Signaling Base MPLS Inspection MSD

draft-liu-lsr-mpls-inspection-msd

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Backgroud and Motivation

[draft-ietf-mpls-mna-fwk]: A node that pushes a NAS onto the label stack is responsible for determining that all nodes that should process the NAS will have the NAS within its readable label depth.

Maximum SID Depth (MSD):

- the maximum number of SIDs (SR)
- the maximum label depth (non-SR)

This document defines a new type of MSD and the mechanism to signal this MSD using IGP and BGP-LS.

Base MPLS Inspection MSD

Definition

- the maximum number of labels a router can read in an MPLS packet received on its incoming interface(s) (starting from the top of the stack)

Usage

- used to determine the position of the NAS, and whether it's necessary to insert multiple NAS at different positions in the label stack

- network action-specified MSD like ERLD-MSD MAY NOT needed further: network action capability+ Base Inspection MSD= be able to process the network action within the MSD

Protocol Extension

- a new IGP-MSD Type

- can be advertised via BGP-LS

Next Steps

- Request feedback and comments

Thank You !