



Configuring Port VLAN Mapping

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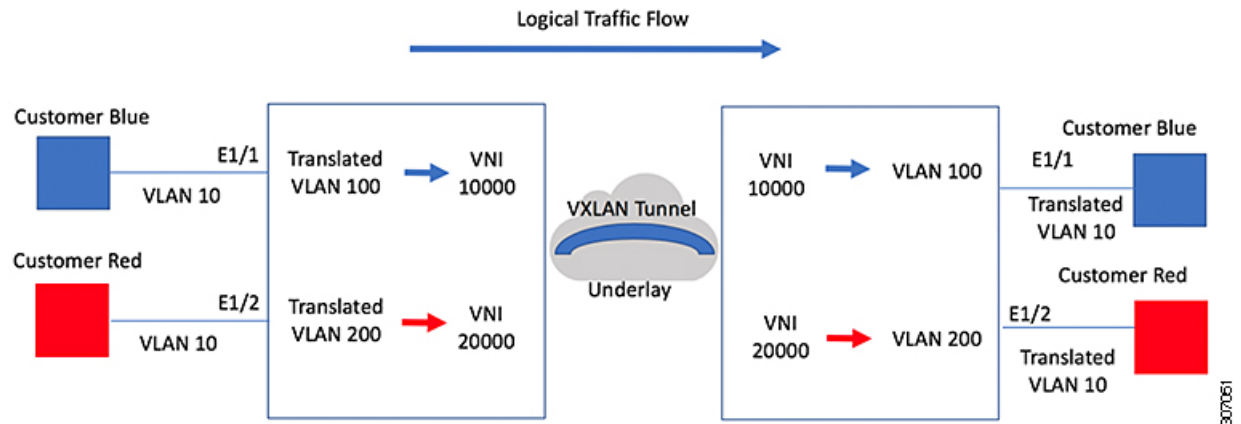
About Translating Incoming VLANs

Sometimes a VLAN translation is required or desired. One such use case is when a service provider has multiple customers connecting to the same physical switch using the same VLAN encapsulation, but they are not and should not be on the same Layer 2 segment. In such cases translating the incoming VLAN to a unique VLAN that is then mapped to a VNI is the right way to extending the segment. In the figure below two customers, Blue and Red are both connecting to the leaf using VLAN 10 as their encapsulation.

Customers Blue and Red should not be on the same VNI. In this example VLAN 10 for Customer Blue (on interface E1/1) is mapped/translated to VLAN 100, and VLAN 10 for customer Red (on interface E1/2) is mapped to VLAN 200. In turn, VLAN 100 is mapped to VNI 10000 and VLAN 200 is mapped to VNI 20000.

On the other leaf, this mapping is applied in reverse. Incoming VXLAN encapsulated traffic on VNI 10000 is mapped to VLAN 100 which in turn is mapped to VLAN 10 on Interface E1/1. VXLAN encapsulated traffic on VNI 20000 is mapped to VLAN 200 which in turn is mapped to VLAN 10 on Interface E1/2.

Figure 1: Logical Traffic Flow



You can configure VLAN translation between the ingress (incoming) VLAN and a local (translated) VLAN on a port. For the traffic arriving on the interface where VLAN translation is enabled, the incoming VLAN is mapped to a translated VLAN that is VXLAN enabled.

On the underlay, this is mapped to a VNI, the inner dot1q is deleted, and switched over to the VXLAN network. On the egress switch, the VNI is mapped to a translated VLAN. On the outgoing interface, where VLAN translation is configured, the traffic is converted to the original VLAN and egressed out. Refer to the VLAN counters on the translated VLAN for the traffic counters and not on the ingress VLAN. Port VLAN (PV) mapping is an access side feature and is supported with both multicast and ingress replication for flood and learn and MP-BGP EVPN mode for VXLAN.

