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# **HIP-RG meeting**

## **IETF 73**

**November 21, 2008**

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Andrei Gurtov (absent from this meeting)  
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# Agenda

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- Introductory slides (this presentation)
- HIP Extensions for Object-to-Object Communications (Gyu Myoung Lee)
  - draft-lee-hip-object-01.txt
- Delivering Geographic Location in HIP (Hui Deng)
  - draft-cao-hip-geolocation-01.txt
- Update on the HIP-based Secure Mobile Architecture project at Boeing (Tom Henderson)
- HIP for Linux Status Report (Joakim Koskela)
- **Open Discussion**

# HIP RG administrative overview

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- Mailing list:
  - <http://honor.trusecure.com/mailman/listinfo/hipsec-rg>
- 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?

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- 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

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Note: IRTF groups can produce RFCs

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

The HIPRG has one RG draft:

- [draft-irtf-hip-experiment-04.txt](#)
- Our main RG deliverable
- Updated in July 2008

Revised drafts since last meeting:

- [draft-ahrenholz-hiprg-dht-03.txt](#)
- [draft-cao-hip-geolocation-01.txt](#)
- [draft-jiang-hiprg-hhit-arch-01.txt](#)
- [draft-lee-hip-object-01.txt](#)

# Software sites

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- 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

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- 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)

# Recent Related Work

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HIP enthusiasts may want to look at:

- Identifier Locator Network Protocol (ILNP)
  - <http://www.ietf.org/internet-drafts/draft-rja-ilnp-intro-01.txt>
  - Also, “hostname-oriented network stack” by C. Vogt, in RRG
- Proposed transport protocol architecture changes
  - D. Wischik et al., “The Resource Pooling Principle”, ACM Sigcomm CCR, October 2008.
  - B. Ford and J. Iyengar, “Breaking Up the Transport Logjam,” IETF-73 TSVWG meeting
- D. Thaler, “Why do we really want an ID/locator split anyway?” Sigcomm Mobiarch 2008 Keynote
  - <http://conferences.sigcomm.org/sigcomm/2008/workshops/mobiarch/>