



## Tech-Support Commands

This module describes commands used to collect the **show** command outputs using Cisco IOS XR software.

The **show tech-support** commands collect common data from commands such as **show version**. Each **show tech-support** command also generates and gathers relevant data for a specific area. This data includes trace output to collect debugging information available in the specific area of interest.

To use commands of this module, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using any command, contact your AAA administrator for assistance.

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### show tech-support custom

To generate and gather tech-support information related to a specific area such as network traffic, control-plane, and the system, use the **show tech-support custom** command in EXEC mode.

```
show tech-support custom { traffic | control-plane | system }
```

<b>Syntax Description</b>	<b>traffic</b>	Generates tech-support information related to network traffic.
	<b>control-plane</b>	Generates tech-support information related to the control-plane.
	<b>system</b>	Generates tech-support information related to the system.
<b>Command Default</b>	None	
<b>Command Modes</b>	EXEC mode Config mode	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 7.3.5	This command was introduced.

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**Usage Guidelines**

This command generates tech-support information that is useful for Cisco Technical Support representatives when troubleshooting a router. By default, the output of this command is saved on the router's hard disk in a file with *.tgz* extension. You can share this file with Cisco Technical Support. To share, use the **copy** command to copy the *.tgz* file to a server or local machine. For example, **copy harddisk:/showtech/name.tgz tftp://server\_path**.

For Cisco Technical Support contact information, see the 'Obtaining Documentation and Submitting a Service Request' section in the Preface.

*Table 1: List of Commands collected by each custom option*

<b>Custom Option</b>	<b>Release</b>	<b>List of commands outputs collected</b>
Control-plane	Release 7.3.6	

Custom Option	Release	List of commands outputs collected
		show tech-support ipv6 nd show tech-support arp show tech-support ofa show tech-support routing bgp show tech-support routing isis show tech-support routing bfd show tech-support routing ospf show tech-support routing ospfv3 show tech-support mpls ldp show tech-support bcdl show tech-support bcdlv2 show tech-support rib show tech-support mpls lsd show tech-support cef show tech-support cef platform show tech-support gsp show tech-support l2rib show tech-support l2vpn show tech-support lpts show tech-support spp show tech-support clns show tech-support multicast address-family ipv4 show tech-support multicast address-family ipv6 show tech-support grpc show tech-support service-layer show tech-support appmgr show tech-support netconf show tech-support yserver show tech-support grid show tech-support tunnel-ip show tech-support pbr show tech-support bfdhwoff show tech-support flowspec

Custom Option	Release	List of commands outputs collected
		show tech-support access-lists ipv4 show tech-support access-lists ipv6 show tech-support ds show tech-support os show tech-support placed show tech-support qos pi show tech-support processmgr show tech-support spio show tech-support sysdb show tech-support telemetry model-driven show tech-support bundles show tech-support dhcp ipv4 base show tech-support dhcp ipv4 client show tech-support dhcp ipv4 proxy show tech-support dhcp ipv4 relay show tech-support dhcp ipv4 server show tech-support dhcp ipv4 snoop show tech-support dhcp ipv6 base show tech-support dhcp ipv6 client show tech-support dhcp ipv6 proxy show tech-support dhcp ipv6 relay show tech-support dhcp ipv6 server show tech-support ipinfra show tech-support protection-notif show tech-support raw show tech-support rsi show tech-support statsd show tech-support tcp nsr show tech-support udp show tech-support pfi show tech-support cfgmgr show tech-support tty show tech-support rdsfs

**show tech-support custom**

<b>Custom Option</b>	<b>Release</b>	<b>List of commands outputs collected</b>
	Release 24.2.11	

Custom Option	Release	List of commands outputs collected
		show tech-support aib show tech-support ipv6 nd show tech-support arp show tech-support ofa show tech-support routing bgp show tech-support routing isis show tech-support routing bfd show tech-support routing ospf show tech-support routing ospfv3 show tech-support mpls ldp show tech-support bcdl show tech-support bcdlv2 show tech-support rib show tech-support mpls lsd show tech-support cef show tech-support cef platform show tech-support gsp show tech-support l2rib show tech-support l2vpn show tech-support l2vpn platform show tech-support lpts show tech-support spp show tech-support clns show tech-support multicast address-family show tech-support multicast address-family show tech-support mgbl show tech-support service-layer show tech-support appmgr show tech-support grid show tech-support tunnel-ip show tech-support pbr show tech-support bfdhwoff show tech-support flowspec

