Configuring L2CP

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

Prerequisites for Configuring L2CP

- 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
  ```

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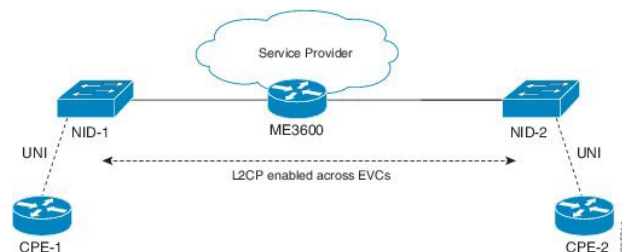
L2CP handling is required for edge switches providing Ethernet Virtual Connections (EVCs) in a service provider network.

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 NID 1 and NID 2.

Figure 1: L2CP Topology

Configuring L2CP Using a Cisco ME 1200 NID

DETAILED STEPS

	Command or Action	Purpose
Step 1	ProvisionL2CPPortType **Example:** `Switch# ProvisionL2CPPortType`	Enters the ProvisionL2CPPortType mode.

Step 2	ProvisionL2CPPortType {**default** | **exit** | **getL2CPPortConfig** | **no** | **setL2CPPortConfig**}
	
	Example:
	`Switch# ProvisionL2CPPortType`
		Sub-command options.
		
		  • **default**—Sets a command to its defaults.
		
		  • **exit**—Exits from ProvisionL2CPPortType sub configuration mode.
		
		  • **getL2CPPortConfig**—Retrieves current L2CP configuration request.

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	Command or Action	Purpose
		• **no**—Negates a command or set its defaults.
		• **setL2CPPortConfig**—Configures L2CP forward on EVCs on this port.

Step 3	**getL2CPPortConfig l2cpPort** *l2cpPort-number*
	
	Example:
	`Switch(ProvisionL2CPPortType)#`
	`getL2CPPortConfig l2cpPort 5`
		Retrieves initial or default L2CP configuration.
		
		• **l2cpPort**—Specifies L2CP port configuration request.
		• *l2cpPort-number*—L2CP port number. The valid range is from 1 to 6.

Step 4	**setL2CPPortConfig l2cpPortConfiguration** {**enabled** | **portNumber** *portNumber* | **discard** {**discardList** *discardList-range*} | **forward** {**forwardList** *forwardList-range*} | **peer** {**peerList** *peerList-range*}}
	
	Example:
	`Switch(ProvisionL2CPPortType)#`
	`setL2CPPortConfig l2cpPortConfiguration`
	`portNumber 5`
	`Switch(ProvisionL2CPPortType)#`
	`setL2CPPortConfig l2cpPortConfiguration`
	`enabled enable`
		Sets up L2CP forward/peer/discard configuration request on all EVCs on this port.
		
		• **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).
		• **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 5	**setL2CPPortConfig review** **Example:** `Switch(L2CPPortType)# setL2CPPortConfig review`	(Optional) Displays the configuration.

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	Command or Action	Purpose
Step 6	**setL2CPPortConfig flush** **Example:** Switch(L2CPPortType)# setL2CPPortConfig flush	(Optional) Flushes the configuration.
Step 7	**setL2CPPortConfig commit** **Example:** Switch(L2CPPortType)# setL2CPPortConfig commit	Sends the configuration to NID.
Step 8	**getL2CPPortConfig l2cpPort** *l2cpPort-number* **Example:** Switch(ProvisionL2CPPortType)# getL2CPPortConfig l2cpPort 5	Retrieves current L2CP configuration for a specified port. • **l2cpPort**—Specifies L2CP port configuration request. • *l2cpPort-number*—L2CP port number. The valid range is from 1 to 6.
Step 9	**getL2CPPortConfig review** **Example:** Switch(ProvisionL2CPPortType)# getL2CPPortConfig review	(Optional) Displays the configuration.
Step 10	**getL2CPPortConfig flush** **Example:** Switch(ProvisionL2CPPortType)# getL2CPPortConfig flush	(Optional) Flushes the configuration.
Step 11	**getL2CPPortConfig commit** **Example:** Switch(ProvisionL2CPPortType)# getL2CPPortConfig commit	Sends the configuration to NID.
Step 12	**exit** **Example:** Switch(ProvisionL2CPPortType)# exit	Exits the ProvisionL2CPPortType mode.

Configuration Example

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

