Framework for MPLS Over Composite Link

draft-so-yong-rtgwg-cl-framework-02.txt

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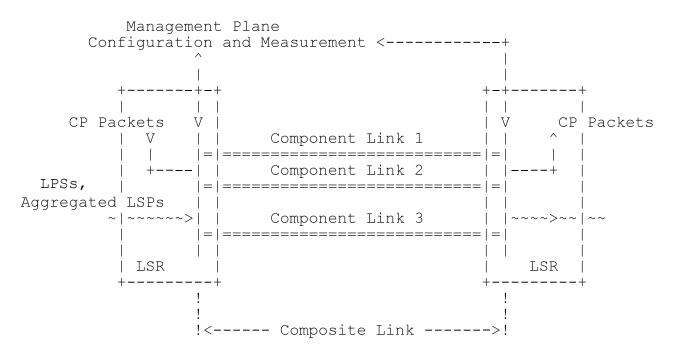
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The Differences between Version 2 and Version 1

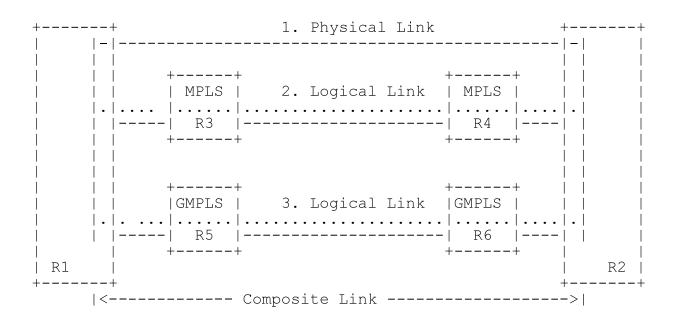
- Dramatically simplify Version 1 to seek the agreement on the CL model first in WG
- Align with CL requirement draft

CL Framework



- Composite link consists of a set of component links that have the same end points
- Composite link is used to carry MPLS traffic
 - LSPs, aggregated LSPs, and control plane packets
- Component links may have same or different TE parameters

Component Link



- May be a direct physical media
- May be a LSP tunnel over MPLS nodes
- May be a LSP tunnel via a lower layer that has GMPLS enabled

Composite Link in Control Plane

- Act as a single logical link in IGP and IGP-TE
- Signal a LSP over composite link
 - LDP signaled LSP or aggregated LSP
 - RSVP-TE signaled LSP or multi-path LSP
- Signal a component link for the composite link

Composite Link in Data Plane

- Composite link relies on its component link to carry its traffic
- Traffic to component link mapping options
 - Control plane mapping
 - Data plane mapping
 - Management plane mapping
- Component link failure
 - Failure notification
 - Traffic recovery

Next Steps

- Welcome the feedbacks
- Seeking the adoption of the CL framework draft as WG draft

Acknowledgements

Co-Authors like to thank Adrian F., Lou B., Kireeti K., Eric Gray, Dmitri P., etc. for their reviews and suggestions