8 November 2023

IETF 118 ROLL

Chairs: Dominique Barthel, Ines Robles
Secretary: Michael Richardson

This session is being recorded
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 118 Meeting Tips

In-person participants

- Make sure to sign into the session using the Meetecho (usually the “Meetecho lite” 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 118 Prague

- IETF Agenda
  https://datatracker.ietf.org/meeting/agenda
- Meetecho and other information:
  https://www.ietf.org/how/meetings/preparation
- If you need technical assistance, see the Reporting Issues page:
  http://www.ietf.org/how/meetings/issues/
Remote Participation

- Meetecho: https://meetings.conf.meetecho.com/ietf118/?session=31755
- Notes: https://notes.ietf.org/notes-ietf-118-roll
  
  - Minute takers: Please volunteer, thank you :)

- Zulip: https://zulip.ietf.org/#narrow/stream/roll

- https://datatracker.ietf.org/meeting/118/session/roll
<table>
<thead>
<tr>
<th>Time (CET)</th>
<th>Duration</th>
<th>Draft/Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00 - 13:15</td>
<td>15 min</td>
<td>WG Introduction</td>
<td>Ines/Dominique</td>
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<tr>
<td>13:15 - 13:25</td>
<td>10 min</td>
<td>Status: <a href="#">draft-ietf-roll-rnfd-02</a></td>
<td>Chairs/Authors</td>
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<td>13:25 - 13:35</td>
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<td>Status: <a href="#">draft-ietf-roll-mopex-07</a></td>
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<td>13:35 - 13:45</td>
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<td>Status: <a href="#">draft-ietf-roll-enrollment-priority-09</a></td>
<td>Chairs/Authors</td>
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<td>13:45 - 13:55</td>
<td>10 min</td>
<td>Status: <a href="#">draft-ietf-roll-nsa-extension-11</a></td>
<td>Chairs/Authors</td>
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<tr>
<td>13:55 - 14:00</td>
<td>5 min</td>
<td>Open Floor</td>
<td>Everyone</td>
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## Draft status

<table>
<thead>
<tr>
<th>Title</th>
<th>Status</th>
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<tbody>
<tr>
<td>RPL Capabilities</td>
<td><a href="https://tools.ietf.org/html/draft-ietf-roll-capabilities-09">draft-ietf-roll-capabilities-09</a> waiting for attention</td>
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</tbody>
</table>
## Milestones

### Nov 2023
- Initial submission of a proposal for Source-Route Multicast for RPL to the IESG
  - DONE
- Initial submission of a YANG model for MPL to the IESG
  - -> drop?
- Initial submission of Fast Border Router Crash Detection in RPL to the IESG
  - -> march 2024?
- Recharter WG or close
  - -> dec 2024?
- Initial submission of a proposal to augment DIS flags and options to the IESG
  - -> nov 2024?
- Initial submission of Capabilities for RPL to the IESG
  - -> june 2024?

### Nov 2022
- Initial submission of Mode of Operation extension for RPL to the IESG
  - -> feb 2024?
- Initial submission of Controlling Secure Network Enrollment in RPL networks draft to the IESG
  - -> jan 2024?

### Done milestones

### Date  |  Milestone  
---------|-----------------|
**Done** | Initial submission of a root initiated routing state in RPL to the IESG |
**Done** | Initial Submission of a proposal with uses cases for RPL, RH3 and IPv6-in-IPv6 encapsulation to the IESG |
**Done** | Initial submission of a reactive P2P route discovery mechanism based on AODV-RPL protocol to the IESG |
**Done** | Initial submission to the IESG of mechanism to turn on `RFC8138` compression feature within a RPL network |
**Done** | Initial submission of routing for RPL Leaves draft to the IESG |
**Done** | Initial submission of Common Ancestor Objective Functions and Parent Set DAG Metric Container Extension to the IESG |
**Done** | Initial submission of a solution to the problems due to the use of No-Path DAO Messages to the IESG |
REGULAR Meetings

- Regular Interim Meetings: every two months
  - Next Interim Meeting: 25th January 2024, 1pm UTC
  - Added the screenshot of the scheduled session
  - Session at IETF119 meeting in Brisbane? or after Brisbane?
Fast border router crash detection in RPL - having nodes collaboratively monitoring the status of the root.

Work in Progress

- draft -02 published Sep 18th 2023
- Reviewers:
  - S.V.R. Anand, Many thanks!
  - Carles Gomez, Many thanks!
  - Volunteers?
- Requested Routing and Security Directorate Reviews.

Next Steps after Reviews:

- chairs to issue WGLC
- shepherd to publish write-up
- Additional Comments/Suggestions?
MOPEX
Mode of Operation extension

- Work in Progress:
  - Open Issues: [https://github.com/roll-wg/mopex/issues](https://github.com/roll-wg/mopex/issues)
    - Rahul is addressing comments from Alvaro, to be continued
    - From last Interim meeting, new issue: # 12
- Next Steps, when new version is ready:
  - chairs to ask for WG Internal Review: at least 2 reviews
  - chairs to ask for Routing and Security Directorate Reviews
  - chairs to issue WGLC
  - shepherd to publish write-up
  - Additional Comments/Suggestions?
Controlling Secure Network Enrollment in RPL Networks


<table>
<thead>
<tr>
<th>Ticket #</th>
<th>Description</th>
<th>Status</th>
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<tbody>
<tr>
<td>4</td>
<td>Enrollment priority option name</td>
<td>In Progress</td>
</tr>
<tr>
<td>5</td>
<td>Explain how new option values are related to DODAGVersionNumber</td>
<td>In Progress</td>
</tr>
<tr>
<td>7</td>
<td>-05 Section 3.1, questions</td>
<td>In Progress</td>
</tr>
<tr>
<td>10</td>
<td>Should priority have more than 1 bit: join disabled/enabled?</td>
<td>In Progress</td>
</tr>
<tr>
<td>11</td>
<td>What EB and priority, if any should a node with no feasible parent emit?</td>
<td>In Progress</td>
</tr>
<tr>
<td>12</td>
<td>should root explicitly reset trickle timer?</td>
<td>Comments added into the ticket - ticket addressed?</td>
</tr>
<tr>
<td>13</td>
<td>add explicit lollipop counter into enrollment priority option</td>
<td>Comments added into the ticket - ticket addressed?</td>
</tr>
<tr>
<td>17</td>
<td>change DODAG size to 1 byte</td>
<td>In Progress</td>
</tr>
</tbody>
</table>
Next Steps:
● updates to be published in next version
● authors to resolve current GitHub issues
● assign two internal reviewers
● chairs to ask for Routing and Sec Dir reviews
● chairs to call WGLC
● shepherd to publish write-up
● Comments/Suggestions?
- -11 had expired, -12 published today
- Security Dir Review (thanks Carl Wallace!): Status -> Ready
- Routing Dir Review (thanks Alvaro!): Has Issues
  - 4 issues reported, need to be addressed
- IANA review (thanks Amanda Baber): 2 issues to be addressed
  - Aris’es proposal "If a candidate neighbor does not fulfill the CA requirement then the path through that neighbor MUST be set to MAX_PATH_COST."
  - Discuss: “As a result, the node MUST NOT select the candidate neighbor as its AP."
Next Steps:
  ○ authors to address issues
  ○ shepherd to update write-up
  ○ chairs to issue new WGLC
  ○ based on the call results, chairs to submit to the IESG
  ○ Additional comments?
Open Floor

- Additional Comments or Questions?