LDP Based PW LI & LB

draft-dong-pwe3-mpls-tp-li-lb-02

J. Dong, M. Chen (Huawei), G. Mirsky (Ericsson)

IETF85 PWE3 Nov. 2012 Atlanta
Background

- NMS based LI & LB is defined in RFC 6435
  - In-band LI message is additional
  - Suitable for the scenario where no control plane used

- LI and LB affect the data plane of the LSP
  - As enabler of some other OAM functions

- When dynamic control plane exists, could perform LI & LB through control plane signaling
  - Ensure control plane & data plane consistency
  - Complementary to NMS based LI & LB
Solution Overview

• Two new flags in MPLS-TP PW OAM Administration TLV
  – K: LocK function should be enabled for this PW
  – B: LoopBack function should be enabled for this PW

• Two new Status bits in PW Status TLV
  – Pseudowire in Lock Mode
  – Pseudowire in Loopback Mode
Solution Overview (cont.)

- **Lock Instruct**
  
  - Mapping with Lock bit set
  
  - Try to Lock the PW
  
  - Notification with the result

- **Loopback**
  
  - Mapping with both K & B set
  
  - Identify Target Node using ER-Hop TLV
  
  - Perform Loopback Function
  
  - Notification with the result
Update in v-02

• Editorial changes

• Target Loopback command to MIP/MEP
  – Using ER-Hop TLV
Next Steps

• Solicit comments & feedbacks
• Would like it to be accepted as WG item!