



## D Commands

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This chapter describes the Cisco NX-OS Hot Standby Router Protocol (HSRP) commands that begin with D.

**Review Draft -- Cisco Confidential**

# delay minimum

To delay the Hot Standby Router Protocol (HSRP) initialization after a reload or after an interface comes up, use the **delay minimum** command. To disable this function, use the **no** form of this command.

**delay minimum** [*min-delay*] **reload** [*reload-delay*]

**no delay minimum** [*min-delay*] **reload** [*reload-delay*]

<b>Syntax Description</b>	<i>min-delay</i>	(Optional) Minimum time (in seconds) to delay HSRP group initialization after an interface comes up. This period applies to all subsequent interface events. The default is 0 seconds.
	<b>reload</b> <i>reload-delay</i>	Specifies the time period to delay HSRP group initialization after the router has reloaded. This period applies only to the first interface-up event after the router has reloaded. The default is 0 seconds.

**Command Default** The HSRP delay default is 0 seconds.

**Command Modes** Interface configuration mode

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

**Usage Guidelines** Use the **delay hsrp** command to delay HSRP initialization either after a reload or after an interface comes up. This configuration allows the interface and router to stabilize after the interface comes up and helps to prevent HSRP state flapping.

**Examples** This example shows how to configure a minimum delay of 3 seconds and a group initialization delay of 10 seconds:

```
switch(config)# configure terminal
switch(config)# interface ethernet 1/5
switch(config-if)# no switchport
switch(config-if)# ip address 172.16.6.5 255.255.255.0
switch(config-if)# hsrp 1
switch(config-if-hsrp)# delay minimum 3 reload 10
switch(config-if-hsrp)# ip 172.16.6.100
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>feature hsrp</b>	Enables the HSRP configuration.