T Commands

This chapter describes the Cisco NX-OS Enhanced Interior Gateway Routing Protocol (EIGRP) commands that begin with T.

timers active-time

To adjust the Enhanced Interior Gateway Routing Protocol (EIGRP) time limit for the active state, use the **timers active-time** command. To disable this function, use the **no** form of the command.

timers active-time [*time-limit* | **disabled**]

no timers active-time

Syntax Description

time-limit	(Optional) Active time limit (in minutes). The range is from 1 to 65535 minutes. The default value is 3.
disabled	(Optional) Disables the timers and permits the routing wait time to remain active indefinitely.

Command Default

Disabled

Command Modes

Address family configuration mode
Router configuration mode
Router VRF configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Use the **timers active-time** command to control the time that the router waits (after a query is sent) before declaring the route to be in the stuck in active (SIA) state.

This command requires the LAN Base Services license.

Examples

This example shows how to configure an indefinite routing wait time on the specified EIGRP route:

```
switch(config)# router eigrp 1
switch(config-router) address-family ipv4 unicast
switch(config-router-af)# timers active-time disabled
switch(config-router-af)#
```

Related Commands

Command	Description
copy running-config startup-config	Saves the configuration changes to the startup configuration file.
show ip eigrp	Displays EIGRP information.

timers nsf converge

To adjust the time limit for nonstop forwarding (NSF) convergence for the Enhanced Interior Gateway Routing Protocol (EIGRP), use the **timers nsf converge** command. To disable this function, use the **no** form of the command.

timers nsf converge *seconds*

no timers nsf converge

Syntax Description

seconds	Time limit for convergence after an NSF switchover (in seconds). The range is from 60 to 180 seconds. The default value is 120.

Command Default

120 seconds

Command Modes

Address family configuration mode
Router configuration mode
Router VRF configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Use the **timers nsf converge** command to control the time that the router waits for convergence after a switchover.

This command requires the LAN Base Services license.

Examples

This example shows how to configure the NSF convergence time for EIGRP:

```
switch(config)# router eigrp 1
switch(config-router) address-family ipv4 unicast
switch(config-router-af)# timers nsf converge 100
switch(config-router-af)#
```

Related Commands

Command	Description
copy running-config startup-config	Saves the configuration changes to the startup configuration file.
show ip eigrp	Displays EIGRP information.

timers nsf route-hold

To set the timer that determines how long an NSF-aware Enhanced Interior Gateway Routing Protocol (EIGRP) router holds routes for an inactive peer, use the **timers nsf route-hold** command. To return the route hold timer to the default value, use the **no** form of this command.

timers nsf route-hold *seconds*

no timers nsf route-hold

Syntax Description

seconds	Time, in seconds, that EIGRP holds routes for an inactive peer. The range is from 20 to 300 seconds. The default is 240.

Command Default

EIGRP NSF awareness is enabled.
seconds: 240

Command Modes

Address family configuration mode
Router configuration mode
Router VRF configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Use the **timers nsf route-hold** command to set the maximum period of time that the NSF-aware router holds known routes for an NSF-capable neighbor during a switchover operation or a well-known failure condition. The route hold timer is configurable so that you can tune network performance and avoid undesired effects, such as "black holing" routes (advertising invalid routes) if the switchover operation takes too much time. When this timer expires, the NSF-aware router scans the topology table and discards any stale routes, allowing EIGRP peers to find alternate routes instead of waiting during a long switchover operation.

This command requires the LAN Base Services license.

Examples

This example shows how to set the route hold timer value for an NSF-aware router to 2 minutes (120 seconds):

```
switch(config)# router eigrp 1
switch(config-router) address-family ipv4 unicast
switch(config-router-af)# timers nsf route-hold 120
```

Related Commands

Command	Description
copy running-config startup-config	Saves the configuration changes to the startup configuration file.
show ip eigrp	Displays EIGRP information.

timers nsf signal

To set the time limit to signal a nonstop forwarding (NSF) restart for the Enhanced Interior Gateway Routing Protocol (EIGRP), use the **timers nsf signal** command. To return the route hold timer to the default, use the **no** form of this command.

timers nsf signal *seconds*

no timers nsf signal

Syntax Description

seconds	Time, in seconds, that EIGRP waits for a peer to signal an NSF restart. The range is from 10 to 360 seconds.

Command Default

EIGRP NSF awareness is enabled

Command Modes

Address family configuration mode
Router configuration mode
Router VRF configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Use the **timers nsf signal** command to set the maximum period of time that the NSF-aware router waits for an NSF-capable neighbor to signal a restart.

This command requires the LAN Base Services license.

Examples

This example shows how to set the signal timer value for an NSF-aware router to the maximum (30 seconds):

```
switch(config)# router eigrp 1
switch(config-router) address-family ipv4 unicast
switch(config-router-af)# timers nsf signal 30
switch(config-router-af)#
```

Related Commands

Command	Description
copy running-config startup-config	Saves the configuration changes to the startup configuration file.
show ip eigrp	Displays EIGRP information.