

HotRFC IETF 105 Montréal July 2019

DNS-Based Service Discovery Proxy

Stuart Cheshire, Apple

DNS-Based Service Discovery

iOS

macOS

watchOS

tvOS



Local Service Discovery Using Multicast

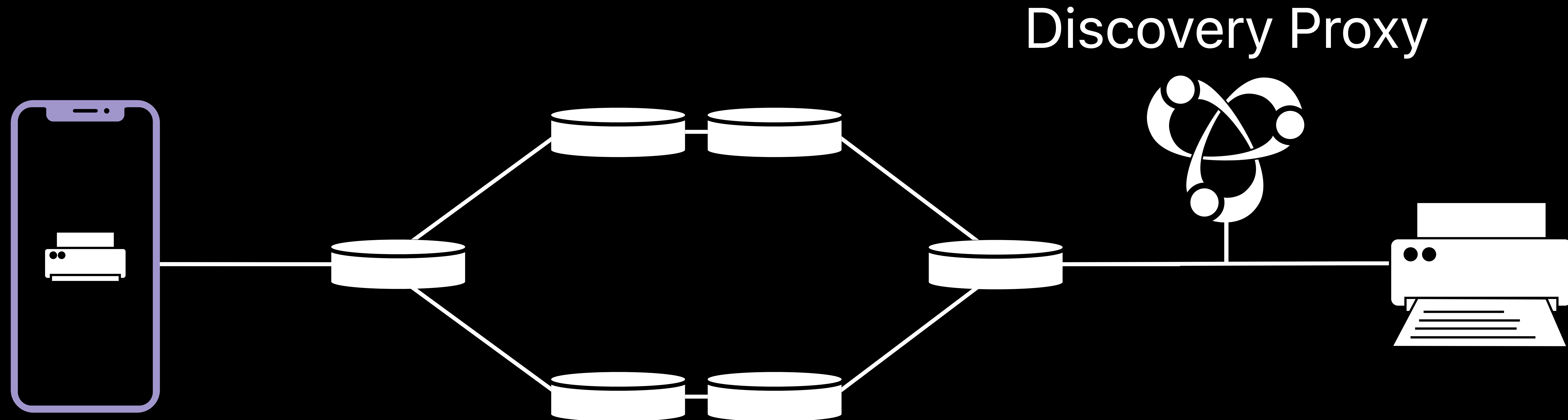
+ Requires no Infrastructure

Just direct Ethernet cable, no Ethernet switch

Just direct peer-to-peer Wi-Fi, no Wi-Fi access point

- Inefficient (impacts every member of the multicast group)
- Slow (low Wi-Fi multicast data rates, high Wi-Fi DTIM latency)
- Wasteful (consumes lots of shared Wi-Fi airtime for very little data)
- Unreliable (no acknowledgement and retransmission for Wi-Fi multicast)

Wide-Area Service Discovery Using Unicast



<https://www.ietf.org/mailman/listinfo/dnssd>

<https://github.com/IETF-Hackathon/mDNSResponder>

Hackdemo Happy Hour 18:10-19:40 Monday (Parc Mont-Royal)

DNSSD Working Group Meeting 13:30-15:30 Thursday (Duluth)