Hypervisor API Functions

This chapter provides information about the Cisco Nexus 1000V application programming interface (API) functions. The functions are grouped under two namespaces—n1k and hyper-v. The n1k namespace is generic across all hypervisors, and hyper-v namespaces are specific. The functions that support write (create, update, and delete) operations are explicitly marked as writeable. All others are read-only functions.

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Get License Information for the Cisco Nexus 1000V

Object Locator

["/api/n1k/license"]

Description

Retrieves license-usage information. This function is equivalent to the **show license usage** command.

Response Sample

```
<?xml version="1.0" encoding="UTF-8"?>
<set name="license_set"
    <instance name="NEXUS_VSG_SERVICES_PKG" url="/api/n1k/license">
        <properties>
            <expires>Never</expires>
            <type>NEXUS_VSG_SERVICES_PKG</type>
            <available>16</available>
            <status>Unused</status>
            <used>0</used>
        </properties>
    </instance>
    <instance name="NEXUS_ASA1000V_SERVICES_PKG" url="/api/n1k/license">
        <properties>
            <expires>Never</expires>
            <type>NEXUS_ASA1000V_SERVICES_PKG</type>
            <available>16</available>
            <status>Unused</status>
            <used>0</used>
        </properties>
    </instance>
<instance name="N1KV_MSFT_LAN_SERVICES_PKG" url="/api/n1k/license">
        <properties>
            <expires>Never</expires>
            <type>N1KV_MSFT_LAN_SERVICES_PKG</type>
            <available>511</available>
            <status>In use</status>
            <used>0</used>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description
expires	Earliest expiration date for a given license.
type	License name.
available	Available license count.
status	License usage status.
used	Used licenses.

Get Basic Information About the Cisco Nexus 1000V

Object Locator

["/api/n1k/summary"]

Description

Retrieves basic information about the Cisco Nexus 1000V.

Response Sample

```
<instance uri="/api/n1k/summary">
    <properties>
        <switchMode>Advance</switchMode>
        <ip>172.23.231.209</ip>
        <name>my_vsm</name>
        <haStatus>false</haStatus>
        <version>version 5.2(1)SM1(5.1)</version>
    </properties>
</instance>
```

Response Description

Property	Description
switchMode	Switch mode. Can be Essential or Advanced.
ip	IP address of the Cisco Nexus 1000V VSM.
name	Cisco Nexus 1000V VSM hostname.
haStatus	Whether the VSM is in high availability mode.
version	Cisco Nexus 1000V version.

Get Module Information for the Cisco Nexus 1000V

Object Locator

["/api/n1k/vem"]

Description

Retrieves information about Cisco Nexus 1000V modules. This function is equivalent to the **show module** command.

Response Sample

```
<set name="vem_set">
    <instance name="3" url="/api/n1k/vem">
        <properties>
            <module>3</module>
            <licenseUsage>-</licenseUsage>
            <numVnics>3</numVnics>
            <ip>10.10.10.2</ip>
            <hostVersion>Windows Server 8 - Datacenter (6.2.9200, 6.30)
            </hostVersion>
            <status>ok</status>
            <license>licensed</license>
            <mac>02-00-0c-00-03-00 to 02-00-0c-00-03-80</mac>
            <type>Virtual Ethernet Module</type>
            <maxNumVnic>216</maxNumVnic>
            <nSockets>2</nSockets>
            <ports>288</ports>
            <modmac>3</modmac>
```

