



## CHAPTER 9

# Port Profiles

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This chapter describes how to identify and resolve problems with port profiles and includes the following topics:

- [Information About Port Profiles, page 9-1](#)
- [Problems with Port Profiles, page 9-2](#)
- [Port Profile Logs, page 9-6](#)
- [Port Profile Troubleshooting Commands, page 9-6](#)

## Information About Port Profiles

Port profiles are used to configure interfaces. A port profile can be assigned to multiple interfaces giving them all the same configuration. Changes to the port profile are propagated automatically to the configuration of any interface assigned to it.

In the VMware vCenter Server, a port profile is represented as a port group. The vEthernet or Ethernet interfaces are assigned in vCenter Server to a port profile for:

- Defining port configuration by policy.
- Applying a single policy across a large number of ports.
- Supporting both vEthernet and Ethernet ports.

vEthernet port profiles can be assigned by the server administrator to physical ports (a VMNIC or a PNIC). Port profiles not configured as vEthernet can be assigned to a VM virtual port.



### Note

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While manual interface configuration overrides that of the port profile, it is not recommended. Manual interface configuration is only used, for example, to quickly test a change or allow a port to be disabled without having to change the inherited port profile.

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For more information about assigning port profiles to physical or virtual ports, see your VMware documentation.

To verify that the profiles are assigned as expected to physical or virtual ports, use the following show commands:

- **show port-profile virtual usage**
- **show running-config interface *interface-id***

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To verify port profile inheritance, use the following command:

- **show running-config interface** *interface-id*

**Note**

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Inherited port profiles cannot be changed or removed from an interface from the Cisco Nexus 1000V CLI. This can only be done from vCenter Server.

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**Note**

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Inherited port profiles are automatically configured by the Cisco Nexus 1000V when the ports are attached on the hosts. This is done by matching up the VMware port group assigned by the system administrator with the port profile that created it.

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For detailed information about port profiles, see the *Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SV2(1.1)*.

## Problems with Port Profiles

The following are symptoms, possible causes, and solutions for problems with port profiles.

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**Table 9-1** Problems with Port Profiles

Symptom	Possible Causes	Solution
<p>You do not see the port group on vCenter Server or the following message is displayed:</p> <pre>Warning: Operation succeeded locally but update failed on vCenter server. Please check if you are connected to vCenter Server.</pre>	<p>The connection to vCenter server is down.</p>	<ol style="list-style-type: none"> <li>1. Verify that the connection to the vCenter Server is Enabled and Connected. <b>show svcs connections</b></li> <li>2. Reconnect to vCenter server.  For detailed instructions, see the <i>Connecting to vCenter Server</i> procedure in the <i>Cisco Nexus 1000V System Management Configuration Guide, Release 4.2(1)SV2(1.1)</i>.</li> </ol>
	<p>The domain configuration was not successfully pushed to vCenter server.</p>	<ol style="list-style-type: none"> <li>1. Verify that the domain configuration was successfully pushed to vCenter Server. <b>show svcs domain</b></li> <li>2. Fix any problems with the domain configuration.  For information about configuring the domain, see the <i>Cisco Nexus 1000V System Management Configuration Guide, Release 4.2(1)SV2(1.1)</i>.</li> </ol>
	<p>The port profile is configured incorrectly.</p>	<ol style="list-style-type: none"> <li>1. Verify that the <b>vmware port-group</b> is configured for the port profile and that the port profile is enabled. <b>show port profile name name</b></li> <li>2. Fix the port profile using the procedures in the <i>Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SV2(1.1)</i>.</li> </ol>
<p>A port configuration is not applied to an interface.</p>	<p>Management connectivity between the vCenter server and the VSM has prevented the port profile assignment from being sent or received.</p>	<ol style="list-style-type: none"> <li>1. Display the port profile usage by interface. <b>show port-profile virtual usage</b></li> <li>2. Verify that the interface level configuration did not overwrite the port profile configuration. <b>show run</b> <b>show port-profile expand-interface</b></li> <li>3. If the show command output is incorrect, then on vCenter server, reassign the port group to the interface.</li> </ol>

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**Table 9-1** Problems with Port Profiles (continued)

