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B Commands

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

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backoff

To configure session setup delay parameters for the Label Distribution Protocol (LDP) backoff mechanism, use the **backoff** command. To return to the default setting, use the **no** form of this command.

backoff *initial-backoff max-backoff*

no backoff

Syntax Description		
	<i>initial-backoff</i>	Initial backoff value in seconds. The range is from 5 to 2147483.
	<i>max-backoff</i>	Maximum backoff value in seconds. The range is from 5 to 2147483.

Defaults	
	None

Command Modes	
	LDP configuration mode

Supported User Roles	
	network-admin vdc-admin

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

Usage Guidelines	
	This command requires the MPLS Services license.

Examples This example shows how to setup delay parameters for the LDP backoff mechanism:

```
switch(config)# mpls ldp configuration
switch(config-ldp)# backoff 30 240
switch(config-ldp)#
```

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

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backup-bw

To specify whether this tunnel-te, when used as a backup tunnel, should provide bandwidth protection, and how much, use the **backup-bw** command. To restore the system to its default condition, use the **no** form of this command.

backup-bw *bandwidth*

no backup-bw

Syntax Description	<i>bandwidth</i>	Amount of allocatable backup bandwidth. The range is from 1 to 4294967295.
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Defaults	None
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Command Modes	TE interface configuration mode
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Supported User Roles	network-admin vdc-admin
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Command History	Release	Modification
	5.2(1)	This command was introduced.

Usage Guidelines	This command requires the MPLS Services license.
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Examples This example shows how to associate the bandwidth with a backup tunnel:

```
switch# configure terminal
switch(config)# interface tunnel-te 2
switch(config-if-te)# backup-bw 1000
switch(config-if-te)#
```

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

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bandwidth (LSP attribute configuration mode)

To configure the label switched path (LSP) bandwidth, use the **bandwidth** command. To restore the system to its default condition, use the **no** form of this command.

bandwidth *kbps*

no bandwidth

Syntax Description	<i>kbps</i>	Number of kilobits per second set aside for the path option. The range is from 1 to 4294967295.
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Defaults	None
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Command Modes	LSP attribute 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 The following conditions apply for all tunnel engineering (TE) commands that can be specified both in "TE interface configuration mode; path-option command line, or LSP attribute configuration mode:

- If a setting is specified for a label switched path (LSP), either via the path-option command directly or by assigning an LSP attribute list to a path-option, takes this setting precedence for that specific path option.
- If no setting is specified for an LSP, then the LSP/path-option inherits any setting specified in the tunnel-te configuration mode: affinity, auto-bw, priority, record-route, protection/fast-reroute.

The **bandwidth** command configures the initial tunnel bandwidth, which is adjusted by the auto bandwidth mechanism.

This command requires the MPLS Services license.

Examples This example shows how to configure the LSP bandwidth:

```
switch# configure terminal
switch(config)# mpls traffic-eng configuration
switch(config-te)# lsp attributes 1
switch(config-lsp-attr)# bandwidth 5000
```

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Related Commands	Command	Description
	mpls traffic-eng configuration	Configures the Multiprotocol Label Switching (MPLS) Traffic Engineering Protocol (MPLS-TE).

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bandwidth (TE interface configuration mode)

To configure the bandwidth for a Multiprotocol Label Switching (MPLS) traffic engineering (TE) tunnel, use the **bandwidth** command. To restore the system to its default condition, use the **no** form of this command.

bandwidth *bandwidth*

no bandwidth

Syntax Description	<i>bandwidth</i>	Bandwidth in kilobits per second. The range is from 1 to 4294967295.
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Defaults	0
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Command Modes	TE interface configuration mode
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Supported User Roles	network-admin vdc-admin
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Command History	Release	Modification
	5.2(1)	This command was introduced.

Usage Guidelines	This command requires the MPLS Services license.
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Examples	This example shows how to configure the bandwidth for a MPLS TE tunnel:
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```
switch# configure terminal
switch(config)# interface tunnel-te 1
switch(config-if-te)# bandwidth 250
switch(config-if-te)#
```

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

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bfd interval

To set the Bidirectional Forwarding Detection (BFD) intervals for this interface, use the **bfd interval** command. To restore the system to its default condition, use the **no** form of this command.

bfd interval *milliseconds* **min_rx** *milliseconds* **multiplier** *interval-multiplier*

no bfd interval

Syntax Description		
<i>milliseconds</i>		TX interval in milliseconds, which is the required rate at which control packets can be received. The range is from 50 to 999 milliseconds.
min_rx		Specifies minimum RX interval, which is the desired rate for transmitting control packets. The range is from 50 to 999 milliseconds.
multiplier		Specifies the detect multiplier for BFD sessions.
<i>interval-multiplier</i>		Multiplier interval. The range is from 1 to 50 milliseconds.

Defaults	
	Interval milliseconds-50
	Min_rx_50
	Multiplier interval-multiplier-3

Command Modes	
	Interface configuration mode

Supported User Roles	
	network-admin vdc-admin

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

Usage Guidelines	
	This command requires the MPLS Services license.

Examples	
	This example shows how to set the BFD intervals:
	<pre>switch# configure terminal switch# configure terminal switch(config)# interface ethernet 2/2 switch(config-if)# bfd interval 100 min_rx 100 multiplier 4</pre>

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

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bfd slow-timer

To configure the slow mode timer for sessions, use the **bfd slow-timer** command. To restore the system to its default condition, use the **no** form of this command.

bfd slow-timer *milliseconds*

no bfd slow-timer *milliseconds*

Syntax Description	<i>milliseconds</i>	Slow rate timer in milliseconds. The range is from 1000 to 30000 milliseconds.
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Defaults	None
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Command Modes	Global 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	This command requires the MPLS Services license.
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Examples This example shows how to configure the slow mode timer for sessions:

```
switch# configure terminal
switch(config)# bfd slow-timer 1000
switch(config)#
```

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

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