

Show Commands

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show hw-module fpd

To display field-programmable device (FPD) compatibility for all modules or a specific module, use the show hw-module fpd command in XR EXEC mode.

show hw-module [{ fpd | location node-id fpd | location node-id fpd fpd-name | location all fpd fpd-name }]

Syntax Description location {node-id | all} Specifies the location of the module. The node-id argument is expressed in the *rack/slot* notation. Use the **all** keyword to indicate all nodes.

Command Default	None		
Command Modes	XR EXEC mode		
Command History	Release	Modification	
	Release 7.0.12	This command was introduced.	

No specific guidelines impact the use of this command. **Usage Guidelines**

Task ID	Task ID	Operations
	sysmgr	read
	root-lr	read

The following example shows the output of **show hw-module fpd** command:

```
Router#show hw-module fpd
Wed Apr 5 17:46:55.067 UTC
Auto-upgrade:Enabled
```

Attribute codes: B golden, P protect, S secure, A Anti Theft aware FPD Versions _____ ----

Location	Card type	HWver	FPD device	ATR	Status	Running	Programd	Reload Loc
0/RP0/CPU0	8201	0.2	Bios	S	CURRENT	1.27	1.27	0/RP0/CPU0
0/RP0/CPU0	8201	0.2	BiosGolden	BS	CURRENT		1.20	0/RP0/CPU0
0/RP0/CPU0	8201	0.2	IoFpga		CURRENT	1.11	1.11	0/RP0
0/RP0/CPU0	8201	0.2	IoFpgaGolden	В	CURRENT		1.01	0/RP0
0/RP0/CPU0	8201	0.2	x86Fpga	S	CURRENT	1.06	1.06	0/RP0
0/RP0/CPU0	8201	0.2	x86FpgaGolden	BS	CURRENT		1.01	0/RP0
0/RP0/CPU0	8201	0.2	x86TamFw	S	CURRENT	5.13	5.13	0/RP0
0/RP0/CPU0	8201	0.2	x86TamFwGolden	BS	CURRENT		5.06	0/RP0
0/PM0	PSU1.4KW-ACPE	0.0	DT-PrimMCU		CURRENT	3.01	3.01	NOT REQ
0/PM0	PSU1.4KW-ACPE	0.0	DT-SecMCU		CURRENT	2.02	2.02	NOT REQ
0/PM1	PSU1.4KW-ACPE	0.0	DT-PrimMCU		CURRENT	3.01	3.01	NOT REQ
0/PM1	PSU1.4KW-ACPE	0.0	DT-SecMCU		CURRENT	2.02	2.02	NOT REQ

The following example shows how to display FPD compatibility for specific location module in the router.

Router#show hw-module location 0/RP0/CPU0 fpd Wed Apr 5 17:47:01.104 UTC

Auto-upgrade:Enabled Attribute codes: B golden, P protect, S secure, A Anti Theft aware FPD Versions _____ Location Card type HWver FPD device ATR Status Running Programd Reload Loc _____
 O/RPO/CPU0
 8201
 0.2
 Bios
 S
 CURRENT
 1.27
 1.27
 0/RP0/CPU0

 0/RP0/CPU0
 8201
 0.2
 BiosGolden
 BS
 CURRENT
 1.20
 0/RP0/CPU0

 0/RP0/CPU0
 8201
 0.2
 IoFpga
 CURRENT
 1.11
 1.11
 0/RP0

 0.2
 IoFpga
 CURRENT
 1.11
 1.11
 0/RP0

 0.2
 IoFpgaGolden
 B
 CURRENT
 1.01
 0/RP0

 0.2
 x86Fpga
 S
 CURRENT
 1.06
 1.06
 0/RP0
 0/RP0/CPU0 8201 0/RP0/CPU0 8201 U/RP0 1.01 0/RP0 5.13 5 12 0/RP0/CPU0 8201 0.2 x86FpgaGolden BS CURRENT 0/RP0/CPU0 8201 0.2 x86TamFw S CURRENT 0.2 x86TamFwGolden BS CURRENT 0/RP0/CPU0 8201 5.06 0/RP0

The following example shows the output of show hw-module location 0/RP0/CPU0 fpd Bios command:

```
Router#show hw-module location 0/RP0/CPU0 fpd Bios
Wed Apr 5 17:47:04.255 UTC
```

1 5	2	, P protect, S secure,	A Anti Theft	aware	
	=====				
Location	Card type	HWver FPD device	ATR Status	Running Program	nd Reload Loc
0/RP0/CPU	8201	0.2 Bios	S CURRENT	1.27 1.27	0/RP0/CPU0

The following example shows how to display FPD compatibility for all modules in the router:

Router#show hw-module fpd all

Tue Apr 4 08:55:32.545 UTC

Auto-upgrade:Disabled Attribute codes: B golden, P protect, S secure, A Anti Theft aware