```
            <numVM>3</numVM>
            <version>5.2(1)SM1(5.1)</version>
            <model>NA</model>
            <lic_version>-</lic_version>
            <serialnum>NA</serialnum>
            <name>SAMLIN-SERVER02</name>
        </properties>
        <children>
            <child name="port-profile" url="/api/n1k/vem/3/port-profile"/>
            <child name="uplink" url="/api/n1k/vem/3/uplink"/>
            <child name="vnic" url="/api/n1k/vem/3/vnic"/>
        </children>
    </instance>
</set>
```

Response Description

Property	Description
module	Module number.
licenseUsage	Number of CPU licenses used by the Virtual Ethernet Module (VEM).
numVnics	Number of virtual network interface cards (vNICs) on the host.
ip	IP address of the host.
hostVersion	Host version.
status	Host status.
license	License status.
mac	Host MAC address.
type	Host type.
nSockets	Number of sockets on the host.
ports	Number of available ports per module.
modmac	Number of MAC addresses learned on the module.
numVM	Number of active virtual machines (VMs) on the host.
model	Host model.
lic_version	Licensing version.
serialnum	Serial number of the host.
name	Host DNS name.

Each child indicates the sub-addon available under each module.

Get Uplink Information for the Cisco Nexus 1000V

Object Locator

[“/api/n1k/uplink”]

Description

Retrieves information about the Cisco Nexus 1000V uplink ports.

Response Sample

```
<set name="uplink_set">
    <instance name="Ethernet3/8" uri="/api/n1k/uplink/Ethernet3%2F8">
        <properties>
            <module>3</module>
            <portChannelType>Eth</portChannelType>
            <packetsTx>26361</packetsTx>
            <mtu>1500</mtu>
            <cdpPort>GigabitEthernet3/39</cdpPort>
            <port>Ethernet3/8</port>
            <status>up</status>
            <mode>trunk</mode>
            <vlans>231</vlans>
            <portChannel>1</portChannel>
            <cdpNativeVlan>231</cdpNativeVlan>
            <portChannelMembers>Ethernet3/8</portChannelMembers>
            <ethernet>Ethernet</ethernet>
            <packetsRx>187544</packetsRx>
            <cdpSwitch>sfish-6k-I9</cdpSwitch>
            <portProfile>n1kv-uplink0</portProfile>
            <speed>1000 Mb/s</speed>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description
module	Module ID to which the uplink is connected.
portChannelType	Port channel type.
packetsTx	Number of packets transmitted.
mtu	Maximum transmission unit (MTU) size.
cdpPort	Name of the port of the Cisco Discovery Protocol neighbor.
port	Uplink port name.
status	Uplink status.
mode	Uplink port mode (access or trunk).
vlans	VLAN associated with the uplink.
portChannel	Port channel group.
cdpNativeVlan	Native VLAN of the Cisco Discovery Protocol neighbor.
portChannelMembers	Members of the port channel.
ethernet	Type of port.

Property	Description
packetsRx	Number of packets sent.
cdpSwitch	Name of the Cisco Discovery Protocol neighbor switch.
portProfile	Name of the assigned port profile.
speed	Uplink speed.

Get Virtual Port Information for the Cisco Nexus 1000V

Object Locator

[“/api/n1k/vnic”]

Description

Retrieves information about the Cisco Nexus 1000V virtual ports.

Response Sample

```
<set name="vnic_set">
    <instance name="Vethernet5" uri="/api/n1k/vnic/Vethernet5">
        <properties>
            <mac>0050.56ba.58bc</mac>
            <dvport>DVPort65</dvport>
            <adapter>Net Adapter 1</adapter>
            <hostIP>172.23.231.192</hostIP>
            <vlans>231</vlans>
            <portGroup>n1kv-system-control</portGroup>
            <status>up</status>
            <module>3</module>
            <vm>vsm-openstack</vm>
            <vnic>Vethernet5</vnic>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description
mac	MAC address associated with the vNIC.
dvport	Distributed virtual port Globally Unique Identifier (GUId).
adapter	Adapter with which the vNIC is associated.
hostIP	IP address of the host vNIC.
vlans	VLANs assigned to the vNIC.
portGroup	Port profile to which the vNIC is assigned.
status	vNIC status.
module	Module ID with which the vNIC is associated.
vm	Virtual machine to which the vNIC is connected.
vnic	vNIC name.

Get Port Profile Information for the Cisco Nexus 1000V

Object Locator

[“/api/n1k/port-profile”]

Description

Retrieves information about the Cisco Nexus 1000V port profiles.

Response Sample

