

draft-ietf-dots-architecture-00

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Changes since draft-mortensen-dots-architecture-00

- Document reorganization
- Mitigation request triggers
- Replace DOTS relay with DOTS gateway
- Relayed signaling eliminated
- Clarify use of identifiers to scope mitigation

Document Reorganization

- Rearranged sections for fewer forward references
- Concepts incorporated into Architecture section

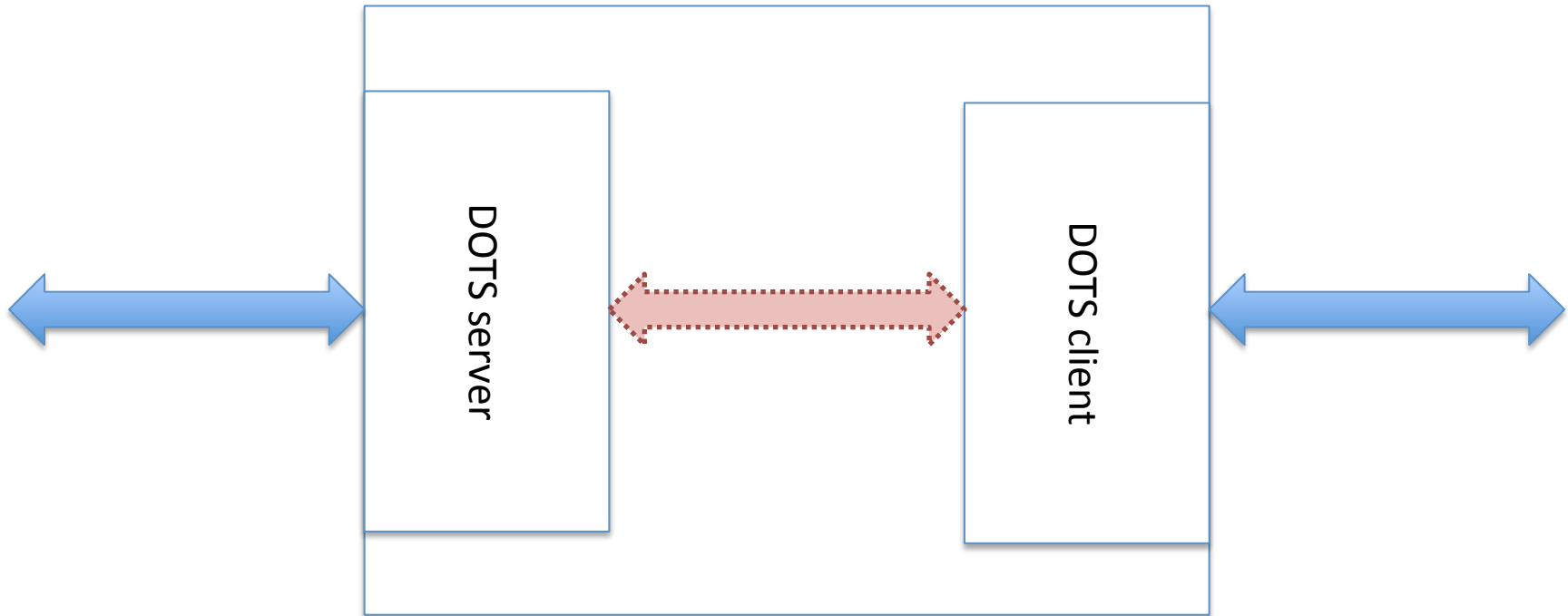
Mitigation Request Triggers

- Conditions/motivations for mitigation requests
- Manual
- Threshold-based
- Peer lost
- Not comprehensive, suggestions/criticism welcome

DOTS Gateway

- Logically concatenated DOTS server and client
- Analogous to SIP B2BUA
- No discussion of interface between B2B DOTS server and client
- Replaces DOTS relay
- A function, not a distinct DOTS agent type

DOTS Gateway



Elimination of Relayed Signaling

- All DOTS client/server signaling is bilateral
- Signaling is hop-by-hop, use of gateway is opaque to DOTS clients
- DOTS gateway use is deployment-specific

Problem areas

- Back-to-back DOTS server/client interface
- Multi-homed DOTS clients
- Server discovery
- Redirected signaling
- Recursive signaling
- Authentication and authorization

Open Issues – Server Discovery

- Direct configuration
- DNS SRV?
- DNS TXT
- DNS-SD?
- TBD?

