



T Commands

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

table-map

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

table-map *table-map-name*

no table-map *table-map-name*

Syntax Description	<i>table-map-name</i>	Table map name. The maximum size is 40 alphanumeric characters.
Defaults	None	
Command Modes	Table map configuration mode	
SupportedUserRoles	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 configure a table map: <pre>switch# configure terminal switch(config)# table-map TableMap1 switch(config-tmap)</pre>	
Related Commands	Command	Description
	mpls ldp configuration	Configures the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP).

timers lsa-arrival

To configure the link-state advertisement (LSA) arrival time, use the **timer lsa-arrival** command. To return to the default setting, use the **no** form of this command.

timers lsa-arrival *arrive-time*

no timers lsa-arrival *arrive-time*

Syntax Description	<i>arrive-time</i>	Arrival time. The range is from 10 to 600000 milliseconds.
Defaults	1000	
Command Modes	Router 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 LSA arrival time: <pre>switch# configure terminal switch(config)# feature ospf switch(config)# test1 bgp(config-router)# timers lsa-arrival 1200 bgp(config-router)#</pre>	
Related Commands	Command	Description
	mpls ldp configuration	Configures the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP).

timers throttle lsa

To set rate limiting for link-state advertisement (LSA) generation, use the **timers throttle lsa** command. To return to the default setting, use the **no** form of this command.

timers throttle lsa *start-interval hold-interval max-interval*

no timers throttle lsa *start-interval hold-interval max-interval*

Syntax Description

<i>start-interval</i>	Start interval. The range is from 0 to 5000 milliseconds.
<i>hold-interval</i>	Hold interval. The range is from 50 to 30000 milliseconds.
<i>max-interval</i>	Max interval. The range is from 50 to 30000 milliseconds.

Defaults

The defaults are as follows:

- *start-interval*— The default is 0.
- *hold-interval*— The default is 5000.
- *max-interval*— The default is 5000.

Command Modes

Router 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 rate limiting for LSA generation:

```
switch# configure terminal
switch(config)# feature ospf
switch(config)# test1
switch(config-router)# timers throttle lsa 1 500 600
switch(config-router)#
```

Related Commands

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

topology

To configure the Multiprotocol Label Switching (MPLS) topology database, use the **topology** command.

topology holddown sigerr *sec*

Syntax Description	Parameter	Description
	holddown	Specifies the topology database hold down timers.
	sigerr	Specifies the link hold down time for signalling errors.
	<i>sec</i>	Holddown time in seconds. The range is from 0 to 300.

Defaults None

Command Modes TE 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 specify the link hold down time for signalling errors:

```
switch# configure terminal
switch(config)# mpls traffic-eng configuration
switch(config-te)# topology holddown sigerr 200
switch(config-te)#
```

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

tracroute mpls

To test the default path of the Multiprotocol Label Switching (MPLS) Label Distribution Protocol (LDP) from source to destination, use the **tracroute mpls** command.

```
tracroute mpls {ipv4 target address | multipath ipv4 target address | traffic-eng tunnel-te
interface number}
```

Syntax Description		
ipv4		Specifies the target IPv4 address.
<i>target address</i>		Target address.
multipath ipv4		Specifies the label switched path (LSP) multipath traceroute.
traffic-eng		Specifies the target traffic engineering (TE) tunnel interface.
tunnel-te		Specifies the TE interface.
<i>interface number</i>		TE interface number. The range is from 0 to 65503.

Defaults None

Command Modes EXEC mode

SupportedUserRoles 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 specify the target TE tunnel interface:

```
switch# tracroute mpls traffic-eng tunnel-te 1

Tracing MPLS TE Label Switched Path on , timeout is 2 seconds

Codes: '!' - success, 'Q' - request not sent, '.' - timeout,
       'L' - labeled output interface, 'B' - unlabeled output interface,
       'D' - DS Map mismatch, 'F' - no FEC mapping, 'f' - FEC mismatch,
       'M' - malformed request, 'm' - unsupported tlvs, 'N' - no label entry,
       'P' - no rx intf label prot, 'p' - premature termination of LSP,
       'R' - transit router, 'I' - unknown upstream index,
       'X' - unknown return code, 'x' - return code 0

Type Ctrl-C to abort.
0 0.0.0.0 MRU 0 [No Label]
```

```
Q 1 *  
switch#
```

Related Commands

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

