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Title: RSVP-TE: Extensions to RSVP for LSP Tunnels

Author(s): D. Awduche, L. Berger, D. Gan, T. Li,
V. Srinivasan, G. Swallow

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Mailbox: awduche@movaz.com, lberger@movaz.com,
dhg@juniper.net, tli@procket.com,
vsriniva@cosinecom.com, swallow@cisco.com

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This document describes the use of RSVP (Resource Reservation Protocol), including all the necessary extensions, to establish label-switched paths (LSPs) in MPLS (Multi-Protocol Label Switching). Since the flow along an LSP is completely identified by the label applied at the ingress node of the path, these paths may be treated as tunnels. A key application of LSP tunnels is traffic engineering with MPLS as specified in [RFC 2702](#).

We propose several additional objects that extend RSVP, allowing the establishment of explicitly routed label switched paths using RSVP as a signaling protocol. The result is the instantiation of label-switched tunnels which can be automatically routed away from network failures, congestion, and bottlenecks.

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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