



Configuring Switch Ports

This document describes various virtual LAN (VLAN) configuration you can perform on the switch ports, such as creating layer 2 and layer 3 VLANs, creating VLAN mapping, VLAN translation groups, and modifying software ports.

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How To Configure Switch Ports

Creating Layer 2 VLANs

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid I/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	createVlanCommand createVlanReq vlan_list vlan_list Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand createVlanReq vlan_list 100-4095	Creates the VLAN list. The valid values are from 1 to 4095.

	Command or Action	Purpose
Step 5	createVlanCommand review Example: Switch(config-controller-ProvisionPortVlanPortType) # createVlanCommand review	Displays the createVlanCommand configuration.
Step 6	createVlanCommand commit Example: Switch(config-controller-ProvisionPortVlanPortType) # createVlanCommand commit	Sends the createVlanCommand configuration to the Cisco ME 1200 NID.
Step 7	exit Example: Switch(config-controller-ProvisionPortVlanPortType) # exit Switch(config-controller) #	Exits to the config-controller mode.

Example

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand createVlanReq vlan_list
100-4095
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand review
Commands in queue:
 createVlanCommand createVlanReq vlan_list 100-4095
Switch(config-controller-ProvisionPortVlanPortType)# createVlanCommand commit
Vlan Creation Commit Success!!!
```

Verifying Layer 2 VLAN Configuration

The following is a sample output of the command that displays in brief the configured layer 2 VLAN list:

```
Switch(config-controller-ProvisionPortVlanPortType) # showVlans showVlanRequest brief
```

```
Commands in queue:
```

```
showVlans showVlanRequest brief
```

```
Switch(config-controller-ProvisionPortVlanPortType) # showVlans commit
```

```
Configured Vlan List:
```

```
1
```

```
Show Vlans Commit Success!!!
```

Deleting Layer 2 VLANs

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	deleteVlanCommand deleteVlanReq vlan_list vlan_list Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanCommand deleteVlanReq vlan_list 100-4095	Deletes the VLAN list.
Step 5	deleteVlanCommand review Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanCommand review	Displays the deleteVlanCommand configuration.
Step 6	deleteVlanCommand commit Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanCommand commit	Sends the deleteVlanCommand configuration to the Cisco ME 1200 NID.
Step 7	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)#	Exits to the config-controller mode.

Example

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanCommand deleteVlanReq vlan_list
100-4095
Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanCommand review
Commands in queue:
  deleteVlanCommand deleteVlanReq vlan_list 100-4095
Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanCommand commit
```

```
DeleteVlanCommand_Output.deleteVlanResp = 0
Vlan Deletion Commit Success!!!
```

Creating Layer 3 VLANs

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	createIntVlan createIntVlanReq vlan_id vlan_id Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq vlan_id 22	Creates the interface VLAN list.
Step 5	createIntVlan createIntVlanReq {address {ipv4 {dhcp ipv4_address} ipv6 ipv6_address } vlan_id Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address ipv4 ipv4_address address 22.22.22.3 Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address ipv4 ipv4_address mask 255.255.255.0 Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address ipv6 ipv6_address 2001:4::1/64	Creates the interface VLAN on the specified IPv4 or IPv6 address, or VLAN ID.
Step 6	createIntVlan review Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan review	Displays the createIntVlan configuration.
Step 7	createIntVlan commit Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan commit	Sends the createIntVlan configuration to the Cisco ME 1200 NID.

	Command or Action	Purpose
Step 8	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)	Exits to the config-controller mode.

