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Abbreviations for DNS Transports and Location
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Abstract

This document adds abbreviations to "DNS Terminology" (RFC 8499) that relate to DNS running over various transports, as well as 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 Abbreviations

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

Do53: DNS over UDP or TCP as defined in [RFC1035] and its successors. Do53 applies to DNS communication between stub resolvers and recursive resolvers, and between recursive resolvers and authoritative servers.

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

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

RDoT: RDoT specifically means DoT 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, The "R" in RDoT stands for "recursive", the endpoint.

ADoT: If DoT is later defined as the transport between recursive resolvers and authoritative servers, ADoT specifically means DoT for transport between recursive resolvers and authoritative servers. The "A" in ADoT stands for "authoritative", the endpoint.

DaT: DNS resolution between a stub resolver and the recursive resolver at the the traditional location configured in the operating system. The "T" stands for "traditional". DaT is typically configured by DHCP, IPv6 router advertisements, or an administrator editing a configuration file on a host. If [I-D.ietf-doh-resolver-associated-doh] becomes standardized, DoH to the DoH server associated with the traditional resolver would also be considered DaT.

DaO: DNS resolution between a stub resolver and a recursive resolver at other than the traditional location configured in the operating system. DaO can be configured by a user changing the configuration on a host (such as editing /etc/resolv.conf), or an application

running RDoT or DoH to a resolver that is not the same as the traditional location configured in the operating system,

2. Normative References

[I-D.ietf-doh-resolver-associated-doh]
Hoffman, P., "Associating a DoH Server with a Resolver", draft-ietf-doh-resolver-associated-doh-02 (work in progress), March 2019.

[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>.

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