Providing DNSSD Service on Infrastructure

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Introduction

- Why use this solution?
- Definition of the full DNS-SD service
- How the service can be discovered and used

Why use this solution?

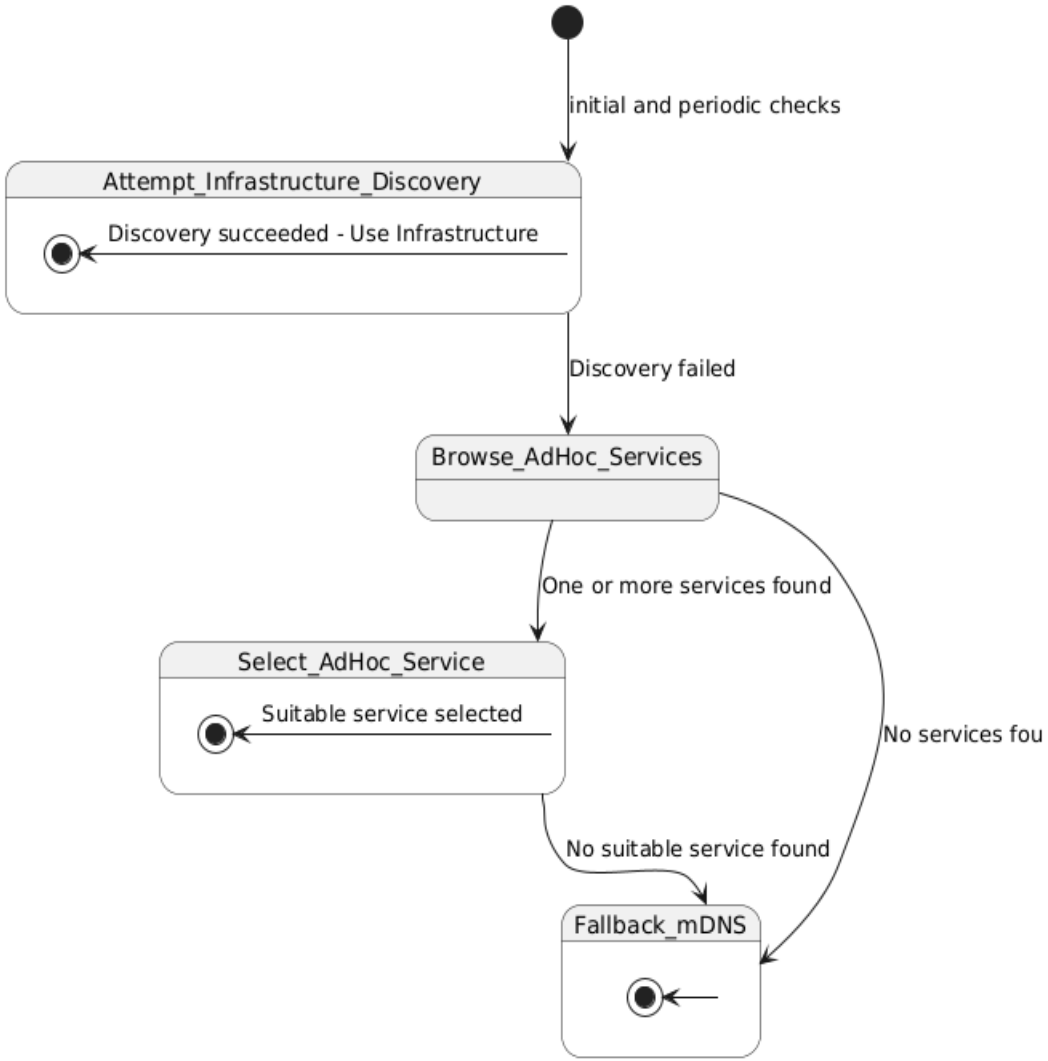
- Reduces the impact of mDNS on the network
  - Improves reliability for Wi-Fi devices
  - Improves battery performance
  - Reduces congestion induced my multicast
- Enhances SNAC router usability by making its services available to devices on infrastructure
- Enables SNAC routers to offload all service discovery to infrastructure
- Enables service discovery on non-adjacent links

Definition of the full DNS-SD service

- The DNS zone in which DNSSD information will be stored
- The SRP service - used to add and update services in the DNS zone
- The Advertising Proxy - advertises the contents of the zone using mDNS on the infrastructure link
- The Discovery Proxy - enables discovery of local services that are advertised using mDNS using the unicast DNS protocol

How is the service advertised?

- Infrastructure and SNAC router advertises using a router advertisement option
  - Preference is to use the infrastructure services
  - Differentiate infrastructure from non-infrastructure using the router lifetime
- Non-Router device advertise using mDNS for users to discover the services

* We don’t use the SRP specific advertisement

Finding and using the service