A YANG Data Model for Client Signal Performance Monitoring

TEAS WG, IETF106, Singapore

draft-zheng-ccamp-client-pm-yang-00

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Why the model is needed?

• Motivation:
  – Service(s) are configured on TE tunnels (OTN, WSON, etc.);
    • Ethernet service;
    • Transparent client signals;
  – Performance need to be monitored for operation need;
General Framework for OAM/Alarm: Reference as Guidance

Other PM-related Documents:
- draft-ietf-teas-actn-pm-telemetry-autonomics: focus on the PM mainly on VN and Tunnels, instead of service (covered in this document);
- draft-www-bess-yang-vpn-service-pm: focus on the VPN level, especially among overlay VPN sites;
What parameters are in scope?

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Layer2</th>
<th>Layer1</th>
<th>Layer0</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delay/Latency</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>In the draft</td>
</tr>
<tr>
<td>Bit Error Rate (BER)</td>
<td>?</td>
<td>✓</td>
<td>✓</td>
<td>Planning</td>
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<tr>
<td>Packet Loss</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
<td>Planning</td>
</tr>
<tr>
<td>Jitter</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>Planning</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>Planning</td>
</tr>
<tr>
<td>Byte/Packet number</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>Planning</td>
</tr>
<tr>
<td>Power</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td>Planning</td>
</tr>
</tbody>
</table>
Discussion

• Generic or Tech-specific?
  – Authors believe the model is tech-specific;

• To move forward:
  – Agree on the model relationship;
  – Continue to work on bringing other parameters for monitoring.