Open Issues — Multi-homed DOTS client

- Mitigation request from client to multiple DOTS servers
 - Serially
 - In parallel
- How to coordinate server response?

Open Issues — Redirected Signaling

- Currently not in use cases draft
- Design teams seem to agree on value
- Distinction from recursive signaling?
- WG consensus on need to retain this mode?

Open Issues — Recursive Signaling

- Aggregate/propagate/bridge downstream DOTS client request
- Depends on DOTS gateway
- DOTS client visibility into recursive signaling?
- Privacy concerns?

MAAWG discussion

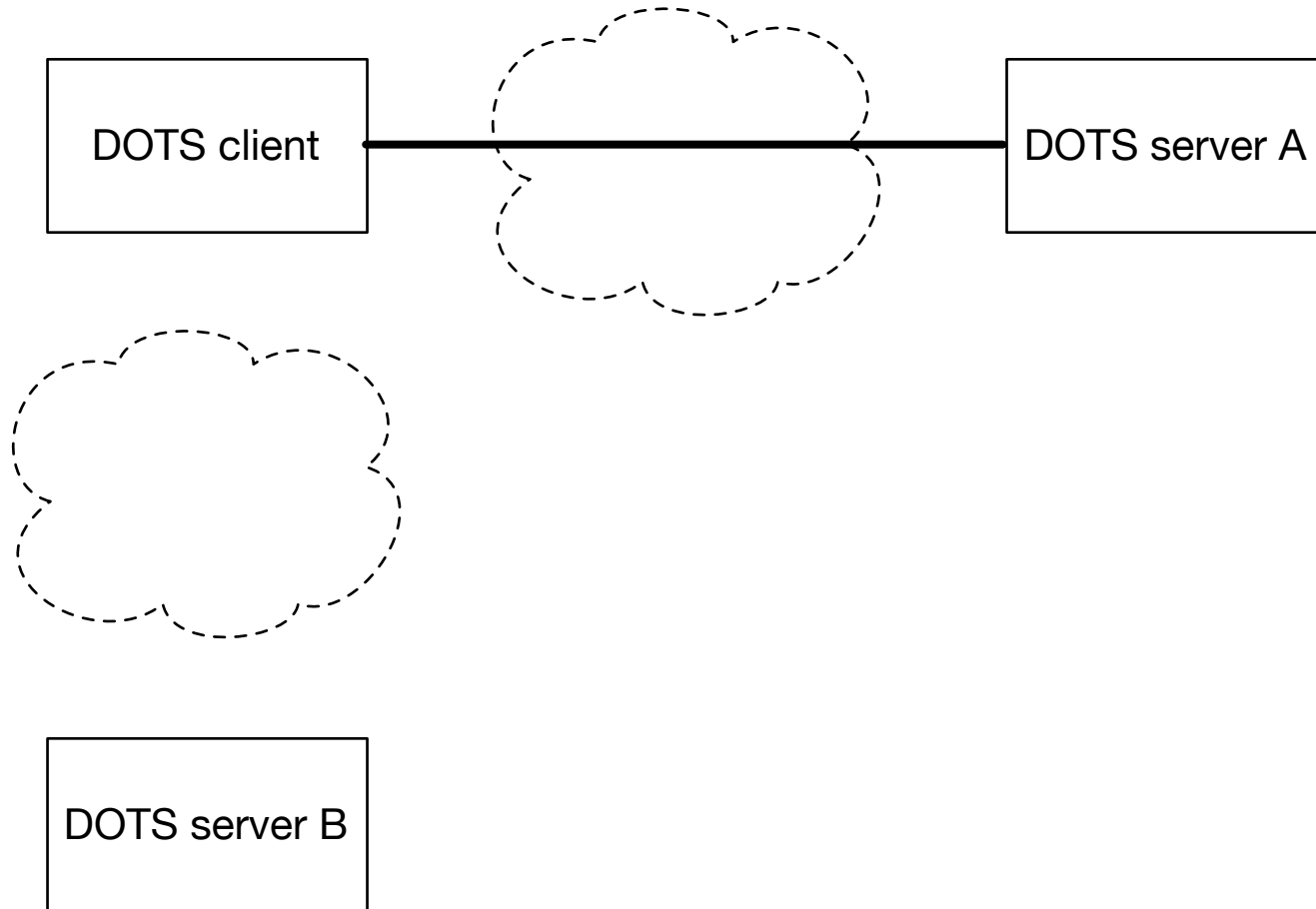
- DOTS presented at MAAWG DDoS SIG meeting in Philadelphia
- Primary concern from attendees: authorization and authentication

