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## **Terminology for DNS Transports and Location draft-ietf-dnsop-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.

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## Table of Contents

<a href="#">1.</a>	New Terms and Abbreviations . . . . .	<a href="#">2</a>
<a href="#">2.</a>	Normative References . . . . .	<a href="#">2</a>
	Acknowledgments . . . . .	<a href="#">3</a>
	Author's Address . . . . .	<a href="#">3</a>

## [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.

DNS-over-QUIC (DoQ): DNS over QUIC as defined in [\[I-D.ietf-dprive-dnsoquic\]](#)

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. This has sometimes been called "Do53". Classic DNS is not encrypted.

Recursive DoT (RDoT): RDoT specifically means DNS-over-TLS for transport between a stub resolver and a recursive resolver, or between a recursive resolver and another recursive resolver. 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 a transport between recursive resolvers and authoritative servers, ADoT specifically means DNS-over-TLS for transport between recursive resolvers and authoritative servers.

## [2.](#) Normative References

[\[I-D.ietf-dprive-dnsoquic\]](#)

Huitema, C., Mankin, A., and S. Dickinson, "Specification of DNS over Dedicated QUIC Connections", [draft-ietf-dprive-dnsoquic-00](#) (work in progress), April 2020.



- [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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