

5 November 2024

IETF 121 Session title

Chairs: Remous-Aris Koutsiamanis, 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)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)

Note Really Well

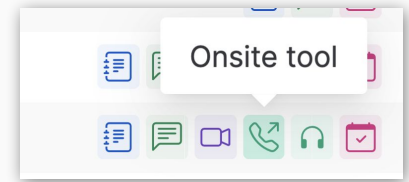
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- If you believe you have been harassed, notice that someone else is being harassed, or have any other concerns, you are encouraged to raise your concern in confidence with one of the Ombudspersons.

This session is being recorded

IETF 121 Meeting Tips

In-person participants

- Make sure to sign into the session via Datatracker or the QR Code in this session.
- Use Meetecho (usually the "Meetecho lite") client to:
 - join the mic queue
 - participate in shows of hands
- *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 121 Dublin

- 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/>

Resources (cont.)

- **Remote Participation**

- Meetecho: <https://meetings.conf.meetecho.com/ietf121/?session=33506>
- Notes: <https://notes.ietf.org/notes-ietf-121-roll>
 - Minute takers: **Please volunteer, thank you :)**
- Zulip: <https://zulip.ietf.org/#narrow/stream/roll>
- **<https://datatracker.ietf.org/doc/agenda-121-roll/>**

ROLL Agenda

| Time (GMT) | Duration | Draft/Topic | Presenter |
|-------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------|------------------|
| 16:30 - 16:45 | 15 min | WG Introduction | Chairs |
| 16:45 - 16:55 | 10 min | Status: draft-ietf-roll-enrollment-priority Status of Controlling Secure Network Enrollment in RPL networks | Chairs/Authors |
| 16:55 - 17:15 | 20 min | Status: draft-koutsiamanis-roll-nsa-extension RPL DAG Metric Container Node State and Attribute object type extension | Aris |
| 17:15 - 17:25 | 10 min | Status: draft-ietf-roll-mopex Mode of Operation extension | Chairs/Authors |
| 17:25 - 17:30 | 5 min | Open Floor | Everyone |

Draft status

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Supporting Asymmetric Links in Low Power Networks: AODV-RPL draft-ietf-roll-aodv-rpl-18 | Addressing Review of AD |
| Root initiated routing state in RPL draft-ietf-roll-dao-projection-34 | Submitted to the IESG for publication |
| Common Ancestor Objective Function and Parent Set DAG Metric Container Extension draft-ietf-roll-nsa-extension-12 | work in progress, presented today |
| Controlling Secure Network Enrollment in RPL Networks draft-ietf-roll-enrollment-priority-11 | work in progress, presented today |
| Mode of Operation extension draft-ietf-roll-mopex-07 | work in progress, presented today |
| RNFD: Fast border router crash detection in RPL draft-ietf-roll-rnfd-04 | Submitted to the IESG for publication |
| RPL Capabilities draft-ietf-roll-capabilities-09 | waiting for attention |
| RPL Storing Root-ACK draft-jadhav-roll-storing-rootack-03 | waiting for attention |
| DIS Modifications: draft-ietf-roll-dis-modifications-01 - Use cases for DIS Modifications: draft-papadopoulos-roll-dis-mods-use-cases-01 | waiting for attention |

Milestones

Milestones

| Date | Milestone | Associated documents |
|----------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Dec 2024 | Recharter WG or close | |
| Nov 2024 | Initial submission of a proposal to augment DIS flags and options to the IESG | draft-ietf-roll-dis-modifications |
| Jun 2024 | Initial submission of Capabilities for RPL to the IESG | draft-ietf-roll-capabilities |
| Feb 2024 | Initial submission of Mode of Operation extension for RPL to the IESG | draft-ietf-roll-mopex |
| Jan 2024 | Initial submission of Controlling Secure Network Enrollment in RPL networks draft to the IESG | draft-ietf-roll-enrollment-priority |

