Configuring System MTU

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Information About the MTU

The default maximum transmission unit (MTU) size for frames received and transmitted on all interfaces is 1500 bytes.

How to Configure MTU

Configuring the System MTU

Beginning in privileged EXEC mode, follow these steps to change the MTU size for all 10/100 or Gigabit Ethernet interfaces:

SUMMARY STEPS

1. **configure terminal**
2. **system mtu** *bytes*
3. **system mtu jumbo**

4. **end**
5. **copy running-config startup-config**
6. **do show system mtu**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**configure terminal** **Example:** `Device# configure terminal`	Enters global configuration mode.
Step 2	**system mtu** *bytes* **Example:** `Device(config)# system mtu 1500`	(Optional) Change the MTU size for all interfaces on the switch stack that are operating at 10 or 100 Mb/s. Enter 1500, 2026 or jumbo to specify the MTU size. The MTU value of **jumbo** is 10218.
Step 3	**system mtu jumbo** **Example:** `Device(config)# system mtu jumbo`	(Optional) Changes the MTU size for all Gigabit Ethernet interfaces on the switch or the switch stack. Enter 1500, 2026 or jumbo to specify the MTU size. The MTU value of **jumbo** is 10218.
Step 4	**end** **Example:** `Device(config)# end`	Returns to privileged EXEC mode.
Step 5	**copy running-config startup-config** **Example:** `Device# copy running-config startup-config`	Saves your entries in the configuration file.
Step 6	**do show system mtu** **Example:** `Device# do show system mtu`	

Configuration Examples for System MTU

This example shows how to set the maximum packet size for a Gigabit Ethernet port to 1500 bytes:

```
Device(config)# system mtu 1500
Device(config)# exit
```

This example shows how to set the maximum packet size for a Gigabit Ethernet port to 7500 bytes:

```
Device(config)# system mtu 7500
Device(config)# exit
```

This example shows how to set the jumbo packet size for a Gigabit Ethernet port to 7500 bytes:

```
Device(config)# system mtu jumbo 7500
Device(config)# exit
```

If you enter a value that is outside the allowed range for the specific type of interface, the value is not accepted. This example shows the response when you try to set Gigabit Ethernet interfaces to an out-of-range number:

```
Device(config)# system mtu jumbo 25000
                                 ^
% Invalid input detected at '^' marker.
```

This is an example of output from the **show system mtu** command:

```
Device# show system mtu
System MTU size is 1500 bytes.
```