

Wednesday 2020/09/30

ROLL Interim Meeting

Routing over Low-Power And Lossy Networks

Chairs:

Dominique Barthel Ines Robles

Secretary: Michael Richardson



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)

Source: https://www.ietf.org/about/note-well/

Meeting Materials

- Session: Wednesday 2020/09/30
- Remote Participation
 - Etherpad: <u>https://codimd.ietf.org/notes-ietf-interim-2020-roll-05-roll</u>
 - Slides: <u>https://datatracker.ietf.org/meeting/interim-2020-roll-05/session/roll</u>
 - Jabber: xmpp:roll@jabber.ietf.org?join
 - Minutes taker: **Please volunteer, thank you :)**
- Please sign blue sheets = add your name into the etherpad :-)

Agenda

		IETF - ROLL Interim Meeting	
		10:45 to 12:45 UTC - Wednesday 30th September	
		Material: tatracker.ietf.org/meeting/interim-2020-roll-05/session/ro https://github.com/roll-wg/ROLL-Interim-Meeting https://codimd.ietf.org/notes-ietf-interim-2020-roll-05-ro	
Time	Duration	+ Draft/Topic	+ Presenter
10:45 - 11:05	20 min	WG Status	Ines/Dominique
11:05 - 11:15	10 min	ROLL in IETF 109	Ines/Dominique
11:15 - 11:25	10 min	Progress on Turn-on RFC8138 at IESG	Pascal
11:25 - 11:35	10 min	First IETF LC reviews of unaware-leaves	Pascal
11:35 - 11:50	15 <mark>min</mark>	New from P-DAO draft, discussion on managing complexity	Pascal
11:50 - 12:40	50 min	RPL v2 topics	<mark>Everyone</mark>
12:40 - 12:45	5 min	Open Floor	Everyone

Milestones

Milestones

Date	\$ Milestone	
Oct 2021	Recharter WG or close	
Dec 2020	Initial submission of Mode of Operation extension and Capabilities for RPL to the IESG draft-ietf-roll-mopex-cap	
Jul 2020	Initial submission of a root initiated routing state in RPL to the IESG draft-ietf-roll-dao-projection	
Jul 2020	Initial submission of a YANG model for MPL to the IESG draft-ietf-roll-mpl-yang	
Jun 2020	Initial submission of Enabling secure network enrollment in RPL networks draft to the IESG draft-ietf-roll-enrollment-priority	
Jun 2020	Initial submission of a proposal to augment DIS flags and options to the IESG draft-ietf-roll-dis-modifications	
Jun 2020	Initial submission of a proposal for Source-Route Multicast for RPL to the IESG draft-ietf-roll-ccast	
Mar 2020	Initial submission of Common Ancestor Objective Functions and Parent Set DAG Metric Container Extension to the IESG draft-ietf-roll-nsa-extension	
Mar 2020	Initial Submission of a proposal with uses cases for RPI, RH3 and IPv6-in-IPv6 encapsulation to the IESG draft-ietf-roll-useofrplinfo	

Done milestones

Date	÷	Milestone
Done		Initial submission to the IESG of mechanism to turn on RFC8138 compression feature within a RPL network draft-ietf-roll-turnon-rfc8138
Done		Initial submission of routing for RPL Leaves draft to the IESG draft-ietf-roll-unaware-leaves
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 a solution to the problems due to the use of No-Path DAO Messages to the IESG draft-ietf-roll-efficient-npdao

State of Active Internet-Drafts

Draft	Status
draft-ietf-roll-aodv-rpl-08	Revised I-D Needed
draft-ietf-roll-capabilities-07	Work in progress
draft-ietf-roll-dao-projection-13	Discussion Today
draft-ietf-roll-dis-modifications-01	Stand By
draft-ietf-roll-efficient-npdao-18	RFC Ed Queue
draft-ietf-roll-enrollment-priority-03	Work in progress
draft-ietf-roll-mopex-02	Work in progress
draft-ietf-roll-nsa-extension-09	Shepherd document in progress
draft-ietf-roll-rpl-observations-04	Work in progress
draft-ietf-roll-turnon-rfc8138-16	IESG Evaluation::AD Followup
draft-ietf-roll-unaware-leaves-20	Submitted to the IESG
draft-ietf-roll-useofrplinfo-41	Ready to go back to AD?

