# Host Identity Protocol Related Research

(A working name, better ones called for. Maybe SPLIT: Separating Protocol Locator and Identifier Tags)

> Monday, March 1 2004, 1930-2200 IETF59, Lotte Hotel, Seoul

# Agenda bashing

1930	Agenda bashing	Chairs
1935	RG background & Status	Chairs & Vern
1945	HIP related research elsewhere	Pekka Nikander
2000	HIP proxy service	Lars Eggert
2015	NAT problem statement	Jürgen Quittek
2030	LHIP or delayed state setup	Pekka Nikander
2045	SLAP / CELP	Dave Crocker
2115	Referrals problem statement	Pekka Nikander
2135	Some thoughts on HIP rendezvous	Tim Shepard
2145	Summary & steps forward	Chairs

# RG background

- HIP BOF at Minneapolis was a success
- IESG wanted to charter a short term, focused working group
  - Infrastructure bits for experimentation
- Longer term work pushed to a RG
- IAB still discussing the charter

#### HIP Research in the IRTF Vern Paxson (IRTF chair)

- High-level IETF strategy for developing ID/ locator split architecture not finalized ....
- .... but will be explored this week (IAB plenary)
- Three possible outcomes:
  - a Research Group specific to HIP
  - a more general ID/locator RG
    - which will include HIP research
  - both of these
- = HIP will soon have a home within the IRTF

## HIP Related Research elsewhere

- DARPA NewArch project
- European Union 6th Framework projects
  - Ambient networks
  - Daidalos

### NewArch

- Future Generation Internet Architecture
- USC ISI, MIT LCS, ICSI
- Braden, Clark, Shenker, ...
- Small design team approach



### Ambient Networks

- European Union 6th Framework Project
- 6 years, 2004 being the first year
- Still working on scenarios and requirements
- Focusing on "IP based control plane" for B3G
  - A management overlay for managing network composition, basic & advanced mobility, etc.
- 45 partner organization
- http://www.ambient-networks.org/

#### Daidalos

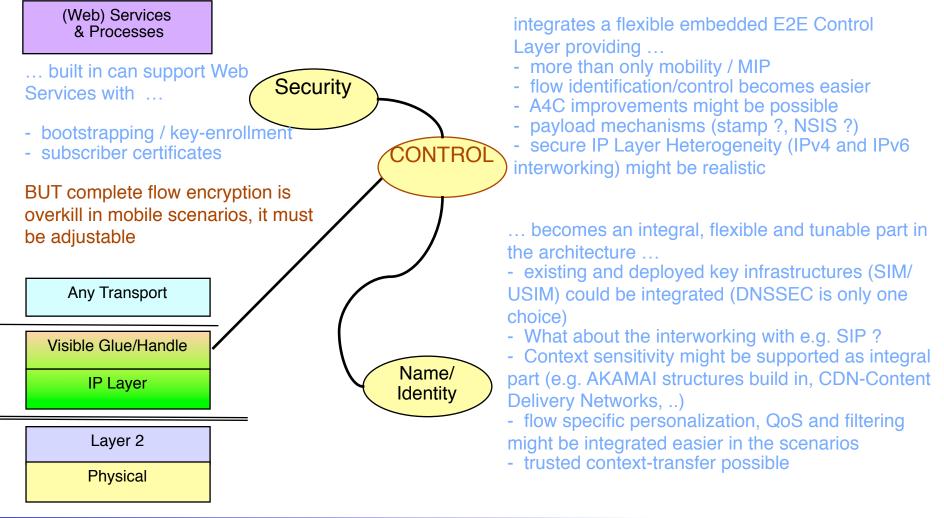
- EU 6th FP, 11-2003 04-2006, 49 partners
- MIPv6 centric Mobility, AAA, QoS, Security
- Edge mobility, adhoc, mobile networks
- Uplink and Downlink separation (DVB, satellite)
- Creating a pervasive service platform
- Vertical and horizontal federations of providers, user profiles and privacy
- HIP issues in Daidalos: identity, mobility





February-March 2004

#### What DAIDALOS might gain from a visible Locator / Identifier split



#### Summary and next steps

- There will be a Research Group
- Currently chartered goal: Give a recommendation to the IETF on the mechanism(s) for separating the identifier and locator nature of IP addresses
- Is this a useful approach?
- Are we working on the right problems?