NETWORK DISCOVERY WITH SWIFT

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DNS-SD and mDNS
DNS-SD

DNS Service Discovery is a way of using standard DNS programming interfaces, servers, and packet formats to browse the network for services.

DNS Service Discovery is compatible with, but not dependent on, Multicast DNS.

http://www.dns-sd.org/
DNS-SD

_googlecast._tcp
_airplay._tcp
_spotify-connect._tcp
Multicast DNS is a way of using familiar DNS programming interfaces, packet formats and operating semantics, in a small network where no conventional DNS server has been installed.
Who is macbook.local?
macbook.local's IP is 192.168.0.20
any googlecast here?

macbook.local
- _plexmediasvr._tcp.local
- _spotify-connect._tcp.local

printer.local
- _ipp._tcp.local

television.local
- _googlecast._tcp.local
- _airplay._tcp.local
- _spotify-connect._tcp.local

macbook.local
- _plexmediasvr._tcp.local
- _spotify-connect._tcp.local
television.local
  • _googlecast._tcp.local
  • _airplay._tcp.local
  • _spotify-connect_.tcp.local

@television.local

yep

printer.local
  • _ipp._tcp.local

macbook.local
  • _plexmediasvr._tcp.local
  • _spotify-connect._tcp.local

yep

@television.local
Bonjour

Combines mDNS and DNS-SD to provide zero configuration networking.

Also works over P2P bluetooth and WiFi
Bonjour Support

iOS
macOS
watchOS
tvOS
FRAMEWORKS
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HOW TO START

Foundation.framework

NetService

NetServiceBrowser

Network.framework

NWBrowser

NWListener

NWConnection
THAT’S IT

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QUESTIONS