



Configuring L2CP

This document describes the Layer 2 Control Protocol (L2CP) feature and configuration steps to implement L2CP.

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Prerequisites for Configuring L2CP

- NID must be added to the controller.
- NID must be accessible from the controller.

Restrictions for Configuring L2CP

- When committing multiple lists, the list in previous commit is not retained. Example: a peer list 16-18 in a previous commit is replaced by a new commit of peer list 21.
To retain multiple lists, you must specify the lists in a single commit. Example: peer list 16-18,21.
- Any L2CP processing configured using forward/peer/discard modes applies to all EVCs on the port.
- Provisioning L2CP in tunnel mode is not supported. You cannot prevent core switches from processing frame as a L2CP frame in a service provider network.
- To delete a previously configured discardList, you must configure **discard discardList** command with **no** before you commit the command. Otherwise, by default the previously configured value is retained.

Example:

```
setL2CPPortConfig l2cpPortConfiguration portNumber 6
setL2CPPortConfig l2cpPortConfiguration discard discardList no
```

Information About L2CP

L2CP addresses the requirement for a bidirectional, IP-based protocol that operates across a number of access and aggregation network technologies such as Ethernet. The L2CP message exchange conveys status and control information between access devices and one or more other devices that require the information for executing local functions.

L2CP handling is required for edge switches providing Ethernet Virtual Connections (EVCs) in a service provider network.

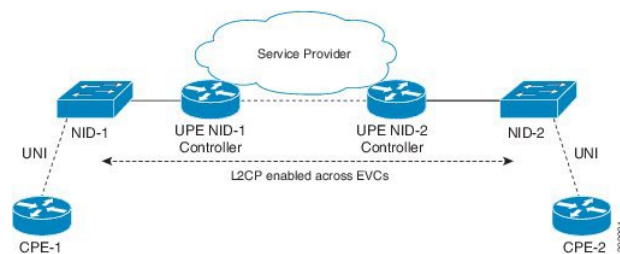
In this case, UPE NID Controller and NID are used to establish an EVC between UNI ports of two Customer Premise Equipment (CPE).

The following options are available to provision L2CP on NID:

- **Forward**—The L2CP frame is forwarded to the network port like other layer 2 frames in the EVC.
- **Peer**—The L2CP frame is processed by a local protocol entity and is not forwarded.
- **Discard**—The L2CP frame is discarded.

The following figure shows the topology used for provisioning L2CP on NIDs using UPE NID Controllers.

Figure 1: L2CP Topology



Configuring L2CP Using a UPE NID Controller

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 1/2 | Enters the controller configuration mode. |

| | Command or Action | Purpose |
|--------|--|--|
| Step 3 | ProvisionL2CPPortType Example: Switch(config-controller)# ProvisionL2CPPortType | Enters the ProvisionL2CPPortType mode. |
| Step 4 | ProvisionL2CPPortType {default exit getL2CPPortConfig no setL2CPPortConfig} Example: Switch(config-controller)# ProvisionL2CPPortType | Sub-command options. <ul style="list-style-type: none"> • default—Sets a command to its defaults. • exit—Exits from ProvisionL2CPPortType sub configuration mode. • getL2CPPortConfig—Retrieves current L2CP configuration request. • no—Negates a command or set its defaults. • setL2CPPortConfig—Configures L2CP forward on EVCs on this port. |
| Step 5 | getL2CPPortConfig l2cpPort l2cpPort_number Example: Switch(config-controller-ProvisionL2CPPortType)# getL2CPPortConfig l2cpPort 5 | Retrieves initial or default L2CP configuration. <ul style="list-style-type: none"> • l2cpPort—Specifies L2CP port configuration request. • l2cpPort_number—L2CP port number. The valid range is from 1 to 6. |
| Step 6 | setL2CPPortConfig l2cpPortConfiguration {enabled portNumber portNumber discard {discardList discardList_range} forward {forwardList forwardList_range} peer {peerList peerList_range}} Example: Switch(config-controller-ProvisionL2CPPortType)# setL2CPPortConfig l2cpPortConfiguration portNumber 5 Switch(config-controller-ProvisionL2CPPortType)# setL2CPPortConfig l2cpPortConfiguration enabled enable | Sets up L2CP forward/peer/discard configuration request on all EVCs on this port. <ul style="list-style-type: none"> • enabled—Specifies L2CP configuration enabled/disabled on this port. • portNumber—Specifies port number to configure L2CP. • portNumber—Port number to configure L2CP. The valid range is from 1 to 6. • discard—Discards L2CP frames. • discardList— Selects BPDU addresses and GARP addresses. • discardList_range— BPDU addresses (0-15) and GARP addresses (16-31). • forward— Allows forwarding of L2CP frames. • forwardList—Selects BPDU addresses and GARP addresses. • forwardList_range— BPDU addresses (0-15) and GARP addresses (16-31). |

