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:**

- **Supplemental web page (wiki):**

- **HIP PRG 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://infrahip.hiit.fi
  – HIP4BSD (Ericsson NomadicLab)
    • http://hip4inter.net
  – OpenHIP
    • http://www.openhip.org

• Three test servers:
  – http://hipservlet.mct.phantomworks.org
  – http://woodstock{4|6}.hip4inter.net
  – http://hipservlet.hiit.fi
EME RG administrative items

- Mailing list:
  - eme@irtf.org

- Supplemental web page (wiki):

- 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?