



C Commands

This chapter describes the Cisco NX-OS Multiprotocol Label Switching commands that begin with C.

cbts-member tunnel-te

To configure a class-based tunnel selection (CBTS) tunnel interface type, use the **cbts-member tunnel-te** command. To restore the system to its default condition, use the **no** form of this command.

cbts-member tunnel-te *number*

no cbts-member tunnel-te *number*

Syntax Description	<i>number</i>	Tunnel interface number. The range is from 0 to 65503.
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Defaults	None
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Command Modes	TE Interface configuration mode
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SupportedUserRoles	network-admin vdc-admin
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Command History	Release	Modification
	5.2(1)	This command was introduced.

Usage Guidelines	You cannot configure the traffic engineering (TE) commands on these class-based tunnel selection (CBTS) member tunnels (auto-bw ; backup-bw ; description ; destination ; fowarding-adjacency ; inherit ; source).
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Note

All the tunnel-te configured commands, except for exp and path-option, are inherited by the CBTS-member LSP when they are configured on the tunnel headend interface. If the command is entered independently of or on the CBTS-member LSP, it takes precedence and overrides the config on the tunnel headend interface for that CBTS-member LSP. When the configuration is removed from the cbts-member LSP, the configuration on the tunnel headend interface is inherited by the CBTS-member LSP.

This command requires the MPLS Services license.

Examples	This example shows how to configure a CBTS tunnel interface type:
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```
switch# configure terminal
switch(config)# interface tunnel-te 1
switch(config-if-te)# cbts-member tunnel-te 251
switch(config-cbts-member)
```

Related Commands

Command	Description
interface tunnel-te	Configures the traffic engineering (TE) interface.

class

To specify the class name of the policy that you want to create or change, use the **class** command. To return to the default setting, use the **no** form of this command.

```
class [type qos] {class-map-name | class-default}
```

```
no class [type qos] {class-map-name | class-default}
```

Syntax Description

type	(Optional) Specifies the type of class.
qos	(Optional) Specifies the match on a QoS class.
<i>class-map-name</i>	Name of the class to configure or modify the policy. The maximum size is 40 alphanumeric characters.
class-default	Specifies a predefined class to which traffic is directed if that traffic does not match any of the match criteria in the configured class maps.

Defaults

None

Command Modes

Class-map configuration mode

Supported User Roles

network-admin
vdc-admin

Command History

Release	Modification
4.0(1)	This command was introduced.

Usage Guidelines

This command requires the MPLS Services license.

Examples

This example shows how to specify the class name of the policy that you want to create or change:

```
switch# configure terminal
switch(config)# policy-map type qos policy1
switch(config-pmap-qos)# class class2
switch(config-pmap-c-qos)#
```

Related Commands

Command	Description
mpls ldp configuration	Configures the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP).

class-map

To configure a class map, use the **class-map** command. To return to the default setting, use the **no** form of this command.

```
class-map [type qos] [match-all] [match-any] class-map-name
```

```
no class-map [type qos] [match-all] [match-any] class-map-name
```

Syntax Description	type	(Optional) Specifies the type of the class map.
	qos	(Optional) Specifies the QoS class.
	match-all	(Optional) Specifies logical AND for all match statements under this class map.
	match-any	(Optional) Specifies logical OR for all match statements under this class map.
	<i>class-map-name</i>	Class-map name. The maximum size is case-sensitive, alphanumeric 40 characters.

Defaults None

Command Modes Class-map configuration mode

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

Usage Guidelines This command requires the MPLS Services license.

Examples This example shows how to specify the logical AND for all match statements under this class map:

```
switch# configure terminal
switch(config)# class-map type qos match-all class-2
switch(config-cmap-qos)#
```

This example shows how to specify the logical OR for all match statements under this class map:

```
switch# configure terminal
switch(config)# class-map type qos match-any class-2
switch(config-cmap-qos)#
```

Related Commands	Command	Description
	mpls ldp configuration	Configures the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP).

control-word

To enable the control word support, use the **control-word** command.

control-word {**exclude** | **include**}

Syntax Description	exclude	Specifies to exclude the control word in the pseudowire packet.
	include	Specifies to include the control word in the pseudowire packet.

Defaults None

Command Modes config-if-pseudowire mode

Supported User Roles network-admin
vdc-admin

Command History	Release	Modification
	6.2.2	This command was introduced.

Usage Guidelines A device can receive a packet with or without the control word and the control word capability is negotiated with the peer. However, the device cannot generate a sequence number in the control word if the control word is added to the ingress device.

This command requires the MPLS Services license.

Examples This example shows how to enable the control word support:

```
switch# configure terminal
switch(config)# interface pseudowire 12
switch(config-if-pseudowire)# control-word include
switch(config-if-pseudowire)#
```

Related Commands	Command	Description
	interface pseudowire	Enters interface pseudowire configuration mode and configures a static pseudowire logical interface.

copy running-config startup-config

To copy the running configuration to the startup configuration, use the **copy running-config startup-config** command.

copy running-config startup-config

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Global configuration mode

SupportedUserRoles network-admin
vdc-admin

Command History	Release	Modification
	5.2(1)	This command was introduced.

Usage Guidelines When you disable the MPLS Label Distribution Protocol (LDP) on the device, no LDP commands are available.

This command requires the MPLS Services license.

Examples This example shows how to copy the running configuration to the startup configuration:

```
switch(config)# copy running-config startup-config
[#####] 100%
switch(config)#
```

Related Commands	Command	Description
	show running-config interface	Displays information about the interface configuration.

cost-limit

To configure the cost-limit for an individual TE tunnel, use the **cost-limit** command.

```
cost-limit max-cost
```

Syntax Description	<i>max-cost</i>	The maximum permitted cost for the tunnel path.
Command Modes	TE Interface Configuration (config-if)	
Supported Use Roles	network-admin vdc-admin	
Command History	Release	Modification
	7.3(0)D1(1)	This command was introduced.

Examples

The following example shows how to configure cost limit for an individual TE tunnel:

```
switch# configure terminal
switch(config)# interface tunnel-te number
switch(config-if)# cost-limit 4
switch(config-if)#
```