Custom Option	Release	List of commands outputs collected
		show tech-support access-lists ipv4 show tech-support access-lists ipv6 show tech-support ds show tech-support os show tech-support placed show tech-support qos pi show tech-support processmgr show tech-support spio show tech-support sysdb show tech-support bundles show tech-support dhcp ipv4 show tech-support dhcp ipv4 show tech-support dhcp ipv4 show tech-support dhcp ipv4 show tech-support dhcp ipv4 show tech-support dhcp ipv4 show tech-support dhcp ipv6 show tech-support dhcp ipv6 show tech-support dhcp ipv6 show tech-support dhcp ipv6 show tech-support dhcp ipv6 show tech-support ipinfra show tech-support protection-notif show tech-support raw show tech-support rsi show tech-support statsd show tech-support tcp nsr show tech-support udp show tech-support pfi show tech-support cfgmgr show tech-support tty show tech-support rdsfs



Custom Option	Release	List of commands outputs collected
Traffic	Release 7.3.6	

Custom Option	Release	List of commands outputs collected
		show tech-support platform-fwd show tech-support ofa show tech-support cef show tech-support cef platform show tech-support aib show tech-support grid show tech-support bcdl show tech-support bcdlv2 show tech-support mpls lsd show tech-support rib show tech-support fabric link-include show tech-support mpls traffic-eng show tech-support segment-routing traffic-eng show tech-support optics show tech-support qos platform show tech-support platform-pfc show tech-support qos pi show tech-support arp show tech-support ipv6 nd show tech-support gsp show tech-support access-lists platform show tech-support tunnel-ip show tech-support pbr show tech-support bfdhwoff show tech-support flowspec show tech-support ds show tech-support placed show tech-support service-layer show tech-support processmgr show tech-support os show tech-support grpc show tech-support sysdb show tech-support telemetry model-driven

Custom Option	Release	List of commands outputs collected
		show tech-support bundles show tech-support dhcp ipv4 base show tech-support dhcp ipv4 client show tech-support dhcp ipv4 proxy show tech-support dhcp ipv4 relay show tech-support dhcp ipv4 server show tech-support dhcp ipv4 snoop show tech-support dhcp ipv6 base show tech-support dhcp ipv6 client show tech-support dhcp ipv6 proxy show tech-support dhcp ipv6 relay show tech-support dhcp ipv6 server show tech-support ipinfra show tech-support protection-notif show tech-support raw show tech-support rsi show tech-support spio show tech-support statsd show tech-support tcp nsr show tech-support udp show tech-support pfi show tech-support static show tech-support cfgmgr show tech-support snmp ifmib show tech-support resmon
	Release 24.2.11	

Custom Option	Release	List of commands outputs collected
		show tech-support platform-fwd show tech-support ofa show tech-support cef show tech-support cef platform show tech-support aib show tech-support grid show tech-support bcdl show tech-support bcdlv2 show tech-support mpls lsd show tech-support rib show tech-support fabric link-include show tech-support mpls traffic-eng show tech-support mpls rsvp show tech-support mpls static show tech-support mpls oam show tech-support segment-routing traffic-eng show tech-support optics show tech-support qos platform show tech-support platform-pfc show tech-support qos pi show tech-support arp show tech-support ipv6 nd show tech-support gsp show tech-support l2vpn show tech-support l2vpn platform show tech-support access-lists platform show tech-support tunnel-ip show tech-support pbr show tech-support bfdhwoff show tech-support flowspec show tech-support ds show tech-support placed show tech-support service-layer

Custom Option	Release	List of commands outputs collected
		show tech-support processmgr show tech-support os show tech-support mgbl show tech-support sysdb show tech-support bundles show tech-support dhcp ipv4 base show tech-support dhcp ipv4 client show tech-support dhcp ipv4 proxy show tech-support dhcp ipv4 relay show tech-support dhcp ipv4 server show tech-support dhcp ipv4 snoop show tech-support dhcp ipv6 base show tech-support dhcp ipv6 client show tech-support dhcp ipv6 proxy show tech-support dhcp ipv6 relay show tech-support dhcp ipv6 server show tech-support ipinfra show tech-support protection-notif show tech-support raw show tech-support rsi show tech-support spio show tech-support statsd show tech-support tcp nsr show tech-support udp show tech-support pfi show tech-support static show tech-support cfgmgr show tech-support snmp ifmib show tech-support resmon

**show tech-support custom**

<b>Custom Option</b>	<b>Release</b>	<b>List of commands outputs collected</b>
System	Release 7.3.6	

