LDP extensions for Explicit Pseudowire to transport LSP mapping

draft-cao-pwe3-mpls-tp-pw-over-bidir-lsp-07.txt

Mach Chen (mach.chen@huawei.com)
Wei Cao (wayne.caowei@huawei.com)
Attila Takacs (Attila.Takacs@ericsson.com)
Ping Pan (ppan@infinera.com)
Motivation and Problems

It’s desirable to aggregate user circuits into the same “pipes”
- Easy to manage (e.g. protection)
- Predictable service qualities (e.g. delay)

Issues today:
- PEs select and bind PW’s to uni-directional LSP’s locally
- Difficult to manage for bi-directional LSP binding (especially, over multiple segments)
Solution Overview
(Strict Mode)

Setup Forward PW using PSN1;
Make sure Reverse PW using PSN 1

OK

or, NO!

Don't want to use PSN1

ACs

PE1

P1

PSN 1

P2

PE2

Forward PW

Reverse PW

PSN 2

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Overview
(Congruent Mode)

Setup Forward PW using PSN1;
Make sure Reverse PW using a PSN
with the same route as PSN1

Hmm… OK, how about PSN2?

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Updates since v-05

• Rewrite several sections to make the motivation, requirement and process clearer

• Reformat the Binding TLV and its sub TLV to make the them consistent with other existing definitions

• Editorial changes
Next steps

• Like to request for WG adoption?

• Resolve the comments when received.