Symptom	Possible Causes	Solution
<p>An Ethernet interface or vEthernet interface is administratively down.</p> <p>A system message similar to the following is logged:</p> <pre>%VMS-3-DVPG_NICS_MOVED: '1' nics have been moved from port-group 'Access483' to 'Unused_Or_Quarantine_Veth'.</pre>	<p>The interface is inheriting a quarantined port profile.</p> <p>A configuration was not saved prior to rebooting the VSM, the configuration was lost, and the interfaces were moved to one of the following port profiles:</p> <ul style="list-style-type: none"> <li>Unused_Or_Quarantine_Uplink for ethernet types</li> <li>Unused_Or_Quarantine_Veth for Vethernet types</li> </ul>	<ol style="list-style-type: none"> <li>Verify the port profile-to-interface mapping. <b>show port-profile virtual usage</b></li> <li>Reassign the VMNIC or PNIC to a non-quarantined port group to enable the interface to be up and forwarding traffic. This requires changing the port group on vCenter Server.</li> </ol>
<p>After applying a port profile, an online interface is quarantined.</p> <p>A system message similar to the following is logged:</p> <pre>%PORT-PROFILE-2-INTERFACE_QUARANTINED: Interface Ethernet3/3 has been quarantined due to Cache Overrun</pre>	<p>The assigned port profile is incorrectly configured. The incorrect command fails when the port profile is applied to an interface.</p> <p>Although a specific command fails, the port profile-to-interface mapping is created.</p>	<ol style="list-style-type: none"> <li>Identify the command that failed. <b>show accounting log   grep FAILURE</b></li> <li>Verify the interface is quarantined. <b>show port-profile sync-status</b></li> <li>Verify the port profile-to-interface mapping. <b>show port-profile virtual usage</b></li> <li>Fix the error in the port profile using the procedures in the <i>Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SV2(1.1)</i>.</li> <li>Bring the interface out of quarantine. <b>no shutdown</b> The interface comes back online.</li> <li>Return shutdown control to the port-profile. <b>default shutdown</b></li> </ol>

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**Table 9-1** Problems with Port Profiles (continued)

Symptom	Possible Causes	Solution
<p>After modifying a port profile, an assigned offline interface is quarantined.</p> <p>A system message similar to the following is logged:</p> <pre>%PORT-PROFILE-2-INTERFACE_QUARANTINED: Interface Ethernet4/3 has been quarantined due to Cache Overrun</pre>	<p>The interface has been removed from the DVS.</p>	<p>To bring the interface back online, use the <a href="#">“Recovering a Quarantined Offline Interface” procedure on page 9-5</a>.</p>
<p>A module and all associated interfaces are offline.</p> <p>A system message similar to the following is logged:</p> <pre>2011 Mar 2 22:28:50 n1000v %VEM_MGR-2-VEM_MGR_REMOVE_NO_HB: Removing VEM 3 (heartbeats lost) 2011 Mar 2 22:29:00 n1000v %VEM_MGR-2-MOD_OFFLINE: Module 3 is offline</pre>	<p>The interface carrying system VLANs for the module has gone down for one of the following reasons:</p> <ul style="list-style-type: none"> <li>• System interfaces were removed from the DVS on the vCenter Server.</li> <li>• The module was powered down.</li> <li>• There is general loss of connectivity to the module.</li> </ul>	<p>Follow VEM troubleshooting guide to bring module back online</p> <p>To bring the interface back online, use the <a href="#">“Recovering a Quarantined Offline Interface” procedure on page 9-5</a>.</p>

## Recovering a Quarantined Offline Interface

You can use this procedure to recover and bring online an interface that is offline and has been quarantined.

### BEFORE YOU BEGIN

Before beginning this procedure, you must know or do the following:

- You are logged in to the CLI in EXEC mode.

### DETAILED STEPS

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- Step 1** Verify the interface has is quarantined. The interface appears in the show command output.
- show port-profile sync-status**
- Step 2** On the vCenter server, add or associate the PNIC to a port profile (either the original port profile or a different port profile).
- The interface comes back online.
- Step 3** Verify that the interface has come back online.
- show interface brief**
- Step 4** Verify the port profile-to-interface mapping.
- show port-profile virtual usage**

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**Step 5** Verify the interface has come out of quarantine automatically. The interface should no longer appear in the show command output.

**show port-profile sync-status**

**Step 6** Return shutdown control to the port-profile.

**default shutdown**

## Port Profile Logs

To enable and collect detailed logs for port profiles, use the following commands:

- **debug port-profile trace**
- **debug port-profile error**
- **debug port-profile all**
- **debug msp all**

After enabling the debug log, the results of any subsequent port profile configuration are captured in the log file.

