

DNS-SD Architecture

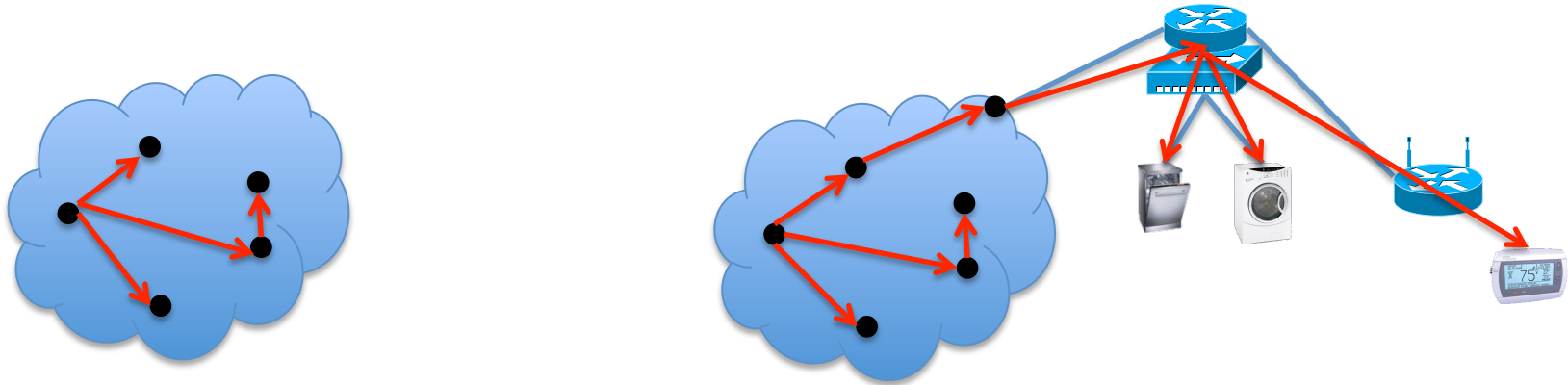
Ralph Droms

Two Scenarios

- Mesh network flooding, as assumed in Smart Energy Profile 2.0 (SEP2.0)
- Scalable DNS-SD

Multicast Flooding

- DNS-SD over mDNS spanning:
 - Multi-link subnet radio mesh
 - Collection of small number of subnets



DNS-SD over Unicast DNS

- DNS-SD (RFC 6763) is compatible with unicast DNS (examples roughly from draft-cheshire-dnssd-hybrid-00)
- Service is represented in DNS namespace:
 - `_service._transport.example.com`
 - `_service._transport.rtr1.example.com`
 - “instance”. `_service._transport.rtr1.example.com`

DNS-SD over Unicast DNS (2)

- DNS-SD browser is configured with list of domains to search in
 - DHCP
 - Reserved DNS names (RFC 6763, section 11)
- Legacy services only implement DNS-SD/mDNS

Any Other Considerations?