wang-6tsch-6tus
- draft-thubert-6tsch-architecture
- List todos

# Wednesday Boca 2 ->13:00

- draft-phinney-roll-rpl-industrial-applicability
- draft-palattella-6tsch-terminology
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- draft-wang-6tsch-6tus
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- List todos