draft-fu-bess-evpn-vpws-seamless

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Agenda

• Introduction
• Problem Statement
• Solution
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Introduction

• Solution for EVPN-VPWS SRv6 Seamless Integration with Legacy VPWS
  • How to Identify whether the pseudo-wire of EVPN VPWS SRv6 is same with the pseudo-wire of L2VPN VPWS

• Target: Allows migrating VPWS to EVPN-VPWS under the same vpn instance but over different network.
Problem Statement

Problem Summary:
In the EVPN VPWS over SRv6 scenario, the next hop of the EVPN Ethernet-AD per EVI is an IPv6 address, which is different from the source address of the LDP-LM message/VPWS AD route.

How to identify Legacy PW and make PW down?
Solution

- Add L2VPN VPWS origin IP in **EVPN Ethernet-AD per EVI route**

- Define a new extended community attribute

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<tr>
<th>0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7</th>
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<tbody>
<tr>
<td>Type=0x05</td>
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<tr>
<td>L2VPN VPWS Origin Ip</td>
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**Solution Summary:**

- PE2 compares the L2VPN VPWS Origin IP attribute in the EVPN Ethernet-AD per EVI route with the source IP address of the LDP-LM message/VPWS AD route.

- If the result is same, LDP-LM message/VPWS AD route and EVPN Ethernet-AD per EVI route are from the same device.
Next step

• Request more feedback