```
<set name=“port-profile_set”>
    <instance name="n1kv-pp-vmk0" uri="/api/n1k/port-profile/n1kv-pp-vmk0">
        <properties>
            <minPorts>1</minPorts>
            <systemVlans>231</systemVlans>
            <usedPorts>1</usedPorts>
            <name>n1kv-pp-vmk0</name>
            <vlans>231</vlans>
            <status>1</status>
            <mode>access</mode>
            <maxPorts>32</maxPorts>
            <type>Vethernet</type>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description
minPorts	Minimum number of ports allowed per port profile.
systemVlans	Assigned system VLANs.
usedPorts	Used ports.
name	Name of the port profile.
vlans	Number of associated VLANs.
status	Status of the port profile.
mode	Mode of the port profile (access, trunk).
maxPorts	Maximum number of ports allowed per port profile.
type	Type of port profile (vEthernet, Ethernet).

Get a List of Cisco Nexus 1000V Port Profiles on a Specific Module

Object Locator

[/”api/n1k/vem/<module number>/port-profile”]

Description

Retrieves a list of the Cisco Nexus 1000V port profiles in use on a specific module.

Response Sample

```
<set name="port-profile_set">
    <instance name="1" uri="/api/n1k/vem/3/port-profile/1">
        <properties>
            <minPorts>1</minPorts>
            <systemVlans>231</systemVlans>
            <usedPorts>1</usedPorts>
            <name>n1kv-pp-vmk0</name>
            <vlans>231</vlans>
            <status>1</status>
            <mode>access</mode>
            <maxPorts>32</maxPorts>
            <type>Vethernet</type>
        </properties>
    </instance>
</set>
```

Response Description

See the description for [/api/n1k/port-profile].

Get a List of Cisco Nexus 1000V vNICs in Use on a Specific Module

Object Locator

["/api/n1k/vem/<module no>/vnic/<vnic number>"]

Description

Retrieves a list of Cisco Nexus 1000V virtual ports in use on a specific module.

Response Sample

```
<set name="vnic_set">
    <instance name="Vethernet5" uri="/api/n1k/vem/3/vnic/Vethernet5">
        <properties>
            <mac>0050.56ba.58bc</mac>
            <dvport>DVPort65</dvport>
            <adapter>Net Adapter 1</adapter>
            <hostIP>172.23.231.192</hostIP>
            <vlans>231</vlans>
            <portGroup>n1kv-system-control</portGroup>
            <status>up</status>
            <module>3</module>
            <vm></module>
            <vnic>Vethernet5</vnic>
        </properties>
    </instance>
</set>
```

Response Description

See the description for [/api/n1k/vnic].

Get a List of Cisco Nexus 1000V Uplink Ports In Use On a Specific Module

Object Locator

["/api/n1k/vem/<module number>/uplink"]

Description

Retrieves a list of uplink ports in use on a specific module and related information.

Response Sample

```
<set name="uplink_set">
    <instance name="Ethernet3/8" uri="/api/n1k/vem/3/uplink/Ethernet3%2F8">
        <properties>
            <module>3</module>
            <portChannelType>Eth</portChannelType>
            <packetsTx>33077</packetsTx>
            <mtu>1500</mtu>
            <cdpPort>GigabitEthernet3/39</cdpPort>
            <port>Ethernet3/8</port>
            <status>up</status>
            <mode>trunk</mode>
            <vlans>231</vlans>
            <portChannel>1</portChannel>
            <cdpNativeVlan>231</cdpNativeVlan>
            <portChannelMembers>Ethernet3/8</portChannelMembers>
            <ethernet>Ethernet</ethernet>
            <packetsRx>235849</packetsRx>
            <cdpSwitch>sfish-6k-I9</cdpSwitch>
            <portProfile>n1kv-uplink0</portProfile>
            <speed>1000 Mb/s</speed>
        </properties>
    </instance>
</set>
```

Response Description

See the description for [/api/n1k/uplink].

Get a List of Cisco Nexus 1000V VSEM Details

Object Locator

["/api/n1k/hyper-v/vsem-system-info"]

Description

Retrieves information that is associated with the Virtual Switch Extension Module (VSEM) object. For any external switch device managed by the Virtual Machine Manager (VMM), the VMM associates it to a VSEM object.

