

Network Working Group
Internet-Draft
Updates: RFC 8499 (if approved)
Intended status: Standards Track
Expires: January 26, 2020

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July 25, 2019

Terminology for DNS Transports and Location
draft-hoffman-dns-terminology-ter-02

Abstract

This document adds terms and abbreviations to "DNS Terminology" (RFC 8499) that relate to DNS running over various transports, as well as terms and abbreviations for DNS resolution at traditional and non-traditional locations.

[[This is an early attempt at these terms. They will probably be improved over time.]]

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1. New Terms and Abbreviations

The following terms and abbreviations are added to Section 6 of [RFC8499].

DNS-over-TLS (DoT): DNS over TLS as defined in [RFC7858] and its successors.

DNS-over-HTTPS (DoH): DNS over HTTPS as defined in [RFC8484] and its successors.

Classic DNS: DNS over UDP or TCP as defined in [RFC1035] and its successors. "Classic DNS" applies to DNS communication between stub resolvers and recursive resolvers, and between recursive resolvers and authoritative servers.

Recursive DoT (RDoT): RDoT specifically means DNS-over-TLS for transport between stub resolvers and recursive resolvers. This term is necessary because it is expected that DNS-over-TLS will later be defined as a transport between recursive resolvers and authoritative servers,

Authoritative DoT (ADoT): If DNS-over-TLS is later defined as the transport between recursive resolvers and authoritative servers, ADoT specifically means DNS-over-TLS for transport between recursive resolvers and authoritative servers.

2. Normative References

[RFC1035] Mockapetris, P., "Domain names - implementation and specification", STD 13, RFC 1035, DOI 10.17487/RFC1035, November 1987, <<https://www.rfc-editor.org/info/rfc1035>>.

[RFC7858] Hu, Z., Zhu, L., Heidemann, J., Mankin, A., Wessels, D., and P. Hoffman, "Specification for DNS over Transport Layer Security (TLS)", RFC 7858, DOI 10.17487/RFC7858, May 2016, <<https://www.rfc-editor.org/info/rfc7858>>.

- [RFC8484] Hoffman, P. and P. McManus, "DNS Queries over HTTPS (DoH)", RFC 8484, DOI 10.17487/RFC8484, October 2018, <<https://www.rfc-editor.org/info/rfc8484>>.
- [RFC8499] Hoffman, P., Sullivan, A., and K. Fujiwara, "DNS Terminology", BCP 219, RFC 8499, DOI 10.17487/RFC8499, January 2019, <<https://www.rfc-editor.org/info/rfc8499>>.

Acknowledgments

Sara Dickinson contributed ideas before the first draft was published. Warren Kumari contributed the idea for "Applications Doing DNS" as a term. Many people contributed the idea that it is better to define terms rather than just acronyms.

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