| | Command or Action | Purpose |
|----------------|---|---|
| | | <ul style="list-style-type: none"> • peer—Redirects L2CP frames to local protocol entity. • peerList—Selects BPDU addresses and GARP addresses. • peerList_range— BPDU addresses (0-15) and GARP addresses (16-31). |
| Step 7 | setL2CPPortConfig review Example: Switch(config-controller-L2CPPortType) # setL2CPPortConfig review | (Optional) Displays the configuration. |
| Step 8 | setL2CPPortConfig flush Example: Switch(config-controller-L2CPPortType) # setL2CPPortConfig flush | (Optional) Flushes the configuration. |
| Step 9 | setL2CPPortConfig commit Example: Switch(config-controller-L2CPPortType) # setL2CPPortConfig commit | Sends the configuration to NID. |
| Step 10 | getL2CPPortConfig l2cpPort l2cpPort_number Example: Switch(config-controller-ProvisionL2CPPortType) # getL2CPPortConfig l2cpPort 5 | Retrieves current L2CP configuration for a specified port. <ul style="list-style-type: none"> • l2cpPort—Specifies L2CP port configuration request. • l2cpPort_number—L2CP port number. The valid range is from 1 to 6. |
| Step 11 | getL2CPPortConfig review Example: Switch(config-controller-ProvisionL2CPPortType) # getL2CPPortConfig review | (Optional) Displays the configuration. |
| Step 12 | getL2CPPortConfig flush Example: Switch(config-controller-ProvisionL2CPPortType) # getL2CPPortConfig flush | (Optional) Flushes the configuration. |
| Step 13 | getL2CPPortConfig commit Example: Switch(config-controller-ProvisionL2CPPortType) # getL2CPPortConfig commit | Sends the configuration to NID. |

| | Command or Action | Purpose |
|---------|--|--------------------------------------|
| Step 14 | exit Example: Switch(config-controller-ProvisionL2CPPortType)# exit | Exits to the config-controller mode. |

Configuration Example

- The example shows how to enable L2CP on a port:

```
Switch(config)#controller nid 1/1
Switch(config-controller)#
Switch(config-controller)#ProvisionL2CPPortType ?
<cr>

Switch(config-controller-ProvisionL2CPPortType)#?
ProvisionL2CPPortType sub-mode commands:
  default          Set a command to its defaults
  exit             Exit from ProvisionL2CPPortType sub configuration mode
  getL2CPPortConfig Get current L2CP configuration request
  no              Negate a command or set its defaults
  setL2CPPortConfig Configure L2CP forward on EVCs on this port

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig ?
  commit          commit setL2CPPortConfig
  flush          flush all setL2CPPortConfig commands from queue
  l2cpPortConfiguration Configure L2CP forward on EVCs on this port
  review         review setL2CPPortConfig commands

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(config-controller-ProvisionL2CPPortType)#$pPortConfiguration ?
  discard        Discard L2CP frames
  enabled        L2CP configuration enabled/disabled on this port
  forward        Allow forwarding of L2CP frames
  peer          Redirect L2CP frames to local protocol entity
  portNumber     Port number to configure L2CP

Switch(config-controller-ProvisionL2CPPortType)#$guration portNumber 3
Switch(config-controller-ProvisionL2CPPortType)#$guration enabled enable

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable

Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig commit
SetL2CPPortConfig Commit Success!!!
```