Done milestones

| Date | Milestone | Associated documents |
|------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Done | Initial submission of Fast Border Router Crash Detection in RPL to the IESG | draft-ietf-roll-rmfd |
| Done | Initial submission of a root initiated routing state in RPL to the IESG | draft-ietf-roll-dao-projection |
| Done | Initial submission to the IESG of mechanism to turn on RFC8138 compression feature within a RPL network | rfc9035 (was draft-ietf-roll-turnon-rfc8138) |
| Done | Initial submission of Common Ancestor Objective Functions and Parent Set DAG Metric Container Extension to the IESG | draft-ietf-roll-nsa-extension |
| Done | Initial Submission of a proposal with uses cases for RPI, RH3 and IPv6-in-IPv6 encapsulation to the IESG | rfc9008 (was draft-ietf-roll-useofrplinfo) |
| Done | Initial submission of a reactive P2P route discovery mechanism based on AODV-RPL protocol to the IESG | draft-ietf-roll-aodv-rpl |
| Done | Initial submission of routing for RPL Leaves draft to the IESG | rfc9010 (was draft-ietf-roll-unaware-leaves) |
| Done | Initial submission of a solution to the problems due to the use of No-Path DAO Messages to the IESG | rfc9009 (was draft-ietf-roll-efficient-npdoao) |

Minor Rechartering

- **Current Work Items**

- Guidance in using RFC6553, RFC6554, and IPv6-in-IPv6 encapsulation.
- Additional protocol elements to reduce packet size and the amount of required routing states
- Automatic selection of MPL forwarders to reduce message replication.
- Data models for RPL and MPL management.
- Multicast enhancements algorithms.

Minor Rechartering - Proposed update on Work Items

1. **To Delete:** Guidance in using RFC6553, RFC6554, and IPv6-in-IPv6 encapsulation.
2. **New: Protocol Elements to Enhance Parent Node Selection and Improve Route Discovery Efficiency** → NSA, Dis-modification
3. **To Delete:** Automatic selection of MPL forwarders to reduce message replication.
4. **To Keep as it is:** Data models for RPL and MPL management.
5. **To Delete:** Multicast enhancements algorithms.
6. **New: Network Resilience and Fault Management in RPL-Based Networks** → RNFD
7. **New: Secure Network Enrollment and Access Control Mechanisms for RPL Networks** → Enrollment-priority
8. **Modified: Additional Protocol elements to optimize operational efficiency** → mopex, capabilities
 - i. **Old:** Additional protocol elements to reduce packet size and the amount of required routing states

Controlling Secure Network Enrollment in RPL Networks

<https://datatracker.ietf.org/doc/draft-ietf-roll-enrollment-priority/10/>

Enrollment-priority

Controlling Secure Network Enrollment in RPL Networks

<https://github.com/roll-wg/draft-ietf-roll-enrollment-priority/issue>

roll-wg / draft-ietf-roll-enrollment-priority

Issues 7 Pull requests Discussions Actions Projects Wiki Security Insights Settings

Filters

7 Open ✓ 16 Closed

Author ▾ Label ▾ Project ▾

Expand acronyms on first use that the RFC editor's abbreviation list doesn't have an asterisk by.

#28 opened on Sep 13 by ariskou

Clarify wording around definition of enrollment vs onboarding

#25 opened on Sep 13 by ariskou

The term "(lack of) willingness" is awkward. Do you mean ability or inability or relative priority or something like that. Again, anthropomorphic.

#24 opened on Sep 13 by ariskou

Either expand acronyms on their first use or include a Terminology section

#22 opened on Sep 13 by ariskou

Issues from Review of Review of draft-ietf-roll-enrollment-priority-10

#20 opened on May 13 by TAU-MarialnesRobles 6 of 8 tasks IESG

Rtg Review - Nits

#19 opened on Feb 29 by inesrob 1 of 3 tasks IESG

Security Directorate Review

#18 opened on Feb 29 by inesrob IESG

Enrollment-priority

Controlling Secure Network Enrollment in RPL Networks

Next Steps:

- Authors to resolve current GitHub issues
- Chairs to call WGLC
- Shepherd to publish write-up
- Comments/Suggestions?