```
Switch#ProvisionL2CPPortType ?
  <cr>

Switch(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
```

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```
Switch(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(ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(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(ProvisionL2CPPortType)#$guration portNumber 3
Switch(ProvisionL2CPPortType)#$guration enabled enable

Switch(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(ProvisionL2CPPortType)#setL2CPPortConfig commit
 SetL2CPPortConfig Commit Success!!!
```

When SetL2CPPortConfig operation is executed on a NID from a Cisco ME 1200 NID , 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
```

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```
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#ProvisionL2CPPortType ?
  <cr>

Switch(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(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(ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(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(ProvisionL2CPPortType)#$guration portNumber 3
Switch(ProvisionL2CPPortType)#$guration enabled enable
Switch(ProvisionL2CPPortType)#$guration forward for
Switch(ProvisionL2CPPortType)#$orward forwardList 1-14
Switch(ProvisionL2CPPortType)#
Switch(ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
        setL2CPPortConfig l2cpPortConfiguration forward forwardList 1-14
        setL2CPPortConfig l2cpPortConfiguration portNumber 3
        setL2CPPortConfig l2cpPortConfiguration enabled enable
Switch(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 =
 ''
```

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```
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#ProvisionL2CPPortType ?
  <cr>

Switch(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(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(ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(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(ProvisionL2CPPortType)#$guration portNumber 3
Switch(ProvisionL2CPPortType)#$guration enabled enable
Switch(ProvisionL2CPPortType)#$guration forward for
Switch(ProvisionL2CPPortType)#$orward forwardList 1-14
Switch(ProvisionL2CPPortType)#$peer peerList 16-20
Switch(ProvisionL2CPPortType)#$guration discard di
Switch(ProvisionL2CPPortType)#$iscard discardList 19
Switch(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(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(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 =
```

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```
"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#ProvisionL2CPPortType ?
  <cr>

Switch(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(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(ProvisionL2CPPortType)#setL2CPPortConfig l2
Switch(ProvisionL2CPPortType)#$pPortConfiguration ?
  discard     Discard L2CP frames
```

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```
      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(ProvisionL2CPPortType)#$guration portNumber 3
Switch(ProvisionL2CPPortType)#$guration enabled enable
Switch(ProvisionL2CPPortType)#$guration discard di
Switch(ProvisionL2CPPortType)#$iscard discardList no
Switch(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(ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
      setL2CPPortConfig l2cpPortConfiguration portNumber 3
      setL2CPPortConfig l2cpPortConfiguration enabled enable
      setL2CPPortConfig l2cpPortConfiguration discard discardList no

Switch(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"
```

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

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

Switch(ProvisionL2CPPortType)#$Config l2cpPort 3 ?
  <cr>
Switch(ProvisionL2CPPortType)#getL2CPPortConfig review
Commands in queue:
      getL2CPPortConfig l2cpPort 3
Switch(ProvisionL2CPPortType)#
Switch(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'
```

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```
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#ProvisionL2CPPortType ?
  <cr>

Switch(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(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(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(ProvisionL2CPPortType)#setL2CPPortConfig flush
Switch(ProvisionL2CPPortType)#setL2CPPortConfig review
 No commands in queue
```

• The examples shows how to remove specific configuration CLI from a Cisco ME 1200 NID .

```
Switch#ProvisionL2CPPortType ?
  <cr>

Switch(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(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(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(ProvisionL2CPPortType)#no setL2CPPortConfig l2cpPor$
```

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```
Switch(ProvisionL2CPPortType)#$n forward forwardList 1-14
Switch(ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
        setL2CPPortConfig l2cpPortConfiguration portNumber 3
        setL2CPPortConfig l2cpPortConfiguration enabled enable
        setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20
Switch(ProvisionL2CPPortType)#setL2CPPortConfig review
Commands in queue:
        setL2CPPortConfig l2cpPortConfiguration portNumber 3
        setL2CPPortConfig l2cpPortConfiguration enabled enable
        setL2CPPortConfig l2cpPortConfiguration peer peerList 16-20
Switch(ProvisionL2CPPortType)#setL2CPPortConfig commit
 SetL2CPPortConfig Commit Success!!!
```

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