Thank you

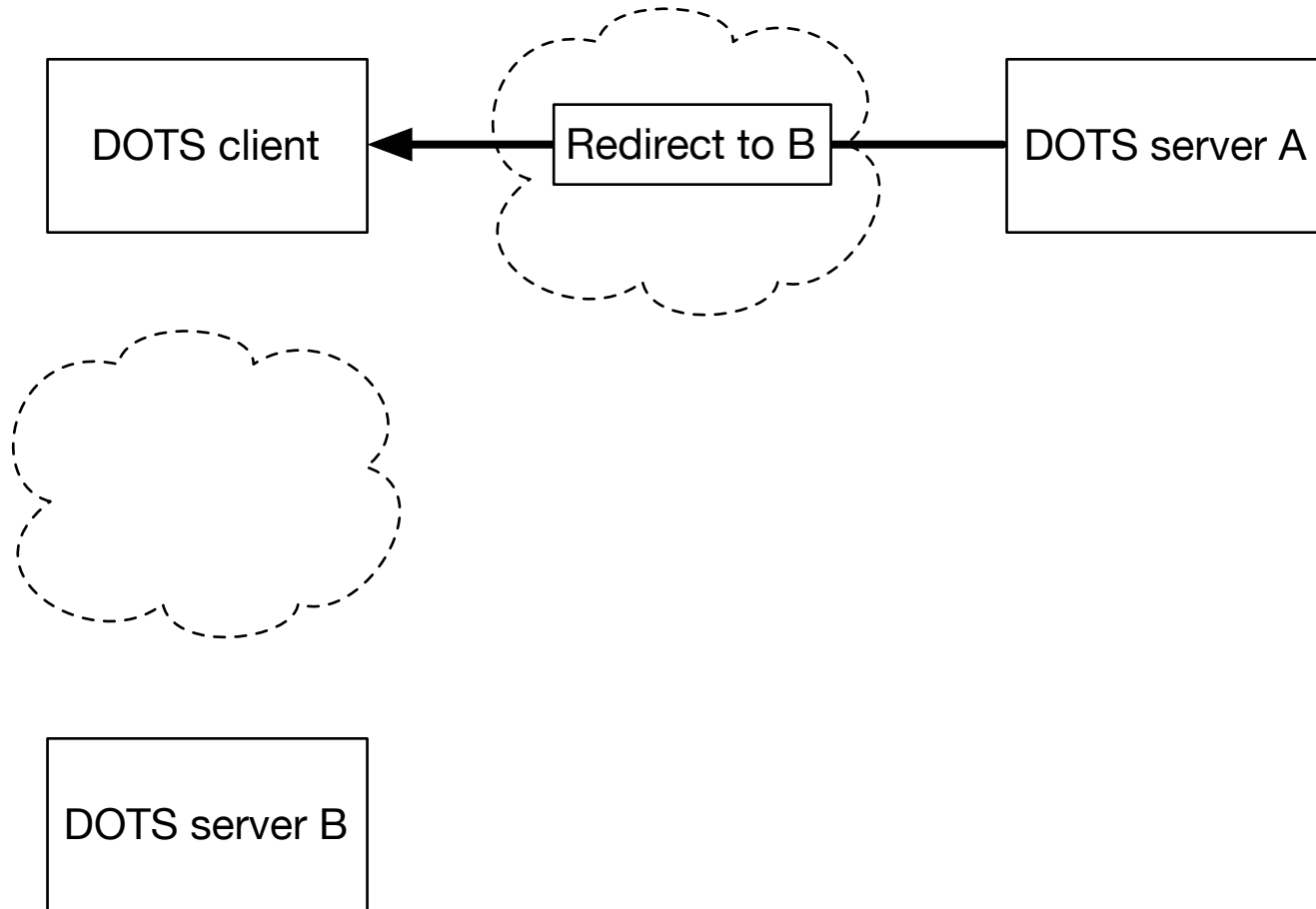
<https://github.com/dotswg/dots-architecture>

Appendix: Redirected signaling

Redirected signaling



Redirected signaling



Redirected signaling

