DNS DISCOVERY RELAY

Ted Lemon <mellon@fugue.com>
Stuart Cheshire <cheshire@apple.com>
STATUS

- Document was adopted early in 2018
- Finally submitted a -00 in May
- I've done an implementation using Apple's open source mDNSResponder as a basis
- Lots of details updated as a result of implementation
- Implementation also turned up some useful insights about the DSO document
- Have been able to browse my printer at home in Vermont while traveling
- Document is pretty solid at this point
- And it's in last call
BIG CHANGES

➤ Previously link status configuration was out-of-band
➤ This actually really sucked when I implemented it
➤ So we added in-band signaling for links
➤ Subscribe to link notifications
➤ Link added
➤ Link went away
➤ Unsubscribe from link notifications
LESS BIG CHANGES

➤ Example provisioning vocabulary clarified and updated
➤ Terminology consistency and clarification
➤ Security considerations update to talk about crypto algorithm lifetimes and crypto protocol lifetimes
➤ Took out Layer 2 source address reporting for mDNS messages from the relay to the proxy
STATUS OF IMPLEMENTATION

➤ TLS implementation not done

➤ Everything else is working (I think!)

➤ We only have one implementation—would be nice to have a second

➤ Current implementation is just mDNSResponder, and is not a Discovery Proxy

➤ Releasing code is a slow process, but we're working on it. Will definitely be open source (Apache)

➤ If you want to interop, please talk to me
NEXT STEPS

➤ Please review document while it's in last call

➤ We are going to try to get the Discovery Proxy code working in the very short term (and I think this is doable)

➤ TLS code will follow