

IPv6 over Low power WPAN WG (6lowpan)

Chairs:

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- **We assume people have read the drafts**
- **Meetings serve to advance difficult issues by making good use of face-to-face communications**
- **Be aware of the IPR principles, according to RFC 3979**

- ✓ Blue sheets
- ✓ Scribe(s)

71st IETF: 6lowpan WG Agenda

09:00	Introduction, Agenda	Chairs (5)
09:05	Status, Rechartering	Chairs (10)
09:15	I-D Inventory	Chairs (15)
09:30	Current Status of ROLL	JPV (10)
09:40	Current I-D Updates	
09:40	Security Analysis	DP (20)
10:00	Routing Requirements	EK (10)
10:10	Application Profile	EK (10)
10:20	SP100 DLL Intro	GM (10)
10:30	RFC 4944 Maintenance	GM (15)
10:45	HC Updates	JH (20)

What is 6lowpan?

- **Interesting L2 network: IEEE 802.15.4**
 - Low power, 20..250 kbit/s, 900 and 2400 MHz
 - Almost, but not entirely, unlike 802
 - Small MTU, limited range
- **Job of 6lowpan: make this look like an IPv6 link**
 - Classical encapsulation issues → format document
 - Reachability: **mesh routing**
 - No **multicast**: emulate, avoid (e.g., ND)

Segment 1: Rechartering Status

09:05–09:15

Chairs

Milestones (from WG charter page)

- Done draft-ietf-6lowpan-problem: WG last call
- Done draft-ietf-6lowpan-problem ⇒ IESG
 - RFC 4919 (Informational)
- Done draft-ietf-6lowpan-format: WG last call
- Done draft-ietf-6lowpan-format ⇒ IESG
 - RFC 4944 (Proposed Standard)
- Done...
- We are not chartered for work beyond this.

Charter: Milestones

- 1a: "6LoWPAN Bootstrapping and 6LoWPAN IPv6 ND Optimizations" (Dec 2008)
- 2a: "Problem Statement for Stateful Header Compression in 6LoWPANs" (Apr 2008!)
- 3a: "6LoWPAN Architecture" (Sep 2008)
- 3b: "6LoWPAN Routing Requirements" (Sep 2008)
- 4a: "Use Cases for 6LoWPAN" (Jul 2008)
- 5a: "6LoWPAN Security Analysis" (Aug 2008)
- 6a: "6LoWPAN implementers guide" (∞)
- 7a: "6LoWPAN interoperability guide" (∞)

Charter: Status

- **Was awaiting ROLL chartering**
- **Will be on IESG agenda now**
- **A word from the AD:**
 - *I understand that we need to get your recharter finished up and approved. No need to dwell on that today during your meeting time. Most important I believe is to **advance on your deliverables**, and ensure that the division of labor between **6lowpan** and the new roll WG is well understood by all.*
- **Let's just pretend we're rechartered**

Segment 2: I-D Inventory

09:15–09:30

Chairs

1a: "6LoWPAN Bootstrapping and 6LoWPAN IPv6 ND Optimizations" (Dec 2008)

- **WD for mesh-under:
draft-chakrabarti-6lowpan-ipv6-nd-04.txt**
- **Volunteer for route-over: Jonathan Hui**
- **Related:
draft-...commissioning...**

2a: "Problem Statement for Stateful Header Compression in 6LoWPANs" (Apr 2008!)

- **Volunteers: (Kris Pister), Carsten Bormann**
- **Other related:**
- **draft-hui-6lowpan-hc-00.txt**

3a: "6LoWPAN Architecture" (Sep 2008)

- **Baseline:**
- **draft-culler-6lowpan-architecture-00.txt**
 - add more “whole picture” perspective? (KK, PDM, GK)
- **Possibly related:**
- **draft-daniel-lowpan-mib-00.txt**
- **draft-thubert-lowpan-backbone-router-00.txt**

3b: "6LoWPAN Routing Requirements" (Sep 2008)

- Targeted document:
- **draft-dokaspar-6lowpan-routreq-04.txt**
 - align with ROLL documents, focus on 6lowpan specific

4a. "Use Cases for 6LoWPAN" (Jul 2008)

- **Baseline document (partial):**
- **draft-ekim-6lowpan-scenarios-02.txt**
 - **align (and cross-reference) with ROLL documents**
 - but make sure we look at larger picture than just routing
 - **get more input from commercial networks (DP)**
 - **make sure the benefit of using IP becomes visible**
 -

5a: "6LoWPAN Security Analysis" (Aug 2008)

- **Baseline document:**
- **draft-daniel-6lowpan-security-analysis-02.txt**
- **Move to draft-ietf-6lowpan-...-00 soon**

6a: "6LoWPAN implementers guide" (∞)

- **(implementers: document your experience! KK)**
 - **create outline now: GM**
- **Extension proposal:**
- **draft-thubert-lowpan-simple-fragment-recovery-00.txt**
-

7a: "6LoWPAN interoperability guide" (∞)

- **Possible input:**
- **draft-hui-6lowpan-interop-00.txt (exp)**
- **Maybe leave it to implementers' group for now...**

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