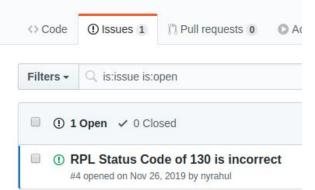
State of Related Internet-Drafts

Draft	Status
draft-jadhav-roll-storing-rootack-01	Work in progress
draft-thubert-roll-eliding-dio-information	Expired, presented in the last interim meeting
Draft-ietf-roll-mpl-yang-02 (Expired)	To be continued
Draft-ietf-roll-bier-ccast-01 (Expired)	To be continued

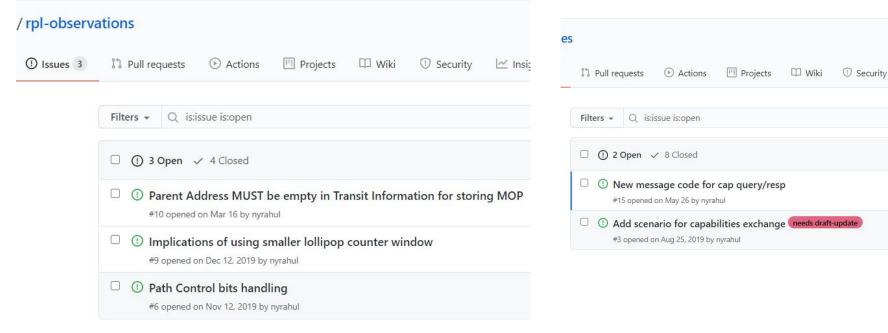


https://github.com/roll-wg/efficient-route-invalidation/issues

I roll-wg / efficient-route-invalidation

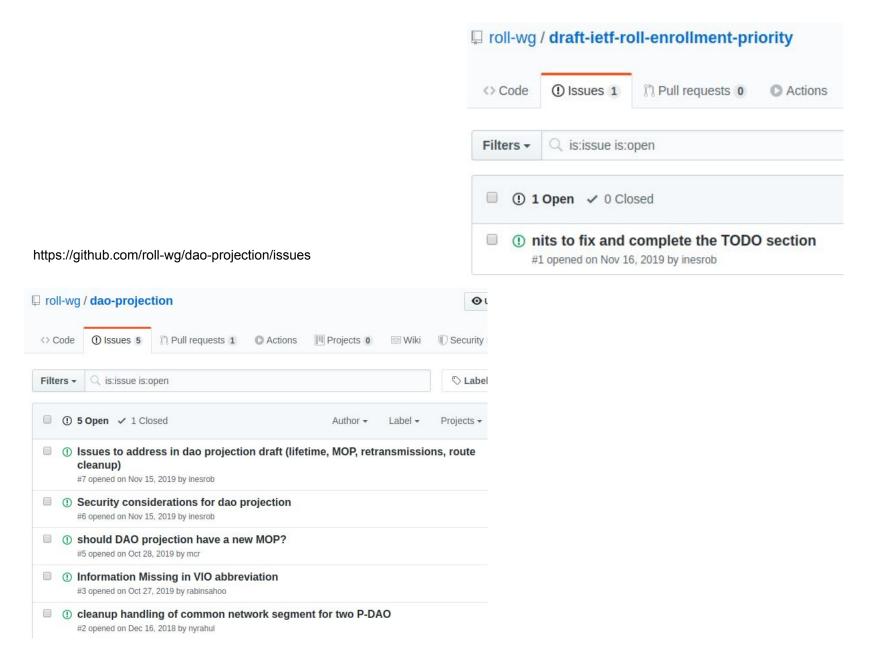


https://github.com/roll-wg/Capabilities/issues



Open tickets

https://github.com/roll-wg/draft-ietf-roll-enrollment-priority/issues

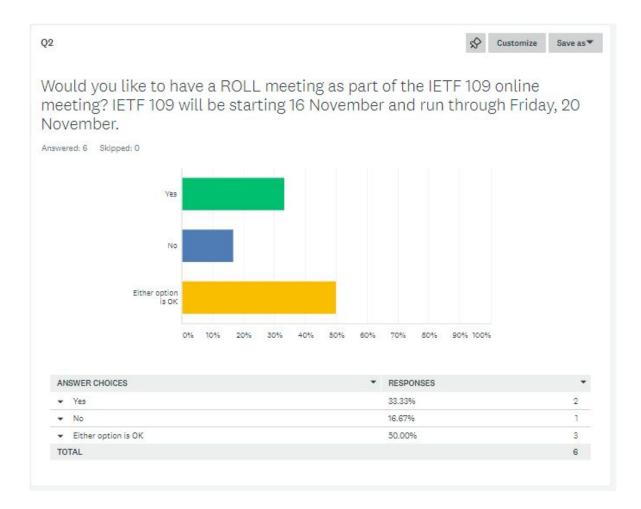


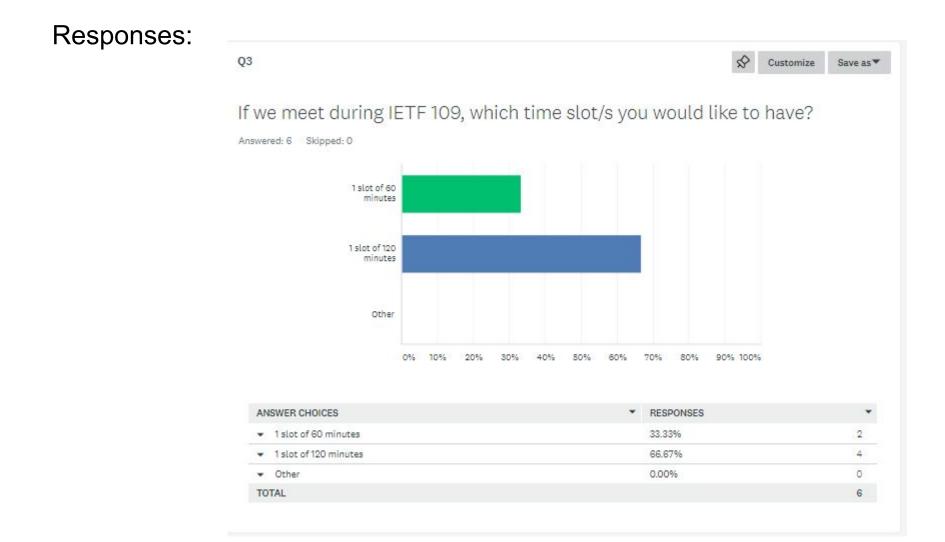
Open tickets

Ticket	Summary	Component
#179	Security considerations for dao projection	dao-projection
#180	13 issues to address in dao projection draft (lifetime, MOP, retransmissions, route cleanup)	dao-projection
