

IPv6 over Low power WPAN WG (6lowpan)

67th IETF

San Diego, CA, US, November 08, 2006

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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)

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67th IETF: 6lowpan WG Agenda

| | | |
|--------------|---|--------------------|
| 15:10 | Administrivia | Chairs (10) |
| 15:20 | New Header Encoding Proposal | Hui (15) |
| 15:35 | Chances and Risks of the Proposal | Chairs (10) |
| 15:45 | Discussion on Header Format Document | all (20) |
| 16:05 | Closing | Chairs |
| 16:10 | Done | |

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)

6lowpan Wiki

- <http://6lowpan.tzi.org>
- **Read: Everyone**
- **Update/Create: AuthorGroup**
 - Send mail to cabo@tzi.org to get in there
- **Your changes are welcome**
 - If we really don't like them, we'll revert them :-)
- **Gives us a chance to compile material that will be useful for next steps**
 - Of course, mailing list is better for actual discussion

WG secretary

RFC 2418:

6.2. WG Secretary

Taking minutes and editing working group documents often is performed by a specifically-designated participant or set of participants. In this role, the Secretary's job is to record WG decisions, rather than to perform basic specification.

Segment 2: WG status 15:10–15:20

Geoff Mulligan

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Open Milestones (from WG charter page)

- Mar 05 draft-ietf-6lowpan-problem: WG last call
- Apr 05 draft-ietf-6lowpan-problem ➔ IESG
 - Informational
- May 05 draft-ietf-6lowpan-format: WG last call
- Jul 05 draft-ietf-6lowpan-format ➔ IESG
 - Proposed Standard
- **Almost** done...
- **We are not chartered for work beyond this**

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What we need to do today

1. Work on finishing our core documents

1. Problem statement: just fixed more editorial nits (see list)
2. Format statement: next segment

2. Discuss future work

- How much should we bite off?
- Plan for a Rechartering that keeps focus

Segment 3: Format encoding proposal 15:20–15:35

Jonathan Hui

Segment 4: Opportunities and Risks

15:35–15:45

Chairs

Risks

- **Delay format work further**
- **Lose current implementations**
- **Miss market window**
 - Zigbee 1.1 is now done
 - Lots of proprietary stuff out there
 - Where are we?
- **Get people into a “let's specify this later” attitude**
 - Some things *need* to be in the base spec

Opportunities

- **Orthogonalize → easier to parse (less code)**
 - Increase benefit, applicability, ...
- **Increase extensibility**
 - Increase usable lifetime
- **Flexibility to “specify this later”**
 - e.g., multicast header should depend on SMF/...

Success factors

- **Be done within **two months****
 - Schedule might fit to MANET's
- **Finish a full spec within a week (Nov. 15)**
- **Significant review by Nov. 22**
- **Get two implementations within 1 month**
- **WGLC Dec 8th**

Segment 4: Discussion of encoding proposal
15:45–16:05

all

Segment 5: Wrapup
16:05–16:10

Chairs