## Port Profile Troubleshooting Commands

You can use the commands in this section to troubleshoot problems related to port profiles.

Command	Purpose
<b>show port-profile</b>	Displays the port profile configuration. See <a href="#">Example 9-1 on page 9-7</a> .
<b>show port-profile name</b> <i>name</i>	Displays the configuration for a named port profile. See <a href="#">Example 9-2 on page 9-8</a> .
<b>show port-profile brief</b>	Displays tabular view of all configured port profiles. See <a href="#">Example 9-3 on page 9-9</a> .
<b>show port-profile expand-interface</b>	Displays all configured port profiles expanded to include the interfaces assigned to them. See <a href="#">Example 9-4 on page 9-9</a> .
<b>show port-profile expand-interface name</b> <i>name</i>	Displays a named port profile expanded to include the interfaces assigned to it. See <a href="#">Example 9-5 on page 9-11</a> .

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Command	Purpose
<code>show port-profile-role [name port-profile-role-name]</code>	Displays the port profile role configuration, including role names, descriptions, assigned users, and assigned groups.  See <a href="#">Example 9-7 on page 9-12</a> .
<code>show running-config port-profile [profile-name]</code>	Displays the port profile configuration.  See <a href="#">Example 9-6 on page 9-12</a> .
<code>show port-profile-role</code>	Displays the port profile role configuration.  See <a href="#">Example 9-7 on page 9-12</a> .
<code>show port-profile-role users</code>	Displays available users and groups.  See <a href="#">Example 9-8 on page 9-12</a> .
<code>show port-profile sync-status [interface if-name]</code>	Displays interfaces that are out of sync with the port profile.  See <a href="#">Example 9-9 on page 9-12</a> .
<code>show port-profile virtual usage [name profile-name]</code>	Displays the port profile usage by interface.  See <a href="#">Example 9-10 on page 9-13</a> .
<code>show msp internal info</code>	Displays port profile mappings on vCenter server and configured roles.  See <a href="#">Example 9-11 on page 9-13</a> .
<code>show system internal port-profile profile-fsm</code>	Displays port profile activity on the Cisco Nexus 1000V, including transitions such as inherits and configurations. If the following displays, then all inherits are processed:  Curr state: [PPM_PROFILE_ST_SIDLE]  See <a href="#">Example 9-12 on page 9-17</a> .
<code>show system internal port-profile event-history msgs</code>	Displays the messages logged about port profile events within the Cisco Nexus 1000V.  See <a href="#">Example 9-13 on page 9-17</a> .

For detailed information about show command output, see the *Cisco Nexus 1000V Command Reference, Release 4.2(1)SV2(1.1)*.

## EXAMPLES

### Example 9-1 show port-profile

```
n1000v# show port-profile
port-profile vEthProfile1
  description:
  type: vethernet
  status: disabled
  capability l3control: no
  pinning control-vlan: -
  pinning packet-vlan: -
  system vlans: none
```

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```

port-group:
max ports: 32
inherit:
config attributes:
  channel-group auto mode on mac-pinning
evaluated config attributes:
  channel-group auto mode on mac-pinning
assigned interfaces:
port-profile vEthProfile2
description:
type: vethernet
status: disabled
capability l3control: no
pinning control-vlan: -
pinning packet-vlan: -
system vlans: none
port-group:
max ports: 32
inherit:
config attributes:
  channel-group auto mode on sub-group cdp
evaluated config attributes:
  channel-group auto mode on sub-group cdp
assigned interfaces:
port-profile vEthProfile3
description:
type: vethernet
status: disabled
capability l3control: no
pinning control-vlan: -
pinning packet-vlan: -
system vlans: none
port-group:
max ports: 32
inherit:
config attributes:
  channel-group auto mode on sub-group manual
evaluated config attributes:
  channel-group auto mode on sub-group manual
assigned interfaces:n1000v#

```

**Example 9-2 show port-profile name**

```

n1000v# show port-profile name vEthProfile3
port-profile vEthProfile3
description:
type: vethernet
status: disabled
capability l3control: no
pinning control-vlan: -
pinning packet-vlan: -
system vlans: none
port-group:
max ports: 32
inherit:
config attributes:
  channel-group auto mode on sub-group manual
evaluated config attributes:
  channel-group auto mode on sub-group manual
assigned interfaces:
n1000v#

```



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**Example 9-3 show port-profile brief**

