

IPv6 over networks of resource-constrained nodes (6lo)

IETF 90, Toronto, July 2014

Tudor 7/8 – 9am – 11:30am

Chairs: Samita Chakrabarti, Ulrich Herberg

Online Agenda:

<https://datatracker.ietf.org/meeting/90/agenda/6lo/>

Charter: <http://datatracker.ietf.org/doc/charter-ietf-6lo/>

Mailing list: <https://www.ietf.org/mailman/listinfo/6lo>

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6lo Introduction

- Co-chairs: Ulrich Herberg and Samita Chakrabarti
- Technical Advisor: Ralph Droms
- Responsible Area Director: Brian Haberman

Today's meeting@IETF90:

- Jabber Room: [6lo@jabber.ietf.org](jabber:6lo@jabber.ietf.org)
- Instructions how to join on Jabber:
<https://www.ietf.org/jabber>
- Minutes Taker: Kerry Lynn, Thomas Clausen
- Audio stream:
<http://ietf90streaming.dnsalias.net/ietf/ietf908.m3u>

Remote Participants and Non-Native English Speakers

PLEASE, REMEMBER THE REMOTE PARTICIPANTS.....

- Speak/comment/questions using the microphones
- State your name before speaking
- Speak slowly when making comments on the microphone

Agenda

- Greetings and Welcome to 6lo WG Meeting@IETF90, Toronto
- agenda bashing + note well + draft status update - chairs (10 min)
- draft-ietf-6lo-lowpan-mib: Juergen Schoenwaelder and Ulrich (15min)
- OPSAWG LC Announcement:
 - draft-ietf-opsawg-coman-probstate-reqs-02, draft-ietf-opsawg-coman-use-cases: Juergen and Chairs (5 min)
- draft-ietf-6lo-ghc: Carsten Bormann (10 min)
- draft-ietf-6lo-dect-ule: Jens Toftgaard Petersen (10 min)
- draft-ietf-6lo-6lobac: Kerry Lynn (10 min)
- draft-popa-6lo-6loplc-ipv6-over-ieee19012-networks: Daniel Popa (10 min)
- draft-hong-6lo-ipv6-over-nfc: Yong-Geun Hong (10 min)
- draft-thubert-6lo-rfc6775-update-reqs: Pascal Thubert (10 min)
- draft-sarikaya-6lo-cga-nd: Behcet Sarikaya (10min)
- Diet-ESP Overview: Daniel Migault (15 min)
 - draft-mglt-ipsecme-diet-esp, draft-mglt-ipsecme-diet-esp-requirement, draft-mglt-ipsecme-diet-esp-iv-generation, draft-mglt-ipsecme-diet-esp-payload-compression
- LLN Plugfest Report: Ines Robles and Xavi Vilajosana (10 min)
- 6lo Use-case companion drafts for IPv6-over-foo documents? : Samita (5min)
- Open Discussions (5 -10 min)

Draft Status (Since IETF89...)

- In IESG evaluation but needs WG review:
 - draft-ietf-6lo-btle-02
- Submitted for AD review:
 - draft-ietf-6lo-lowpanz-05 [This week]
- WG LC completed
 - draft-ietf-6lo-ghc-03
 - draft-ietf-6lo-lowpan-mib-01
- WG Adoption complete
 - draft-ietf-6lo-6lobac-00
 - draft-ietf-6lo-dect-ule-00

Related individual Drafts

IPv6-over-foo

- draft-popa-6lo-6loplc-ipv6-over-ieee19012-networks-00.txt
- draft-hong-6lo-ipv6-over-nfc-00.txt

6LoWPAN Enhancements

- draft-thubert-6lo-forwarding-fragments-01[Expiring soon]
- draft-thubert-6lo-rfc6775-update-reqs-01
- draft-toutain-6lo-local-extensions-00.txt

6lo Security

- draft-raza-6lo-ipsec-00
- draft-sarikaya-6lo-cga-nd-00
- Diet-ESP

Other related documents

- draft-rizzo-6lo-6legacy-00
- draft-savolainen-6lo-optimal-transmission-window-00 [Expiring soon]
- draft-bormann-6lo-6lowpan-roadmap-00 [Expired]

Draft-ietf-6lo-btle-02

- IETF received communication from BT-SIG
 - About progress of IPv6 over BT-LE (April, 2014)
- BT-SIG changes require significant update to draft-ietf-6lo-btle
- Draft-ietf-6lo-btle-02 – updated with some fixes and feedback
- Next revision: When BT-SIG publishes the IP Support Profile (IPSP)- target Q4, 2014
- After that the document will go WGLC

Draft-ietf-6lo-lowpanz-05

- 2 WG LC completed
- Several rounds of reviews and updates
 - Text regarding privacy support
 - Fixes and clarifications
 - Addressed document shepherd's comments
- IPR review period completed without objection
- Draft is now submitted for AD review [this week]

Milestones from Nov, 2013

- Done** Dec 2013 WG decision on adoption for draft-bormann-6lo-ghc
- Done** Dec 2013 WG decision on adoption for draft-brandt-6man-lowpanz
- Done** Dec 2013 WG decision on adoption for draft-ietf-6man-6lobac
- Done** Dec 2013 WG decision on adoption for draft-schoenw-6lo-lowpan-mib

Mar 2014 WG decision on adoption of draft-bormann-6lo-6lowpan-roadmap

Done Mar 2014 WG decision on adoption of draft-mariager-6lowpan-v6over-dect-ule

Mar 2014 WG decision on adoption of draft-thubert-6lo-forwarding-fragments

Jul 2014 First draft of a generic guideline on IPv6-over-foo

Jul 2014 6lo document on information model and Data model – First draft;
use draft-schoenw-6lo-mib as a starting point

Milestones will be updated based on recent status of the documents

Please Participate!

- Please review the WG and individual documents !!
- Please provide feedback on the mailing list
- LLN plugfest this week was really great
 - More 6lo participation is encouraged in the future

6lo Usecase Scenarios

- Discussions at IETF89 and on the mailing list
- 6lo has wider applications
 - Bt-le, NFC, LOBAC, PLC, DECT-ULE, TSCH...
 - Industrial, Healthcare, Transportation(?), Buildings
- Items to consider:
 - Network access/Bootstrapping
 - Topology, L2-Mesh or L3-Mesh
 - Multi-link subnet, single subnet
 - Data rate, buffering requirements

6lo Usecase Scenarios(2)

- Security Requirements
- Mobility across 6lo networks and subnets
- Time synchronization requirements
- Reliability and QoS
- Data models
- How to start an effort on this?
 - Conference calls?
 - Team effort?
 - Companion use-case document with IPv6-over-foo docs?
 - One single document ?
- New WG to pay attention to : ACE, DICE