Framework for Abstraction and Control of Transport Networks

draft-ietf-teas-actn-framework-00
IETF 96 – Berlin

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Draft-status

• Recently adopted as WG ID (-00)
• New co-author: Gert Grammel
• New terminology added to explain existing concepts
  – E.g. PNC domain
• New use case covered
  – Border node
• Still to be addressed
  – Inter-domain link management
Relationship with PCECC

PCECC can be a PNC in the ACTN architecture
Where we were

Domain 1

CE1

1.A

1.B

AP1

Access Point on the Acces Link

Domain 3

CE3

3.A

3.B

AP3

Inter-domain links

2.A

AP2

CE2

Access Point on the Acces Link
Where we are

Domain 1

CE1

1.A

1.B

AP1

Domain 3

CE3

3.A

3.B

AP3

Inter-domain links as well as Border nodes

CE2

AP2
What we need to address

- Something similar to the AP defined on the inter domain links
- Is it the same as the AP or different?
- Does this need to be different between homogenous domains (same technology) or different characteristics are needed when it joins different technological domains?
What we need to address

<table>
<thead>
<tr>
<th>AP Id</th>
<th>MaxResBw</th>
<th>Total Bw</th>
<th>CE, port</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP1</td>
<td>17Gb</td>
<td>20Gb</td>
<td>CE1, portX</td>
</tr>
<tr>
<td></td>
<td>VNAP1.9</td>
<td>1Gb</td>
<td></td>
</tr>
<tr>
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<td>2Gb</td>
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<tr>
<td>AP2</td>
<td>7Gb</td>
<td>10Gb</td>
<td>CE2, portY</td>
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<tr>
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<td>VNAP3.5</td>
<td>2Gb</td>
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</tr>
</tbody>
</table>

What is the impact here??

VN red: ID=9

VN blue: ID=5

What we need to address
Next Steps

• Discuss this open issues on the ML
• Define AP and VNAP concepts for inter domain links
• AP configuration and/or discovery
• Cover security session