RIFT Auto-EVPN
draft-ietf-rift-auto-evpn-02

Jordan Head, Tony Przygienda, Wen Lin

IETF113
What’s new in draft-ietf-auto-evpn-02?

• Improved variable derivation numbering (e.g. IRB/VLAN/EVI)
  
  • Big thanks to Olivier Vandezande!
  
• Thrift schema changes.
Improved Derivation Numbering

• Previously, results would have looked something like this:

<table>
<thead>
<tr>
<th>Fabric ID</th>
<th>MAC-VRF ID</th>
<th>VLAN ID</th>
<th>Stretched?</th>
<th>VNI</th>
<th>IRB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Yes</td>
<td>4097</td>
<td>70</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>1581</td>
<td>No</td>
<td>218669</td>
<td>1914</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>37</td>
<td>Yes</td>
<td>8229</td>
<td>186</td>
</tr>
</tbody>
</table>

• The solution works perfectly well, but some operators preferred that the IRB and VLAN ID matched to keep things simple and aligned with existing practices.
Improved Derivation Numbering

• Now, results look like this:

<table>
<thead>
<tr>
<th>Fabric ID</th>
<th>MAC-VRF ID</th>
<th>VLAN ID</th>
<th>Stretched?</th>
<th>VNI</th>
<th>IRB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Yes</td>
<td>4097</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>458</td>
<td>No</td>
<td>217546</td>
<td>458</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>73</td>
<td>Yes</td>
<td>8265</td>
<td>73</td>
</tr>
</tbody>
</table>

• VLAN and IRB values are aligned.

• Simplifies verification and troubleshooting.

• No change to scale.
Thrift Schema Changes

• **common.thrift**
  - Now carries values for undefined_fabric_id (0) and default_fabric_id (1).

• **encoding.thrift**
  - NodeCapabilities now carries a value indicating if Auto-EVPN is supported.
  - NodeFlags now carries a value indicating DCI functionality.
What’s Next?

• Co-Authorship and comments are welcome.

• More Data Center Interconnect details/examples.

• More multiplane examples.

• More operational considerations.
Questions?