IPv6 over Low power WPAN WG (6lowpan)

67th IETF
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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)
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](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

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**
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