#187	New version of RFC6550 - Topics to include	rpl
#188	Should 6LBR be included into the DODAG root?	rpl
#199	Issues in version 08	aodv-rpl
#200	Issues in version 08 - Part II	aodv-rpl

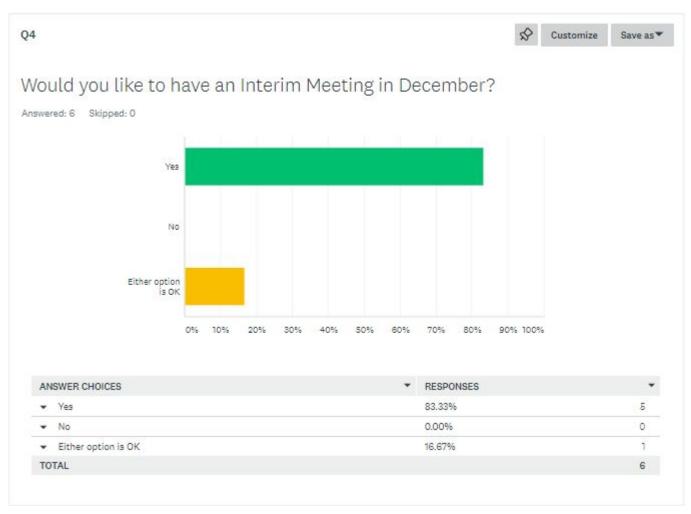
https://trac.ietf.org/trac/roll/report/2

Responses:









Responses:

Q5	Save as *
Additional Comments/Suggestions - Tha Answered: 3 Skipped: 3	nk you for your answer :-)
RESPONSES (3) WORD CLOUD TAGS (0)	🔓 Sentiments: OFF 🔵
Apply to selected V Filter by tag V	Search responses Q
Showing 3 responses	
We could elaborate on RPLv2 on open mike	
9/25/2020 6:26 PM	View respondent's answers Add tags 🐨
If interim meeting in December, please after the 8th.	
9/16/2020 3:07 PM	View respondent's answers Add tags 👻
I do not feel strongly.	
9/14/2020 12:47 PM	View respondent's answers 💿 Add tags 🐨

- https://www.surveymonkey.com/r/5KDZ8HH
- Based on Survey we will request a meeting slot for IETF 109
- Slot of 120 minutes
- Comments?

