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 context) is covered by patents or patent applications, you need to disclose that fact.
- Meetings might be recorded and broadcast.

For further information: Talk to a chair, ask an Area Director, or review BCP 9 (on the Internet Standards Process), BCP 25 (on the Working Group process), BCP 78 (on the IETF Trust), and BCP 79 (on Intellectual Property Rights in the IETF).
Agenda

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

<table>
<thead>
<tr>
<th>Document Name</th>
<th>Evaluation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>roll-p2p-measurements</code></td>
<td>IESG Evaluation</td>
<td>Revised ID needed</td>
</tr>
<tr>
<td><code>roll-p2p-rpl</code></td>
<td>IESG Evaluation</td>
<td>Revised ID needed</td>
</tr>
<tr>
<td><code>roll-security-threats-01</code></td>
<td>IESG Evaluation</td>
<td>Telechat 2013-03-28</td>
</tr>
<tr>
<td><code>roll-terminology-11</code></td>
<td>AD Evaluation</td>
<td>Revised ID needed</td>
</tr>
<tr>
<td><code>roll-trickle-mcast-04</code></td>
<td>Waiting for WG LC</td>
<td>?-do we need another-?</td>
</tr>
</tbody>
</table>
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 search on 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-lIn-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
- draft-watteyne-6tsch-tsch-lln-context
- draft-wang-6tsch-6tus
- draft-thubert-6tsch-architecture
- List todos