

draft-rkhd-mpls-tp-sd-03

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Background

- This draft provides guidelines for signal degrade fault condition detection
 - SD is a trigger for transport path (LSP, PW) protection
 - SD detection from server/sub-layer MEP
- Proposes using MPLS-TP OAM message to indicate SD condition detection

Updates (1)

- Change intended status to informational
- Changed LSP references to “transport path”
- Added text to explain that common purpose of the SD detection guidelines is that SD should reflect physical error conditions (e.g. low rx power, dispersion, bad connections), rather than non-physical error conditions (e.g. congestion, CPU overload)

Updates (2)

- New SD detection guidelines
 - Signal degrade conditions **MUST** be monitored by the lowest server layer or sub-layer that is not terminated between monitoring points
 - Method for determining signal degrade **SHOULD** allow to localize links that contribute to signal degrade
 - Method for determining signal degrade **MUST** be able to exit signal degrade condition when error rate returns to normal condition
 - Method for determining signal degrade condition **MUST** be scalable
- Minor changes to other SD detection guidelines

Updates (3)

- Consider a scenario where the lower-layer BER in each link traversed by the transport path is below the SD threshold, but the accumulated BER is above the threshold
 - Relevant for lower-layer technologies where errored information is discarded (e.g. Ethernet)
- To support SD detection in these scenarios, nodes detecting high error rate MAY optionally include measured BER in link degradation fault messages
- Transport path client MEP declares SD based on the sum of received BER values

Updates (4)

- Recommend using encapsulation and mechanism defined in draft-ietf-mpls-tp-fault to send link degradation fault indication when SD is detected

Next Steps

- Incorporate input into next draft
- Define format and encapsulation of link degradation fault indication, based on draft-ietf-mpls-tp-fault
- Request working group adoption

Thank You

Questions ? Comments ?