

Homenet and DNSSD

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Why should you care about Homenet

- Homenet is actually the most basic use case for DNSSD
- Homenet isn't really just for home networks
- Homenet needs solutions to the most interesting problems relating to DNSSD
- WG management has completely changed
- We'd like to get some good work done
- We need your help

What does Homenet have to do with DNSSD?

- Homenet is an example of the exact problem DNSSD has set out to solve
- Homenet is a little different than the campus environment that originally triggered formation of DNSSD wg:
 - Not professionally managed
 - Doesn't have a global domain name
 - No mapping between physical and network topology
 - Establishing trust is ... interesting...
 - Some routers may be limited

What we are doing

- Split out Discovery Proxy (hybrid proxy) into two parts:
 - Discovery Proxy (same name)
 - Discovery Relay (lightweight, low impact)
- Provide Tofu-based name claiming protocol (dnssd service registration protocol)
- Automate management/configuration of Discovery Proxy and Discovery Relays
- Automate trust establishment to the extent possible (this is tangential but relevant)

What I'd like us to also do

- A real naming solution for homenet that can fit into the global DNS hierarchy
 - which gives us ACME
- DNSSEC
 - Which gives us a chain of trust
- Stateful DNSSD on the homenet (an authoritative server)
- Etc.

Help we could use

- Stuart and I need help advancing the work homenet has motivated us to do in dnssd
- But also:
 - The working group management focus has changed
 - A lot of people who are interested in the problem aren't showing up anymore
 - I think a lot of those people are still in dnssd
 - A lot of people who really *get* what dnssd does are not participating
 - Can you check out what we are doing and see if you are interested?
 - Please see my presentations to the working group if you weren't there
 - If you think what we are doing is wrong-headed, that's also useful information