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Terminology for DNS Transports and Location
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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>>.

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[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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