ROLL Interim Meeting

14 Oct 2019
ROLL Interim Meeting - 14 Oct 2019
Hosted by ROLL WG

Webex Details:
Monday, Oct 14, 2019 8:45 am | 2 hours 15 minutes | (UTC-05:00) Eastern Time (US & Canada)
Meeting number: 319 527 168
Password: pxT5tCu6
https://ietf.webex.com/ietf/j.php?MTID=mbf22e8e09dafa7a79eccc8646e17153ec

Join by phone
1-650-479-3208 Call-in toll number (US/Canada)
Access code: 319 527 168

Etherpad: https://etherpad.ietf.org/p/roll-interim-virtual-meeting-20191014

Agenda:

0) Agenda Bashing
1) Note Well https://www.ietf.org/about/note-well/
2) Discuss about: draft-ietf-roll-mopex-cap-00 Mode of Operation extension and Capabilities
   - Configuration Option Structure
   - Cap unaware 6LR
   - Capabilities Option structure and semantics
4) AOB
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/
Discussion Points:

1. Configuration Option Structure
2. Cap unaware 6LR
3. Capabilities Option structure and semantics
Configuration Option freshness

- **How to elide?**
  - Use counter in Reserved low-4b
  - Lollipop counter
    - Using just 4b might be an issue?
    - Which doc should this go in?

- **What should this counter be called?**
  - SET (Static info Eliding counTer)
  - Wanted to call it SEAL but could not think of an appropriate full-form
SET counter applicability

• Elide what?
  - Configuration Option
  - Future \{ Cap Option, MOPex \}
  - What else?
    • Prefix Information Option and other options which rarely change

• It is not a problem if different nodes elide different options
  - Since a query will still reveal the complete set of info regardless of what is elided

• Only the root is allowed to change the counter
Capability Option syntax

- Current draft considers CAPs as sequence of bits, but we are moving towards TLV format

- CAP bits
  - Join as router/leaf if cap not understood
  - Copy to children
    - Why do we need such flag? Individual cap spec should define whether the node should copy or not.
  - CAP Info (optional), provides ext info for the CAP
Capability option syntax

Optional, present only if I-bit set.
CAP unaware nodes

- CAP unaware node would strip-off the CAP option
- Thus a mandatory CAP may be ignored
- How to handle it?
  - Should we let CAP be used with only newer MOPs?
Other Points

- Where to carry capabilities?
  - Last time we discussed using new messages!
  - Shall we allow the node to proactively update the capability set?
  - If caps are used for parent selection, then it will result in additional messaging post parent selection.