

LDP extensions for Explicit Pseudowire to transport LSP mapping

draft-cao-pwe3-mpls-tp-pw-over-bidir-lsp-02.txt

Mach Chen (mach.chen@huawei.com)

Wei Cao (wayne.caowei@huawei.com)

Attila Takacs (Attila.Takacs@ericsson.com)

Problem statement

- Currently,
 - A PW uses two unidirectional LDP/RSVP-TE LSPs as PSN Tunnel,
 - Each PE of the PW selects and binds to PSN Tunnel independently, there is no control plane support
- Transport services (e.g., MPLS-TP) normally require co-routed bidirectional paths, but
 - Current mechanisms can not guarantee this, especially when:
 - there are multiple LSPs with different paths and/or QoS levels between the two PEs.
 - Manual configuration is an alternative method, but
 - prone to configuration errors
 - difficult to maintain a large number of PWs
- Explicit control of PW to PSN tunnel binding is required
 - Stated in Section 5.3.2 of MPLS-TP control plane framework

Updates from 01-->02

- Editorial changes
- Align the LSP identifier description with the newest MPLS-TP identifier draft
 - “Source/Destination...” to “East/West...”

Next steps

- Refine the draft according to received comments.
- WG document?

Thanks!