Guidelines and Limitations for Port VLAN Mapping

The following are the guidelines and Limitations for Port VLAN Mapping:

- Support is added for vPC Fabric Peering.
- VLAN translation is supported only on VXLAN enabled VLANs
- The ingress (incoming) VLAN does not need to be configured on the switch as a VLAN. The translated VLAN needs to be configured and a vn-segment mapping given to it. An NVE interface with VNI mapping is essential for the same.
- All Layer 2 source address learning and Layer 2 MAC destination lookup occurs on the translated VLAN. Refer to the VLAN counters on the translated VLAN and not on the ingress (incoming) VLAN.
- Cisco Nexus 9300 and 9500 switches support switching and routing on overlapped VLAN interfaces. Only VLAN-mapping switching is applicable for Cisco Nexus 9300-EX/FX/FX2/FX3 platform switches and Cisco Nexus 9500 with -EX/FX line cards.
- Port VLAN routing is supported on the following platforms:
 - Beginning with Cisco NX-OS Release 7.x, this feature is supported on Cisco Nexus 9300-EX/FX/FX2 platform switches.
 - Beginning with Cisco NX-OS Release 9.2(x), this feature is supported on Cisco Nexus 9300-GX platform switches.

- Beginning with Cisco NX-OS Release 9.3(x), this feature is supported on Cisco Nexus 9300-FX3 platform switches.
- Beginning with Cisco NX-OS Release 10.2(3)F, this feature is supported on the Cisco Nexus 9300-GX2 platform switches.
- Beginning with Cisco NX-OS Release 9.3(3), PV Translation is supported for Cisco Nexus 9300-GX platform switches.
- Beginning with Cisco NX-OS Release 10.2(3)F, PV Translation is supported on the Cisco Nexus 9300-GX2 platform switches.
- On Cisco Nexus 9300 Series switches with NFE ASIC, PV routing is not supported on 40 G ALE ports.
- PV routing supports configuring an SVI on the translated VLAN for flood and learn and BGP EVPN mode for VXLAN.
- When changing a property on a translated VLAN, the port that has a mapping configuration with that VLAN as the translated VLAN, must be flapped to ensure correct behavior. This is applicable only to the following platforms:
 - N9K-C9504 modules
 - N9K-C9508 modules
 - N9K-C9516 modules
 - Nexus 9400 line cards
 - Nexus 9500 line cards
 - Nexus 9600 line cards
 - Nexus 9700-X Cloud Scale line cards
 - Nexus 9600-R and R2 line cards

```

Int eth 1/1
switchport vlan mapping 101 10
.
.
.

/****Deleting vn-segment from vlan 10.****/
/****Adding vn-segment back.****/
/****Flap Eth 1/1 to ensure correct behavior.****/

```

- The following example shows incoming VLAN 10 being mapped to local VLAN 100. Local VLAN 100 will be the one mapped to a VXLAN VNI.

```

interface ethernet1/1
switchport vlan mapping 10 100

```

- The following is an example of overlapping VLAN for PV translation. In the first statement, VLAN-102 is a translated VLAN with VNI mapping. In the second statement, VLAN-102 the VLAN where it is translated to VLAN-103 with VNI mapping.

```

interface ethernet1/1
switchport vlan mapping 101 102
switchport vlan mapping 102 103/

```

- When adding a member to an existing port channel using the force command, the "mapping enable" configuration must be consistent. For example:

```
Int po 101
switchport vlan mapping enable
switchport vlan mapping 101 10
switchport trunk allowed vlan 10

int eth 1/8
/****No configuration****/
```



Note The **switchport vlan mapping enable** command is supported only when the port mode is trunk.

- Port VLAN mapping is not supported on Cisco Nexus 9200 platform switches.
- VLAN mapping helps with VLAN localization to a port, scoping the VLANs per port. A typical use case is in the service provider environment where the service provider leaf switch has different customers with overlapping VLANs that come in on different ports. For example, customer A has VLAN 10 coming in on Eth 1/1 and customer B has VLAN 10 coming in on Eth 2/2.

In this scenario, you can map the customer VLAN to a provider VLAN and map that to a Layer 2 VNI. There is an operational benefit in terminating different customer VLANs and mapping them to the fabric-managed VLANs, L2 VNIs.

- An NVE interface with VNI mapping must be configured for Port VLAN translation to work.
- You should not enable super bridging VLAN in the provider VLAN list of the **system dot1q-tunnel transit vlan id** command. If enabled it will end up in unrecoverable functional and forwarding impacts.
- Port VLAN mapping is not supported on FEX ports.

Configuring Port VLAN Mapping on a Trunk Port

Before you begin

- Ensure that the physical or port channel on which you want to implement VLAN translation is configured as a Layer 2 trunk port.
- Ensure that the translated VLANs are created on the switch and are also added to the Layer 2 trunk ports trunk-allowed VLAN vlan-list.



