

CCVPN Use Case Resource IM Proposal

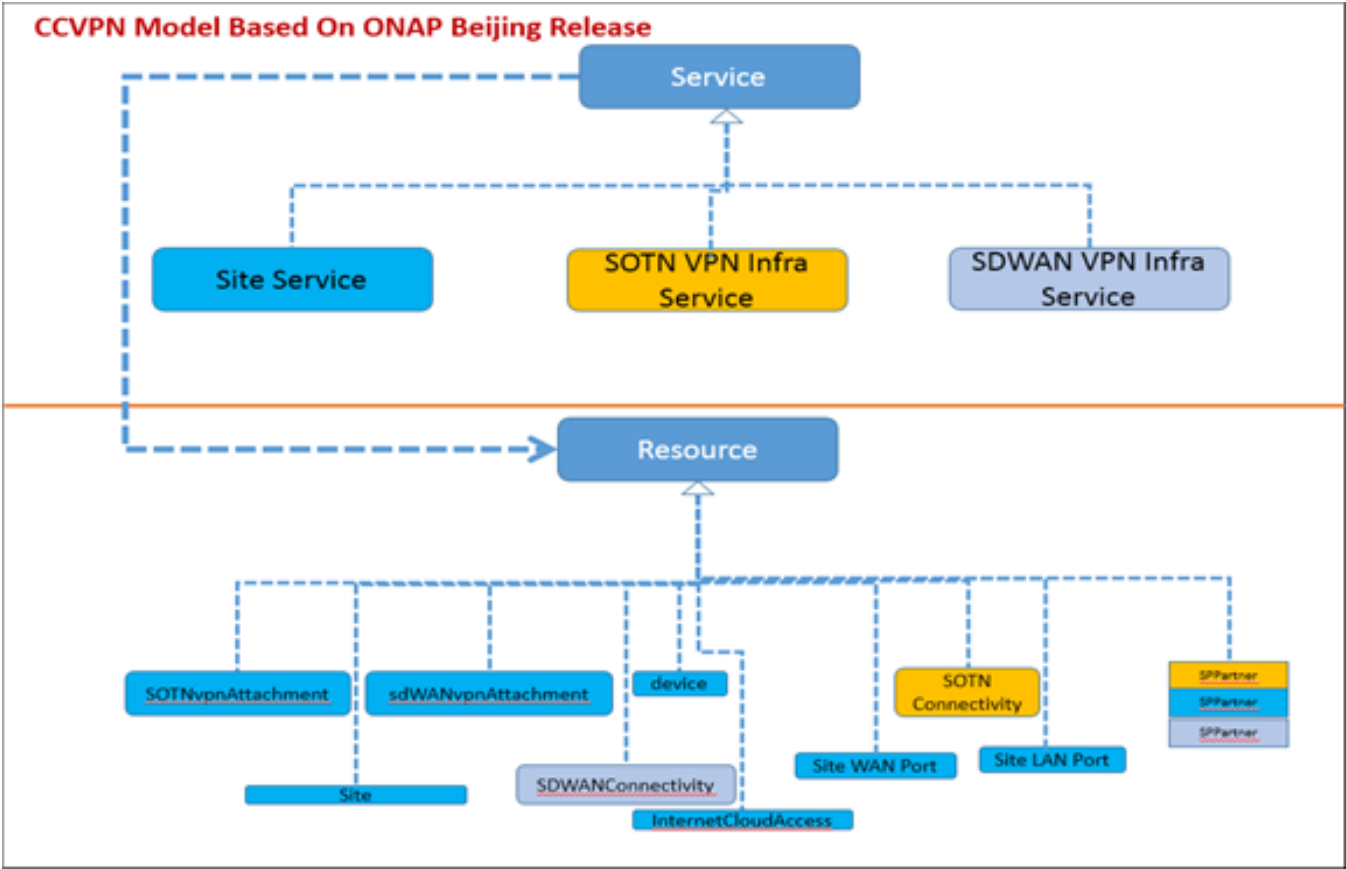
0.Background

Please refer [CCVPN Use Case Proposal](#)