Example

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq vlan_Id
22
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address
ipv4 ipv4_address address 22.22.22.3
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address
ipv4 ipv4_address mask 255.255.255.0
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan review
```

Commands in queue:

```
createIntVlan createIntVlanReq vlan_id 22
createIntVlan createIntVlanReq address ipv4 ipv4_address address 22.22.22.3
createIntVlan createIntVlanReq address ipv4 ipv4_address mask 255.255.255.0
```

```
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan commit
```

```
CreateIntVlan_Output.createIntVlanResp = 0
```

```
Create Interface Vlan Commit Success!!!
```

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq vlan_Id
22
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address
ipv6 ipv6_address 2001:4::1/64
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan review
```

Commands in queue:

```
createIntVlan createIntVlanReq vlan_id 22
createIntVlan createIntVlanReq address ipv6 ipv6_address 2001:4::1/64
```

```
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan commit
```

```
CreateIntVlan_Output.createIntVlanResp = 0
```

```
Create Interface Vlan Commit Success!!!
```

Creating Layer 3 VLANs With Dynamic IP Address

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	createIntVlan createIntVlanReq deleteVlanReq vlan_list vlan_list Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq vlan_id 23	Creates the interface VLAN on the specified VLAN.
Step 5	createIntVlan createIntVlanReq address ipv4 dhcp Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address ipv4 dhcp	Creates the interface VLAN on the specified address.
Step 6	createIntVlan review Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan review	Displays the createIntVlan configuration.
Step 7	createIntVlan commit Example: Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan commit	Sends the createIntVlan configuration to the Cisco ME 1200 NID.
Step 8	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)	Exits to the config-controller mode.

Example

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq vlan_Id
23
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan createIntVlanReq address
ipv4 dhcp
Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan review

Commands in queue:
createIntVlan createIntVlanReq vlan_id 23
createIntVlan createIntVlanReq address ipv4 dhcp

Switch(config-controller-ProvisionPortVlanPortType)# createIntVlan commit

CreateIntVlan_Output.createIntVlanResp = 0

Create Interface Vlan Commit Success!!!
```

Verifying Layer 3 VLANs With Dynamic IP Address

The following is a sample output to display the layer 3 VLANs configured with a dynamic IP address:

```
Switch(config-controller-ProvisionPortVlanPortType)# showIntVlan showIntVlanReq vlan_list
23

Commands in queue:

showIntVlan showIntVlanReq vlan_list 23

Switch(config-controller-ProvisionPortVlanPortType)# showIntVlan commit

ShowIntVlan_Output.showIntVlanResp.vlan_list[0].vlan_id = 23
ShowIntVlan_Output.showIntVlanResp.vlan_list[0].Link = 'LINK:
00-3a-99-fd-4d-05 Mtu:1500'
ShowIntVlan_Output.showIntVlanResp.vlan_list[0].dhcp = 'DHCP'
ShowIntVlan_Output.showIntVlanResp.vlan_list[0].ipv6_address = 'IPv6
Address not configured'

Show Interface Vlan Commit Success!!!
```

Deleting Layer 3 VLANs

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.

	Command or Action	Purpose
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	deleteIntVlan deleteIntVlanReq vlan_list vlan_list Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteIntVlan deleteIntVlanReq vlan_list 23	Deletes the VLAN list on the interface.
Step 5	deleteIntVlan review Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteIntVlan review	Displays the deleteIntVlan configuration.
Step 6	deleteIntVlan commit Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteIntVlan commit	Sends the deleteIntVlan configuration to the Cisco ME 1200 NID.
Step 7	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)#	Exits to the config-controller mode.

Example

```

Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# deleteIntVlan deleteIntVlanReq vlan_list
23
Switch(config-controller-ProvisionPortVlanPortType)# deleteIntVlan review

Commands in queue:
deleteIntVlan deleteIntVlanReq vlan_list 23

Switch(config-controller-ProvisionPortVlanPortType)# deleteIntVlan commit
DeleteIntVlan_Output.deleteIntVlanResp = 0