```
n1000v# show port-profile brief
-----
Port Profile                Profile Type   Profile State  Conf Items  Eval Items  Assigned Intfs  Child Profs
-----
AccessProf                  Vethernet 0         0         0         0         0         0         0
PP1027                      Vethernet 1         0         0         0         0         0         0
PP1028                      Vethernet 1         0         0         0         0         0         0
Unused_Or_Quarantine_Uplink Ethernet 1         1         1         0         0         0         0
Unused_Or_Quarantine_Veth  Vethernet 1         1         1         0         0         0         0
accessprof                  Vethernet 0         3         3         0         0         0         0
portp1                      Vethernet 0         0         0         0         0         0         0
-----
Profile   Total
Type      Intfs
-----
Vethernet 8
Ethernet 10
n1000v#
```

**Example 9-4 show port-profile expand-interface**

```
n1000v# show port-profile expand-interface
port-profile AccessProf
  id: 1
  capability: 0x0
  state: 0x0
  type: 0x0
  system vlan mode: -
  system vlans:
  port-binding: static
  bind_opts: 0
  max ports: 32
  min ports: 32
  used ports: 0
  vmware config information
    pg name: AccessProf
    dvs: (ignore)
    reserved ports: 32
  port-profile role:
  alias information:
port-profile PP1027
  id: 4
  capability: 0x0
  state: 0x1
  type: 0x1
  system vlan mode: -
  system vlans:
  port-binding: static
  bind_opts: 1
  max ports: 64
  min ports: 32
  used ports: 0
  vmware config information
    pg name: PP1027
    dvs: (ignore)
    reserved ports: 16
  port-profile role:
  alias information:
    pg id: PP1027
    dvs uuid:
```

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```

    type: 1
    pg id: dvportgroup-3180
    dvs uuid: 12 98 0e 50 6b 78 6f c5-74 af b2 3a 16 6e 45 10
    type: 2
port-profile PP1028
  id: 3
  capability: 0x0
  state: 0x1
  type: 0x1
  system vlan mode: -
  system vlans:
  port-binding: dynamic
  bind_opts: 1
  max ports: 64
  min ports: 32
  used ports: 0
  vmware config information
    pg name: PP1028
    dvs: (ignore)
    reserved ports: 16
  port-profile role:
  alias information:
    pg id: PP1028
    dvs uuid:
    type: 1
    pg id: dvportgroup-3181
    dvs uuid: 12 98 0e 50 6b 78 6f c5-74 af b2 3a 16 6e 45 10
    type: 2
port-profile Unused_Or_Quarantine_Uplink
  id: 6
  capability: 0x1
  state: 0x1
  type: 0x1
  system vlan mode: -
  system vlans:
  port-binding: dynamic
  bind_opts: 1
  max ports: 32
  min ports: 32
  used ports: 0
  vmware config information
    pg name: Unused_Or_Quarantine_Uplink
    dvs: (ignore)
    reserved ports: 0
  port-profile role:
  alias information:
    pg id: Unused_Or_Quarantine_Uplink
    dvs uuid:
    type: 1
    pg id: dvportgroup-3182
    dvs uuid: 12 98 0e 50 6b 78 6f c5-74 af b2 3a 16 6e 45 10
    type: 2
port-profile Unused_Or_Quarantine_Veth
  id: 7
  capability: 0x0
  state: 0x1
  type: 0x1
  system vlan mode: -
  system vlans:
  port-binding: dynamic
  bind_opts: 1
  max ports: 32
  min ports: 32
  used ports: 0