When SetL2CPPortConfig operation is executed on a NID from a CPE NID Controller, initially GetL2CPPortConfig fetches the current configuration. This is followed by SetL2CPPortConfig to set the new L2CP configuration. The following is a sample output on the NID.

```
#
Decoding of Request message was successful
Decoded record:
GetL2CPPortConfig_Output.l2cpPortConfiguration.enabled = true
GetL2CPPortConfig_Output.l2cpPortConfiguration.portNumber = 3
GetL2CPPortConfig_Output.l2cpPortConfiguration.discard.discardList =
```

```

''
GetL2CPPortConfig_Output.l2cpPortConfiguration.forward.forwardList =
'16-31'
GetL2CPPortConfig_Output.l2cpPortConfiguration.peer.peerList = '0-15'
GetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetL2CPPortConfig_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"
Decoding of Request message was successful
Decoded record:
SetL2CPPortConfig_Input.l2cpPortConfiguration.enabled = true
SetL2CPPortConfig_Input.l2cpPortConfiguration.portNumber = 3
SetL2CPPortConfig_Input.l2cpPortConfiguration.discard.discardList =
''
SetL2CPPortConfig_Input.l2cpPortConfiguration.forward.forwardList =
'16-31'
SetL2CPPortConfig_Input.l2cpPortConfiguration.peer.peerList = '0-15'
Encoding of Response message was successful
Encoded record:
SetL2CPPortConfig_Output.l2cpPortConfigResponse = 0
SetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
SetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
SetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
SetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
SetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
SetL2CPPortConfig_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"

```

- The examples shows how to enable L2CP Forward on a port.

```

Switch(config)#controller nid 1/1
Switch(config-controller)#
Switch(config-controller)#ProvisionL2CPPortType ?
<cr>

Switch(config-controller-ProvisionL2CPPortType)#?
ProvisionL2CPPortType sub-mode commands:
  default          Set a command to its defaults
  exit             Exit from ProvisionL2CPPortType sub configuration mode
  getL2CPPortConfig Get current L2CP configuration request
  no              Negate a command or set its defaults
  setL2CPPortConfig Configure L2CP forward on EVCs on this port

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig ?
  commit          commit setL2CPPortConfig
  flush          flush all setL2CPPortConfig commands from queue
  l2cpPortConfiguration Configure L2CP forward on EVCs on this port
  review         review setL2CPPortConfig commands

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(config-controller-ProvisionL2CPPortType)#spPortConfiguration ?
  discard        Discard L2CP frames

```

```

enabled      L2CP configuration enabled/disabled on this port
forward      Allow forwarding of L2CP frames
peer         Redirect L2CP frames to local protocol entity
portNumber   Port number to configure L2CP

```

```

Switch(config-controller-ProvisionL2CPPortType)#$uration portNumber 3
Switch(config-controller-ProvisionL2CPPortType)#$uration enabled enable
Switch(config-controller-ProvisionL2CPPortType)#$uration forward for
Switch(config-controller-ProvisionL2CPPortType)#$orward forwardList 1-14
Switch(config-controller-ProvisionL2CPPortType)#
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
    setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14
    setL2CPPortConfig l2cpPortConfiguration portNumber 3
    setL2CPPortConfig l2cpPortConfiguration enabled enable
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig commit
SetL2CPPortConfig Commit Success!!!

```

The following is a sample output on the NID.

```

#
Decoding of Request message was successful
Decoded record:
GetL2CPPortConfig_Input.l2cpPort = 3
Encoding of Response message was successful
Encoded record:
GetL2CPPortConfig_Output.l2cpPortConfiguration.enabled = true
GetL2CPPortConfig_Output.l2cpPortConfiguration.portNumber = 3
GetL2CPPortConfig_Output.l2cpPortConfiguration.discard.discardList =
''
GetL2CPPortConfig_Output.l2cpPortConfiguration.forward.forwardList =
'16-31'
GetL2CPPortConfig_Output.l2cpPortConfiguration.peer.peerList = '0-15'
GetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetL2CPPortConfig_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"
Decoding of Request message was successful
Decoded record:
SetL2CPPortConfig_Input.l2cpPortConfiguration.enabled = true
SetL2CPPortConfig_Input.l2cpPortConfiguration.portNumber = 3
SetL2CPPortConfig_Input.l2cpPortConfiguration.discard.discardList =
''
SetL2CPPortConfig_Input.l2cpPortConfiguration.forward.forwardList =
'1-14'
SetL2CPPortConfig_Input.l2cpPortConfiguration.peer.peerList = '0-15'
Encoding of Response message was successful
Encoded record:
SetL2CPPortConfig_Output.l2cpPortConfigResponse = 0
SetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
SetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
SetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
SetL2CPPortConfig_Output.xmlns:soap =

```

```
"http://schemas.xmlsoap.org/wsdl/soap/"
SetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
SetL2CPPortConfig_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"

#show running-config interface GigabitEthernet 1/3
```

```
Building configuration...
interface GigabitEthernet 1/3
 switchport hybrid allowed vlan 1
 switchport hybrid acceptable-frame-type untagged
 switchport hybrid ingress-filtering
 switchport hybrid port-type unaware
 switchport mode trunk
 lldp med type end-point
 qos dscp-remark rewrite
 evc l2cp forward 1-14
```

