Configuring System MTU

Information About the MTU

System MTU Guidelines

When configuring the system MTU values, follow these guidelines:

- The default maximum transmission unit (MTU) size for frames received and transmitted on all interfaces is 1500 bytes. You can increase the MTU size for all interfaces operating at 10 or 100 Mb/s by using the **system mtu** global configuration command. You can increase the MTU size to support jumbo frames on all Gigabit Ethernet interfaces by using the **system mtu jumbo** global configuration command.

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- Gigabit Ethernet ports are not affected by the **system mtu** command; 10/100 ports are not affected by the **system mtu jumbo** command. If you do not configure the **system mtu jumbo** command, the setting of the **system mtu** command applies to all Gigabit Ethernet interfaces.

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** *bytes*

4. **end**
5. **copy running-config startup-config**
6. **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 2500**	The range is 1500 to 1998 bytes; the default is 1500 bytes.
Step 3	**system mtu jumbo** *bytes* **Example:** Device(config)# **system mtu jumbo7500**	The range is 1500 to 9198 bytes; the default is 1500 bytes.
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	**show system mtu** **Example:** Device# **show system mtu**	Verifies your settings.

Configuration Examples for System MTU

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)#
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: