

Management Information Base for MPLS LDP Multi Topology

draft-li-mpls-ldp-mt-mib-04

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Motivaton

- LDP extensions for Multi Topology routing has been defined in draft-ietf-mpls-ldp-multi-topology-08
- This draft adds Multiple Topology attributes based on RFC3815 (MPLS LDP MIB definition)
 - Companion draft of draft-ietf-mpls-ldp-multi-topology-08

Structure Overview

- MPLS LDP MT Entity Table
- MPLS LDP MT Entity Statistics Table
- MPLS LDP MT Session Table
- MPLS LDP MT In-segment Table
- MPLS LDP MT Out-segment Table
- MPLS LDP MT LSP Table
- MPLS LDP MT Notifications

Configuration MIBs

- MPLS LDP MT Entity table
 - Extension to mplsLdpEntityTable defined in RFC3815, to enable/disable MT function
- MPLS LDP MT Session table
 - Defines the MT value of an LDP session
- MPLS LDP MT LSP table
 - Defines LIB label switching entries associated with the specified FEC of the specified topology
- MPLS LDP MT In-segment Table
 - Contains information about the MPLS LDP MT In-Segments which exist on LSR or LER
- MPLS LDP MT Out-segment Tables ::
 - Contains information about the MPLS LDP MT Out-Segments which exist on LSR or LER

Statistics and Fault Management MIBs

- MPLS LDP MT LSP Statistics Table
 - Provides MT performance information on a per-interface basis; shows the number of packets passing through a specific MT LSP
- MPLS LDP MT Notifications
 - Generated when there is a change in the MT Session State, e.g. MT session up/MT session down

Changes in -04 Version

- New attribute added in mplsLdpMtLspEntry in MPLS LDP MT LSP table
 - mplsLdpMtLspEntry ::= SEQUENCE {

mplsLdpMtLspIndex	IndexInteger,
mplsLdpMtLspFecAddr	InetAddress,
...	
mplsLdpMtLspOperStatus	RowStatus
<i>mplsLdpMtLspService</i>	<i>QoSService</i> }
 - mplsLdpMtLspService OBJECT-TYPE
 - SYNTAX QoSService
 - MAX-ACCESS read-only
 - STATUS current
 - DESCRIPTION
 - "The QoS Service classification index for multiple topology LSP."
- ::= { mplsLdpMtLspEntry 9 }

Next Steps

- Invite comments
- Request for WG adoption

Thanks!