



Null Interface Commands



Note All commands applicable for the Cisco NCS 5500 Series Router are also supported on the Cisco NCS 540 Series Router that is introduced from Cisco IOS XR Release 6.3.2. References to earlier releases in Command History tables apply to only the Cisco NCS 5500 Series Router.



- Note**
- Starting with Cisco IOS XR Release 6.6.25, all commands applicable for the Cisco NCS 5500 Series Router are also supported on the Cisco NCS 560 Series Routers.
 - Starting with Cisco IOS XR Release 6.3.2, all commands applicable for the Cisco NCS 5500 Series Router are also supported on the Cisco NCS 540 Series Router.
 - References to releases before Cisco IOS XR Release 6.3.2 apply to only the Cisco NCS 5500 Series Router.
 - Cisco IOS XR Software Release 7.0.1 specific updates are not applicable for the following variants of Cisco NCS 540 Series Routers:
 - N540-28Z4C-SYS-A
 - N540-28Z4C-SYS-D
 - N540X-16Z4G8Q2C-A
 - N540X-16Z4G8Q2C-D
 - N540X-16Z8Q2C-D
 - N540-12Z20G-SYS-A
 - N540-12Z20G-SYS-D
 - N540X-12Z16G-SYS-A
 - N540X-12Z16G-SYS-D

This module provides command line interface (CLI) commands for configuring null interfaces on the Cisco NCS 5500 Series RouterCisco NCS 540 Series Router.

For detailed information about Null interfaces concepts, configuration tasks, and examples, refer to the *Interface and Hardware Component Configuration Guide for Cisco NCS 5500 Series Routers*, *Interface and Hardware Component Configuration Guide for Cisco NCS 540 Series Routers*, and *Interface and Hardware Component Configuration Guide for Cisco NCS 560 Series Routers*.

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interface null 0

To enter null0 interface configuration mode, use the **interface null 0** command in XR EXEC mode mode.

interface null 0

Syntax Description	This command has no keywords or arguments.
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Command Default	No default behavior or values
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Command Modes	XR EXEC mode
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Command History	Release	Modification
	Release 6.0	This command was introduced.

Usage Guidelines	When you issue the interface null 0 command in XR EXEC mode mode, the CLI prompt changes to “config-null0,” indicating that you have entered interface configuration mode for the null interface. In the following sample output, the question mark (?) online help function displays all the commands available under the interface configuration mode for the null interface:
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```
RP/0/RP0/CPU0:router(config)# interface null 0
RP/0/RP0/CPU0:router(config-null0)#?

commit      Commit the configuration changes to running
describe    Describe a command without taking real actions
do          Run an exec command
exit        Exit from this submode
no          Negate a command or set its defaults
show        Show contents of configuration
```

Task ID	Task ID	Operations
	interface	read, write

Examples	This example shows how to enter null0 interface configuration mode:
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```
RP/0/RP0/CPU0:router(config)# interface null 0
RP/0/RP0/CPU0:router(config-null0)#
```

show controllers null interface

To display null interface counters, use the **show controllers null interface** command in XR EXEC mode.

show controllers null interface

Syntax Description This command has no keywords or arguments.

Command Default No default behavior or values

Command Modes XR EXEC mode

Command History	Release	Modification
	Release 6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	interface	read
	sysmgr	read

Examples

The following is sample output from the **show controllers null interface** command, which displays null interface counters:

```
RP/0/RP0/CPU0:router# show controllers null interface

Null interface:
name       : Null0
handle     : 0x0800000c
```

Table 1: show controllers null interface Field Descriptions

Field	Description
name	Interface whose controller information is displayed.
handle	Number that identifies the caps node that hosts the node whose controller information is displayed.

show interfaces null0

To display null0 interfaces, use the **show interfaces null0** command with optional keywords in EXEC mode.

show interfaces null0 [{**accounting** **rates** | **brief** | **description** | **detail**}] [**location** *node-id*]

Syntax Description	accounting	Shows interface accounting option.
	rates	Shows interface accounting (input/output) rates.
	brief	Shows interface information in condensed format.
	description	Describes interface.
	detail	Shows interface information in detail.
	location <i>node-id</i>	Specifies a fully qualified interface location.

Command Default No default behavior or values

Command Modes XR EXEC mode

Command History	Release	Modification
	Release 6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

The **show interfaces null0** command displays statistics about null interfaces. When no keywords are specified, information for all null interfaces is displayed.

Task ID	Task ID	Operations
	interface	read

Examples The following example shows how to use the **show interfaces null0** command:

```
RP/0/RP0/CPU0:router# show interfaces null0

Null0 is up, line protocol is up
Interface state transitions: 0
Hardware is Null interface
Internet address is Unknown
MTU 1500 bytes, BW Unknown
    reliability 255/255, txload Unknown, rxload Unknown
Encapsulation Null, loopback not set,
Last clearing of "show interface" counters never
5 minute input rate 0 bits/sec, 0 packets/sec
```

```
show interfaces null0
```

```
5 minute output rate 0 bits/sec, 0 packets/sec
 0 packets input, 0 bytes, 0 total input drops
 0 drops for unrecognized upper-level protocol
Received 0 broadcast packets, 0 multicast packets
 0 packets output, 0 bytes, 0 total output drops
Output 0 broadcast packets, 0 multicast packets
```