Update on RMR

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(on behalf of many people)
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RMR drafts in the system

draft-ietf-mpls-rmr-08
Resilient MPLS Rings
Is in MPLS WG, should remain in MPLS; with one minor tweak, ready for WGLC — want to add SPRING as a valid "signaling" protocol

LDP Extensions for RMR
draft-ietf-mpls-ldp-rmr-extensions-01
Is in MPLS WG, should remain in MPLS; ongoing work (responding to comments from the MPLS list)

LDP - Idea in Brief

➤ Each node acting as egress signals two counter-rotating LSPs

➤ Every transit ring node signals this LSP further in same direction

➤ After the signaling is complete, every node in a ring should have two counter rotating LSPs

   ➤ One in clockwise and other in anti-clockwise direction

➤ Each node can send traffic to a specific node on the ring either via clockwise or anti-clockwise or both LSPs

   ➤ Protection consists of switching to LSP in opposite direction

➤ Hierarchical LSPs are used to send traffic outside the ring

LDP Draft

➤ Became IETF working group document in July

➤ Addressed all mpls-rt review comments

   ➤ Corrected diagrams, changed many SHOULDs to MUSTs

➤ Posted a new version - 01

➤ Next Steps

   ➤ Draft ready for Working Group Last call

RMR drafts in the system

draft-ietf-teas-rsvp-rmr-extension-01

RSVP Extensions for RMR

Is in TEAS WG, should remain in TEAS; work in progress (logic: can be used for packet/non-packet)

draft-zzhang-teas-rmr-rsvp-p2mp-00

RSVP-TE P2MP Tunnels on RMR

Is an individual doc in TEAS WG, should remain in TEAS; should progress to WG doc

RMR drafts in the system

draft-zzhang-mpls-rmr-multicast-00
Resilient MPLS Rings and Multicast

➤ Presented -00 version in last IETF

➤ Received feedback from the working group - Thanks!

➤ Next Steps

    ➤ Address comments

    ➤ Update status to working group in the next IETF

RMR drafts in the system

draft-kompella-spring-rmr-00
Resilient MPLS Rings

- ★ Presented for the first time in SPRING
- ★ Where should this doc live? (our first guess, SPRING)
- ★ Some discussion with a few people, but very early days
- ★ Much work still needed

Drafts needed

- Need to have a draft in LSR with detailed TLV formats specific to ISIS and OSPF

- Also need to specify procedures and actions for ISIS/OSPF to perform

(semantics and general procedures are in base draft)