Note As a best practice, do not add the ingress VLAN ID to the switchport allowed vlan-list under the interface.

- Ensure that all translated VLANs are VXLAN enabled.

SUMMARY STEPS

1. **configure terminal**
2. **interface** *type/port*
3. **[no] switchport vlan mapping enable**
4. **[no] switchport vlan mapping** *vlan-id translated-vlan-id*
5. **[no] switchport vlan mapping all**
6. **copy running-config startup-config**
7. **show interface** [*if-identifier*] **vlan mapping**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: <code>switch# configure terminal</code>	Enters global configuration mode.
Step 2	interface <i>type/port</i> Example: <code>switch(config)# interface Ethernet1/1</code>	Specifies the interface that you are configuring.
Step 3	[no] switchport vlan mapping enable Example: <code>switch(config-if)# [no] switchport vlan mapping enable</code>	Enables VLAN translation on the switch port. VLAN translation is disabled by default. Note Use the no form of this command to disable VLAN translation.
Step 4	[no] switchport vlan mapping <i>vlan-id translated-vlan-id</i> Example: <code>switch(config-if)# switchport vlan mapping 10 100</code>	Translates a VLAN to another VLAN. • The range for both the <i>vlan-id</i> and <i>translated-vlan-id</i> arguments are from 1 to 4094. • You can configure VLAN translation between the ingress (incoming) VLAN and a local (translated) VLAN on a port. For the traffic arriving on the interface where VLAN translation is enabled, the incoming VLAN is mapped to a translated VLAN that is VXLAN enabled. On the underlay, this is mapped to a VNI, the inner dot1q is deleted, and switched over to the VXLAN network. On the egress switch, the VNI is mapped to a local translated VLAN. On the outgoing interface, where VLAN translation is configured, the traffic is converted to the original VLAN and egresses out. Note

	Command or Action	Purpose
		Use the no form of this command to clear the mappings between a pair of VLANs.
Step 5	[no] switchport vlan mapping all Example: switch(config-if)# switchport vlan mapping all	Removes all VLAN mappings configured on the interface.
Step 6	copy running-config startup-config Example: switch(config-if)# copy running-config startup-config	Copies the running configuration to the startup configuration. Note The VLAN translation configuration does not become effective until the switch port becomes an operational trunk port.
Step 7	show interface [if-identifier] vlan mapping Example: switch# show interface ethernet1/1 vlan mapping	Displays VLAN mapping information for a range of interfaces or for a specific interface.

Example

This example shows how to configure VLAN translation between (the ingress) VLAN 10 and (the local) VLAN 100. The show vlan counters command output shows the statistic counters as translated VLAN instead of customer VLAN.

```
switch# configure terminal
switch(config)# interface ethernet1/1
switch(config-if)# switchport vlan mapping enable
switch(config-if)# switchport vlan mapping 10 100
switch(config-if)# switchport trunk allowed vlan 100
switch(config-if)# show interface ethernet1/1 vlan mapping
Interface eth1/1:
Original VLAN      Translated VLAN
-----
10                  100

switch(config-if)# show vlan counters
Vlan Id              :100
Unicast Octets In    :292442462
Unicast Packets In   :1950525
Multicast Octets In  :14619624
Multicast Packets In :91088
Broadcast Octets In  :14619624
Broadcast Packets In :91088
Unicast Octets Out    :304012656
Unicast Packets Out  :2061976
L3 Unicast Octets In :0
L3 Unicast Packets In :0
```

Configuring Inner VLAN and Outer VLAN Mapping on a Trunk Port

Configuring Inner VLAN and Outer VLAN Mapping on a Trunk Port is applicable only for Cisco Nexus 9300 platforms and not supported on Cisco Nexus 9200, 9300-EX, 9300-FX, 9300-FX2, 9300-FX3, 9300-GX, 9300-GX2, , 9364C, 9332C platforms.

You can configure VLAN translation from an inner VLAN and an outer VLAN to a local (translated) VLAN on a port. For the double tag VLAN traffic arriving on the interfaces where VLAN translation is enabled, the inner VLAN and outer VLAN are mapped to a translated VLAN that is VXLAN enabled.