Delete Interface Vlan Commit Success!!!

```


Creating a VLAN Translation Group

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	createVlanTranslationGroup createVlanTranslationGroupReq group_id group_id Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup createVlanTranslationGroupReq group_id 3	Creates the VLAN Translation group ID.
Step 5	createVlanTranslationGroup createVlanTranslationGroupReq {vlan_idvlan_id vlan_list vlan_list} Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup createVlanTranslationGroupReq vlan_id 22	Creates the VLAN translation <ul style="list-style-type: none"> • vlan_id—Sets the VLAN ID on which translation occurs. • vlan_list—Sets the VLAN list that needs to be translated.
Step 6	createVlanTranslationGroup review Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup review	Displays the createVlanTranslationGroup configuration.
Step 7	createVlanTranslationGroup commit Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup commit	Sends the createVlanTranslationGroup configuration to the Cisco ME 1200 NID.
Step 8	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)	Exits to the config-controller mode.

Example

```

Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup
createVlanTranslationGroupReq group_Id 3
Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup
createVlanTranslationGroupReq vlan_id 22
Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup
createVlanTranslationGroupReq vlan_list 100,101,102
Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup review

Commands in queue:
createVlanTranslationGroup createVlanTranslationGroupReq group_Id 3
createVlanTranslationGroup createVlanTranslationGroupReq vlan_id 22
createVlanTranslationGroup createVlanTranslationGroupReq vlan_list 100,101,102

Switch(config-controller-ProvisionPortVlanPortType)# createVlanTranslationGroup commit

CreateVlanTranslationGroup_Output.createVlanTranslationGroupResp = 0

Create VlanTranslation Commit Success!!!

```

Deleting VLAN Translation Groups**DETAILED STEPS**

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid <i>1/NID_ID</i> Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	deleteVlanTranslation deleteVlanTranslationGroupReq group_idgroup_id Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanTranslation deleteVlanTranslationGroupReq group_id 3	Deletes the specified VLAN Translation group id.

	Command or Action	Purpose
Step 5	<p>deleteVlanTranslation deleteVlanTranslationGroupReq deleteVlanReq vlan_list vlan_list</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # deleteVlanTranslation deleteVlanTranslationGroupReq vlan_list 2,3</p>	Deletes the specified VLAN Translation VLAN list.
Step 6	<p>deleteVlanTranslation review</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # deleteVlanTranslation review</p>	Displays the deleteVlanTranslation configuration.
Step 7	<p>deleteVlanTranslation commit</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # deleteVlanTranslation commit</p>	Sends the deleteVlanTranslation configuration to the Cisco ME 1200 NID.
Step 8	<p>exit</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # exit Switch(config-controller) #</p>	Exits to the config-controller mode.

Example

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType) # deleteVlanTranslation
deleteVlanTranslationGroupReq group_id 3
Switch(config-controller-ProvisionPortVlanPortType) # deleteVlanTranslation
deleteVlanTranslationGroupReq vlan_list 100,101,102
Switch(config-controller-ProvisionPortVlanPortType) # deleteVlanTranslation review

Commands in queue:
deleteVlanTranslation deleteVlanTranslationGroupReq group_id 3
deleteVlanTranslation deleteVlanTranslationGroupReq vlan_list 100,101,102

Switch(config-controller-ProvisionPortVlanPortType) # deleteVlanTranslation commit

DeleteVlanTranslation_Output.deleteVlanTranslationGroupResp = 0

Delete VlanTranslation Commit Success!!!
```

Verifying VLAN Translation Group

The following is a sample output of the command to verify the VLAN translation group configuration:

```
Switch(config-controller-ProvisionPortVlanPortType) # showVlanTranslation
showVlanTranslationGroupReq
all
```

