

ROLL Working Group Meeting

IETF-80, Prague April 2011

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Co-chairs: JP Vasseur/David Culler

ADs: Adrian Farrel / Stewart Bryant

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Agenda/admin (Chairs - 5mn) [5]

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

**2) "Recommendations for Efficient Implementation of RPL" (Phil Levis - 10mn) [25]
draft-gnawali-roll-rpl-recommendations-01**

**3) Update on "The Minimum Rank Objective Function with Hysteresis" (Phil Levis - 10mn) [35]
draft-ietf-roll-minrank-hysteresis-of-02**

**4) Reactive Discovery of Point-to-Point Routes in Low Power and Lossy Networks
draft-ietf-roll-p2p-rpl-02 (Emmanuel - 10mn) [45]**

**5) "Selective DIS for RPL"
draft-dejean-roll-selective-dis (Dominique Barthel - 10mn) [55]**

**6) "RPL Objective Function 0"
draft-ietf-roll-of0-07 (Pascal - 10mn) [65]**

**6) Version Number Authentication and Local Key Agreement (Amit Dvir - 10mn) [75]
draft-dvir-roll-security-extensions-00**

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7) (Lightweight Key Establishment and Management Protocol in Dynamic Sensor Networks (KEMP) (Qui Ying - 10mn) [85]

draft-qui-roll-secure-router-00

8) The Direction Field in Routing Metric/Constraint Objects Used in RPL (Emmanuel - 5mn) [90]

draft-goyal-roll-metrics-direction-00

9) A Mechanism to Measure the Quality of a Point-to-point Route in a Low Power and Lossy Network (Emmanuel - 5mn) [95]

draft-goyal-roll-p2p-measurement-01

10) Identifying Defunct DAGs in RPL (Emmanuel - 5mn) [100]

draft-goyal-roll-defunct-dags-00

11) ROLL Re-chartering Discussion (all - 20mn) [120]

Charter Review and Milestones

- Outstanding progress since previous Working Group meeting
 - Draft-ietf-roll-rpl => RFC Ed queue
 - draft-ietf-roll-routing-metrics => RFC Ed queue
 - draft-ietf-roll-trickle-02 => RFC 6206
 - draft-ietf-roll-security-framework => New revision to be submitted (3 DISCUSS)
 - draft-ietf-roll-of0 => Passed WG Last Call
 - draft-ietf-roll-terminology-05
 - Need to make progress on:
 - draft-ietf-roll-minrank-hysteresis-of
 - draft-ietf-roll-p2p-rpl
 - Note that the two 6Man IDs (RPL option HbH header and RH4 passed WG Last Call) => Publication Request

=> The core specification of RPL is DONE

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 Home networks applications to the IESG to be considered as an Informational RFC.
- Done Submit Routing requirements for Building applications to the IESG to be considered as an Informational RFC.
- Done Submit Routing requirements for Urban networks applications to the IESG to be considered as an Informational RFC.
- Done Submit Security Framework to the IESG to be considered as an Informational RFC
- Done Submit Routing metrics for LLNs document to the IESG to be considered as a Proposed Standard.
- Done Submit first draft of ROLL routing protocol specification as Proposed Standard.
- Done Submit the ROLL routing protocol specification to the IESG as Proposed Standard.
- 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 applicability statement for Home Automation applications to the IESG to be considered as an Informational RFC.
- Jul 2011 Submit applicability statement for Urban applications to the IESG to be considered as an Informational RFC.
- Jul 2011 Submit applicability statement for Connected Home applications to the IESG to be considered as an Informational RFC.
- Jul 2011 Submit applicability statement for Building applications to the IESG to be considered as an Informational RFC.
- Nov 2011 Submit applicability statement for Industrial applications to the IESG to be considered as an Informational RFC.
- Nov 2011 Submit 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
- Some limited discussion on the Mailing List
- Open Mic ?