
HIP-RG meeting

IETF 81

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Getting started

- Note taker? Jabber watcher?
 - hiprg@jabber.ietf.org
- Microphone comments please, and state your name and slide number
- IETF Note Well applies to this meeting

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?

Selected use cases

(from previous RG presentations)

- Simple-to-use HIP mobility
- Fully automated home VPN
- Internal network security
 - HIP authentication towards firewalls
- Cloud security
- Multipath HIP
- Corporate VPNs
- Mobile routers

HIP RG administrative overview

- Mailing list:
 - <http://www.ietf.org/mailman/listinfo/hiprg>
- Supplemental web page (wiki):
 - <http://trac.tools.ietf.org/group/ietf/trac/wiki/hiprg>
- HIPRG charter
 - Evaluate benefit/impact of deploying HIP
 - Experiment with HIP software
 - Analyze HIP in context of real networks
 - Prepare report to IESG
- Transition paths for drafts
 - IRTF stream (RFC 5743)
 - Hand over to HIP working group

Software sites

- Four public implementations of HIP available:
 - HIPL (HIP for Linux) (HIIT, Aalto Univ, RWTH Aachen)
 - <http://launchpad.net/hipl>
 - HIP4BSD (Ericsson NomadicLab)
 - <http://hip4inter.net>
 - OpenHIP
 - <http://www.openhip.org>
 - CuteHIP
 - <http://code.google.com/cutehip>

RG document status

Recently completed:

- HIP DHT Interface
 - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-dht-04.txt>
 - Reviewed by Martin Stiernerling, going to IRSG Poll
- HIP Experiment Report
 - <http://www.ietf.org/internet-drafts/draft-irtf-hip-experiment-13.txt>
 - Reviewed by Martin Stiernerling, going to IRSG Poll

RG document status

In progress:

- HIP support for RFID
 - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-rfid-03.txt>
- Investigation in HIP Proxies
 - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-proxies-03.txt>
- Host Identifier Revocation in HIP
 - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-revocation-03.txt>

RG document status

Updated drafts since last meeting:

- HIP Flow Mobility [draft-cao-hiprg-flow-mobility-01.txt](#)
- Identity Privacy [draft-zhang-hip-privacy-protection-03.txt](#)
- HIP-based Failure Detection and Recovery for Multihoming [draft-yuan-hiprg-failure-detection-recovery-02.txt](#)
- HIP Certificate Requests [draft-pellikka-hiprg-certreq-01.txt](#)
- Extensions of Host Identity Protocol (HIP) with Hierarchical Information [draft-xu-hip-hierarchical-02.txt](#)

New HIP RFCs

From IETF HIP WG:

- RFC 6023, Host Identity Protocol Certificates
- RFC 6261, Encrypted Signaling Transport Modes for the Host Identity Protocol
- RFC 6316, Sockets Application Program Interface (API) for Multihoming Shim
- RFC 6317, Basic Socket Interface Extensions for the Host Identity Protocol (HIP)

Agenda

Introduction, draft status (10 minutes)

RG draft review and open issue discussion (20 minutes)

1) HIP support for RFID (Gyu Myoung Lee)

- <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-rfid-03.txt>

2) Investigation in HIP Proxies (Zhen Cao)

- <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-proxies-03.txt>

HIP and femtocell technology (Suneth Namal) 20 minutes

Status update on HIP deployment research (Tapio Leva) 10 minutes

HIP VPLS at Boeing (David Mattes) 30 minutes

– Byres Security Demo featuring Tofino HIP VPLS

Review of OpenHIP release (Tom Henderson) 5 minutes

Rechartering discussion

Rechartering discussion

- Previously suggested criteria for new work items:
 - is the research area clear and relevant for the Internet community and for HIP in particular? What are the expected outcomes and impact?
 - will the RG foster work that would not be done otherwise? For instance, participation drawn from more than a single institution or country. Can we try to identify individuals for this anticipated participation?
- Topics suggested on list:
 - Hierarchical HITs
 - Middlebox support