Progress on Turn-on RFC8138 at IESG

Pascal Thubert

First IETF LC reviews of unaware-leaves

Pascal Thubert

New from P-DAO draft, discussion on managing complexity

Pascal Thubert

Capabilities Updates

draft-ietf-roll-capabilities ROLL Interim 30th Sep 2020

Changes

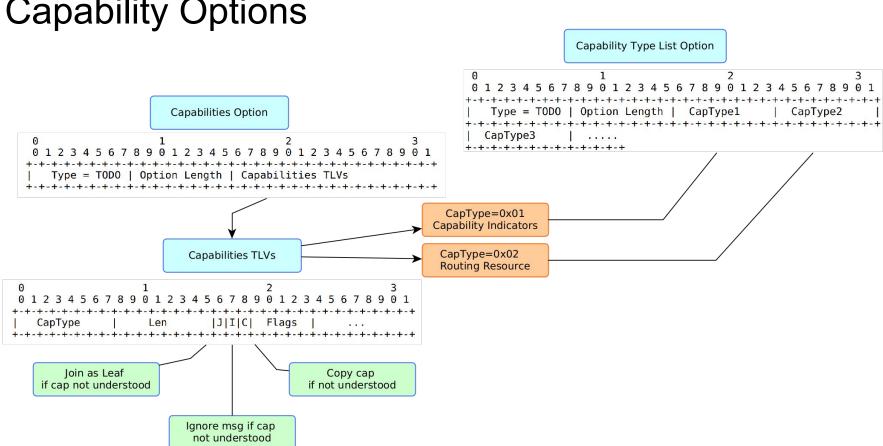
• Updates based Dominique's feedback. Thank You Dominique

What does the document contain?

- Capability Options that can be carried in any RPL messages
- Two specific capabilities
 - Capability Indicator flags
 - Routing Resource Capability
- Capability Query/Response signalling
- Guidelines for defining new capabilities

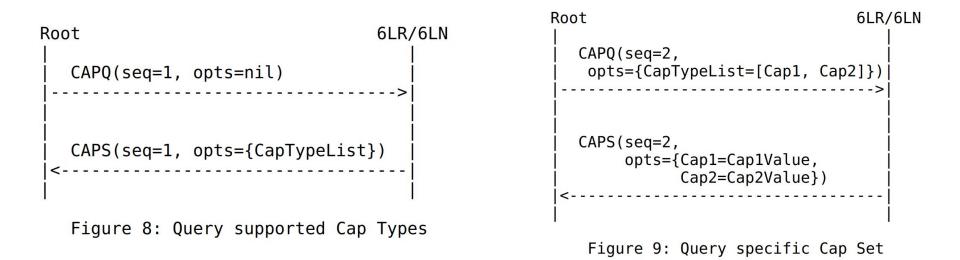
MUSTs:

• Handling of Capabilities MUST be supported if the network uses MOPex [I-D.ietf-roll-mopex].



Capability Options

Capability Query/Response

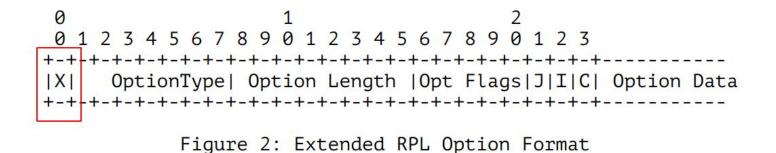


And the corresponding secure messages.

MOPex Updates

draft-ietf-roll-mopex

Extending RPL Control Options



- Earlier the location of 'X' bit was second most MSB.
- IANA section is updated to reflect this

RPLv2 topics - Prepare Table of content

Source:https://mailarchive.ietf.org/arch/msg/roll/hMUjtgxj05aA7fwaSXXhwqWTlI
E/

https://mailarchive.ietf.org/arch/msg/roll/Sw3XbEaWe_AssG6cGClQaZz43gc/

1. Use of revised Option Type (0x23) in RPI ... (Obsolete use of 0x63 RPI Option Type value).

2. Mandating the use of 6LoRH (RFC 8138) , turn-on

3. MOPex

4. Support for Ext Control Options. (Allows Backward compatibility for new extns... part for same mopex draft)

5. Support for Capabilities. (Enables backward compatibility, allows incremental feature support)

6) P-DAO for SDN-RPL

7) AODV-RPL.

RPL Observations issues

AOB