Notes for configuring inner VLAN and outer VLAN mapping:

- Inner and outer VLAN cannot be on the trunk allowed list on a port where inner VLAN and outer VLAN is configured.

For example:

```
switchport vlan mapping 11 inner 12 111
switchport trunk allowed vlan 11-12,111 /**Not valid because 11 is outer VLAN and 12
is inner VLAN.***/
```

- On the same port, no two mapping (translation) configurations can have the same outer (or original) or translated VLAN. Multiple inner VLAN and outer VLAN mapping configurations can have the same inner VLAN.

For example:

```
switchport vlan mapping 101 inner 102 1001
switchport vlan mapping 101 inner 103 1002 /**Not valid because 101 is already used
as an original VLAN.***/
switchport vlan mapping 111 inner 104 1001 /**Not valid because 1001 is already used
as a translated VLAN.***/
switchport vlan mapping 106 inner 102 1003 /**Valid because inner vlan can be the
same.***/
```

- When a packet comes double-tagged on a port which is enabled with the inner option, only bridging is supported.
- VXLAN PV routing is not supported for double-tagged frames.

SUMMARY STEPS

1. **configure terminal**
2. **interface** *type port*
3. **[no] switchport mode trunk**
4. **switchport vlan mapping enable**
5. **switchport vlan mapping** *outer-vlan-id* **inner** *inner-vlan-id* *translated-vlan-id*
6. (Optional) **copy running-config startup-config**
7. (Optional) **show interface** [*if-identifier*] **vlan mapping**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal	Enters global configuration mode.
Step 2	interface <i>type port</i>	Enters interface configuration mode.
Step 3	[no] switchport mode trunk	Enters trunk configuration mode.
Step 4	switchport vlan mapping enable	Enables VLAN translation on the switch port. VLAN translation is disabled by default. Note Use the no form of this command to disable VLAN translation.
Step 5	switchport vlan mapping <i>outer-vlan-id inner inner-vlan-id translated-vlan-id</i>	Translates inner VLAN and outer VLAN to another VLAN.
Step 6	(Optional) copy running-config startup-config	Copies the running configuration to the startup configuration. Note The VLAN translation configuration does not become effective until the switch port becomes an operational trunk port
Step 7	(Optional) show interface [<i>if-identifier</i>] vlan mapping	Displays VLAN mapping information for a range of interfaces or for a specific interface.

Example

This example shows how to configure translation of double tag VLAN traffic (inner VLAN 12; outer VLAN 11) to VLAN 111.

```
switch# configure terminal
switch(config)# interface ethernet1/1
switch(config-if)# switchport mode trunk
switch(config-if)# switchport vlan mapping enable
switch(config-if)# switchport vlan mapping 11 inner 12 111
switch(config-if)# switchport trunk allowed vlan 101-170
switch(config-if)# no shutdown
```

```
switch(config-if)# show mac address-table dynamic vlan 111
```

Legend:

* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC
age - seconds since last seen, + - primary entry using vPC Peer-Link,
(T) - True, (F) - False

VLAN	MAC Address	Type	age	Secure	NTFY Ports
-----+-----+-----+-----+-----+-----					


```
* 111      0000.0092.0001    dynamic  0          F      F      nve1(100.100.100.254)
* 111      0000.0940.0001    dynamic  0          F      F      Eth1/1
```

About Port Multi-VLAN Mapping

With Port Multi-VLAN Mapping feature multiple VLANs are mapped on a trunk interface to a single global VLAN/VNI. Layer 2 (L2) sub-interface has to be created for the mapping and a qTag has to be provided for each L2 sub-interface.

Different Port-VLANs can serve different services on the same physical interface.

For the Port Multi-VLAN mappings per trunk port, ACLs are installed per each of the mapping using L2 sub-interface. Some ACLs are installed automatically by default and some are installed with static MAC address configuration. L2 sub-interface has a qtag, flood-domain or provider-VLAN. The provider-VLAN is configured on the switch and is used for traffic forwarding. There can be only one provider-VLAN on the switch.

This static MAC configuration is done using the **switchport mac-address static-only** command configured on L2 sub-interface parent port. This command disables the MAC learning on the parent port and enables MAC-ACL per each static MAC configured on the L2 sub-interfaces.