Commands in queue:

```
showVlanTranslation showVlanTranslationGroupReq all
```

```
Switch(config-controller-ProvisionPortVlanPortType)# showVlanTranslation commit
```

```
ShowVlanTranslation_Output.showVlanTranslationGroupResp[0].group_id = 3
ShowVlanTranslation_Output.showVlanTranslationGroupResp[0].vlan_list =
100
ShowVlanTranslation_Output.showVlanTranslationGroupResp[0].transvlan_id
= 22
ShowVlanTranslation_Output.showVlanTranslationGroupResp[1].group_id = 3
ShowVlanTranslation_Output.showVlanTranslationGroupResp[1].vlan_list =
101
ShowVlanTranslation_Output.showVlanTranslationGroupResp[1].transvlan_id
= 22
ShowVlanTranslation_Output.showVlanTranslationGroupResp[2].group_id = 3
ShowVlanTranslation_Output.showVlanTranslationGroupResp[2].vlan_list =
102
ShowVlanTranslation_Output.showVlanTranslationGroupResp[2].transvlan_id
= 22
Show VlanTranslation Commit Success!!!
```

Creating VLAN Mapping

Before You Begin

VLAN Mapping should be created for the VLAN translation group, and the mapping interface should be bound to that translation group.

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid /NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.

	Command or Action	Purpose
Step 4	createVlanMapping createVlanMappingReq group_id group_id Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping createVlanMappingReq group_id 3	Creates the VLAN mapping group ID.
Step 5	createVlanMapping createVlanMappingReq interface interface_id Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping createVlanMappingReq interface 5	Creates the VLAN mapping on the specified interface.
Step 6	createVlanMapping review Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping review	Displays the createVlanMapping configuration.
Step 7	createVlanMapping commit Example: Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping commit	Sends the createVlanMapping configuration to the Cisco ME 1200 NID.
Step 8	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)	Exits to the config-controller mode.

Example

```

Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping createVlanMappingReq
group_id 3
Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping createVlanMappingReq
interface 5
Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping review

Commands in queue:
createVlanMapping createVlanMappingReq group_id 3
createVlanMapping createVlanMappingReq interface 5

Switch(config-controller-ProvisionPortVlanPortType)# createVlanMapping commit
CreateVlanMapping_Output.createVlanMappingResp = 0

Create VlanMapping Commit Success!!!

```

Deleting VLAN Mapping

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	deleteVlanMapping deleteVlanMappingReq interface interface_id Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanMapping deleteVlanMappingReq interface 5	Deleted VLAN mapping for the specified interface.
Step 5	deleteVlanMapping review Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanMapping review	Displays the deleteVlanMapping configuration.
Step 6	deleteVlanMapping commit Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanMapping commit	Sends the deleteVlanMapping configuration to the Cisco ME 1200 NID.
Step 7	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)#	Exits to the config-controller mode.

Example

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanMapping deleteVlanMappingReq
interface 5
```

```
Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanMapping review

Commands in queue:
deleteVlanMapping deleteVlanMappingReq interface 5

Switch(config-controller-ProvisionPortVlanPortType)# deleteVlanMapping commit
DeleteVlanMapping_Output.deleteVlanMappingResp = 0

Delete Vlan Mapping Commit Success!!!
```

Modifying Switch Ports

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid <i>1/NID_ID</i> Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	modifySwPort modifySWPortConfig interface <i>interface_id</i> Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig interaface 4	Modifies the switchport configuration on the defined interface.
Step 5	modifySwPort modifySWConfig { interface intf-description mode} Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig interface 4 Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig intf-description Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode	<ul style="list-style-type: none"> • interface—Selects the interface to be configured. • intf-description—Specifies the description of the interface. • mode—Displays the mode of operation.
Step 6	modifySwPort modifySWPortConfig mode access vlan <i>vlan_id</i> Example: Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort modifySWPortConfig mode trunk native vlan 2	Sets the mode to ACCESS, and assigns a VLAN.

	Command or Action	Purpose
Step 7	<p>modifySwPort modifySWPortConfig mode trunk {allowed vlan {add {all vlan_list vlan_list } remove {all vlan_list vlan_list }} {native vlan vlan_list }</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort modifySWPortConfig mode trunk allowed vlan add vlan_list 1-5</p>	<p>Sets the mode to TRUNK.</p> <ul style="list-style-type: none"> • allowed—Sets the allowed VLAN characteristics when interface is in trunk mode. • add—Adds either all VLANs or specified VLANs to the current list. • remove—Removes either all VLANs or specified VLANs from the current list. • <i>vlan_id</i>—The VLAN ID. The valid values are from 0 to 4095.
Step 8	<p>modifySwPort review</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort review</p>	<p>Displays the modifySwPort configuration.</p>
Step 9	<p>modifySwPort commit</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort commit</p>	<p>Sends the modifySwPort configuration to the Cisco ME 1200 NID.</p>
Step 10	<p>exit</p> <p>Example: Switch(config-controller-ProvisionPortVlanPortType) # exit Switch(config-controller) #</p>	<p>Exits to the config-controller mode.</p>

Example

