



System Under Test	
Products	Software Versions
Nexus 9504 Spine	11.0(3n)
2 Nexus 9396 ToRs	11.0(3n)
Application Policy Infrastructure Controller	1.0(3n)

Overlay WG Use Case – Feature Verification of Top Ten Requirements	Results
<p>1. Virtual network overlay forwarding based on Open vSwitch and open documented encapsulation techniques, such as VXLAN, GUE, NVGRE, MPLSoE, etc.</p> <p>VXLAN</p>	
<p>2. Virtual network overlay endpoint termination on hypervisors, Linux containers and physical switches</p> <p>Passed hypervisor, container, and pswitch requirements</p>	
<p>3. Virtual network control plane scale and acceptable convergence for deployments scaling up to 100,000 endpoints</p>	—
<p>4. Open documented southbound controller-to-endpoint interface(s) for virtual network overlay endpoint provisioning and traffic policy configuration</p> <p>Part 1: <a href="http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/L4-L7_Device_Package_Development/guide/b_L4L7_Package/b_L4L7_Package_chapter_011.html">http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/L4-L7_Device_Package_Development/guide/b_L4L7_Package/b_L4L7_Package_chapter_011.html</a>            Part 2: <a href="https://www.youtube.com/watch?v=5Nw2vtid7Zs">https://www.youtube.com/watch?v=5Nw2vtid7Zs</a></p>	
<p>5. Open documented controller-to-controller interfaces, enabling multi-domain federation of separate virtual overlay networks</p>	—
<p>6. Open documented northbound virtual network controller interface to cloud orchestration systems</p> <p>Part 1: <a href="http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/apirest/b_APIC_RESTful_API_User_Guide.pdf">http://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/apirest/b_APIC_RESTful_API_User_Guide.pdf</a>  <a href="https://github.com/datacenter/acitoolkit">https://github.com/datacenter/acitoolkit</a></p>	
<p>7. Layer-2 and layer-3 traffic mapping and distributed virtual network overlay packet forwarding</p> <p>Part 1 and Part 2</p>	
<p>8. Networking Virtual Edge (NVE) monitoring capabilities, using standard management protocols and APIs</p> <p>Part 1 and Part 2</p>	
<p>9. End-to-end network overlay monitoring to validate network reachability and performance characteristics</p> <p>Part 1, Part 2, and Part 3</p>	
<p>10. Correlation of virtual network overlays with physical network underlay state and performance (Vendor's choice)</p>	