Guidelines and Limitations for Port Multi-VLAN Mapping

The following are the guidelines and limitations for Port Multi-VLAN Mapping:

- Beginning with Cisco NX-OS Release 10.2(3)F, the Port Multi-VLAN feature is supported on N9K-C9316D-GX, N9K-C93600CD-GX, N9K-C9364C-GX, and Cisco Nexus 9300-GX2 switches.
- Beginning with Cisco NX-OS Release 10.1(2), Port Multi-VLAN Mapping is supported on Cisco Nexus 9300-EX, FX, and FX2 platform switches.
- Beginning with Cisco NX-OS Release 10.2(3)F, Port Multi-VLAN Mapping is supported on the Cisco Nexus 9300-FX3 platform switches.
- Port Multi-VLAN Mapping is an access side feature and is supported with both multicast and ingress replication for VXLAN flood and learn mode. This feature is not supported for VXLAN MP-BGP EVPN mode in Cisco NX-OS Release 10.1(2).
- For a device that is running on Cisco Nexus Release 10.1(2) or Cisco Nexus Release 10.2(1)F ND-ISSU is not supported if L2 sub-interfaces are configured.
- This feature is not supported with vPC fabric peering configuration.
- In order to protect against broadcast or multicast flood, all flooding traffic is dropped except ARP and NS/ND.
- Layer 2 is supported.
- STP is not supported.
- Static default route or specific route to remote VTEP is recommended to be configured on ToRs.

- Interaction with other access features like QinQ/QinVNI, Port VLAN mapping, PVLAN and Xconnect are not supported.

The following are the guidelines and limitations related to the parent interface:

- TCAM entries are only installed on the slice where the parent port exists. To check TCAM utilization, use the **show system internal access-list resource utilization** command.
- To check the port slice, use the **show interface hardware-mappings** command.
- For hosts using static ARP, add on ToR static MAC entry for remote host on interface nve 1. Example:

```
mac address-table static 0034.0100.0001 vni 10013001 interface nve 1 peer-ip 192.168.75.2
```
- Port-security/dot1x is not supported on the parent interface.
- vPC mode is not supported for parent interface or L2 sub interface.

The following are the guidelines and limitations related to the sub interface:

- Maximum of 510 sub-interfaces are supported per switch.
- ACL and storm-control per sub-interface cannot be configured under the switch port mapping.
- TCAM region must be re-configured in order to support Max 510 L2 sub interfaces. For each L2 sub interface nine TCAM ing-pacl-sb entries are allocated.
- Static MAC is configured on L2 sub interface using the **switchport mac-address static-only** command on the parent interface.
- L2 sub interfaces are not supported without VXLAN deployment. The provider VLAN must be a VXLAN VLAN.
- Dynamic MAC learning is disabled on L2 sub interface.
- Storm control is not supported for L2 sub interface.
- The **hardware profile svi-and-si flex-stats-enable** command supports only ingress L2 sub interface counters. This profile statistics command does not support egress L2 sub interface counters and VxLAN statistics.
- IGMP snooping is not supported on the provider VLAN where L2 sub interface is configured.

