



Troubleshooting vPath and vServices

This chapter includes the following sections:

- [VNS Agent, page 3-1](#)
- [Using vPath Ping to Determine Connectivity, page 3-2](#)

See the *Cisco Virtual Security Gateway for Microsoft Hyper-V Troubleshooting Guide, Release 5.2(1)VSG2(1.1a)* for more information on troubleshooting VSG.

VNS Agent

Virtual Network Service (VNS) agent-related event logs are maintained on the Virtual Supervisor Module (VSM), not on the Cisco VSG.

This section includes the following topics:

- [Core Module, page 3-1](#)
- [VPath Module, page 3-1](#)

Core Module

Core events are those events that are related to port attach, port detach, Internet Protocol Database (IPDB), and to port-profile CLI.

This example shows how to enable/disable error messages for the vns_agent core module:

```
vsm# event-log vns-agent core-error [terminal] ----->enable messages to the terminal
vsm# no event-log vns-agent core-error [terminal] ----->disable messages to the terminal
```

This example shows how to enable/disable informational messages for the vns_agent core module:

```
vsm# event-log vns-agent core-info [terminal] ----->enable messages to the terminal
vsm# no event-log vns-agent core-info [terminal] ----->disable messages to the terminal
```

VPath Module

Because the vPath module works based on core-module events, you should always enable core module event logs before you enable the vPath module events.

This example shows how to enable/disable error messages for the vns_agent vPath module:

```
vsm# event-log vns-agent vpath-error [terminal] ----->enable messages to the terminal
vsm# no event-log vns-agent vpath-error [terminal] ----->disable messages to the terminal
```

This example shows how to enable/disable informational messages for the vns_agent vPath module:

```
vsm# event-log vns-agent vpath-info [terminal] ----->enable messages to the terminal
vsm# no event-log vns-agent vpath-info [terminal] ----->disable messages to the terminal
```

Using vPath Ping to Determine Connectivity

You can use the vpath ping command to determine the connectivity between the Cisco VSG and the VEM.

This example shows how to ping the Cisco VSG connections and if they are reachable:

```
VSM-1# ping vsn all src-module all
ping vsn 106.1.1.1 vlan 0 from module 3 5, seq=0 timeout=1-sec
  module(used) : 3(156) 5(160)
ping vsn 110.1.1.1 vlan 0 from module 3 5, seq=0 timeout=1-sec
  module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 0 from module 3 5, seq=1 timeout=1-sec
  module(used) : 3(230) 5(151)
ping vsn 110.1.1.1 vlan 0 from module 3 5, seq=1 timeout=1-sec
  module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 0 from module 3 5, seq=2 timeout=1-sec
  module(used) : 3(239) 5(131)
ping vsn 110.1.1.1 vlan 0 from module 3 5, seq=2 timeout=1-sec
  module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 0 from module 3 5, seq=3 timeout=1-sec
  module(used) : 3(248) 5(153)
ping vsn 110.1.1.1 vlan 0 from module 3 5, seq=3 timeout=1-sec
  module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 0 from module 3 5, seq=4 timeout=1-sec
  module(used) : 3(259) 5(126)
ping vsn 110.1.1.1 vlan 0 from module 3 5, seq=4 timeout=1-sec
  module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)
```

This example shows how to display VSN ping options:

```
VSM-1# ping vsn ?
  all    All VSNS associated to VMs
  ip     IP Address
```

This example shows how to display VSN ping options for all source modules:

```
VSM-1# ping vsn all src-module ?
<3-66>  Module number
  all    All modules in VSM
  vpath-all All modules having VMs associated to VSNS
```

This example shows how to set up a ping for all source modules from a specified IP address:

```
VSM-1# ping vsn ip 10.1.1.60 src-module all
ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=0 timeout=1-sec
  module(used) : 4(301) 5(236)
  module(failed) : 7(VSN ARP not resolved)

ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=1 timeout=1-sec
  module(used) : 4(241) 5(138) 7(270)

ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=2 timeout=1-sec
  module(used) : 4(230) 5(155) 7(256)
```

```
ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=3 timeout=1-sec
  module(usec)   :  4(250)  5(154)  7(284)
```

```
ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=4 timeout=1-sec
  module(usec)   :  4(231)  5(170)  7(193)
```

This example shows to set up a ping for all vPath source modules for a specified IP address:

```
VSM-1# ping vsn ip 10.1.1.60 src-module vpath-all
ping vsn 10.1.1.60 vlan 0 from module 4 5, seq=0 timeout=1-sec
  module(usec)   :  4(223)  5(247)
```

```
ping vsn 10.1.1.60 vlan 0 from module 4 5, seq=1 timeout=1-sec
  module(usec)   :  4(206)  5(167)
```

```
ping vsn 10.1.1.60 vlan 0 from module 4 5, seq=2 timeout=1-sec
  module(usec)   :  4(241)  5(169)
```

This example shows how to set up a ping for all source modules of a specified IP address with a time-out and a count:

```
VSM-1# ping vsn ip 10.1.1.60 src-module all timeout 2 count 3
ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=0 timeout=2-sec
  module(usec)   :  4(444)  5(238)  7(394)
```

```
ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=1 timeout=2-sec
  module(usec)   :  4(259)  5(154)  7(225)
```

```
ping vsn 10.1.1.60 vlan 0 from module 4 5 7, seq=2 timeout=2-sec
  module(usec)   :  4(227)  5(184)  7(216)
```