							======	=======
Location	Card type	HWver	FPD device	ATR	Status	Running	Programd	Reload Loc
0/RP0/CPU0	8201	0.30	Bios		NEED UPGI	7.01	7.01	0/RP0/CPU0
0/RP0/CPU0	8201	0.30	BiosGolden	В	NEED UPG	D	7.01	0/RP0/CPU0
0/RP0/CPU0	8201	0.30	IoFpga		NEED UPG	D 7.01	7.01	0/RP0
0/RP0/CPU0	8201	0.30	IoFpgaGolden	В	NEED UPG	D	7.01	0/RP0
0/RP0/CPU0	8201	0.30	SsdIntelS3520		NEED UPG	D 7.01	7.01	0/RP0
0/RP0/CPU0	8201	0.30	x86Fpga		NEED UPG	D 7.01	7.01	0/RP0
0/RP0/CPU0	8201	0.30	x86FpgaGolden	В	NEED UPG	D	7.01	0/RP0
0/RP0/CPU0	8201	0.30	x86TamFw		NEED UPG	D 7.01	7.01	0/RP0
0/RP0/CPU0	8201	0.30	x86TamFwGolden	В	NEED UPG	D	7.01	0/RP0
0/PM0	PSU2KW-ACPI	0.0	PO-PrimMCU		NEED UPG	D 7.01	7.01	NOT REQ
0/PM1	PSU2KW-ACPI	0.0	PO-PrimMCU		NEED UPG	D 7.01	7.01	NOT REQ

The following example shows the output of **show hw-module location all fpd IoFpga** command:

Router#show hw-module location all fpd IoFpga Wed Apr 5 17:47:10.752 UTC

Auto-upgrade:Enabled Attribute codes: B golden, P protect, S secure, A Anti Theft aware FPD Versions

show install active

To display active packages, use the **show install active** command in XR EXEC mode.

Syntax Description	all location	Displays all the active packages.		
	location nod	<i>e-id</i> Displays all packages in a specified loc	ation or all locations.	
	location all			
	summary	Displays a summary of active packages	along with a list of optional packages.	
ommand Default		d without the all keyword just displays the cur he system such as OS packages.	rrently active XR packages. It does not di	
Command Modes	XR EXEC mo	ode		
Command History	Release	Modification		
	Release 7.0.12	This command was introduced.		
Usage Guidelines	No specific guidelines impact the use of this command.			
Jsage Guidelines	No specific g	uidelines impact the use of this command.		
Jsage Guidelines	1 0	uidelines impact the use of this command. shows how to view all active packages:		
Jsage Guidelines	This example			
Jsage Guidelines	This example Router#show Wed Mar 8 (Software Has	shows how to view all active packages: install active all		
Jsage Guidelines	This example Router# show Wed Mar 8 (Software Has Package	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a	Version	
Jsage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts	Version 7.8.1.34Iv1.0.0-r0	
lsage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
sage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
lsage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 a-sb-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
lsage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 a-sb-x86 pa-sb-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
lsage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
Jsage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86 pa-sb-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
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sage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 pa-sb-x86 pa-sb-x86 -cpa-sb-x86 -cpa-sb-x86 -x86 h-m-cpa-sb-x86 -x86 -x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
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Usage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 a-sb-x86 pa-sb-x86 pa-sb-x86 cpa-sb-x86 -x86 -cpa-sb-x86 -x86 a-cpa-sb-x86 exa6 a-cpa-sb-x86 exa6 a-cpa-sb-x86 mm-cpa-sb-x86 exa1e-cpa-sb-x86 exa1e-cpa-sb-x86 mha-cpa-sb-x86 mha-cpa-sb-x86 mha-cpa-sb-x86 mha-cpa-sb-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
Usage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 a-sb-x86 pa-sb-x86 pa-sb-x86 cpa-sb-x86 -x86 -cpa-sb-x86 -x86 a-cpa-sb-x86 evalle-cpa-sb-x86 evalle-cpa-sb-x86 mafore-cpa-sb-x86 ber-cpa-sb-x86 ber-cpa-sb-x86	Version 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0 7.8.1.34Iv1.0.0-r0	
Usage Guidelines	This example Router#show Wed Mar 8 (Software Has Package 	shows how to view all active packages: install active all 04:57:35.230 UTC sh: bf46f5add2ea3cd85c91c647a2ca043e1a cripts tup-x86 a-sb-x86 a-sb-x86 pa-sb-x86 pa-sb-x86 cpa-sb-x86 -x86 -cpa-sb-x86 -x86 a-cpa-sb-x86 evalle-cpa-sb-x86 evalle-cpa-sb-x86 mafore-cpa-sb-x86 ber-cpa-sb-x86 ber-cpa-sb-x86	Version 7.8.1.34Iv1.0.0-r0	