Response Sample

```
<instance name="vsem-system-info" uri="/api/n1k/hyper-v/vsem-system-info">
    <properties>
        <description>Cisco Systems Nexus 1000V</description>
        <model>Nexus 1000V</model><id></model>
        <manufacturer>Cisco Systems</manufacturer>
        <name>Nexus 1000V Chassis version 5.2(1)SM1(5.1) [build
          5.2(1)SM1(5.0.128)|build 5.2(1)SM1(5.0.128)]</name>
        <version>1.0</version>
        <id>277cebaa-5c64-1336-a9d5-60965f468a4c</id>
        <vendorId>{55ca4f11-f549-4440-a489-e7337f3a6b73}</vendorId>
    </properties>
</instance>
```

Response Description

Property	Description
description	VSEM description.
model	Model of the VSEM.
manufacturer	Manufacturer name.
name	User-readable name for a VSEM instance.
version	VSEM version.
id	VSEM ID.
vendorId	Vendor ID.

Get a List of Cisco Nexus 1000V Switch Extensions

Object Locator

["/api/n1k/hyper-v/switch-extension-info"]

Description

Retrieves the VSM information needed by VMM to associate it to a switch extension. A VSEM can contain one or more switch extensions. For the Cisco Nexus 1000V, a VSEM can contain only one switch extension.

Response Sample

```
<instance url="/api/n1k/hyper-v/switch-extension-info">
    <properties>
        <drivernetcfginstanceid>9C8ED422-F33A-4F34-B771-E8B8D0539FD3
        </drivernetcfginstanceid>
        <name>hyperv-vsm-1</name>
        <opdata>data-version</opdata>
        <maxVersion>5.2.128</maxVersion>
        <minVersion>105.100.0000.0000</minVersion>
        <extensionType>Forwarding</extensionType>
        <isSwitchTeamSupported>true</isSwitchTeamSupported
        <switchExtensionFeatureConfigId>2ABD62F9-0E77-4E4C-B7B0-B2DBAF9B7CBB
        </switchExtensionFeatureConfigId>>
        <maxNumberOfPorts>16000</maxNumberOfPorts>
        <mandatoryFeatureId>2ABD62F9-0E77-4E4C-B7B0-B2DBAF9B7CBB
        </mandatoryFeatureId>
        <maxNumberOfPortsPerHost>216</maxNumberOfPortsPerHost>
        <isChildOfWFPSwitchExtension>false</isChildOfWFPSwitchExtension>
    </properties> 
```

```
</instance>
```

Response Description

Property	Description
drivernetcfginstanceid	Unique ID of the switch extension driver.
name	User-friendly name for the switch extension information.
opdata	Opaque data.
id	Unique ID of the switch extension information.
maxVersion	Maximum version of the switch extension driver that is supported.
minVersion	Minimum version of the switch extension driver that is supported.
extensionType	Extension type of the Nexus 1000V switch extension driver. The Nexus 1000V is a Forwarding extension.
isSwitchTeamSupported	Whether the switch supports Teaming. For the Cisco Nexus 1000V, the answer is Yes.
maxNumberOfPorts	Maximum number of ports that can be created.
mandatoryFeatureId	Mandatory feature ID. This is not set for a Cisco Nexus 1000V.
maxNumberOfPortsPerHost	Maximum number of ports per host that can be created on a logical switch.
isChildOfWFPSwitchExtension	Not set for a Cisco Nexus 1000V.

Get a List of Cisco Nexus 1000V Logical Networks

Object Locator

[**"/api/n1k/logical-net**work"] [writeable]

Description

Retrieves a list of logical networks. This function represents a logical network that spans across multiple sites represented by multiple subnets.

