Vendor Channel Protocol

draft-eastlake-trill-vendor-channel-00.txt

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TRILL RBridge Channel

- RBridge Channel is a facility for sending typed messages between
  - RBridges in the same campus
  - End stations and RBridges on the same link
- In the RFC Editor’s queue
  - draft-ietf-trill-rbridge-channel-08.txt
- Used, for example, as the envelope for BFD
  - draft-ietf-trill-rbridge-bfd-07.txt
## TRILL RBridge Channel

- Between R Bridges in the same campus

<table>
<thead>
<tr>
<th>Link Header</th>
<th>TRILL Header</th>
<th>RBridge Channel Header</th>
<th>Channel Protocol Specific Data</th>
<th>Link Trailer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ethertype</td>
<td>Channel Protocol #</td>
<td>Flags / Error</td>
</tr>
</tbody>
</table>

- Between end stations and R Bridges on the same link

<table>
<thead>
<tr>
<th>Ethernet Header</th>
<th>RBridge Channel Header</th>
<th>Channel Protocol Specific Data</th>
<th>FCS</th>
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TRILL Vendor Channel Protocol
Vendor Channel Purpose

• Will provide a way for RBridge manufactures to send messages between instances of their equipment in a TRILL campus.
• This could be easier if RBridges were required to have IP addresses or MAC addresses but they are not. They have nickname(s).
• RBridge Channel messages address RBridges by
  – nickname, or
  – data label scoped set of RBridges
Vendor Channel Protocol

- The Vendor Channel value in the RBridge Channel Protocol number means the Channel protocol specific data starts with a Vendor Channel Header:
  - OUI to identify the vendor
  - Error reporting field
  - Optionally 8 bits of Vendor sub-protocol and 8 bits of version for that sub-protocol
END