Overview

• Roles and relationships in a DOTS architecture
• Architecture scope
• Preconditions for signaling
• Establishing and maintaining signaling sessions
• Modes of signaling
Basic Architecture

- Mitigator
- Attack Target
- DOTS server
- DOTS client
Establishing Signaling Sessions

• Client connects to server over signal channel and data channel
• WG feedback requested on value of DOTS service discovery
  – DNS SRV, DNS-SD
Direct signaling

• Simplest form, no relays in path
Relayed signaling

• Signal bridging and aggregation
Relayed Signaling Issues

• Operational complexity
• End-to-end signaling with relay in path
• Client awareness of relayed signaling?
• Privacy considerations
• Feedback needed
DOTS agent relationships

- Multiple DOTS clients for one DOTS server
- Multi-homed DOTS client
Multi-homed DOTS client

• Coordinating multiple provider responses to a mitigation request?
• Feedback needed on M:N cases in general
Additional signaling modes

- Redirected signaling
- Recursive signaling
- Feedback needed
Next Steps

• Discussion of mitigation request triggers
• Discussion of privacy concerns
• Incorporate WG feedback
Thank you
Appendix A: DOTS relay diagrams
Client-side aggregating relay

DOTS client

TCP

DOTS client

TCP

TCP

DOTS relay

UDP

DOTS server

Client domain

Server domain
Client-side bridging relay
Appendix B: Signaling mode diagrams
Redirected signaling

DOTS client  ---  DOTS server A

DOTS server B
Redirected signaling

DOTS client

Redirect to B

DOTS server A

DOTS server B
Redirected signaling

DOTS client

DOTS server B

DOTS server A
Recursive signaling

DOTS client

DOTS server A

Mitigator

DOTS server B

Mitigator

DOTS client