Response Sample

```
<set name="logical_network_set">
    <instance name="LN1" url="/api/n1k/logical-network">
        <properties>
            <name>LN1</name>
            <description>LN1</description>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description	Writeable?
name	User field name for a logical network.	No
description	Description of a logical network.	Yes

Get a List of Cisco Nexus 1000V Network Segment Pools

Object Locator

["/api/n1k/network-segment-pool"] [writeable]

Description

Retrieves a list of network segment pools. The network segment pools contain one or more network segments that represent a logical network in a location. This fuunction is equivalent to the VMM network segment pool.

Response Sample

```
<set name="network_segment_pool_set">
    <instance name="my-network-segment-pool" url="/api/n1k/network-segment-pool">
        <properties>
            <name>my-network-segment-pool</name>
            <logicalNetwork>my-logical-network</logicalNetwork>
            <id>a3e7d0b7-98ac-44f7-89ad-0eaa9675d753</id>
            <maximumNetworkSegmentsPerVMNetwork>2000</maximumNetworkSegmentsPerVMNetwork>
            <supportsVMNetoworkProvisioning>true</supportsVMNetoworkProvisioning>
            <supportsIpPool>true</supportsIpPool>
            <intraPortCommunication>true</intraPortCommunication>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description	Writeable?
name	Username for the fabric network.	No
logicalNetwork	Fabric network name.	Yes
id	Unique ID of the network segment pool.	Yes
maximumNetworkSegmentsPerVMNetwork	Maximum number of network segments that can belong to a network segment.	Yes
supportsVMNetworkProvisioning	Whether network segment provisioning is supported.	Yes
supportsIpPool	Network segments in this pool that can have an associated IP pool.	Yes
maximumVMNetworkDefinitionsPerVMNetwork	Maximum network segment definitions per network segment.	Yes
intraPortCommunication	Whether intraport communication exists.	Yes

Get a List of Cisco Nexus 1000V IP Address Pools

Object Locator

[“/api/n1k/ip-pool-template”] [writeable]

Description

Retrieves the Layer-3 information associated with the Layer-2 network. Every network segment is associated with an IP address pool.

Response Sample

```
<set name="ip_address_pool_set">
    <instance name="ip-pool-template" url="api/n1k/ip-pooltemplate">
        <properties>
            <netbt>false</netbt>
            <description/>
            <addressRangeStart>1.1.1.2</addressRangeStart>
            <dhcp>true</dhcp>
            <dnsSuffixList>cisco.com<dnsSuffixList>
            <addressFamily>IPv4</addressFamily>
            <dnsServersListList>1.1.1.3</dnsServersListList>
            <ipAddressSubnet>255.255.255.0</ipAddressSubnet>
            <addressRangeEnd>1.1.1.100</addressRangeEnd>
            <networkAddress>1.1.1.1</networkAddress>
            <name>ip-pool-template</name>
            <gateway>1.1.1.1</gateway>
            <netbiosServersList>1.1.1.99</netbiosServersList>
            <reservedIpList>1.1.1.50</reservedIpList>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description	Writeable?
description	Description of an IP address pool.	Yes
dhcp	Whether the network is DHCP-supported.	Yes
dnsSuffixList	DNS suffix.	Yes
addressRangeStart	Start of the IP address range.	Yes
addressRangeEnd	End of the IP address range.	Yes
ipAddressSubnet	IP address subnet.	Yes
winServerList	List of IP addresses of WINServer system in order of use.	Yes
name	IP pool name.	No
gateway	Network gateways.	Yes
netbios	Whether NetBIOS is enabled.	Yes
reservedIpList	List of static IP addresses excluded from allocation by VMM.	Yes
dnsServerList	IP addresses of DNS servers in order of use.	Yes
addressFamily	Family IP address.	Yes

Get a List of Cisco Nexus 1000V Network Segments

Object Locator

[“/api/n1k/network-segment”] [writeable]

Description

Retrieves a list of network segments. A network segment represents a subnet.

