

DNSSD Working Group

DNS Push Notifications Document Update

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105th IETF, Montréal, July 2019

DNS Push Notifications

draft-ietf-dnssd-push-23

Draft-ietf-dnssd-push-19 was an update in response to WGLC feedback and implementation experience

2019-04-15 - 2019-05-06 Additional WGLC to review changes

2019-05-10 David Schinazi requested publication

2019-05-11 - 2019-06-17 IESG Review

2019-06-12 - 2019-07-05 IETF Last Call

Various updates in June and July

Current version is draft-ietf-dnssd-push-23

DNS Push Notifications draft-23

New text about clients falling back to polling

Section 6.8 “Client Fallback to Polling”

If DNS Push Notification subscription is unsuccessful, client should not poll using standard queries more frequently than once every fifteen minutes, unless record TTL is less than 15 minutes.

DNS Push Notifications draft-23

TLS early data

DSO messages with the SUBSCRIBE TLV as the Primary TLV are permitted in TLS early data, provided that the precautions described in Section 7.3 are followed.

DNS Push Notifications draft-23

TCP RST vs. TLS close_notify

Text in draft-ietf-dnssd-push-19

- fatal error ... receiver *MUST* immediately terminate the connection with a TCP RST (or equivalent for other protocols)

Robert Sparks, Gen-ART reviewer

- Since this is defined only for TLS/TCP, remove “(or equivalent for other protocols)”

David Schinazi (I think without full context)

- Send a TLS close_notify, not a TCP RST

Long discussion thread on this

DNS Push Notifications draft-23

TCP RST vs. TLS close_notify

TCP RST only used for extreme and unrecoverable implementation errors

This is consistent with RFC 8490, DNS Stateful Operations

12 cases in the draft

7 are bogus messages from server to client

5 are bogus messages from client to server

- SUBSCRIBE/UNSUBSCRIBE/RECONFIRM response (instead of request)
- PUSH message
- Duplicate SUBSCRIBE message

Propose to leave document specifying TCP RST for gross implementation errors

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