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?