Common Ancestor Objective Function and Parent Set DAG Metric Container Extension

<https://datatracker.ietf.org/doc/draft-ietf-roll-nsa-extension/>

NSA-extension Common Ancestor Objective Function and Parent Set DAG Metric Container Extension

- current version 12 (Expired)
- Open Issues:
 - Issue- 28: SHOULD be set to MAX_PATH_COST...MUST NOT select
 - <https://github.com/roll-wg/draft-ietf-roll-nsa-extension/issues/28>
 - Issue 59: Clarification needed on select the candidate neighbor - MRHOF
 - <https://github.com/roll-wg/draft-ietf-roll-nsa-extension/issues/59>

NSA-extension

Common Ancestor Objective Function and Parent Set DAG Metric Container Extension

- 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?

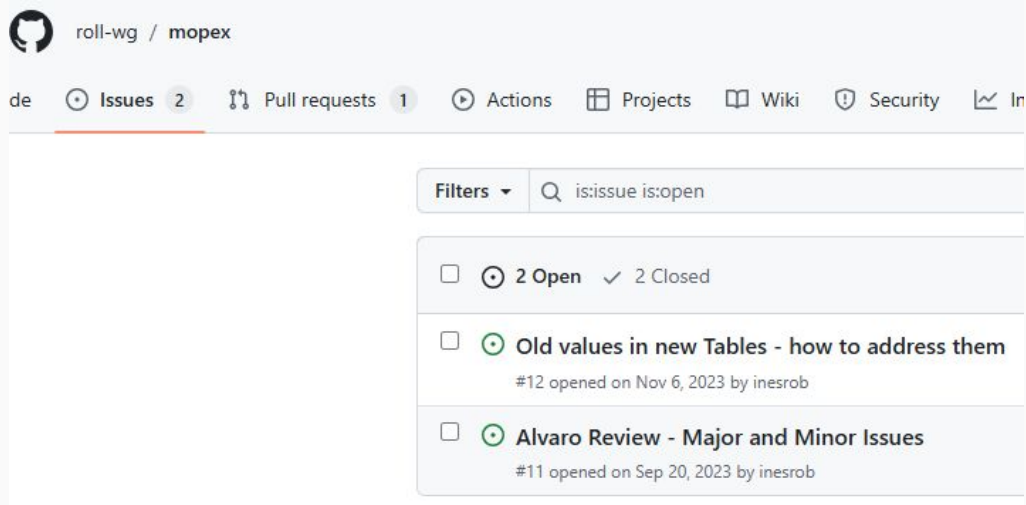
Mode of Operation Extension

<https://datatracker.ietf.org/doc/draft-ietf-roll-mopex/>

MOPEX

Mode of Operation extension

- Expired Document
- Open Issues: <https://github.com/roll-wg/mopex/issues>
 - Dominique willing to help to address open issues



The screenshot shows the GitHub repository page for `roll-wg / mopex`. The navigation bar includes links for `Issues` (2), `Pull requests` (1), `Actions`, `Projects`, `Wiki`, `Security`, and `In`. The `Issues` tab is selected. A search filter is applied: `is:issue is:open`. The results show 2 Open issues and 2 Closed issues. The first issue is `Old values in new Tables - how to address them`, opened on Nov 6, 2023 by `inesrob`. The second issue is `Alvaro Review - Major and Minor Issues`, opened on Sep 20, 2023 by `inesrob`.

| Issue Title | Status | Opened On | Opened By |
|------------------------------------------------|--------|--------------|-----------|
| Old values in new Tables - how to address them | Open | Nov 6, 2023 | inesrob |
| Alvaro Review - Major and Minor Issues | Open | Sep 20, 2023 | inesrob |

MOPEX

Mode of Operation extension

- 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?

Open Floor

- Additional Comments or Questions?