Configuring Port Multi-VLAN Mapping

A sample configuration of Port Multi-VLAN Mapping is provided below:

```
feature ospf
feature pim
feature bfd
feature interface-vlan
feature vn-segment-vlan-based
feature private-vlan
feature lacp
feature nv overlay

hardware access-list tcam region ing-pacl-sb 2560
hardware profile svi-and-si flex-stats-enable
```

```
ip pim rp-address 2.0.0.254 group-list 224.0.0.0/4

vlan 3001
  vn-segment 10013001

interface Ethernet1/22
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 3001
  mtu 9216
  storm-control broadcast level 0.01
  storm-control action trap
  switchport isolated
  switchport mac-address static-only
  no shutdown

interface Ethernet1/22.1
  encapsulation dot1q 301 provider-vlan 3001
  no shutdown

interface Ethernet1/22.2
  encapsulation dot1q 302 provider-vlan 3001
  no shutdown

interface Ethernet1/22.3
  encapsulation dot1q 303 provider-vlan 3001
  no shutdown

interface Ethernet1/22.4
  encapsulation dot1q 304 provider-vlan 3001
  no shutdown

interface Ethernet1/22.5
  encapsulation dot1q 305 provider-vlan 3001
  no shutdown

interface port-channel1
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 3001
  mtu 9216
  storm-control broadcast level 0.01
  storm-control multicast level 0.01
  storm-control unicast level 0.01
  storm-control action trap
  switchport isolated
  switchport mac-address static-only

interface port-channel1.1
  encapsulation dot1q 301 provider-vlan 3001
  no shutdown

interface port-channel1.2
  encapsulation dot1q 302 provider-vlan 3001
  no shutdown

interface port-channel1.3
  encapsulation dot1q 303 provider-vlan 3001
  no shutdown

interface port-channel1.4
  encapsulation dot1q 304 provider-vlan 3001
  no shutdown
```

```

interface port-channel1.5
  encapsulation dot1q 305 provider-vlan 3001
  no shutdown

interface Ethernet1/24
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 3001
  mtu 9216
  storm-control broadcast level 0.01
  storm-control multicast level 0.01
  storm-control unicast level 0.01
  storm-control action trap
  switchport isolated
  switchport mac-address static-only
  channel-group 1 mode active
  no shutdown

interface Ethernet1/25
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 3001
  mtu 9216
  storm-control broadcast level 0.01
  storm-control multicast level 0.01
  storm-control unicast level 0.01
  storm-control action trap
  switchport isolated
  switchport mac-address static-only
  channel-group 1 mode active
  no shutdown

mac address-table static 0035.0100.0001 vlan 3001 interface Ethernet1/22.1
mac address-table static 0035.0100.0002 vlan 3001 interface Ethernet1/22.2
mac address-table static 0035.0100.0003 vlan 3001 interface Ethernet1/22.3
mac address-table static 0035.0100.0004 vlan 3001 interface Ethernet1/22.4
mac address-table static 0035.0100.0005 vlan 3001 interface Ethernet1/22.5

mac address-table static 003b.0100.0001 vlan 3001 interface port-channel1.1
mac address-table static 003b.0100.0002 vlan 3001 interface port-channel1.2
mac address-table static 003b.0100.0003 vlan 3001 interface port-channel1.3
mac address-table static 003b.0100.0004 vlan 3001 interface port-channel1.4
mac address-table static 003b.0100.0005 vlan 3001 interface port-channel1.5

router ospf p1
  bfd
  router-id 192.168.210.1

interface loopback0
  ip address 192.168.210.1/32
  ip router ospf p1 area 0.0.0.0
  ip pim sparse-mode

interface loopback1
  description NVE_IP
  ip address 192.168.210.2/32
  ip router ospf p1 area 0.0.0.0
  ip pim sparse-mode

interface Ethernet1/49
  mtu 9216
  no ip redirects

```

```

ip address 10.0.1.16/31
ip router ospf pl area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/54
mtu 9216
no ip redirects
ip address 10.0.1.18/31
ip router ospf pl area 0.0.0.0
ip pim sparse-mode
no shutdown

interface nve1
no shutdown
source-interface loopback1
member vni 10013001
mcast-group 227.1.1.1

```

The following examples provide show command outputs related to Port Multi-VLAN Mapping:

switch# **show hardware access-list resource utilization | grep Super**

```

Ingress PACL Super Bridge          2445    115    95.50
Ingress PACL Super Bridge IPv4      0         0.00
Ingress PACL Super Bridge IPv6      0         0.00
Ingress PACL Super Bridge MAC        0         0.00
Ingress PACL Super Bridge ALL       1956      76.40
Ingress PACL Super Bridge OTHER      489      19.10

```

switch # show hardware access-list resource entries | in Super

```

Ingress PACL Super Bridge          : 2445 valid entries   115 free entries

```

switch# **show interface ethernet 1/22.1-5 brief**

Ethernet Interface	VLAN	Type	Mode	Status	Reason	Speed	Port Ch #
Eth1/22.1	301	eth	trunk	up	none	10G(D)	--
Eth1/22.2	302	eth	trunk	up	none	10G(D)	--
Eth1/22.3	303	eth	trunk	up	none	10G(D)	--
Eth1/22.4	304	eth	trunk	up	none	10G(D)	--
Eth1/22.5	305	eth	trunk	up	none	10G(D)	--

