



# Configuration Management Debug Commands on Cisco IOS XR Software

---

This chapter describes the configuration debug command used to debug Cisco IOS XR software.

# debug config

To enable debugging of the configuration data manipulation, use the **debug config** command in EXEC mode. To turn off the debugging output, use the **no** form of this command.

**debug config** { **cfs** | **checkpoint** | **connections** | **distribution** | **errors** | **installops** | **oir** [*interface-type interface-instance*] | **requests** | **rollback** | **startup** | **versioning** }

**no debug config** { **cfs** | **checkpoint** | **connections** | **distribution** | **errors** | **installops** | **oir** [*interface-type interface-instance*] | **requests** | **rollback** | **startup** | **versioning** }

## Syntax Description

|                           |   |
|---------------------------|---|
| <b>cfs</b>                | Reports Configuration Manager configuration file system events.   |
| <b>checkpoint</b>         | Reports Configuration Manager configuration checkpoint events.  |
| <b>connections</b>        | Reports Configuration Manager connection events.  |
| <b>distribution</b>       | Reports Configuration Manager configuration distribution events.  |
| <b>errors</b>             | Reports Configuration Manager errors.   |
| <b>installops</b>         | Reports events during an install operation.   |
| <b>oir</b>                | Reports configuration saving and restoring.   |
| <i>interface-type</i>     | (Optional) Interface type. For more information, use the question mark (?) online help function.  |
| <i>interface-instance</i> | (Optional) Either a physical interface instance or a virtual interface instance as follows: <ul style="list-style-type: none"> <li>Physical interface instance. Naming notation is <i>rack/slot/module/port</i> and a slash between values is required as part of the notation. <ul style="list-style-type: none"> <li><i>rack</i>: Chassis number of the rack.</li> <li><i>slot</i>: Physical slot number of the modular services card or line card.</li> <li><i>module</i>: Module number. A physical layer interface module (PLIM) is always 0.</li> <li><i>port</i>: Physical port number of the interface.</li> </ul> </li> </ul> <p><b>Note</b> In references to a Management Ethernet interface located on a route processor card, the physical slot number is alphanumeric (RP0 or RP1) and the module is CPU0.<br/>Example: interface MgmtEth0/RP1/CPU0/0.</p> <ul style="list-style-type: none"> <li>Virtual interface instance. Number range varies depending on interface type.</li> </ul> <p>For more information about the syntax for the router, use the question mark (?) online help function.</p> |
| <b>requests</b>           | Reports Configuration Manager request information.  |
| <b>rollback</b>           | Reports Configuration Manager configuration rollback events.  |
| <b>startup</b>            | Reports Configuration Manager configuration startup events.   |
| <b>versioning</b>         | Reports Configuration Manager startup file versioning events.   |

---

**Defaults** No default behavior or values

---

**Command Modes** EXEC

---

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>   |
|------------------------|----------------|---|
|                        | Release 2.0    | This command was introduced on the Cisco CRS-1.                 |
|                        | Release 3.0    | No modification.  |
|                        | Release 3.2    | This command was supported on the Cisco XR 12000 Series Router. |

---

---

**Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes the proper task IDs. For detailed information about user groups and task IDs, see the *Configuring AAA Services on Cisco IOS XR Software* module of the *Cisco IOS XR System Security Configuration Guide*.

---

**Examples** The following example shows how to enable debugging of the configuration data manipulation:

```
RP/0/RP0/CPU0:router# debug config cfs
```