- The examples shows how to enable L2CP Forward, Peer, Discard on a port.

```
Switch(config)#controller nid 1/1
Switch(config-controller)#
Switch(config-controller)#ProvisionL2CPPortType ?
<cr>

Switch(config-controller-ProvisionL2CPPortType)#?
ProvisionL2CPPortType sub-mode commands:
  default      Set a command to its defaults
  exit         Exit from ProvisionL2CPPortType sub configuration mode
  getL2CPPortConfig  Get current L2CP configuration request
  no          Negate a command or set its defaults
  setL2CPPortConfig  Configure L2CP forward on EVCs on this port

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig ?
  commit      commit setL2CPPortConfig
  flush      flush all setL2CPPortConfig commands from queue
  l2cpPortConfiguration  Configure L2CP forward on EVCs on this port
  review     review setL2CPPortConfig commands

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(config-controller-ProvisionL2CPPortType)#$pPortConfiguration ?
  discard    Discard L2CP frames
  enabled    L2CP configuration enabled/disabled on this port
  forward    Allow forwarding of L2CP frames
  peer       Redirect L2CP frames to local protocol entity
  portNumber Port number to configure L2CP

Switch(config-controller-ProvisionL2CPPortType)#$guration portNumber 3
Switch(config-controller-ProvisionL2CPPortType)#$guration enabled enable
Switch(config-controller-ProvisionL2CPPortType)#$guration forward for
Switch(config-controller-ProvisionL2CPPortType)#$orward forwardList 1-14
Switch(config-controller-ProvisionL2CPPortType)#$peer peerList 16-20
Switch(config-controller-ProvisionL2CPPortType)#$guration discard di
Switch(config-controller-ProvisionL2CPPortType)#$iscard discardList 19
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
  setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20
  setL2CPPortConfig l2cpPortConfiguration discard discardList 19
  setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
  setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20
  setL2CPPortConfig l2cpPortConfiguration discard discardList 19
```



```

    setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig commit
SetL2CPPortConfig Commit Success!!!

```

The following is a sample output on the NID.

```

# Decoding of Request message was successful
Decoded record:
GetL2CPPortConfig_Input.l2cpPort = 3
Encoding of Response message was successful
Encoded record:
GetL2CPPortConfig_Output.l2cpPortConfiguration.enabled = true
GetL2CPPortConfig_Output.l2cpPortConfiguration.portNumber = 3
GetL2CPPortConfig_Output.l2cpPortConfiguration.discard.discardList =
' '
GetL2CPPortConfig_Output.l2cpPortConfiguration.forward.forwardList =
'1-14'
GetL2CPPortConfig_Output.l2cpPortConfiguration.peer.peerList = '0-15'
GetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetL2CPPortConfig_Output.xmlns:wSDL =
"http://schemas.xmlsoap.org/wsdl/"
Decoding of Request message was successful
Decoded record:
SetL2CPPortConfig_Input.l2cpPortConfiguration.enabled = true
SetL2CPPortConfig_Input.l2cpPortConfiguration.portNumber = 3
SetL2CPPortConfig_Input.l2cpPortConfiguration.discard.discardList =
'19'
SetL2CPPortConfig_Input.l2cpPortConfiguration.forward.forwardList =
'1-14'
SetL2CPPortConfig_Input.l2cpPortConfiguration.peer.peerList = '16-20'
Encoding of Response message was successful
Encoded record:
SetL2CPPortConfig_Output.l2cpPortConfigResponse = 0
SetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
SetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
SetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
SetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
SetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
SetL2CPPortConfig_Output.xmlns:wSDL =
"http://schemas.xmlsoap.org/wsdl/"

# show running-config interface GigabitEthernet 1/3

Building configuration...
interface GigabitEthernet 1/3
  switchport hybrid allowed vlan 1
  switchport hybrid acceptable-frame-type untagged
  switchport hybrid ingress-filtering

```

```

switchport hybrid port-type unaware
switchport mode trunk
lldp med type end-point
qos dscp-remark rewrite
evc l2cp peer 16-18,20 forward 1-14 discard 19
!
end

