This session is being recorded
IETF 113 Meeting Tips

In-person participants
- Make sure to sign into the session using the Meetecho (usually the “onsite tool” client) from the Datatracker agenda.
- Use Meetecho to join the mic queue
- Keep audio and video off if not using the onsite version

Remote participants
- Make sure your audio and video are off unless you are chairing or presenting during a session
- Use of a headset is strongly recommended
Resources for IETF 113 Vienna

- Agenda
  [https://datatracker.ietf.org/meeting/agenda](https://datatracker.ietf.org/meeting/agenda)
- Meetecho and other information:
  [https://www.ietf.org/how/meetings/113/preparation](https://www.ietf.org/how/meetings/113/preparation)
- If you need technical assistance, see the Reporting Issues page:
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.

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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)
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• IETF participants must not engage in harassment while at IETF meetings, virtual meetings, social events, or on mailing lists. Harassment is unwelcome hostile or intimidating behavior -- in particular, speech or behavior that is aggressive or intimidates.

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Source: https://www.ietf.org/about/note-well/
Resources for ROLL@IETF 113 Vienna

- Remote Participation
  - Meetecho: https://meetings.conf.meetecho.com/ietf113/?group=roll&short=&item=1
  - Material: https://datatracker.ietf.org/meeting/113/session/roll
  - Jabber: xmpp: roll@jabber.ietf.org?join
  - CodiMD: https://notes.ietf.org/notes-ietf-113-roll
  - Minute takers: Please volunteer, thank you :)

Please volunteer, thank you :)

Minute takers: Please volunteer, thank you :)
## Agenda

### Wednesday, March 23th, 2022

**12:00-13:00 (UTC) Wednesday Afternoon session I**

<table>
<thead>
<tr>
<th>Time (UTC)</th>
<th>Duration</th>
<th>Draft/Topic</th>
<th>Presenter</th>
</tr>
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<tbody>
<tr>
<td>12:00 - 12:20</td>
<td>20 min</td>
<td>WG Status</td>
<td>Ines/Dominique</td>
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<tr>
<td>12:20 - 12:35</td>
<td>15 min</td>
<td>draft-ietf-roll-dao-projection</td>
<td>Pascal</td>
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<td>12:35 - 12:50</td>
<td>15 min</td>
<td>draft-ietf-roll-enrollment-priority</td>
<td>Michael</td>
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<tr>
<td>12:50 - 12:55</td>
<td>5 min</td>
<td>draft-ietf-6lo-multicast-registration</td>
<td>Pascal</td>
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<tr>
<td>12:55 - 13:00</td>
<td>5 min</td>
<td>Open Floor</td>
<td>Everyone</td>
</tr>
<tr>
<td>Draft status</td>
<td>AD evaluation, revised I-D needed</td>
<td>IESG evaluation, AD follow-up</td>
<td>Short discussion today</td>
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<td>Common Ancestor Objective Function and Parent Set DAG Metric Container Extension</td>
<td>draft-ietf-roll-nsa-extension-10</td>
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<td>Supporting Asymmetric Links in Low Power Networks: AODV-RPL</td>
<td>draft-ietf-roll-aodv-rpl-13</td>
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<td>Root initiated routing state in RPL</td>
<td>draft-ietf-roll-dao-projection-24</td>
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<td>Controlling Secure Network Enrollment in RPL Networks</td>
<td>draft-ietf-roll-enrollment-priority-06</td>
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<td>Mode of Operation extension</td>
<td>draft-ietf-roll-mopex-04</td>
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<td>RPL Capabilities</td>
<td>draft-ietf-roll-capabilities-09</td>
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<td>RPL Storing Root-ACK</td>
<td>draft-jadhav-roll-storing-rootack-03</td>
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<td>RNFD: Fast border router crash detection in RPL</td>
<td>draft-ietf-roll-rnfd-00</td>
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### Milestones: proposed changes

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<tr>
<th>Description</th>
<th>Year</th>
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<tbody>
<tr>
<td>Initial submission of a root initiated routing state in RPL to the IESG</td>
<td>2022</td>
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<tr>
<td>draft-ietf-roll-dao-projection</td>
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<td>Initial submission of Enabling secure network enrollment in RPL networks</td>
<td>2022</td>
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<td>Initial submission of <strong>Mode of Operation extension and Capabilities</strong> for</td>
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<td>RPL to the IESG</td>
<td>2022</td>
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<td>draft-ietf-roll-mopex-cap</td>
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<td>Initial submission of “RNFD: Fast border router crash detection in RPL”</td>
<td>2023</td>
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<td>Initial submission of a proposal to augment DIS flags and options to the</td>
<td>2023</td>
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<td>IESG</td>
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<td>draft-ietf-roll-dis-modifications</td>
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<td>Initial submission of a YANG model for MPL to the IESG</td>
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<td>draft-ietf-roll-mpl-yang</td>
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<td>Initial submission of a proposal for Source-Route Multicast for RPL to the</td>
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<td>IESG</td>
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<tr>
<td>Recharter WG or close</td>
<td>2023</td>
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</table>
Open Tickets

draft-ietf-roll-enrollment-priority

Issues 7

7 Open

1 Closed

- add explicit lollipop counter into enrollment priority option
  #13 opened on Nov 24, 2021 by mcr

- should root explicitly reset trickle timer?
  #12 opened on Nov 24, 2021 by mcr

- what EB and priority, if any should a node with no feasible parent emit?
  #11 opened on Nov 24, 2021 by mcr

- should priority have more than 1 bit: join disabled/enabled?
  #10 opened on Nov 24, 2021 by mcr

- 05 Section 3.1, questions
  #7 opened on Aug 31, 2021 by dianeth-il

- explain how new option values are related to DODAGVersionNumber
  #5 opened on Aug 10, 2021 by mcr

- enrollment priority option name
  #4 opened on Aug 10, 2021 by mcr
Open Tickets

Filter: is:issue isopen

- **Parent Address MUST be empty in Transit Information for storing MOP**
  - #10 opened on Mar 16, 2020 by nyrahul

- **Implications of using smaller lollipop counter window**
  - #9 opened on Dec 12, 2019 by nyrahul

- **Path Control bits handling**
  - #8 opened on Nov 12, 2019 by nyrahul

- **do-not-join-instance flag in RPL ext control option**
  - #8 opened on Mar 31, 2021 by nyrahul
AODV-RPL: draft-ietf-roll-aodv-rpl-13

- MOP=4 => The Same MOP as RFC6997 (P2P-RPL, Experimental)
- AODV-RPL intended to replace P2P-RPL, going *Standards Track*
- Ben’s ballot was DISCUSS, now ABSTAIN.
- Recent reviews by Pascal and Konrad. Huge thanks!
- All documented in tickets on Github
- Level of Interest in the WG to work on this topic?
- One known implementation, last update 2016

Destination Advertisement Object (DAO) control message of RPL. AODV-RPL uses the "P2P Route Discovery Mode of Operation" (MOP == 4) with three new Options for the DIO message, dedicated to discover P2P routes. These P2P routes may differ from routes discoverable by native RPL. *Since AODV-RPL uses newly defined Options, there is no conflict with P2P-RPL [RFC6997],* a previous document using the same MOP. AODV-RPL can be operated whether or not P2P-RPL or native RPL is running otherwise. For many networks AODV-RPL could be a