Unified MPLS Framework

draft-martinotti-mpls-unified-mpls-fwk

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“The problem”

• Interworking MPLS
• Maximize the benefits of the OAM work done in the MPLS-TP project
• Keep the MPLS architecture “unified”
IP/MPLS and Interworking

• We started to look at how we can interwork IP/MPLS and MPLS-TP
  – This was the scope of the earlier draft-martinotti
  – Answers were not right
  – IP/MPLS is not the right context for interworking

• Deep dive
  – All the standard track RFCs
  – What works with what?
  – Packages and Aggregate Packages
  – Interworking options
MPLS Packages

Package 1
- LDP
- OSPF

Package 2
- LDP
- IS-IS

Package 3
- RSVP-TE
- ISIS-TE

Package 4
- RSVP-TE
- OSPF-TE
Aggregate Packages
Aggregate Packages

- MPLS TD
  Topology Driven MPLS

- MPLS-TE
  Traffic Engineered MPLS

- MPLS-TP
  MPLS Transport Profile
In Scope and assumptions

• It will be easier to set up an LSPs that crosses the between two MPLS packages within an Aggregate Package, than if an Aggregate Package border is traversed.

• Look at the applicability for MPLS-TP OAM for LSPs within MPLS packages, between MPLS Packages and between Aggregate Packages

• One architecture
Next steps

• More comments …
• More contributors / industry initiative
• … it also time start the process to make this a working document
• BTW, Riccardo and I do not know of any IPRs that is relevant for this draft