Homenet

IETF 93, Prague

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IETF 93 Homenet Agenda

1300: Administrivia (10m), Blue Sheets, Note taker, Jabber relay

1310: WG Status Updates - Chairs (10m)

1320: DNCP/HNCP Document Cluster Update (15m) - Steven Barth

1335: DNCP/HNCP Implementation Report (10m) - Juliusz Chroboczek

1345: Naming Architecture (10m) - Daniel Migault

1355: MPVDs in Homenet and MIF (10m) - Liang Geng

1405: DNCP Use Case in a Distributed Cache System (5m) - Aloys Augustin

1410: Experience and Evaluation of the Distributed Node Consensus Protocol (10m) - Kaiwen Jin

1420: Report from Routing Protocol Design Team (60m) - Russ White

1520: Wrap Up and Next Steps

1530: 横浜でお会いしましょう

WG Update

WG Drafts Updated since IETF 92

- draft-ietf-homenet-prefix-assignment-07 [in IESG Evaluation (1 DISCUSS)]
- draft-ietf-homenet-dncp-07 [in IETF LC]
- draft-ietf-homenet-hncp-07 [WGLC closed 14 July, Revised ID Needed]
- draft-ietf-homenet-front-end-naming-delegation-03 [WGLC soon]
- draft-ietf-homenet-naming-architecture-dhc-options-02 [WGLC soon]

New or Updated Individual Submissions since IETF 92

- draft-geng-homenet-mpvd-use-cases-01
- draft-jin-homenet-dncp-experience-00
- draft-augustin-homenet-dncp-use-case-00

Not Updated – Waiting on another WG:

draft-ietf-homenet-hybrid-proxy-zeroconf-00 [waiting on dns-sd]

Hackathon Homenet Team

Named: “Best Group of Geeks”

Awarded: Best of Show (1 of 3)

Python-based DNCP Prototype

Lead: Markus Stenberg (Independent)

Current Total of 680 LoC for DNCP in Python (+212 today)
https://github.com/fingon/pysyma
PySyMa = "Simple Home Status Protocol" draft-stenberg-shsp

initially: had untested skeleton code pre-hackathon
now: minimal unit tests work, it converges, etc.
however: still some stuff missing (e.g. real i/o, interop testing but it will happen during IETF93, ideally before homenet WG)

Quagga IS-IS hnetd Integration

Lead: Christian Franke (NetDef)

Quagga already provides implementation for:

- draft-baker-ipv6-isis-dst-src-routing
- draft-franke-isis-over-ipv6-00
- draft-lamparter-isis-p2mp-00

Code is available at:

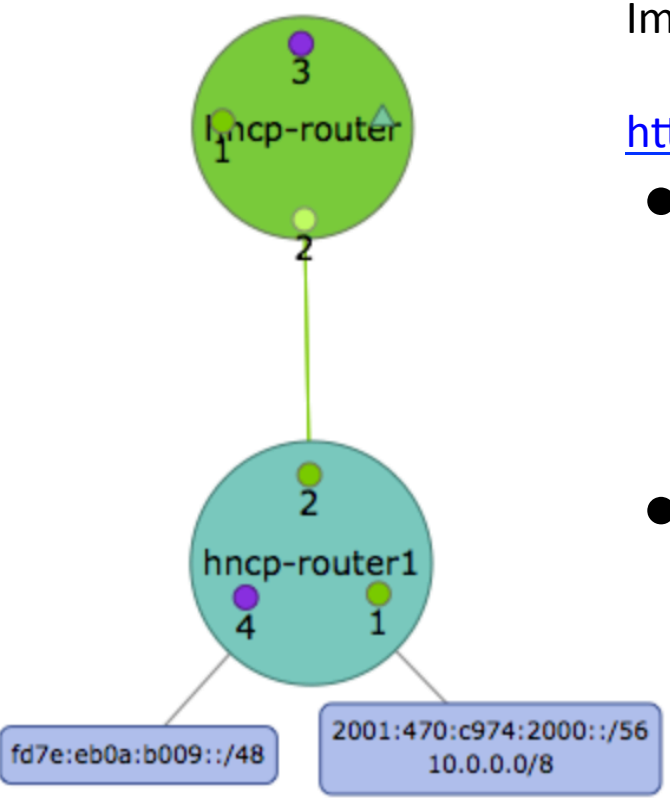
https://git.netdef.org/projects/OSR/repos/quagga-isis-srcdest/

During Hackathon:

- Integrated with current hnetd on OpenWRT
- Added more knobs & fix bugs

“Layer 3” Slicing + Auto-Wifi

Lead: Pierre Pfister (Cisco)
With: Mohammed Hawari, Mehdi Kouhen, Aloijs Augustin (Ecole Polytechnique)



Implemented on top of hnetd HNCP implementation in OpenWrt, (+904 LOC Today)
https://github.com/Oryon/hnetd/tree/hackathon

- L3-Slicing
  - Separate hosts by putting them in different slices.
  - Auto-create and synchronize ACLs via HNCP
  - Like having a group of hosts on a VLAN, but without a VLAN tag.
- Auto-Wifi
  - Synchronization of L3-Slice ID, L2-SSID and Password across all routers within the homenet