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