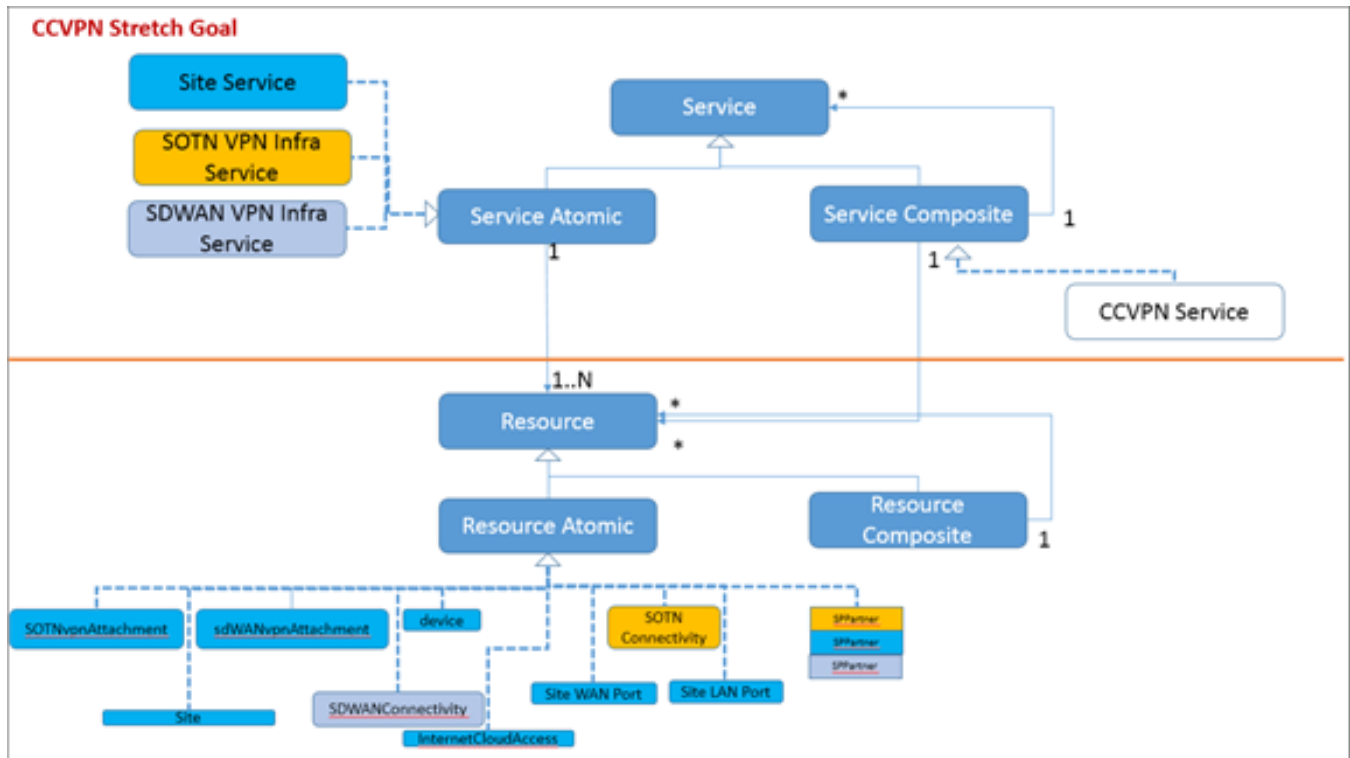
For CCVPN current proposal, we define it based on the codes of ONAP Beijing release. There is no change for the ONAP service and resource model.

1.Diagram

1.1 CCVPN Current Solution



1.2 CCVPN Stretch Goal



2. Resource IM

2.1 SOTN Connectivity

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the SOTN connectivity information element.
name	M	1	String	The name of the SOTN connectivity.
description	O	1	String	The description of the SOTN connectivity.
type	M	1	String	The type should be: client/ethernet.
startTime	M	1	String	The start time of the SOTN connectivity
endTime	M	1	String	The end time of the SOTN connectivity
COS	O	1	String	It can be premium/standard
reroute	O	1	boolean	Reroute enable
SLS	O	1	String	Service Level Specification
dualLink	O	1	boolean	Is dual link for this connectivity
CIR	O	1	String	The CIR for the SOTN connectivity. Only for Ethernet type
EIR	O	1	String	The EIR for the SOTN connectivity. Only for Ethernet type
CBS	O	1	String	The CBS for the SOTN connectivity. Only for Ethernet type
EBS	O	1	String	The EBS for the SOTN connectivity. Only for Ethernet type
colorAware	O	1	Boolean	The color aware for the SOTN connectivity. Only for Ethernet type.
couplingFlag	O	1	Boolean	The coupling flag for the SOTN connectivity. Only for Ethernet type.

2.2 SDWAN Connectivity

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the SDWAN connectivity information element.

name	M	1	String	The name of the SDWAN connectivity.
vni	O	1	String	The VXLAN ID of the SDWAN connectivity.
topology	M	1	String	1. full-mesh 2. hub-spoke

2.3 SOTN VPN Infra Attachment

Attributes	Required	Cardinality	Content	Description
sotnVpnName	M	1	String	References the SOTN VPN Infra service.
clientSignal	O	1	String	The client signal for the site. It is used for only client type connectivity.
cVLAN	O	1	String	The cVLAN for the site. It is used for only ethernet type connectivity.

