

MPLS LSP Ping Yang Model

draft-zheng-mpls-lsp-ping-yang-cfg

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Motivation

- Defines the data model for LSP-Ping configuration and management
- YANG represents a very popular choice for configuration and management

What 's addressed in rev-00

- Defines Yang data model based on RFC 4379
- Ping MIB RFC 4560 is referenced for parameter definitions
- Defines control information, schedule parameter and result information

What is not addressed in rev-00

- LSP ping extensions and updates
- LSP Ping over P2MP MPLS LSPs
- Traceroute over MPLS tunnels
- ...

Control Information

- Defines the configuration true parameters to control an LSP-Ping test
- Support most of the target address types defined in RFC 4379
- Support Reply mode defined in RFC 4379
- Parameters like timeOut, frequency, probeCount, dataSize and dataFill

Schedule Parameters

- Defines the test schedule parameters of a LSP-Ping test, when to start & when to stop
- Four start modes : start right now, start at a certain time, delay start of several seconds, and start at a certain time daily;
- Three stop modes: stop right now, stop at a certain time, and delay stop of several seconds;

Result Information

- Shows the result of the current LSP-Ping test.
- Ping MIB RFC 4560 is referenced for parameter definitions
- rtt : the time from sending the packet to receiving the packet, which describe the congestion of the network tested.
- probeResponses: the number of responses received for the corresponding LSP ping test

Next Steps

- Get comments on rev-00 and seek contributions and collaborations
- Add LSP-Ping extensions and updates
- Consider support of long running command with NETCONF
- Consider relationship with other MPLS OAM Yang Model
- Eventual MPLS WG adoption