Custom Option	Release	List of commands outputs collected
		show tech-support os show tech-support spi show tech-support fpd show tech-support fabric link-include show tech-support interface show tech-support ofa show tech-support optics show tech-support macsec show tech-support gsp show tech-support platform timing show tech-support ptp show tech-support frequency synchronization show tech-support ethernet controllers show tech-support ethernet interfaces show tech-support pfi show tech-support cfgmgr show tech-support sysdb show tech-support processmgr show tech-support grpc show tech-support linux networking show tech-support telemetry model-driven show tech-support parser show tech-support statsd show tech-support ctrace show tech-support control-ethernet show tech-support pmengine show tech-support ptah show tech-support ds show tech-support pam show tech-support placed show tech-support service-layer show tech-support shmwin show tech-support cpa

Custom Option	Release	List of commands outputs collected
		show tech-support install show tech-support keychain show tech-support alarm-mgr show tech-support ntp show tech-support pool show tech-support protection-notif show tech-support rdsfs show tech-support resmon show tech-support snmp show tech-support ssh show tech-support system-recovery show tech-support tacacs show tech-support tam show tech-support tty show tech-support type6 show tech-support ztp show tech-support bmc show tech-support bundles show tech-support snmp ifmib show tech-support ipinfra show tech-support cef show tech-support cef platform show tech-support rsi
	Release 24.2.11	



Custom Option	Release	List of commands outputs collected
		show tech-support os show tech-support spi show tech-support fpd show tech-support fabric link-include show tech-support interface show tech-support ofa show tech-support optics show tech-support macsec show tech-support gsp show tech-support platform timing show tech-support ptp show tech-support frequency synchronization show tech-support ethernet controllers show tech-support ethernet interfaces show tech-support control-ethernet show tech-support pfi show tech-support cfgmgr show tech-support sysdb show tech-support processmgr show tech-support mgbl show tech-support linux networking show tech-support parser show tech-support statsd show tech-support bundles show tech-support ctrace show tech-support control-ethernet show tech-support pmengine show tech-support ptah show tech-support ds show tech-support pam show tech-support placed show tech-support service-layer show tech-support shmwin

Custom Option	Release	List of commands outputs collected
		show tech-support cpa show tech-support install show tech-support keychain show tech-support alarm-mgr show tech-support ntp show tech-support pool show tech-support protection-notif show tech-support rdsfs show tech-support resmon show tech-support snmp show tech-support ssh show tech-support system-recovery show tech-support tacacs show tech-support tam show tech-support tty show tech-support type6 show tech-support ztp show tech-support bmc show tech-support snmp ifmib show tech-support ipinfra show tech-support cef show tech-support cef platform show tech-support rsi



**Note** This command is not required during normal use of the router.

Task ID	Task ID	Operations
	basic-services or cisco-support	read

The following example shows the output of the **show tech-support custom traffic** command:

```
Router# show tech-support custom traffic
++ Show tech start time: 2023-Jun-16.195852.UTC ++
Fri Jun 16 19:58:52 UTC 2023 Waiting for gathering to complete
.....
```

```
Fri Jun 16 20:05:45 UTC 2023 Compressing show tech output
Show tech output available at 0/RP0/CPU0 :
/harddisk:/showtech/showtech-custom-traffic-2023-Jun-16.195852.UTC.tgz
++ Show tech end time: 2023-Jun-16.200546.UTC ++
```

The following example shows the output of the **show tech-support custom control-plane** command:

```
Router# show tech-support custom control-plane
++ Show tech start time: 2023-Jun-16.194006.UTC ++
Fri Jun 16 19:40:06 UTC 2023 Waiting for gathering to complete
.....
Fri Jun 16 19:44:59 UTC 2023 Compressing show tech output
Show tech output available at 0/RP0/CPU0 :
/harddisk:/showtech/showtech-custom-control-2023-Jun-16.194006.UTC.tgz
++ Show tech end time: 2023-Jun-16.194459.UTC ++
```

The following example shows the output of the **show tech-support custom system** command:

```
Router# show tech-support custom system
++ Show tech start time: 2023-Jun-16.194549.UTC ++
Fri Jun 16 19:45:50 UTC 2023 Waiting for gathering to complete
.....
Fri Jun 16 19:54:24 UTC 2023 Compressing show tech output
Show tech output available at 0/RP0/CPU0 :
/harddisk:/showtech/showtech-custom-system-2023-Jun-16.194549.UTC.tgz
++ Show tech end time: 2023-Jun-16.195425.UTC ++
```

■ show tech-support custom