```

- The examples shows how to disable or reset L2CP Discard on a port.

```

Switch(config)#controller nid 1/1
Switch(config-controller)#
Switch(config-controller)#ProvisionL2CPPortType ?
<cr>

Switch(config-controller-ProvisionL2CPPortType)#?
ProvisionL2CPPortType sub-mode commands:
  default      Set a command to its defaults
  exit         Exit from ProvisionL2CPPortType sub configuration mode
  getL2CPPortConfig  Get current L2CP configuration request
  no          Negate a command or set its defaults
  setL2CPPortConfig  Configure L2CP forward on EVCs on this port

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig ?
  commit      commit setL2CPPortConfig
  flush      flush all setL2CPPortConfig commands from queue
  l2cpPortConfiguration  Configure L2CP forward on EVCs on this port
  review     review setL2CPPortConfig commands

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(config-controller-ProvisionL2CPPortType)#SpPortConfiguration ?
  discard    Discard L2CP frames
  enabled    L2CP configuration enabled/disabled on this port
  forward    Allow forwarding of L2CP frames
  peer      Redirect L2CP frames to local protocol entity
  portNumber Port number to configure L2CP

Switch(config-controller-ProvisionL2CPPortType)#$guration portNumber 3
Switch(config-controller-ProvisionL2CPPortType)#$guration enabled enable
Switch(config-controller-ProvisionL2CPPortType)#$guration discard di
Switch(config-controller-ProvisionL2CPPortType)#$iscard discardList no
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
  setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20
  setL2CPPortConfig l2cpPortConfiguration discard discardList 19
  setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
  setL2CPPortConfig l2cpPortConfiguration discard discardList no

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig commit
SetL2CPPortConfig Commit Success!!!

```

The following is a sample output on the NID.

```

# Decoding of Request message was successful
Decoded record:
GetL2CPPortConfig_Input.l2cpPort = 3
Encoding of Response message was successful
Encoded record:
GetL2CPPortConfig_Output.l2cpPortConfiguration.enabled = true
GetL2CPPortConfig_Output.l2cpPortConfiguration.portNumber = 3
GetL2CPPortConfig_Output.l2cpPortConfiguration.discard.discardList =
'19'

```

```

GetL2CPPortConfig_Output.l2cpPortConfiguration.forward.forwardList =
'1-14'
GetL2CPPortConfig_Output.l2cpPortConfiguration.peer.peerList = '16-20'
GetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetL2CPPortConfig_Output.xmlns:wSDL =
"http://schemas.xmlsoap.org/wsdl/"
Decoding of Request message was successful
Decoded record:
SetL2CPPortConfig_Input.l2cpPortConfiguration.enabled = true
SetL2CPPortConfig_Input.l2cpPortConfiguration.portNumber = 3
SetL2CPPortConfig_Input.l2cpPortConfiguration.discard.discardList =
'no'
SetL2CPPortConfig_Input.l2cpPortConfiguration.forward.forwardList =
'1-14'
SetL2CPPortConfig_Input.l2cpPortConfiguration.peer.peerList = '16-20'
Encoding of Response message was successful
Encoded record:
SetL2CPPortConfig_Output.l2cpPortConfigResponse = 0
SetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
SetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
SetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
SetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
SetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
SetL2CPPortConfig_Output.xmlns:wSDL =
"http://schemas.xmlsoap.org/wsdl/"

# show running-config interface GigabitEthernet 1/3

Building configuration...
interface GigabitEthernet 1/3
  switchport hybrid allowed vlan 1
  switchport hybrid acceptable-frame-type untagged
  switchport hybrid ingress-filtering
  switchport hybrid port-type unaware
  switchport mode trunk
  lldp med type end-point
  qos dscp-remark rewrite
  evc l2cp peer 16-20 forward 1-14

```

- The examples shows how to retrieve current configuration on a NID.

```

Switch(config-controller-ProvisionL2CPPortType)#getL2CPPortConfig ?
  commit    commit getL2CPPortConfig
  flush     flush all getL2CPPortConfig commands from queue
  l2cpPort  Get current L2CP configuration request
  review    review getL2CPPortConfig commands

Switch(config-controller-ProvisionL2CPPortType)#getL2CPPortConfig l2cpPort ?
<1-6> Get L2CP Port Configuration Request

