ROLL Working Group Meeting
IETF-81, Quebec City July 2011

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IETF-80, Prague, April 2011

ROLL Working Group Meeting – IETF-81

1) WG Status (Chairs - 10 mn) [15]

2) "Applicability Statement for the Routing Protocol for Low Power and Lossy
Networks (RPL) in AMI Networks" - draft-popa-roll-applicability-ami-00
(TBD - 10mn) [25]

3) RPL P2P (Mukul- 30mn) [55]
draft-ietf-roll-p2p-rpl - "Reactive Discovery of Point-to-Point Routes in
Low Power and Lossy Networks"
draft-ietf-roll-p2p-measurement - "A Mechanism to Measure the Quality of a
Point-to-point Route in a Low Power and Lossy Network"
draft-goyal-roll-rpl-compression - "A Compression Format for RPL Control Messages"

4) "Adapted Multimedia Internet KEYing (AMIKEY): An extension of Multimedia
Internet KEYing (MIKEY) Methods for Generic LLN Environments" -
draft-alexander-roll-mikey-lln-key-mgmt-01 (Roger Alexander - 15mn) [70]

5) "The Direction Field in Routing Metric/Constraint
Objects Used in RPL"- draft-goyal-roll-metrics-direction - (Mukul - 5mn) [75]

6) "Identifying Defunct DAGs in RPL" - draft-goyal-roll-defunct-dags - (Mukul - 5mn) [80]

7) Update from Pascal Thuber on Aplicability statement: RPL for Industrial
Automation (10mn) [90]

RPL applicability statement for AMI networks

- IESG demands applicability statements for RPL
  - Condition of acceptance of RPL
  - Show how RPL is configured/used in different environments
  - Expose suitability or issues with RPL
- ROLL rechartered including specific milestones
- Chairs asked team to assemble first draft
- Chairs chose to adopt first draft to let WG control content and to move along quickly
- Hope for technical discussion later in this meeting

Charter Review and Milestones

- Update on various documents
  - draft-ietf-roll-security-framework-06 => One Last DISCUSS
  - draft-ietf-roll-of0 => Under IESG Evaluation
  - draft-ietf-roll-minrank-hysteresis-of => Passed WG Last Call
  - draft-ietf-roll-p2p-rpl => Good progress - to be discussed in this meeting
  - Note that the two 6Man IDs (RPL option HbH header and RH4 passed WG Last Call) => Good progress, authors need to move forward
  - New WG Document:
    - draft-ietf-roll-trickle-mcast-00
    - draft-ietf-roll-p2p-measurement-01
  - New WG document on Applicability statement series: "Use of RPL in AMI Networks"

IETF WG ROLL status as of today

Done   Submit Routing requirements for Industrial applications to the IESG to be considered as an Informational RFC.
Done   Submit Routing requirements for Connected [...] considered as an Informational RFC.
Done   Submit Routing requirements for Buil[...] Informational RFC.
Done   Submit Routing requirements for U[...] Informational RFC.
Done   Submit Security Framework to the I[...]
Done   Submit Routing metrics for LLNs docu[...]
Done   Submit first draft of ROLL routing protocol [...]
Done   Submit the ROLL routing protocol specification to [...]

Jun 2011   Submit first draft of RPL applicability statement for Industrial applications to the IESG to be considered as an Informational RFC.
Jun 2011   Submit first draft of RPL applicability statement for Building Automation applications to the IESG to be considered as an Informational RFC.
Jul 2011   Submit first draft of RPL applicability statement for Home Automation applications to the IESG to be considered as an Informational RFC.

Jul 2011   Submit first draft of RPL applicability statement for Urban applications to the IESG to be considered as an Informational RFC.
Oct 2011   Submit RPL applicability statement for Industrial applications to the IESG to be considered as an Informational RFC.
Oct 2011   Submit RPL applicability statement for Building Automation applications to the IESG to be considered as an Informational RFC.
Nov 2011   Submit RPL applicability statement for Home Automation applications to the IESG to be considered as an Informational RFC.
Nov 2011   Submit RPL applicability statement for urban applications to the IESG to be considered as an Informational RFC.

Dec 2012   Evaluate WG progress, recharter or close.

Producing applicability statements and finish the P2P work should be our priorities

Re-Chartering Discussion

- Discussion took place during WG Interim meeting and during IETF-81

- Priority should be given to finishing our current WG items

What is an applicability statement?

- An Applicability Statement specifies how, and under what circumstances, one or more TSs may be applied to support a particular Internet capability.

- An AS identifies the relevant TSs and the specific way in which they are to be combined, and may also specify particular values or ranges of TS parameters or subfunctions of a TS protocol that must be implemented.