```

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```

vmware config information
  pg name: Unused_Or_Quarantine_Veth
  dvs: (ignore)
  reserved ports: 32
port-profile role:
alias information:
  pg id: Unused_Or_Quarantine_Veth
  dvs uuid:
  type: 1
  pg id: dvportgroup-3183
  dvs uuid: 12 98 0e 50 6b 78 6f c5-74 af b2 3a 16 6e 45 10
  type: 2
port-profile accessprof
  id: 5
  capability: 0x0
  state: 0x0
  type: 0x1
  system vlan mode: -
  system vlans:
  port-binding: dynamic
  bind_opts: 1
  max ports: 32
  min ports: 32
  used ports: 0
  vmware config information
    pg name: accessprof
    dvs: (ignore)
    reserved ports: 32
  port-profile role:
  alias information:
    pg id: accessprof
    dvs uuid:
    type: 1
port-profile portp1
  id: 2
  capability: 0x0
  state: 0x0
  type: 0x0
  system vlan mode: -
  system vlans:
  port-binding: static
  bind_opts: 0
  max ports: 32
  min ports: 32
  used ports: 0
  vmware config information
    pg name: portp1
    dvs: (ignore)
    reserved ports: 32
  port-profile role:
  alias information:
pending binds:
n1000v#

```

**Example 9-5 show port-profile expand-interface name UplinkProfile1**

```

n1000v# show port-profile expand-interface name UplinkProfile1
port-profile EthProfile1
Ethernet2/2
  switchport mode trunk
  switchport trunk allowed vlan 110-119
  no shutdown
n1000v#

```

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**Example 9-6** *show running-config port-profile*

```
n1000v# show running-config port-profile
port-profile type ethernet UplinkProfile1
  description "Profile for critical system ports"
  vmware port-group
  switchport mode access
  switchport access vlan 113
  switchport trunk native vlan 113
  channel-group auto mode on
  no shutdown
port-profile type vethernet vEthProfile2
  vmware port-group
  vmware max-ports 5
  switchport mode trunk
  switchport trunk native vlan 112
  channel-group auto mode on sub-group cdp
  no shutdown
n1000v#
```

**Example 9-7** *show port-profile-role*

```
n1000v# show port-profile-role name adminUser

Name: adminUser
Description: adminOnly
Users:
  hdbaar (user)
Assigned port-profiles:
  allaccess2
n1000v#
```

**Example 9-8** *show port-profile-role users*

```
switch# show port-profile-role users

Groups:
  Administrators
  TestGroupB
Users:
  hdbaar
  fgreen
  suchen
  mariofr
switch#
```

**Example 9-9** *show port-profile sync-status*

```
n1000v# show port-profile sync-status interface ethernet 3/2
Ethernet3/2
  port-profile: uplink
  interface status: quarantine
  sync status: out of sync
  cached commands:
  errors:
    command cache overrun
  recovery steps:
    bring interface online
n1000v#
```

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**Example 9-10 show port-profile virtual usage**

```
n1000v# show port-profile virtual usage
-----
Port Profile          Port          Adapter      Owner
-----
nlkv-uplink0         Po1
                    Eth3/2        vmnic1       localhost.
                    Eth3/3        vmnic2       localhost.
vlan1767              Veth7         Net Adapter 1 all-tool-7
                    Veth8         Net Adapter 1 all-tool-8
aipc1765              Veth4         Net Adapter 1 bl-h-s
inband1766            Veth6         Net Adapter 3 bl-h-s
mgmt1764              Veth5         Net Adapter 2 bl-h-s
vpc-mac-uplink       Po7
                    Eth5/2        vmnic1       localhost.
                    Eth5/3        vmnic2       localhost.
ch-vpc-mac-uplink    Po2
                    Po3
                    Eth4/2        vmnic1       VDANIKLNCOS
                    Eth4/3        vmnic2       VDANIKLNCOS
ch-aipc1765           Veth1         Net Adapter 1 bl-h-p
ch-mgmt1764           Veth2         Net Adapter 2 bl-h-p
ch-inband1766        Veth3         Net Adapter 3 bl-h-p
n1000v#
```

**Example 9-11 show msp internal info**

