

Who Am I?

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Network Consultant

Program manager

Enthusiastic amateur

Regular contributor to Homenet from day 1

Recent Work (with others)

HNCP Evolution

Implemented HNA and DM for
draft-ietf-homenet-front-end-naming-delegation-08
re-uses existing mechanisms in a novel manner: “Informational” is
enough

Hacking HNCP

to learn how the current implementations really work
(+ reduce IPv6 UDP fragments)

Trying to identify what’s missing in HNCP for both our draft and
draft-ietf-homenet-simple-naming-03

What's Next?

Both drafts need more functions than currently available in Openwrt/HNCP
e.g. Dynamic DNS, secondary DNS servers, granular ACLs, automatic DNSSEC signing, master server selection

Do we try to keep all Homenet nodes equal (fully distributed) or do we encourage specialization for heavier services?

Using existing daemons like knot/radvd/unbound/kea on extroot take up ~25MB on the overlay partition.

Not big for a NAS or Raspberry Pi, but huge for typical existing wifi router. Bloat?

How to extend HNCP?

New TLV specific to each function for each draft?

New HNCP (standards track) draft e.g. that embeds a SRV RR into a TLV to elect a master + secondaries and bootstraps a service?