```
    <set name="network_segment_set">
    <instance name="my-network-segment-secondary-101" url="/api/n1k/network-segment">
        <properties>
            <description>My secondary (101) network segment</description>
            <ipPoolId>d4fe3b3a-8ade-4fd0-9e3d-0af43b760c1a</ipPoolId>
            <id>21e1dbbe-7fb4-456c-a91b-8c66ff33792b</id>
            <vmNetworkId>5b602e01-58c8-4b48-a3b8-9d66c5dac5d9</vmNetworkId>
            <segmentType>VLAN</segmentType>
            <networkSegmentPool>my-network-segment-pool</networkSegmentPool>
            <name>joe-network-segment-secondary-101</name>
            <vmNetwork>my-network-segment-secondary-101</vmNetwork>
            <vlan>0</vlan>
            <ipPoolName>joe-ip-pool-template</ipPoolName>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description	Writeable?
description	Name given to network segment pool.	No
ipPoolId	Unique ID of the IP pool instance.	Yes
id	Unique ID of the network segment.	Yes
vmNetworkId	Unique ID of network segment.	Yes
segmentType	Type of segment.	Yes
networkSegmentPool	Network segment pool that this network segment is a member of.	Yes
name	Name of network segment.	Yes
vmNetwork	Network segment object name.	Yes
vlan	Associated VLAN.	Yes
ipPoolName	Available IP pool template name.	Yes

Get a List of Cisco Nexus 1000V VM Networks

Object Locator

["/api/n1k/hyper-v/vm-network"] [writeable]

Description

Retrieves a list of virtual machine (VM) networks. A network segment can contain one or more network segments. For VLAN-based networks, a network segment can contain only one network segment.

Response Sample

```
<set name="vm_network_set">
    <instance name="my-network-segment-access-110" url="/api/n1k/hyper-v/vm-network">
        <properties>
            <id>26735817-8b5f-4a84-94e8-da72aee20ad5</id>
            <networkSegment>my-network-segment-access-110</networkSegment>
            <name>joe-network-segment-access-110</name>
            <networkSegmentPool>my-network-segment-pool</networkSegmentPool>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description	Writeable?
id	Unique ID of the network segment.	Yes
networkSegment	User-friendly name of the network segment.	Yes
name	User-friendly name of the network segment.	No
networkSegmentPool	Network segment pool.	Yes

Get a List of Cisco Nexus 1000V Virtual Port Profiles

Object Locator

["/api/**n1k**/virtual-port-profile"]

Description

Retrieves a list of virtual port profiles. A virtual port profile is a port profile that can be attached to a virtual interface.

Response Sample

```
<set name="virtual_port_profile_set">
    <instance name="veth-pp" url="/api/n1k/virtual-port-profile">
        <properties>
            <state>enabled</state>
            <type>vethernet</type>
            <name>veth-pp</name>
            <id>4b87bc57-e686-4296-8720-92736aecd95b</id>
            <maxNumberOfPortsPerHost>216</maxNumberOfPortsPerHost>
            <maxPorts>32</maxPorts>
            <switchId>86e13b66-ba94-4190-9e5d-e2e43c9ec1cd</switchId>
        <properties>
    </instance>
</set>
```

Response Description

Property	Description
state	State of the port profile.
type	Type of port profile.
name	User-friendly profile name.
id	Unique profile ID.
maxNumberOfPortsPerHost	Maximum number of ports per host.
maxPorts	Port capacity.
switchId	ID of the switch extension to which to publish this port profile.

Get a List of Cisco Nexus 1000V Uplink Port Profiles

Object Locator

["/api/n1k/uplink-port-profile"]

Description

Retrieves a list of uplink port profiles. An uplink port profile is a port profile that can be attached to a physical interface.

Response Sample

```
<set name="uplink-port-profile_set">
    <instance name="UPP1" url="/api/n1k/uplink-port-profile">
        <properties>
            <switchId>86e13b66-ba94-4190-9e5d-e2e43c9ec1cd</switchId>
```

```
            <name>UPP1</name>
            <id>7978f13c-70ad-4ecd-peec-51c8027ef629</id>
            <maxPorts>32</maxPorts>
            <networkSegmentPool>nsp1</networkSegmentPool>
        </properties>
    </instance>
</set>
```

Response Description

Property	Description
switchId	ID of the switch extension on which to publish this port profile.
name	User-friendly profile name.
id	Unique profile ID.
maxPorts	Port capacity.
networkSegmentPool	Network segment pool.