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CA Spectrum – VNA Integration to support SDN/NFV

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Integration with CA Virtual Network Assurance

We're at the Beginning of a Revolution...Are you Ready?

SDN/NFV will fuel the Application Economy





Tomorrow's Infrastructure Management Solutions

SDN/NFV Stack



CA Spectrum
with CA Virtual Network
Assurance



Overview

- Use the same monitoring and management mechanisms and UI that you have been using, to manage all facets of your environment
- Discovering and modeling Virtual Infrastructure, devices and services in Spectrum
- Visibility on how the virtual infrastructure is connected to physical and visualize dynamic networking resources with the topology view
- Abstracted resources can be monitored and managed in the same way as their static
 orking counterparts to keep up with the frequency, scope and scale of all the
- Integrate
 CA Virtual Network Assurance aka SDN Gateway

Integrate with CA Virtual Network Assurance aka SDN Gateway

From Administration page configure CA VNA with SDN Gateway information

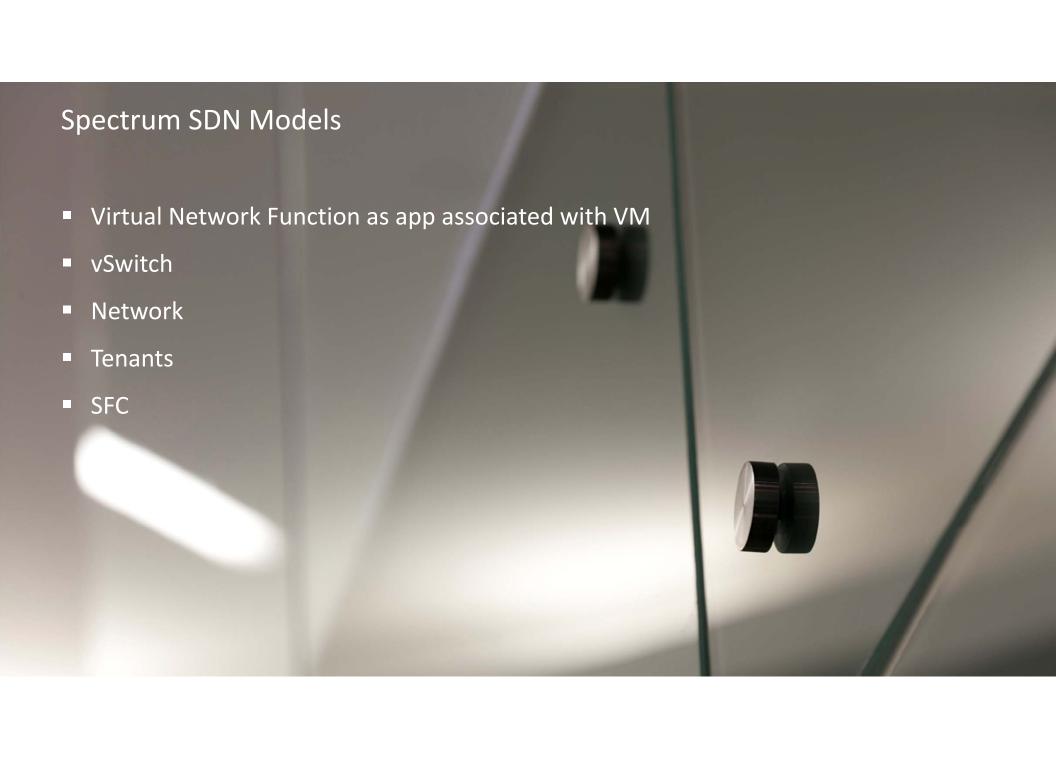
SDN Gateway Integration Configuration	
SDN Gateway Server Host Name	
SDN Gateway Server Port	0
Select a SpectroSERVER	jaina01-i164432 ✓
Note:The new devices which are managed by SDN Gateway will be created under the selected SpectroSERVER.	
SDN Gateway Integration	○ enable● disable
Save Test	



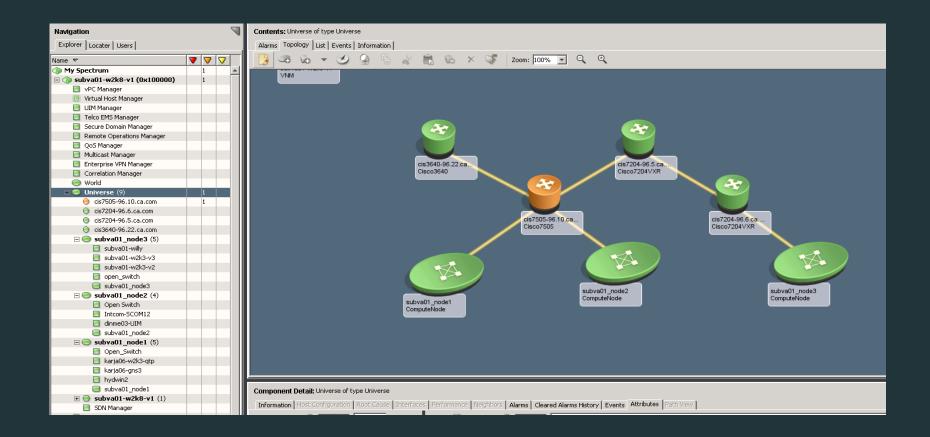
Spectrum SDN Models

- Compute Node as SNMP Model
 - Interfaces provided by gateway are reconciled with the spectrum discovered physical interfaces based on MAC/IfIndex
 - Compute Node discovery initiates Layer2 mapping process to resolve its connection to its upstream switches
- Virtual Machine as pseudo models (SDN_VM)
 - Spectrum models only the VMs
 - Operational Status of VM is provided by VNA(SDN Gateway)
 - eady modeled VMs (snmp/pingable) are managed by Spectrum
 - cannot directly always able to ping as the Data center might have the same IP address

in bnets



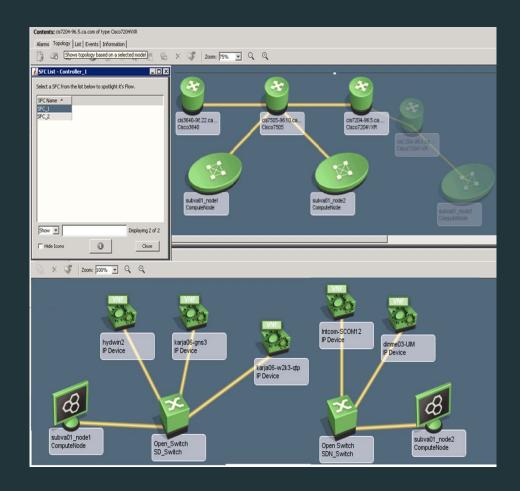
Physical overlay vis-à-vis virtual overlay topology





Service Function Chain

 Provides the ability to define an ordered list of a network services.
 These service are then "stitched" together in the network to create a service chain





OneClick Views

New views added like SDN Manager, Neighbors topology, Spotlight view