2.4 SDWAN VPN Infra Attachment

Attributes	Required	Cardinality	Content	Description
sdwanVpnName	M	1	String	References the SDWAN VPN Infra service.
role	O	1	Boolean	The role for site attach to the VPN. It can be hub/spoke. Only for hub-spoke VPN.

2.5 Device

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the device
esn	O	1	String	Device Series number, Refer to Note2
name	O	1	String	The name of the device
description	O	1	String	The description of the device
vendor	O	1	String	The vendor of the device
class	M	1	String	The class of the device, it can be VNF/PNF
type	O	1	String	The type of the device, Refer to Note2
version	O	1	String	The version of the device.
systemIp	O	1	String	The system IP of the device.

Note2: Esn and type must have one.

2.6 Internet Cloud Access

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the Internet cloud access
internetCloudAccessType	O	1	String	Centralized(default) or Direct internet access
internetGatewaySiteId	O	1	String	Refer to the site id of the Gateway
isPermit	M	1	String	Is the site permit to access internet. Default: true

2.7 Site WAN Port

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the WAN port
name	O	1	String	The name of the WAN port
description	O	1	String	The description of the WAN port
deviceId	M	1	String	The deviceId of the site

portType	M	1	String	The port type of the device for WAN port. 1 GE, 2 FE, 3 XGE, 4 LTE, 5 xDSL(ATM), 6 xSDL(PTM)
portNumber	M	1	String	Port number
ipAddress	M	1	String	The ip and mask of the WAN port
providerIpAddress	M	1	String	The ip address of the provider PE
vlanId	O	1	String	The vlan id of the WAN port
transportNetworkName	M	1	String	The transport network name that WAN port connect to.
inputBandwidth	M	1	int	The input bandwidth of the WAN port. (Mbps)
outputBandwidth	M	1	int	The output bandwidth of the WAN port. (Mbps)

2.8 Site LAN Port

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the LAN port
name	M	1	String	The name of the LAN port
description	M	1	String	The description of the LAN port
deviceId	M	1	String	The device id of in the site
portId	M	1	String	The portId of the device
ipAddress	M	1	String	The ip address of the LAN port
vlanTag	M	1	String	The vlan tag of the LAN port
dhcpService	O	1	DHCP Service Object	DHCP service of the LAN port
inputBandwidth	O	1	String	The input bandwidth of the LAN port
outputBandwidth	O	1	String	The output bandwidth of the LAN port

DHCP Service

Attributes	Required	Cardinality	Content	Description
serviceEnable	M	1	boolean	DHCP enable flag. Default: false
dhcpServiceType	M	1	enum	Relay / Server
leaseTime	C	1	uint16	When dhcpServiceType is Server
domainName	C	1	String	When dhcpServiceType is Server
dns	C	N	string	When dhcpServiceType is Server
ntpPrimary	C	1	string	When dhcpServiceType is Server
ntpSecondary	C	1	string	When dhcpServiceType is Server
nbns	C	N	string	When dhcpServiceType is Server
domainName	C	1	string	When dhcpServiceType is Server
serverIpAddress	C	1	string	When dhcpServiceType is Relay

2.9 SPPartner

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the SPPartner
url	M	1	String	The url of the ONAP from SPPartner
providingServiceInvarianteUuid	M	1	String	The providing service invariant uuid from SPPartner
providingServiceUuid	M	1	String	The providing service uuid from SPPartner
handoverMode	M	1	String	The handover mode for the cross ONAP. It can be SOTN/SD-WAN

2.10 Site

Actually, This Site resource is used for Site DC Service and Site Enterprise service because SDC does not support service level parameters definition (All the parameters can be find in Site Service IM), so we make it as a resource for site service here.

Attributes	Required	Cardinality	Content	Description
id	M	1	String	Identifier of the enterprise site.
name	M	1	String	The name of the site
description	O	1	String	The description of the site
location	M	1	Location Object	The location of the site.
type	M	1	String	1: single gateway 2: dual gateway default: 1 This item is used for SDWAN only.
role	M	1	String	1: dsvpn-hub 2: sd-wan-edge This item is used for SDWAN only.
controlPoint	O	1	String	The control site for the site. It is needed for sd-wan-edge role site.

Location Object

Attributes	Required	Cardinality	Content	Description
emails	O	1..N	String	Email list
postcode	M	1	String	postcode
address	M	1	String	Address
latitude	O	1	String	Latitude
longitude	O	1	String	Longitude