
HIP-RG meeting

IETF 74

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Agenda

Introductory slides (this presentation)

- 2) Gyu Myoung Lee, update on HIP for object to object communications
 - <http://www.ietf.org/internet-drafts/draft-lee-hip-object-02.txt>
- 3) Tobias Heer, HIP services draft
 - <http://www.ietf.org/internet-drafts/draft-heer-hip-service-00.txt>
- 4) Tobias Heer, HIP middleboxes draft update
 - <http://www.ietf.org/internet-drafts/draft-heer-hip-middle-auth-02.txt>
- 5) Oleg Ponomarev, HIT-to-IP mapping service
 - <http://tools.ietf.org/html/draft-ponomarev-hip-hit2ip-03>
- 6) Andrei Gurtov, hip-sava draft
 - <http://www.ietf.org/internet-drafts/draft-kuptsov-sava-hip-01.txt>
- 7) Samu Varjonen, hip-cert update and hip-srt (strong password auth of users)
 - <http://www.ietf.org/internet-drafts/draft-ietf-hip-cert-00.txt>
 - <http://www.ietf.org/internet-drafts/draft-varjonen-hip-srp-00.txt>
- 8) Xiaohu Xu, RANGI proxy
 - <http://www.ietf.org/internet-drafts/draft-xu-rangi-00.txt>
 - <http://www.ietf.org/internet-drafts/draft-xu-rangi-proxy-00.txt>
- 9) Robert Moskowitz, HIP and SIP over IPv6
- 9) Discussion and next steps

HIP RG administrative overview

- Mailing list:
 - <http://listserv.cybertrust.com/mailman/listinfo/hipsec-rg>
 - (will be moved after IETF meeting, to IETF-hosted list)
- Supplemental web page (wiki):
 - <http://www.openhip.org/irtf/wiki>
- HIPRG charter
 - Evaluate benefit/impact of deploying HIP
 - Experiment with HIP software
 - Analyze HIP in context of real networks
 - Prepare report to IESG

What is HIP?

- A proposal to use public keys as names for Internet stacks, and to use these names within the TCP/IP architecture
 - Please see [RFC 4423](#) for an overview of the HIP architecture
 - Please see [RFC 5201-5206](#) for specifications
- What is the difference between the HIP WG and the HIP RG?

RG draft status

Note: IRTF groups can produce RFCs

- see: [draft-irtf-rfcs-03.txt](#)

The HIPRG has one RG draft:

- [draft-irtf-hip-experiment-05.txt](#)
- Our main RG deliverable
- Updated in March 2009

Revised drafts since last meeting:

- [draft-ahrenholz-hiprg-dht-04.txt](#)
- [draft-heer-hip-middle-auth-02.txt](#)
- [draft-urien-hip-tag-01.txt](#)
- [draft-lee-hip-object-02.txt](#)

RG draft status

New drafts since last meeting:

- [draft-heer-hip-service-00.txt](#)
- [draft-kuptsov-sava-hip-01.txt](#)
- [draft-varjonen-hip-srp-00.txt](#)
- [draft-ponomarev-hip-hit2ip-03.txt](#)

Software sites

- Three public implementations of HIP available:
 - HIPL (HIP for Linux) (Helsinki HIIT)
 - <http://infrachip.hiit.fi>
 - HIP4BSD (Ericsson NomadicLab)
 - <http://hip4inter.net>
 - OpenHIP
 - <http://www.openhip.org>
- Three test servers:
 - <http://hipserver.mct.phantomworks.org>
 - <http://woodstock{4|6}.hip4inter.net>
 - <http://hipserver.hiit.fi>

WG update

- HIP WG not meeting at this IETF
- WG charter items:
 - Basic HIP Extensions for Traversal of Network Address Translators
 - Basic Socket Interface Extensions for Host Identity Protocol (HIP)
 - HIP Certificates
 - HIP BONE: Host Identity Protocol (HIP) Based Overlay Networking Environment
 - HIP Immediate Carriage and Conveyance of Upper-layer Protocol Signaling (HICCUPS)
 - ORCHID generation (no draft yet)

Things to Think About

- How do trends in IPv6 deployment influence HIP?
 - NAT66
 - PI addressing
- Related meetings at this IETF
 - 6AI meeting (Thursday morning)
 - RRG work on ID/Locator split (Friday)
 - MIF BOF (Thursday afternoon)
- What can we do to experiment on a larger scale?
- Future directions of the RG?