```

```
Switch(config-controller-ProvisionL2CPPortType)#$Config l2cpPort 3 ?
<cr>
Switch(config-controller-ProvisionL2CPPortType)#getL2CPPortConfig review
Commands in queue:
    getL2CPPortConfig l2cpPort 3
Switch(config-controller-ProvisionL2CPPortType)#
Switch(config-controller-ProvisionL2CPPortType)#getL2CPPortConfig commit
GetL2CPPortConfig_Output.l2cpPortConfiguration.enabled = true
GetL2CPPortConfig_Output.l2cpPortConfiguration.portNumber = 3
GetL2CPPortConfig_Output.l2cpPortConfiguration.discard.discardList = 'no'
GetL2CPPortConfig_Output.l2cpPortConfiguration.forward.forwardList = '1-14'
GetL2CPPortConfig_Output.l2cpPortConfiguration.peer.peerList = '16-20'
```

GetL2CPPortConfig Commit Success!!!

The following is a sample output on the NID.

```
# Decoding of Request message was successful
Decoded record:
GetL2CPPortConfig_Input.l2cpPort = 3
Encoding of Response message was successful
Encoded record:
GetL2CPPortConfig_Output.l2cpPortConfiguration.enabled = true
GetL2CPPortConfig_Output.l2cpPortConfiguration.portNumber = 3
GetL2CPPortConfig_Output.l2cpPortConfiguration.discard.discardList =
'no'
GetL2CPPortConfig_Output.l2cpPortConfiguration.forward.forwardList =
'1-14'
GetL2CPPortConfig_Output.l2cpPortConfiguration.peer.peerList = '16-20'
GetL2CPPortConfig_Output.xmlns:ns0 = "http://new.webservice.namespace"
GetL2CPPortConfig_Output.xmlns:http =
"http://schemas.xmlsoap.org/wsdl/http/"
GetL2CPPortConfig_Output.xmlns:mime =
"http://schemas.xmlsoap.org/wsdl/mime/"
GetL2CPPortConfig_Output.xmlns:soap =
"http://schemas.xmlsoap.org/wsdl/soap/"
GetL2CPPortConfig_Output.xmlns:soapenc =
"http://schemas.xmlsoap.org/soap/encoding/"
GetL2CPPortConfig_Output.xmlns:wsdl =
"http://schemas.xmlsoap.org/wsdl/"
```

- The examples shows how to flush L2CP configuration on a port.

```
Switch(config)#controller nid 1/1
Switch(config-controller)#
Switch(config-controller)#ProvisionL2CPPortType ?
<cr>

Switch(config-controller-ProvisionL2CPPortType)#?
ProvisionL2CPPortType sub-mode commands:
    default      Set a command to its defaults
    exit         Exit from ProvisionL2CPPortType sub configuration mode
    getL2CPPortConfig  Get current L2CP configuration request
    no           Negate a command or set its defaults
    setL2CPPortConfig  Configure L2CP forward on EVCs on this port

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig ?
    commit      commit setL2CPPortConfig
    flush       flush all setL2CPPortConfig commands from queue
    l2cpPortConfiguration  Configure L2CP forward on EVCs on this port
    review      review setL2CPPortConfig commands

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
    setL2CPPortConfig l2cpPortConfiguration portNumber 3
    setL2CPPortConfig l2cpPortConfiguration enabled enable
```

```

        setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14
        setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig flush
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
No commands in queue

```

- The examples shows how to remove specific configuration CLI from a CPE NID controller.

```

Switch(config)#controller nid 1/1
Switch(config-controller)#
Switch(config-controller)#ProvisionL2CPPortType ?
<cr>

Switch(config-controller-ProvisionL2CPPortType)#?
ProvisionL2CPPortType sub-mode commands:
  default          Set a command to its defaults
  exit             Exit from ProvisionL2CPPortType sub configuration mode
  getL2CPPortConfig Get current L2CP configuration request
  no              Negate a command or set its defaults
  setL2CPPortConfig Configure L2CP forward on EVCs on this port

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig ?
  commit          commit setL2CPPortConfig
  flush          flush all setL2CPPortConfig commands from queue
  l2cpPortConfiguration Configure L2CP forward on EVCs on this port
  review         review setL2CPPortConfig commands

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
  setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14
  setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20

Switch(config-controller-ProvisionL2CPPortType)#no setL2CPPortConfig l2cpPor$
Switch(config-controller-ProvisionL2CPPortType)#$n forward forwardList 1-14
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
  setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20

Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
  setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20
Switch(config-controller-ProvisionL2CPPortType)#setL2CPPortConfig commit
SetL2CPPortConfig Commit Success!!!

```