```
n1000v# show msp internal info
port-profile Access484
  id: 5
  capability: 0x0
  state: 0x1
  type: 0x1
  system vlan mode: -
  system vlans:
  port-binding: static
  max ports: 256
  vmware config information
    pg name: Access484
    dvs: (ignore)
  port-profile role:
  alias information:
    pg id: Access484
    dvs uuid:
      type: 1
      pg id: dvportgroup-3285
      dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
      type: 2
      pg id: dvportgroup-3292
      dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
      type: 2
  port-profile Unused_Or_Quarantine_Uplink
    id: 1
    capability: 0x1
    state: 0x1
    type: 0x1
    system vlan mode: -
    system vlans:
    port-binding: static
    max ports: 32
    vmware config information
      pg name: Unused_Or_Quarantine_Uplink
```

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```

    dvs: (ignore)
port-profile role:
alias information:
  pg id: Unused_Or_Quarantine_Uplink
  dvs uuid:
  type: 1
  pg id: dvportgroup-2444
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
port-profile Unused_Or_Quarantine_Veth
id: 2
capability: 0x0
state: 0x1
type: 0x1
system vlan mode: -
system vlans:
port-binding: static
max ports: 32
vmware config information
  pg name: Unused_Or_Quarantine_Veth
  dvs: (ignore)
port-profile role:
alias information:
  pg id: Unused_Or_Quarantine_Veth
  dvs uuid:
  type: 1
  pg id: dvportgroup-2445
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
port-profile eth-break-deinherit
id: 10
capability: 0x1
state: 0x1
type: 0x1
system vlan mode: -
system vlans:
port-binding: static
max ports: 32
vmware config information
  pg name: eth-break-deinherit
  dvs: (ignore)
port-profile role:
alias information:
  pg id: eth-break-deinherit
  dvs uuid:
  type: 1
  pg id: dvportgroup-3286
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
  pg id: dvportgroup-3293
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
port-profile eth-break-inherit
id: 9
capability: 0x1
state: 0x1
type: 0x1
system vlan mode: -
system vlans:
port-binding: static
max ports: 32
vmware config information
  pg name: eth-break-inherit
  dvs: (ignore)

```

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```
port-profile role:
alias information:
  pg id: eth-break-inherit
  dvs uuid:
  type: 1
  pg id: dvportgroup-3287
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
  pg id: dvportgroup-3294
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
port-profile uplink
id: 3
capability: 0x3
state: 0x1
type: 0x1
system vlan mode: trunk
system vlans: 480-481
port-binding: static
max ports: 32
vmware config information
  pg name: uplink
  dvs: (ignore)
port-profile role:
alias information:
  pg id: uplink
  dvs uuid:
  type: 1
  pg id: dvportgroup-3283
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
port-profile uplink-quar
id: 12
capability: 0x1
state: 0x1
type: 0x1
system vlan mode: -
system vlans:
port-binding: static
max ports: 32
vmware config information
  pg name: uplink-quar
  dvs: (ignore)
port-profile role:
alias information:
  pg id: uplink-quar
  dvs uuid:
  type: 1
  pg id: dvportgroup-3288
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
  pg id: dvportgroup-3295
  dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
  type: 2
port-profile veth-break-deinherit
id: 8
capability: 0x0
state: 0x1
type: 0x1
system vlan mode: -
system vlans:
port-binding: static
max ports: 256
vmware config information
```

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```

    pg name: veth-break-deinherit
    dvs: (ignore)
port-profile role:
alias information:
    pg id: veth-break-deinherit
    dvs uuid:
    type: 1
    pg id: dvportgroup-3289
    dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
    type: 2
    pg id: dvportgroup-3296
    dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
    type: 2
port-profile veth-break-inherit
id: 7
capability: 0x0
state: 0x1
type: 0x1
system vlan mode: -
system vlans:
port-binding: static
max ports: 256
vmware config information
    pg name: veth-break-inherit
    dvs: (ignore)
port-profile role:
alias information:
    pg id: veth-break-inherit
    dvs uuid:
    type: 1
    pg id: dvportgroup-3290
    dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
    type: 2
    pg id: dvportgroup-3297
    dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
    type: 2
port-profile vpc-uplink
id: 6
capability: 0x3
state: 0x1
type: 0x1
system vlan mode: trunk
system vlans: 480-481
port-binding: static
max ports: 32
vmware config information
    pg name: vpc-uplink
    dvs: (ignore)
port-profile role:
alias information:
    pg id: vpc-uplink
    dvs uuid:
    type: 1
    pg id: dvportgroup-3291
    dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
    type: 2
    pg id: dvportgroup-3298
    dvs uuid: 44 dc 3b 50 53 11 b7 ac-ef ed ef 46 ee df c2 d5
    type: 2
pending binds:
port-profile-role adfd
id: 0
desc:
num users: 1

```



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```
group GROUP
n1000v#
```

**Example 9-12 show system internal port-profile profile-fsm**

```
n1000v# show system internal port-profile profile-fsm
>>>>FSM: <PROFILE_FSM:1> has 4 logged transitions<<<<<