```

Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort modifySWPortConfig
interaface 4
Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort modifySWPortConfig mode
trunk native vlan 2
Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort modifySWPortConfig mode
trunk allowed vlan add vlan_list 200-225
Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort review

Commands in queue:
modifySwPort modifySWPortConfig interaface 4
modifySwPort modifySWPortConfig mode trunk native vlan 2
modifySwPort modifySWPortConfig mode trunk allowed vlan_list 200-225

Switch(config-controller-ProvisionPortVlanPortType) # modifySwPort commit

ModifySwPort_Output.modifySwPortConfigResp = 0
Modify SwitchPort Commit Success!!!

```


**Note**

To configure the Switch Port mode as hybrid and the Port description, use **modifySwPort_v2**. In addition to the available parameters for **modifySwPort**, the following are the new parameters available:

- *hybrid* - Sets mode to HYBRID unconditionally.
- *intf_description description* - Configures interface description.

Example

The following example shows how to configure Switch Port mode as hybrid using **modifySwPort_v2**.

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig interaface
1
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig mode
hybrid allowed vlan remove vlan_list 1-100
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort-v2 modifySWConfig mode
hybrid port_type c_port
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig mode
hybrid ingress_filtering enable
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig mode
hybrid ingress_acceptance tagged
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig mode
hybrid egress_tag all
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig mode
hybrid native vlan 10

Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 review

Commands in queue:
  modifySwPort_v2 modifySWConfig interaface 1
  modifySwPort_v2 modifySWConfig mode hybrid allowed vlan remove vlan_list 1-100
  modifySwPort_v2 modifySWConfig mode hybrid port_type c_port
  modifySwPort_v2 modifySWConfig mode hybrid ingress_filtering enable
  modifySwPort_v2 modifySWConfig mode hybrid ingress_acceptance tagged
  modifySwPort_v2 modifySWConfig mode hybrid egress_tag all
  modifySwPort_v2 modifySWConfig mode hybrid native vlan 10

Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 commit
```

Example

The following example shows how to configure interface description using **modifySwPort_v2**.

```
Switch# configure terminal
Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig interaface
1
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 modifySWConfig
intf_description description connected_to_r1
Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 review

Commands in queue:
  modifySwPort_v2 modifySWConfig interaface 1
  modifySwPort_v2 modifySWConfig intf_description description connected_to_r1

Switch(config-controller-ProvisionPortVlanPortType)# modifySwPort_v2 commit
```

Deleting Switch Ports

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: Switch# configure terminal	Enters global configuration mode.
Step 2	controller nid 1/NID_ID Example: Switch(config)# controller nid 1/1	Enters the controller configuration mode.
Step 3	ProvisionPortVlanPortType Example: Switch(config-controller)# ProvisionPortVlanPortType	Enters the ProvisionPortVlanPortType mode.
Step 4	deleteSwPort deleteSwPortReq interface interface_id Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort deleteSwPortReq interaface 5	Deletes the switchport on the specified interface.
Step 5	deleteSwPort deleteSwPortReq mode {access trunk} Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort deleteSwPortReq mode access	Deletes the switchport on the specified mode.
Step 6	deleteSwPort review Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort review	Displays the deleteSwPort configuration.
Step 7	deleteSwPort commit Example: Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort commit	Sends the deleteSwPort configuration to the Cisco ME 1200 NID.
Step 8	exit Example: Switch(config-controller-ProvisionPortVlanPortType)# exit Switch(config-controller)#	Exits to the config-controller mode.

