
HIP-RG meeting (joint with EME-RG) IETF 69

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Agenda

1300-1315 - Agenda, joint meeting goals (Chairs)

1315-1345 - EME RG work end-middle-end signaling

- NUTTS drafts:

- Paul Francis (draft-irtf-eme-francis-nutss-design-00.txt)

1345-1425 - HIP RG work on SIP and reachability

- P2PSIP prototypes and drafts:

- Philip Matthews (draft-matthews-p2psip-hip-hop-00.txt)

- Joakim Koskela

- Fault tolerance configurations for HIP multihoming (draft-oliva-hiprg-reap4hip-00)

- Marcelo Bagnulo Braun

1425-1500 - Open discussion of HIP and NUTSS synergies and next steps

HIP RG administrative items

- Mailing list:
 - <http://honor.trusecure.com/mailman/listinfo/hipsec-rg>
- Supplemental web page (wiki):
 - http://www.openhip.org/irtf/wiki/index.php?title=Main_Page
- HIPRG charter
 - Evaluate benefit/impact of deploying HIP
 - Experiment with HIP software
 - Analyze HIP in context of real networks
 - Prepare report to IESG

Draft status

draft-irtf-hip-experiment-02.txt

- Our main RG deliverable
- No updates recently

draft-irtf-hiprg-nat-04.txt

- In last stages of approval as an IRTF-track RFC
 - in “MISSREF” state

New/revised drafts since last meeting:

- draft-matthews-p2psip-hip-hop-00.txt
- draft-oliva-hiprg-reap4hip-00.txt
- draft-tschofenig-hiprg-host-identities-05.txt
- draft-tschofenig-hiprg-hip-natfw-traversal-06.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>

EME RG administrative items

- Mailing list:
 - eme@irtf.org
- Supplemental web page (wiki):
 - <http://www3.tools.ietf.org/group/irtf/trac/wiki/EME>
- EME RG charter
 - Create EME requirements
 - Design EME signaling protocol(s) (clean slate)
 - Analyze how existing protocols may be used for EME
 - Implement and experiment

Draft status

draft-guha-emerg-requirements-00.txt

- Expires August
- No updates recently
 - (need to incorporate comments from Hannes)

draft-irtf-eme-francis-nutss-design-00.txt

- High-level design for EME requirements
- Looking for input on basic approach
- Next step is to create more detailed draft

Software site

- <http://nutss.net/>
- Implemented name-based communication library
 - Reliable sockets for now (i.e. TCP)
 - libnutss v0.1
- SIP for offpath signaling
 - SIP registrar running at Cornell
- STUN-like onpath signaling
 - Couple of STUN-like servers on Planetlab
- v0.2 coming soon
 - Datagram sockets
 - Full ICE/STUN implementation
 - NUTSS-like unified signaling over SIP+ICE/STUN transport

Joint meeting goals

Motivation for joint meeting

1. HIP and NUTSS may complement one another
 - (Flat) HIP identifiers probably need bindings to higher-level names, for user-friendliness and aggregation in ACLs
 - Connectivity (NAT traversal) a key open area for HIP
 - NUTSS may (or may not) benefit from network-layer security and mobility mechanisms in HIP
2. HIP and EME RGs are similarly chartered
 - Evaluate feasibility and desirability of architectural changes
 - How to take experiments to the next level?

Joint meeting goals

- EME group will review EME drafts
- HIP RG will review SIP/P2P/NAT/Reachability drafts

Open discussion goals:

- Is there synergy or antagonism between the HIP and EME architectures?
 - Or a mix of both? (specifics, please)
- What can either or both RGs do, in terms of deployment and experiments, to better evaluate the architectures?