



Configuring System MTU

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Information About the MTU

The default maximum transmission unit (MTU) size for payload received in Ethernet frame and sent on all device interfaces is 1500 bytes. The maximum value of System MTU is 9198 bytes.

System MTU Value Application

The upper limit of the IP or IPv6 MTU value is based on the switch configuration and refers to the currently applied system MTU value. For more information about setting the MTU sizes, see the **system mtu** global configuration command in the command reference for this release.

The minimum IPv6 system MTU is fixed at 1280 as per RFC 8200.

How to Configure MTU

The following tasks describe how you can configure MTU.

Configuring the System MTU

Follow these steps to change the MTU size for switched packets:

Procedure

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. Enter your password, if prompted.

	Command or Action	Purpose
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	system mtu bytes Example: Device(config)# system mtu 1900	(Optional) Changes the MTU size for all interfaces.
Step 4	end Example: Device(config)# end	Enters global configuration mode, and 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.

Configuring Protocol-Specific MTU

To override system MTU values on routed interfaces, configure protocol-specific MTU under each routed interface. To change the MTU size for routed ports, perform this procedure.

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 2	interface interface Example: Device(config)# interface gigabitethernet1/1	Enters interface configuration mode.
Step 3	no switchport Example: Device(config-if)# no switchport	Enters Layer 3 mode.

	Command or Action	Purpose
Step 4	ip mtu bytes Example: Device(config-if) # ip mtu 850	Changes the IPv4 MTU size. Valid values range from 832-1500.
Step 5	ipv6 mtu bytes Example: Device(config-if) # ipv6 mtu 1280	(Optional) Changes the IPv6 MTU size.
Step 6	end Example: Device(config-if) # end	Exits interface configuration mode, and returns to privileged EXEC mode.
Step 7	copy running-config startup-config Example: Device# copy running-config startup-config	Saves your entries in the configuration file.
Step 8	show system mtu Example: Device# show system mtu	Verifies your settings.

Configuration Examples for System MTU

Example: Configuring Protocol-Specific MTU

This example shows how you can configure protocol-specific MTU:

```
Device# configure terminal
Device(config)# interface gigabitethernet 1/1
Device(config-if)# ip mtu 900
Device(config-if)# ipv6 mtu 1286
Device(config-if)# end
```

Example: Configuring the System MTU

This example shows how you can configure the system MTU:

```
Device# configure terminal
Device(config)# system mtu 1600
Device(config)# exit
```