switch# **show interface port-channel 1.1-5 brief**

Port-channel Interface	VLAN	Type	Mode	Status	Reason	Speed	Protocol
Pol.1	301	eth	trunk	up	none	a-10G(D)	--
Pol.2	302	eth	trunk	up	none	a-10G(D)	--
Pol.3	303	eth	trunk	up	none	a-10G(D)	--
Pol.4	304	eth	trunk	up	none	a-10G(D)	--
Pol.5	305	eth	trunk	up	none	a-10G(D)	--

switch# **show interface ethernet 1/22.1 counters**

Port	InOctets	InUcastPkts
Eth1/22.1	1145503766466	125246421

Port	InMcastPkts	InBcastPkts
Eth1/22.1	0	0

Port	OutOctets	OutUcastPkts
Eth1/22.1	0	0

Port	OutMcastPkts	OutBcastPkts
Eth1/22.1	0	0

```
switch# show consistency-checker l2 sub-interface port-channel 1.1
```

```
Getting details for port-channell1.1 (0x16001000)
```

```
=====
```

```
Running CC for port-channell1.1
```

```
=====
```

```
CC for Permit Static: PASSED
CC for Deny ACL: PASSED
CC for Permit ARP ACL: PASSED
CC for Permit Multi-Dest ACL: PASSED
CC for info_src_idx: PASSED
CC for info_bd_xlate_idx: PASSED
CC for info_vlan_mbr_chk_bypass: PASSED
CC for info_set_dont_learn: PASSED
CC for VlanXlate Table: PASSED
CC for BD State Table: PASSED
CC for QSMT BD State Table: PASSED
CC for Local Multipath Table: PASSED
CC for Rw VifTable: PASSED
CC for Rwx VlanXlate Table: PASSED
```

```
switch# show system internal access-list interface eth 1/22.1
```

```
slot 1
=====
```

```
Policies in ingress direction:
Policy type Policy Id Policy name
```

```
-----
PACL Super Bridge 341 l2fm-acl-mac-Eth1/22.1
PACL Super Bridge 342 l2fm-acl-ipv6-Eth1/22.1
```

```
No Netflow profiles in ingress direction
```

```
INSTANCE 0x0
```

```
-----
```

```
Tcam 20 resource usage:
```

```
-----
```

```
LBL AB = 0x11
```

```
Bank 0
```

```
-----
```

```
IPv6 Class
```

```
Policies: PACL Super Bridge(l2fm-acl-ipv6-Eth1/22.1)
```

```
Netflow profile: 0
```

```
Netflow deny profile: 0
```

```
2 tcam entries
```

```
MAC Class
```

```
Policies: PACL Super Bridge(l2fm-acl-mac-Eth1/22.1)
```

```

Netflow profile: 0
Netflow deny profile: 0
3 tcam entries

0 14 protocol cam entries
0 mac etype/proto cam entries
0 lous
0 tcp flags table entries
0 adjacency entries

No egress policies
No Netflow profiles in egress direction

```

```
switch# show system internal access-list interface eth 1/22.1 input statistics
```

```

slot 1
=====
INSTANCE 0x0
-----

Tcam 20 resource usage:
-----
LBL AB = 0xb
Bank 0
-----
IPv6 Class
Policies: PACL Super Bridge(l2fm-acl-ipv6-Eth1/22.1)
Netflow profile: 0
Netflow deny profile: 0
Entries:
[Index] Entry [Stats]
-----
[0x0038:0x0038:0x0038] permit lbl(0x0) 0000.0000.0000 ffff.ffff.ffff 0000.0000.0000
ffff.ffff.ffff vlan 502 [9]
[0x003a:0x003a:0x003a] permit lbl(0x0) 0000.0000.0000 ffff.ffff.ffff 0000.0000.0000
ffff.ffff.ffff vlan 502 [0]
MAC Class
Policies: PACL Super Bridge(l2fm-acl-mac-Eth1/22.1)
Netflow profile: 0
Netflow deny profile: 0
Entries:
[Index] Entry [Stats]
-----
[0x003c:0x003c:0x003c] permit lbl(0x0) arp [7]
[0x003d:0x08de:0x08de] permit lbl(0x0) 0035.0100.0001 ffff.ffff.ffff 0000.0000.0000
ffff.ffff.ffff vlan 502 [6279856]
[0x08dd:0x08e0:0x08e0] deny lbl(0x0) 0000.0000.0000 ffff.ffff.ffff 0000.0000.0000
ffff.ffff.ffff vlan 502 [279]

```