Example

```
Switch# configure terminal
```

```

Switch(config)# controller nid 1/1
Switch(config-controller)# ProvisionPortVlanPortType
Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort deleteSwPortReq interaface
5
Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort deleteSwPortReq mode
access
Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort review

Commands in queue:
deleteSwPort deleteSwPortReq interaface 5
deleteSwPort deleteSwPortReq mode access

Switch(config-controller-ProvisionPortVlanPortType)# deleteSwPort commit
DeleteSwPort_Output.deleteSwPortResp = 0

Delete SwitchPort Commit Success!!!

```

Verifying Switch Port Details

The following is a sample output to verify all details of the switch ports:

```

Switch(config-controller-ProvisionPortVlanPortType)# showSwPort showSwPortReq all all

Commands in queue:

showSwPort showSwPortReq all all

Switch(config-controller-ProvisionPortVlanPortType)# showSwPort commit

ShowSwPort_Output.showSwPortResp.interface_list[0].name = 'GigabitEthernet
1/1'
ShowSwPort_Output.showSwPortResp.interface_list[0].admin_mode = 'trunk'
ShowSwPort_Output.showSwPortResp.interface_list[0].access_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[0].trunk_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[0].trunk_members = '1-4095'
ShowSwPort_Output.showSwPortResp.interface_list[1].name = 'GigabitEthernet
1/2'
ShowSwPort_Output.showSwPortResp.interface_list[1].admin_mode = 'trunk'
ShowSwPort_Output.showSwPortResp.interface_list[1].access_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[1].trunk_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[1].trunk_members = '1-4095'
ShowSwPort_Output.showSwPortResp.interface_list[2].name = 'GigabitEthernet
1/3'
ShowSwPort_Output.showSwPortResp.interface_list[2].admin_mode = 'trunk'
ShowSwPort_Output.showSwPortResp.interface_list[2].access_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[2].trunk_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[2].trunk_members = '1-4095'
ShowSwPort_Output.showSwPortResp.interface_list[3].name = 'GigabitEthernet
1/4'
ShowSwPort_Output.showSwPortResp.interface_list[3].admin_mode = 'trunk'
ShowSwPort_Output.showSwPortResp.interface_list[3].access_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[3].trunk_mode = 2
ShowSwPort_Output.showSwPortResp.interface_list[3].trunk_members = '1-4095'
ShowSwPort_Output.showSwPortResp.interface_list[4].name = 'GigabitEthernet
1/5'
ShowSwPort_Output.showSwPortResp.interface_list[4].admin_mode = 'access'
ShowSwPort_Output.showSwPortResp.interface_list[4].access_mode = 120
ShowSwPort_Output.showSwPortResp.interface_list[4].trunk_mode = 1
ShowSwPort_Output.showSwPortResp.interface_list[4].trunk_members = '1-4095'
ShowSwPort_Output.showSwPortResp.interface_list[5].name = 'GigabitEthernet

```

```
1/6'  
ShowSwPort_Output.showSwPortResp.interface_list[5].admin_mode = 'access'  
ShowSwPort_Output.showSwPortResp.interface_list[5].access_mode = 1  
ShowSwPort_Output.showSwPortResp.interface_list[5].trunk_mode = 1  
ShowSwPort_Output.showSwPortResp.interface_list[5].trunk_members = '1-4095'  
  
Show SwitchPort Commit Success!!!
```