1) FSM:<PROFILE_FSM:1> Transition at 856903 usecs after Tue Mar  8 19:11:47 2011
  Previous state: [PPM_PROFILE_ST_SIDLE]
  Triggered event: [PPM_PROFILE_EV_EIF_STATUS_CHANGE]
  Next state: [PPM_PROFILE_ST_SIDLE]

2) FSM:<PROFILE_FSM:1> Transition at 858442 usecs after Tue Mar  8 19:11:47 2011
  Previous state: [PPM_PROFILE_ST_SIDLE]
  Triggered event: [PPM_PROFILE_EV_ELEARN]
  Next state: [PPM_PROFILE_ST_SIF_CREATE]

3) FSM:<PROFILE_FSM:1> Transition at 842710 usecs after Tue Mar  8 19:12:04 2011
  Previous state: [PPM_PROFILE_ST_SIF_CREATE]
  Triggered event: [PPM_PROFILE_EV_EACKNOWLEDGE]
  Next state: [FSM_ST_NO_CHANGE]

4) FSM:<PROFILE_FSM:1> Transition at 873872 usecs after Tue Mar  8 19:12:04 2011
  Previous state: [PPM_PROFILE_ST_SIF_CREATE]
  Triggered event: [PPM_PROFILE_EV_ESUCCESS]
  Next state: [PPM_PROFILE_ST_SIDLE]

  Curr state: [PPM_PROFILE_ST_SIDLE]
n1000v#
```

**Example 9-13 show system internal port-profile event-history msgs**

```
n1000v# show system internal port-profile event-history msgs
1) Event:E_MTS_RX, length:60, at 538337 usecs after Tue Mar  8 19:13:02 2011
  [NOT] Opc:MTS_OPC_IM_IF_CREATED(62467), Id:0X0000B814, Ret:SUCCESS
  Src:0x00000101/175, Dst:0x00000101/0, Flags:None
  HA_SEQNO:0X00000000, RRtoken:0x00000000, Sync:UNKNOWN, Payloadsize:120
  Payload:
  0x0000:  00 00 00 02 00 00 00 02 00 00 00 0c 00 00 00 29

2) Event:E_MTS_RX, length:60, at 515030 usecs after Tue Mar  8 19:13:02 2011
  [NOT] Opc:MTS_OPC_LC_ONLINE(1084), Id:0X0000B7E8, Ret:SUCCESS
  Src:0x00000101/744, Dst:0x00000101/0, Flags:None
  HA_SEQNO:0X00000000, RRtoken:0x00000000, Sync:UNKNOWN, Payloadsize:234
  Payload:
  0x0000:  02 00 00 03 00 00 00 00 00 00 03 02 03 02 00 00

3) Event:E_MTS_RX, length:60, at 624319 usecs after Tue Mar  8 19:12:05 2011
  [NOT] Opc:MTS_OPC_PPM_INTERFACE_UPDATE(152601), Id:0X00003908, Ret:SUCCESS
  Src:0x00000101/489, Dst:0x00000101/0, Flags:None
  HA_SEQNO:0X00000000, RRtoken:0x00000000, Sync:UNKNOWN, Payloadsize:107
  Payload:
  0x0000:  00 00 00 02 00 00 00 02 00 00 00 0c 00 00 00 26

4) Event:E_MTS_RX, length:60, at 624180 usecs after Tue Mar  8 19:12:05 2011
  [NOT] Opc:MTS_OPC_PPM_INTERFACE_UPDATE(152601), Id:0X00003905, Ret:SUCCESS
  Src:0x00000101/489, Dst:0x00000101/0, Flags:None
  HA_SEQNO:0X00000000, RRtoken:0x00000000, Sync:UNKNOWN, Payloadsize:107
  Payload:
  0x0000:  00 00 00 02 00 00 00 02 00 00 00 0c 00 00 00 26
```

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```
5) Event:E_MTS_RX, length:60, at 624041 usecs after Tue Mar  8 19:12:05 2011
   [NOT] Opc:MTS_OPC_PPM_INTERFACE_UPDATE(152601), Id:0X00003903, Ret:SUCCESS
   Src:0x00000101/489, Dst:0x00000101/0, Flags:None
   HA_SEQNO:0X00000000, RRtoken:0x00000000, Sync:UNKNOWN, Payloadsize:107
   Payload:
   0x0000:  00 00 00 02 00 00 00 02 00 00 00 0c 00 00 00 26
   ...
```