

Static pseudowire configuration checking using Generic Associated Channel (G-ACh) Advertisement Protocol

draft-jc-pwe3-static-config-check-01

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IETF85, Nov 2012

What updates?

- **draft-jc-pwe3-mpls-tp-static-checking-00** was presented at IETF83 Paris meeting, and received comments from meeting and mailing list.
- **draft-jc-pwe3-static-config-check-00 and 01** is the updated version of **draft-jc-pwe3-mpls-tp-static-checking-00**.
- Updates include:
 - Extend static PW checking for both MPLS-TP and Non-TP;
 - New Static PW FEC Element TLV is defined, instead of using Generalized ID FEC;
 - TX/RX Sequence number is used to ensure message delivery, instead of using local and remote PW element;
 - Control word configuration checking update;
 - MS-PW procedure update.

Extensions to GAP

- GAP is defined in draft-ietf-mpls-gach-adv-02.
- The extensions to GAP include:
 - New GAP application "static PW" is defined.
 - Application Data Block (ADB) for "static PW" application is defined with "Static PW FEC Element TLV".
 - Define static PW suppress TLV to suppress static PW FEC element transmission.

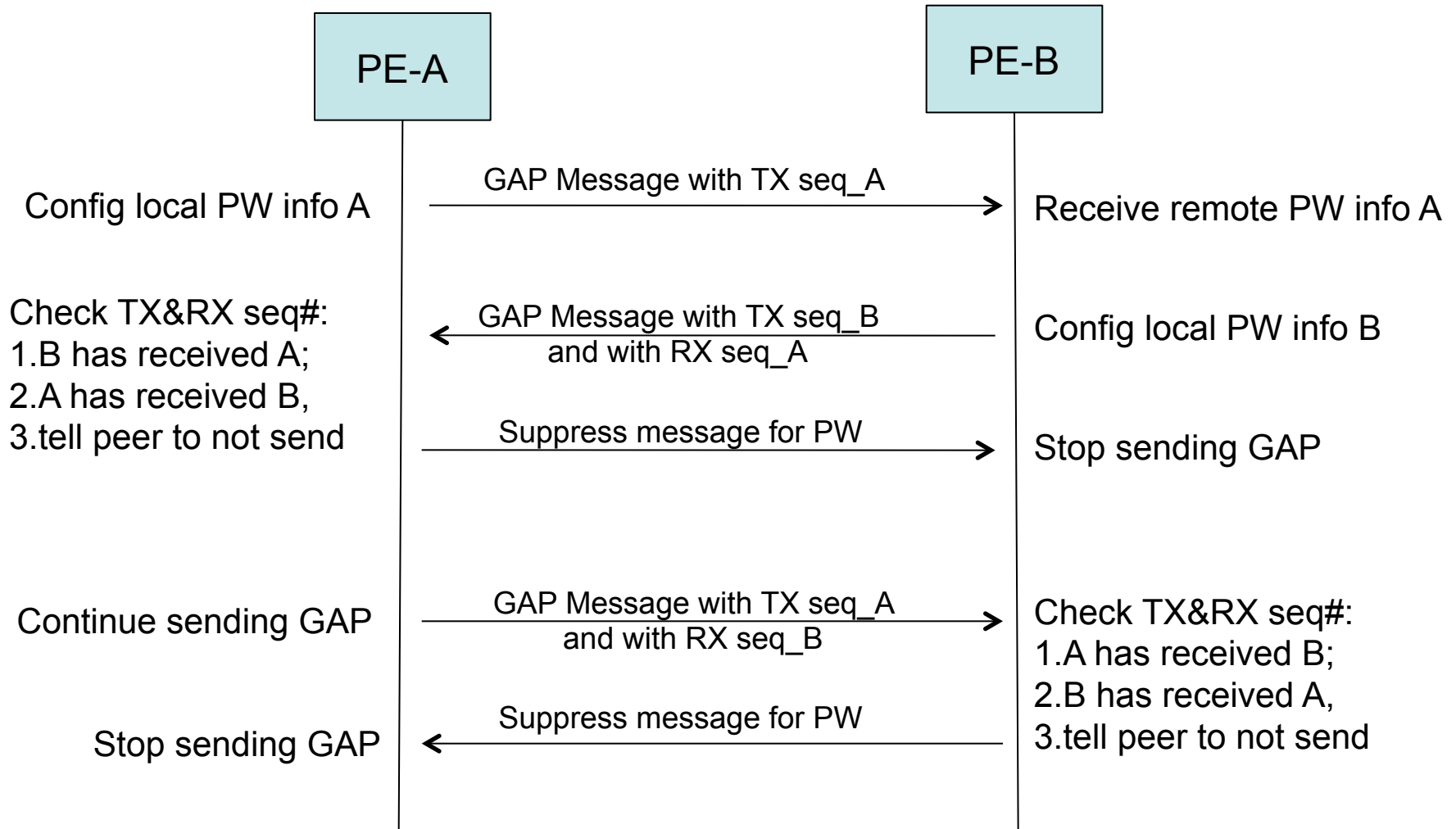
Sending PW application Element TLV

- When a PW is configured, the PE MUST send its local PW configuration information using the GAP over the PSN tunnel.
 - Set the TX sequence number to a non-zero value;
 - RX sequence number MUST be set to the previously received TX sequence number, otherwise set to zero;

Receiving PW application Element TLV

- If PE has local PW configuration and previously sent GAP, it MUST check **RX seq#** received and **TX seq#** it previously sent.
 - If equal, send GAP message with static PW suppress TLV
 - Otherwise, do not send GAP message with static PW suppress TLV
- If there is no local PW configuration, the receiving PE MUST retain the remote static PW FEC Element information.

Message process



MS-PW Procedure

- T-PE is same as SS-PW procedure
- S-PE
 - Verify the incoming and outgoing static PW labels only, and no other PW configuration parameters checking are needed at S-PE
 - S-PE MUST pass through static PW application TLVs carried in GAP messages, from one PW segment's corresponding PSN tunnel to the other PW segment's corresponding PSN tunnel.

Next steps

- Any more comments are appreciated.
- Ready for WG adoption.

Thank you