DNSSD Discovery Relay

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What is it?

- A simple, lightweight relay that can be added to any router, like a DHCP relay

- Acts as a virtual interface for off-link Discovery Proxies

- Applicability

  - Simple Homenet Naming triggered the idea, but…

  - Actually much more applicable to larger networks

  - Anywhere a DHCP relay agent made sense

Benefits

- Configuration of relay is relatively simple
- Lightweight to implement on routers and smart switches
- Once you have it, you shouldn't need to update it to add features
- Allows you to have a small number of central Discovery Proxies, rather than one on each router
- Provides a way for authorized users to monitor and debug service discovery on local links

Status

- Document is largely complete
- Management section
  - Drastically simplified
  - Still conveys the necessary information
- Relies on DNS Stateful Operations, which is post-WGLC
- Implementations:
  - Partial implementation of relay at Singapore Hackathon helped to tease out some issues where the document wasn't clear
  - Second implementation of relay was started at London Hackathon; fewer and more minor issues found
  - Discovery Proxy implementation was started at London Hackathon
- WBN to get some WG review

Next Steps

- We (authors) request adoption of this document
- We would appreciate review/comment/implementation
- We will be at Montreal hackathon with working code to test
- I will be doing some integration work on this in OpenWRT prior to Montreal
- Would be nice to get some router vendors who are interested in using this