DDoS Open Threat Signaling WG (DOTS)

IETF 95, Buenos Aires

Note Well

This summary is only meant to point you in the right direction, and doesn't have all the nuances.

The IETF's IPR Policy is set forth in **BCP 79**; please read it carefully.

The brief summary:

• **By participating with the IETF, you agree to follow IETF processes.**

• **If you are aware that a contribution of yours (something you write, say, or discuss in any IETF context) is covered by patents or patent applications, you need to disclose that fact.**

• **You understand that meetings might be recorded, broadcast, and publicly archived.**

For further information, talk to a WG chair, ask an Area Director, or review the following:
  • BCP 9 (on the Internet Standards Process)
  • BCP 25 (on the Working Group processes)
  • BCP 78 (on the IETF Trust)
  • BCP 79 (on Intellectual Property Rights in the IETF)

Administrative Tasks

- Blue sheets
- Jabber scribe

Agenda

1. Note well, logistics and introduction (chairs, 5 min)

2. Use Case Discussion (35 min)

- draft-ietf-dots-use-cases-01 (*Roland Dobbins*, 10 min)

- draft-nishizuka-dots-inter-domain-usecases-01 (*Kaname Nishizuka*, 10 min)

- Use cases of draft-nishizuka-dots-inter-domain-mechanism-00 (*Kaname Nishizuka*, 10 min)

- Additional use cases discussion (5 min)

3. Requirements Discussion (15 min)

- draft-ietf-dots-requirements-01 (*Andrew Mortensen*, 10 min)

- Additional requirements discussion (5 min)

4. Architecture Discussion (20 min)

- draft-mortensen-dots-architecture-00 (*Andrew Mortensen*, 15 min)

- Additional architecture discussion (5 min)

5. Protocol Drafts (40 min)

- draft-reddy-dots-transport-03 (*Dan Wing*, 10 min)

- Protocol of draft-nishizuka-dots-inter-domain-mechanism-00 (*Frank Xialiang*, 10 min)

- draft-moskowitz-dots-gre-00 (*Robert Moskowitz*, 10 min)

- Additional protocol discussion (5 min)

- Introducing session layer considerations (*Robert Moskowitz*, 5 min)

  - draft-moskowitz-dots-ssls-01

  - draft-hares-i2nsf-slss-00

6. Closing discussion and way ahead summary (chairs, 5 min)

Status

- ## 17 Use Cases
  - 10 in the draft-ietf-dots-use-cases-01
  - 7 in individual drafts

- ## Evolving requirements draft

- ## New individual architecture draft

- ## 5 protocol/data model individual drafts

Draft	Protocol	Data Model
draft-reddy-dots-transport-03	HTTP/JSON	Yes
draft-nishizuka-dots-inter-domain-mechanism-00	HTTP/JSON	Yes
draft-fu-dots-ipfix-extension-00	IPFIX	Yes
draft-moskowitz-dots-gre-00	GRE	No
draft-francois-ipv6-dots-signal-option-00	IPv6	No

IPv6 DOTS Signal Option
draft-francois-ipv6-dots-signal-option-00

Jérôme François (Inria), Abdelkader Lahmadi (Université de Lorraine), Giovane Moura (SIDN Labs), Marco Davids (SIDN Labs)

- Core idea:
  - Add an additional signalling channel
  - Rely on still exiting packets from under-attack DOTS clients to forward the signal until to reach a DOTS relay or server

- Use the IPv6 Hop-by-Hop options extension header
  - Include all attributes of the DOTS signal
  - Each capable router well re-embed such a signal into other exiting and selected IPv6 packets
  - Best effort to reach a DOTS relay or server

Milestones

- November 2016 (was March 2016) - **Requirements/use case** information document to WGLC

- March 2017 (was May and June 2016) - **Transport and data model documents** as proposed standard to WGLC

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Discussion