

unique dots usecases

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Purpose of this document

- enumerate unique usecases
- so as to merge usecases in individual drafts with the WG draft

collected from

- draft-ietf-dots-use-cases-01
 - <https://www.ietf.org/proceedings/94/slides/slides-94-dots-2.pdf>
- draft-nishizuka-dots-inter-domain-usecases-01
- draft-nishizuka-dots-inter-domain-mechanism-01
- draft-mortensen-dots-architecture-00

please see

- whether they are identical
- whether they are covering usecases in DOTS scope

next step

- these usecases will be included in the WG draft

7 Unique Usecases

1. Intra-domain Usecase

- A DOTS client and a DOTS server are in the same domain

2. Primary Inter-domain Usecase

- A DOTS client and a DOTS server are in different domains

appeared in:

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- draft-nishizuka-dots-inter-domain-usecases-01

DOTS client variations:

- mitigator
- network element
- attack detector

- service application
- web portal
- mobile devices

3. Primary Inter-domain Usecase with DOTS Relay

- A DOTS client and a DOTS server are in different domains
- A DOTS relay is in the DOTS server's domain
- The DOTS relay is a back-to-back DOTS server and client

appeared in:

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- <https://www.ietf.org/proceedings/94/slides/slides-94-dots-2.pdf>
- draft-mortensen-dots-architecture-00

modes of signaling:

- Relayed Signaling(Server-Side Relay)

4. Primary Inter-domain Usecase with multiple upstream DDoS mitigation providers

- A DOTS client and DOTS servers are in different domains
- The DOTS client ask for help to multiple DOTS servers

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- draft-nishizuka-dots-inter-domain-usecases-01

modes of signaling:

- Direct Signaling
- Redirected Signaling?

5. Inter-domain Usecase with bilateral coordination

- A DOTS client and DOTS servers are in different domains
- The DOTS servers are in different domains and have bilateral relationships
- The DOTS client ask for help to one of DOTS servers

appeared in:

- <https://www.ietf.org/proceedings/94/slides/slides-94-dots-2.pdf>
- draft-nishizuka-dots-inter-domain-usecases-01
- draft-nishizuka-dots-inter-domain-mechanism-01 (Distributed Architecture)

modes of signaling:

- Recursive Signaling

6. Inter-domain Usecase with multilateral coordination

- A DOTS client and DOTS servers are in different domains
- The DOTS servers are in different domains and have multilateral relationships via one orchestrator
- The DOTS client ask for help to one of DOTS servers

appeared in:

- draft-nishizuka-dots-inter-domain-usecases-01
- draft-nishizuka-dots-inter-domain-mechanism-01 (Centralized Architecture)

modes of signaling:

- Recursive Signaling

7. Inter-domain Usecase with Client-Side DOTS Relay

- A DOTS client and a DOTS server are in different domains
- A DOTS relay is in the DOTS client's domain
- The DOTS relay is a back-to-back DOTS server and client

appeared in:

- draft-mortensen-dots-architecture-00

modes of signaling:

- Relayed Signaling(Client-Side Relay)