

---

# **HIP-RG meeting**

## **IETF 80**

**March 29, 2011**

Andrei Gurtov and Tom Henderson  
{gurtov@hiit.fi, thomas.r.henderson@boeing.com}

# 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**

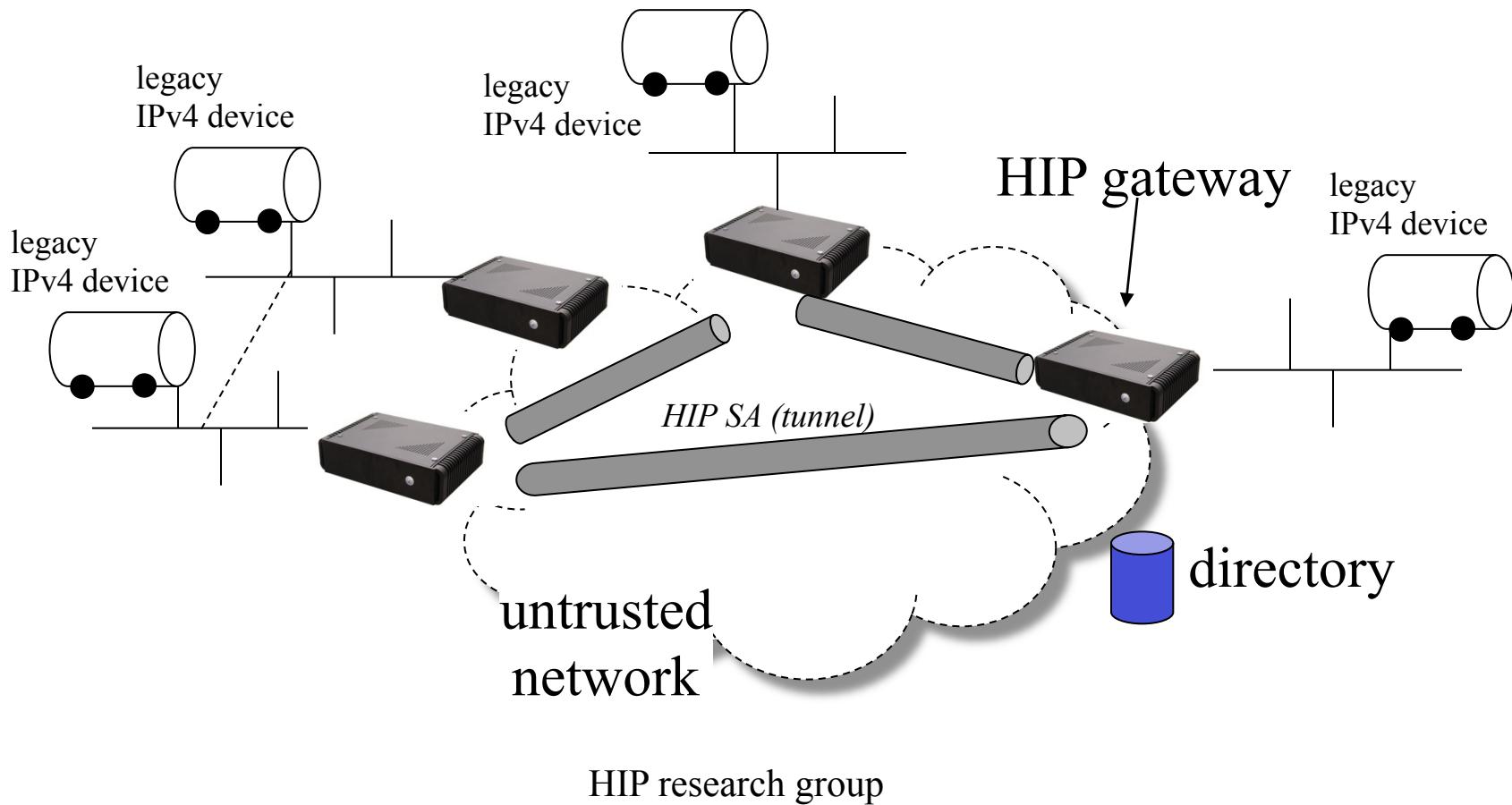
---

(from HIPL status update, IETF 79 presentation)

