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Title: Time To Live (TTL) Processing in Multi-Protocol Label Switching (MPLS) Networks  
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Status: Standards Track  
Date: January 2003  
Mailbox: puneet@acm.org, bora@cisco.com  
Pages: 10  
Characters: 18749  
Updates: 3032

I-D Tag: [draft-ietf-mpls-ttl-04.txt](#)

URL: <ftp://ftp.rfc-editor.org/in-notes/rfc3443.txt>

This document describes Time To Live (TTL) processing in hierarchical Multi-Protocol Label Switching (MPLS) networks and is motivated by the need to formalize a TTL-transparent mode of operation for an MPLS label-switched path. It updates [RFC 3032](#), "MPLS Label Stack Encoding". TTL processing in both Pipe and Uniform Model hierarchical tunnels are specified with examples for both "push" and "pop" cases. The document also complements [RFC 3270](#), "MPLS Support of Differentiated Services" and ties together the terminology introduced in that document with TTL processing in hierarchical MPLS networks.

This document is a product of the Multiprotocol Label Switching Working Group of the IETF.

This is now a Proposed Standard Protocol.

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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