ROLL Working Group Meeting
IETF-83, Paris, March 2012

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Co-chairs: JP Vasseur/Michael Richardson (David Culler)
ADs: Adrian Farrel / Stewart Bryant

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ROLL Working Group Meeting – IETF-83

1) *WG Status (Chairs - 15 mn) [20]*

2) *The Minimum Rank with Hysteresis Objective Functiondraft-ietf-roll-minrank-hysteresis-of-06 - (Phil Levis - 5mn) [25]*

3) *Recommendations for Efficient Implementation of RPL (Phil - 5mn) [30]draft-gnawali-roll-rpl-recommendations-03*

4) *"Applicability Statement for the Routing Protocol for Low Power and LossyNetworks (RPL) in AMI Networks" - draft-ietf-roll-applicability-ami-05(TBD - 10mn) [40]*

5) *Update on P2P (Emmanuel - 15mn) [55]*
   1) ** Update on the RPL P2P Work*
   2) ** Updated on draft-ietf-roll-p2p-measurement-02*

6) *Multicast requirements for control over LLN (Peter van der stok - 10mn) [65]-draft-vanderstok-roll-mcreq-00*

7) *Experiences with RPL: IPv6 Routing Protocol for Low power and LossyNetworks - draft-clausen-lln-rpl-experiences-01 (Thomas - 10mn) [75]*

8) *Discussion on Security - 45 mn (Discussion led by Michael) [120]*
   1) *draft-dvir-roll-security-authentication (Amit - 10mn)*
   2) *draft-alexander-roll-amikey-lln-key-mgmt (Roger Alexander - 10mn)*
   3) *draft-qiu-roll-kemp-00 (QIU Ying - 10mn)*
   4) *Open Mic: 15mn*

Charter Review and Milestones

- Welcome to our new co-chair: Michael Richardson and a warm "Thanks !" to David Culler

- Update on various documents
  - draft-ietf-roll-security-framework-06 => One Last DISCUSS
  - RFC 6550: RPL: IPv6 Routing Protocol for Low-Power and Lossy NetworksRFC
  - RFC 6551: Routing Metrics Used for Path Calculation in Low-Power and Lossy Networks
  - RFC 6552: Objective Function Zero for the Routing Protocol for Low-Power and Lossy Networks (RPL)
  - *RFC 6553: The Routing Protocol for Low-Power and Lossy Networks (RPL) Option for Carrying RPL Information in Data-Plane DatagramsRFC*
  - *6554: An IPv6 Routing Header for Source Routes with the Routing Protocol for Low-Power and Lossy Networks (RPL).*

6Man WG

Charter Review and Milestones

- *Cont'*
  - draft-ietf-roll-minrank-hysteresis-of => in RFC Editor Queue
  - draft-ietf-roll-p2p-rpl => Passed WG Last Call
  - No New WG Document
  - Several new revision of Applicability statement series: "Use of RPL in AMI Networks"

Layer-3 keying and security

λThree security problems to discuss
    λTwo solutions to one
    λOne solution to another
λThe goal is to have a conversation,
    λnot a presentation.
λWe need to make some decisions.

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 H... 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 protoc...

Done   Submit the ROLL routing protocol specification to...

Close of security Framework + move forward on protocols - Producing applicability statements

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.
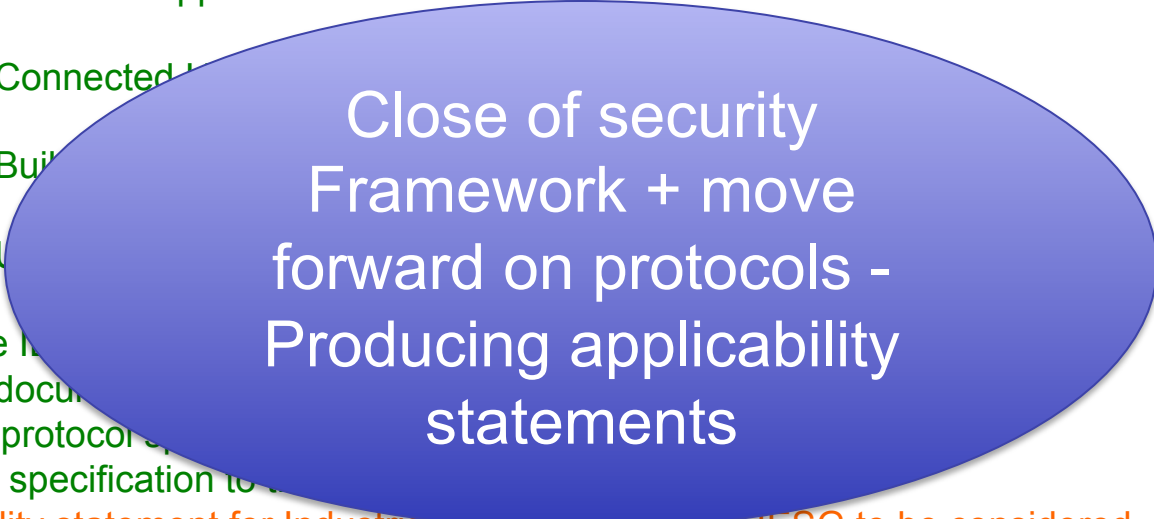
Oct 2011   Submit RPL applicability statement for Industrial applications to the IESG to be considered as an Informational RFC.

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.