- Simple-to-use HIP mobility
- Fully automated home VPN
- In-network security
  - HIP authentication towards firewalls
- Cloud security and HIP
- Multipath HIP

# Selected use cases

- L2VPNs (draft-henderson-hip-vpls-02.txt)
  - (see IETF 77 HIPRG proceedings)



# HIP RG administrative overview

---

- Mailing list:
  - <http://www.irtf.org/mailman/listinfo/hiprg>
- Supplemental web page (wiki):
  - <http://trac.tools.ietf.org/group/irtf/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

---

- Three 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>
- Test servers:
  - <http://hipserver.mct.phantomworks.org>
  - <http://woodstock{4|6}.hip4inter.net>
  - <http://hipserver.hiit.fi>

# **RG document status**

---

Recently completed:

- **HIP DHT Interface**
  - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-dht-03.txt>
  - Completed RG last call, going to IRSG review
- **HIP Experiment Report**
  - <http://www.ietf.org/internet-drafts/draft-irtf-hip-experiment-11.txt>
  - Completed RG last call, needs RG consensus statement to go to IRSG review

# **RG document status**

---

In progress:

- HIP support for RFID
  - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-rfid-02.txt>
- Investigation in HIP Proxies
  - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-proxies-02.txt> 3)
- Host Identifier Revocation in HIP
  - <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-revocation-02.txt>

# RG document status

---

## New drafts since last meeting:

- HIP Flow Mobility [`draft-cao-hiprg-flow-mobility-00.txt`](#)
- Communication between a HIP-enabled Host and a Legacy Host [`draft-cao-hiprg-legacy-host-00.txt`](#)

## Updated drafts since last meeting:

- HIP Diet EXchange (DEX) [`draft-moskowitz-hip-rg-dex-05.txt`](#)
- Hierarchical Host Identity Tags [`draft-kuptsov-hhit-02.txt`](#)
- HIP Certificate Requests [`draft-pellikka-hiprg-certreq-00.txt`](#)

# RG document status (cont.)

---

Updated drafts since last meeting (cont):

- HIP-based Failure Detection and Recovery for Multihoming  
[`draft-yuan-hiprg-failure-detection-recovery-01.txt`](#)
- Identity Privacy [`draft-zhang-hip-privacy-protection-02.txt`](#)
- HIP-based Virtual Private LAN Service (HIPLS) [`draft-henderson-hip-vpls-02.txt`](#)

# Agenda

---

Introduction, draft status, agenda bashing (10 minutes)

RG draft review and open issue discussion (45 minutes)

1) HIP support for RFID (March update)

- <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-rfid-02.txt>

2) Investigation in HIP Proxies (March update)

- <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-proxies-02.txt>

3) Host Identifier Revocation in HIP (March update)

- <http://www.ietf.org/internet-drafts/draft-irtf-hiprg-revocation-02.txt>

# Agenda (cont.)

---

Other drafts and short talks (10 minutes each):

1) R. Moskowitz, HIP Diet EXchange

- <http://www.ietf.org/internet-drafts/draft-moskowitz-hip-rg-dex-05.txt>

2) Jani Pellikka, Progress on HIP CERTREQ draft

- <http://tools.ietf.org/html/draft-pellikka-hiprg-certreq-00>

3) Zhen Cao, HIP Flow Mobility

- <http://www.ietf.org/internet-drafts/draft-cao-hiprg-flow-mobility-00.txt>

4) Zhen Cao, Communication between a HIP-enabled Host and a Legacy Host

- <http://www.ietf.org/internet-drafts/draft-cao-hiprg-legacy-host-00.txt>

5) Dmitriy Kuptsov, Hierarchical Host Identity Tags

- <http://tools.ietf.org/html/draft-kuptsov-hhit-02>

6) Tapio Levä and Ari Keranen, HIP Techno-Economic Issues (time permitting)