CCVPN use case proposal
Agenda

• CCVPN UseCase

• Architecture & Model proposal

• GUI & Future plan
CCVPN UseCase proposal
Phase 1: network and proposal
Agenda

• CCVPN UseCase

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CCVPN ONAP DM proposal for resource in SDC

TODO: more parameter to be updated
### DM in A&AI

<table>
<thead>
<tr>
<th>Service-Instance</th>
<th>Site</th>
<th>STON VPN Network</th>
</tr>
</thead>
<tbody>
<tr>
<td>ServiceInstanceId</td>
<td>Siteld</td>
<td>VPN Id</td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Description</td>
</tr>
<tr>
<td></td>
<td>tenantId</td>
<td>tenantId</td>
</tr>
<tr>
<td></td>
<td>Location</td>
<td>vpnType</td>
</tr>
</tbody>
</table>
DM Proposal in Phase II (support SD-WAN controller or more than one domain controller)

Tenant
- tenantId
- tenantName
- accountName
- accountEmail
- accountPassword
- tenantAddress
- tenantTel
- countryCode

Site A
- siteId
- siteName
- Description
- siteType
- Role
- tenantId
- Devices
- location
- popSiteId

LAN service for Site A
- deviceID
- name
- Description
- siteType: single gateway, dual gateway
- Role: Hub, Spoke

Device
- deviceId
- name
- tenantId
- tenantName
- siteId
- vendor
- deviceType

VPN service
- vpnServiceId
- tenantId
- name
- description
- vpnType
- siteAttachment
- regionTopo: for mix topo, (name, type, topology)
- routePolicies: for mix topo

Site B
- siteId
- siteName
- Description
- siteType: single gateway, dual gateway
- Role: Hub, Spoke

LAN service for Site B
- lanNetworkAccessId
- name
- description
- vlan-tag
- siteId
- devicePort
- prefixLength
- dhcpService
- inputBandwidth
- outputBandwidth

Device
- deviceId
- name
- tenantId
- tenantName
- siteId
- vendor
- deviceType

Customer Site A
- CPE

Customer Site B
- CPE

THE LINUX FOUNDATION
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New resource catalog in SDC: Site /VPN resource
How to model VPN for Physical network(VL?), how to model Site(VF?), should we introduce new catalog type?
CCVPN ONAP process proposal

SDC Service

Site

VPN Network

Site

SO BPMN Workflow

SDNC DG

New DG For Site

New DG For PHY Network

1. create site res
2. create site res
3. Use OOF to calculate paths
4. create vpn res
5. create vpn service

New DG For Site: Only Save The Site instance to AAI

New DG For Network: Call PHY Controller to create CCVPN Service, And Insert The VPN Network Resource instance to AAI. Upload abstract node for the physical network from controller.

Controller (for physical network)