



# H Commands

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This chapter describes the Cisco NX-OS Open Shortest Path First (OSPF) commands that begin with H.

# hello-interval (OSPF virtual link)

To specify the interval between hello packets that Cisco NX-OS sends on an Open Shortest Path First (OSPF) virtual link, use the **hello-interval** command. To return to the default setting, use the **no** form of this command.

**hello-interval** *seconds*

**no hello-interval**

|                           |                |                                                                                                                                 |
|---------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Syntax Description</b> | <i>seconds</i> | Hello interval (in seconds). The value must be the same for all nodes on a specific virtual link. The range is from 1 to 65535. |
|---------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------|

|                        |            |
|------------------------|------------|
| <b>Command Default</b> | 10 seconds |
|------------------------|------------|

|                      |                                 |
|----------------------|---------------------------------|
| <b>Command Modes</b> | Virtual link configuration mode |
|----------------------|---------------------------------|

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|------------------------|----------------|------------------------------|
|                        | 5.2(1)N1(1)    | This command was introduced. |

|                         |                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage Guidelines</b> | Use the <b>hello-interval</b> command in virtual link configuration mode to set the hello interval for OSPF across a virtual link. A shorter hello interval detects topological changes faster but causes more routing traffic. The hello interval must be the same for all devices on a virtual link. |
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This command requires the LAN Base Services license.

|                 |                                                                       |
|-----------------|-----------------------------------------------------------------------|
| <b>Examples</b> | This example shows how to configure the hello interval to 15 seconds: |
|-----------------|-----------------------------------------------------------------------|

```
switch(config)# router ospf 202
switch(config-router)# area 99 virtual-link 192.0.2.4
switch(config-router-vlink)# hello-interval 15
switch(config-router-vlink)#
```

| <b>Related Commands</b> | <b>Command</b>                            | <b>Description</b>                                                                                |
|-------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------|
|                         | <b>copy running-config startup-config</b> | Saves the configuration changes to the startup configuration file.                                |
|                         | <b>dead-interval (virtual link)</b>       | Sets the time period to declare a neighbor as down if the local device receives no hello packets. |
|                         | <b>show ip ospf virtual-link</b>          | Displays OSPF virtual link information.                                                           |