



## Configuring L2CP

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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.
- NID must have an IP address.

## 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.

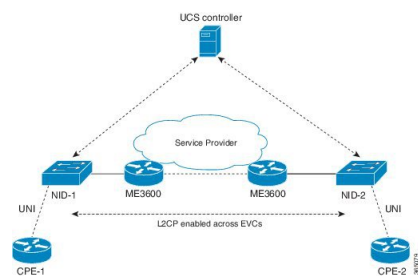
In this case, UCS Controller and NID are used to establish an EVC between UNI ports of two Customer Premise Equipment (CPE).

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 the UCS Controller.

**Figure 1: L2CP Topology**



## Configuring L2CP Using a UCS Controller

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>ConfigureNID</b>  <b>Example:</b> UCS# Configure NID 1	Opens a new session for NID 1.
<b>Step 2</b>	<b>ProvisionL2CPPortType</b>  <b>Example:</b> UCS# ProvisionL2CPPortType	Enters the ProvisionL2CPPortType mode.

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

	Command or Action	Purpose
<b>Step 6</b>	<b>setL2CPPortConfig review</b>  <b>Example:</b> UCS(L2CPPortType)# setL2CPPortConfig review	(Optional) Displays the configuration.
<b>Step 7</b>	<b>setL2CPPortConfig flush</b>  <b>Example:</b> UCS(L2CPPortType)# setL2CPPortConfig flush	(Optional) Flushes the configuration.
<b>Step 8</b>	<b>setL2CPPortConfig commit</b>  <b>Example:</b> UCS(L2CPPortType)# setL2CPPortConfig commit	Sends the configuration to NID.
<b>Step 9</b>	<b>getL2CPPortConfig l2cpPort l2cpPort_number</b>  <b>Example:</b> UCS(ProvisionL2CPPortType)# getL2CPPortConfig l2cpPort 5	Retrieves current L2CP configuration for a specified port. <ul style="list-style-type: none"> <li>• <b>l2cpPort</b>—Specifies L2CP port configuration request.</li> <li>• <b>l2cpPort_number</b>—L2CP port number. The valid range is from 1 to 6.</li> </ul>
<b>Step 10</b>	<b>getL2CPPortConfig review</b>  <b>Example:</b> UCS(ProvisionL2CPPortType)# getL2CPPortConfig review	(Optional) Displays the configuration.
<b>Step 11</b>	<b>getL2CPPortConfig flush</b>  <b>Example:</b> UCS(ProvisionL2CPPortType)# getL2CPPortConfig flush	(Optional) Flushes the configuration.
<b>Step 12</b>	<b>getL2CPPortConfig commit</b>  <b>Example:</b> UCS(ProvisionL2CPPortType)# getL2CPPortConfig commit	Sends the configuration to NID.
<b>Step 13</b>	<b>exit</b>  <b>Example:</b> UCS(ProvisionL2CPPortType)# exit	Exits the ProvisionL2CPPortType mode.

### Configuration Example

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

```
UCS# ProvisionL2CPPortType ?
  <cr>

UCS(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

UCS(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

UCS(ProvisionL2CPPortType)#setL2CPPortConfig l2
UCS(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

UCS(ProvisionL2CPPortType)#$guration portNumber 3
UCS(ProvisionL2CPPortType)#$guration enabled enable

UCS(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
UCS(ProvisionL2CPPortType)#setL2CPPortConfig commit
SetL2CPPortConfig Commit Success!!!

```

When SetL2CPPortConfig operation is executed on a NID from a UCS 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.

```

UCS# ProvisionL2CPPortType ?
<cr>

UCS (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

UCS (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

UCS (ProvisionL2CPPortType)#setL2CPPortConfig l2
UCS (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

UCS (ProvisionL2CPPortType)#$guration portNumber 3
UCS (ProvisionL2CPPortType)#$guration enabled enable
UCS (ProvisionL2CPPortType)#$guration forward for
UCS (ProvisionL2CPPortType)#$orward forwardList 1-14
UCS (ProvisionL2CPPortType)#
UCS (ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
  setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14
  setL2CPPortConfig l2cpPortConfiguration portNumber 3
  setL2CPPortConfig l2cpPortConfiguration enabled enable
UCS (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.

```

UCS# ProvisionL2CPPortType ?
  <cr>

UCS (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

UCS (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

UCS (ProvisionL2CPPortType)#setL2CPPortConfig l2
UCS (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

UCS (ProvisionL2CPPortType)#$guration portNumber 3
UCS (ProvisionL2CPPortType)#$guration enabled enable
UCS (ProvisionL2CPPortType)#$guration forward for
UCS (ProvisionL2CPPortType)#$orward forwardList 1-14
UCS (ProvisionL2CPPortType)#$peer peerList 16-20
UCS (ProvisionL2CPPortType)#$guration discard di
UCS (ProvisionL2CPPortType)#$iscard discardList 19
UCS (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

UCS (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
UCS (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.

```

UCS# ProvisionL2CPPortType ?
  <cr>

UCS(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

UCS(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

UCS(ProvisionL2CPPortType)#setL2CPPortConfig l2
UCS(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

UCS (ProvisionL2CPPortType)#$guration portNumber 3
UCS (ProvisionL2CPPortType)#$guration enabled enable
UCS (ProvisionL2CPPortType)#$guration discard di
UCS (ProvisionL2CPPortType)#$iscard discardList no
UCS (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

UCS (ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
    setL2CPPortConfig l2cpPortConfiguration portNumber 3
    setL2CPPortConfig l2cpPortConfiguration enabled enable
    setL2CPPortConfig l2cpPortConfiguration discard discardList no

UCS (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.

```
UCS(ProvisionL2CPPortType)#getL2CPPortConfig ?
  commit      commit getL2CPPortConfig
  flush       flush all getL2CPPortConfig commands from queue
  l2cpPort    Get current L2CP configuration request
  review      review getL2CPPortConfig commands

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

UCS(ProvisionL2CPPortType)#$Config l2cpPort 3 ?
  <cr>
UCS(ProvisionL2CPPortType)#getL2CPPortConfig review
Commands in queue:
  getL2CPPortConfig l2cpPort 3
UCS(ProvisionL2CPPortType)#
UCS(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.

```

UCS# ProvisionL2CPPortType ?
<cr>

UCS(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

UCS(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

UCS(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
UCS(ProvisionL2CPPortType)#setL2CPPortConfig flush
UCS(ProvisionL2CPPortType)#setL2CPPortConfig review
No commands in queue

```

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

```

UCS# ProvisionL2CPPortType ?
<cr>

UCS(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

UCS(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

UCS(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

UCS(ProvisionL2CPPortType)#no setL2CPPortConfig l2cpPor$
UCS(ProvisionL2CPPortType)#$n forward forwardList 1-14

```

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