Router#show install active all location 0/RP0/CPU0 Wed Mar 8 04:58:25.254 UTC Software Hash: ef055dac99b856182211deb7585c02fb812c02d6a04cd5b92b521ccf7b9c6ee5 Package Architecture Version _____ _____ 8000-boot-scripts corei7 64 7.8.1.34Iv1.0.0-r0 8000-cpa-setup-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8101-32h-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8102-64h-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8111-32eh-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8201-32fh-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 corei7 64 8201-cpa-sb-x86 7.8.1.34Iv1.0.0-r0 8202-32fh-m-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8202-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8203-88h16fh-m-cpa-sb-x86 corei7_64 7.8.1.34Iv1.0.0-r0 8212-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8608-fb-data-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8608-mpa-crevalle-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8608-mpa-narwhal-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8608-mpa-pinafore-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8608-mpa-tiber-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 8804-fc-data-cpa-sb-x86 corei7 64 7.8.1.34Iv1.0.0-r0 acl corei7 64 2.2.52-r0.61 wrlsdk x86 argon 7.8.1.34Iv1.0.0-r0 --More--

This example shows how to view all active pakages in a specified location:

This example shows how to view the summary of active pakages:

Router#show install active summary Wed Mar 8 05:00:29.564 UTC Active Packages: XR: 205 All: 1465 7.8.1.34I-PROD BUILD 7 8 1 34I SIT IMAGE Label: bf46f5add2ea3cd85c91c647a2ca043e1a829c49e5c290baec0c89c937a17429 Software Hash: Optional Packages Version _____ xr-8000-12mcast 7.8.1.34Iv1.0.0-1 xr-8000-mcast 7.8.1.34Iv1.0.0-1 xr-8000-netflow 7.8.1.34Iv1.0.0-1

7.8.1.34Iv1.0.0-1

7.8.1.34Iv1.0.0-1

xr-bqp

xr-cdp

I

xr-ipsla
xr-is-is
xr-k9sec
xr-lldp
xr-mcast
xr-mpls-oam
xr-netflow
xr-ospf
xr-perf-meas
xr-perfmgmt
xr-telnet
xr-track
More

7.8.1.34Iv1.0.0-1
7.8.1.34Iv1.0.0-1

show install available

To display packages available for installation, use the show install available command in XR EXEC mode.

Syntax Description	all location node-id	n (Optional) Displays all packages available to be installed in a system
Command Default	None	
Command Modes	XR EXEC r	node
Command History	Release	Modification
	Release 7.0.12	This command was introduced.
Usage Guidelines	No specific	guidelines impact the use of this command.
		ng example shows how to view the available packages:

Router# show install available all

show install committed

To display committed packages, use the show install committed command in XR EXEC mode.

```
show install committed { all | summary }
```

Syntax Description	all	Displays user-installable XR packages on all loca	itions.
	summary	Displays summary of committed packages (option	al and bugfix packages only).
Command Default	None		
Command Modes	XR EXEC	mode	
Command History	Release	Modification	
	Release 7.0.12	This command was introduced.	
Usage Guidelines		c guidelines impact the use of this command.	
Usage Guidelines	No specific	c guidennes impact the use of this command.	
Usage Guidelines		ving example shows how to view the summary of c	committed packages:
Usage Guidelines	The follow Router#sh Wed Jun 2	ving example shows how to view the summary of c tow install committed summary 18 10:34:18.792 UTC 1 Packages: XR: 206 All: 1537 7.10.1.311	
Usage Guidelines	The follow Router#sh Wed Jun 2 Committed Label:	wing example shows how to view the summary of c www.install.committed summary 18 10:34:18.792 UTC 1 Packages: XR: 206 All: 1537 7.10.1.311 Hash: 8ba19933d88a72378955c470ale07b0	
Usage Guidelines	The follow Router#sh Wed Jun 2 Committed Label: Software Optional 	Amm Amm Amm Amm Amm Amm Amm Amm)742dded043ec332a72c5640c1ec

show install fixes

To display bug fixes, use the show install fixes command in XR EXEC mode.

show install fixes { active | available | committed | deactivate } [{ brief | bugids value }] active Display active bug fixes. available Display the list of available bug fixes. committed Display committed bug fixes deactivate Display information on how to remove a bug fix bugfix_list brief (Optional) Displays only the bug IDs and not the relevant packages. bugids value (Optional) Displays bug fixes for a specific bug ID. You can choose to view information for more than one bug id seperated by a space. None **Command Default** XR EXEC mode **Command Modes Command History** Modification Release Release This command was introduced. 7.0.12 No specific guidelines impact the use of this command. **Usage Guidelines** The following example shows how to view the list of available bug fixes: Router# show install fixes available Bug Id Packages Repository xr-8000-core-7.0.11v1.0.1-1 CSCxx12345 <repository-name> xr-core-7.0.11v1.0.1-1 <repository-name> The following example shows how to view the information for a active bug ID: Router# show install fixes active bugids CSCxx12345 The following example shows how to remove the DDTS CSCwc26944: Router#show install fixes deactivate CSCwc26944

User-requested DDTSs deactivated by this command: CSCwc26944 All DDTSs deactivated by this command: CSCvs01738,CSCwc26944 Package changes:

xr-8000-core-7.5.2v1.0.5 -> xr-8000-core-7.5.2v1.0.4	
<pre>xr-8000-core-7.5.2v1.0.5 -> xr-8000-core-7.5.2v1.0.4 xr-8000-fib-ea-7.5.2v1.0.1 -> xr-8000-fib-ea-7.5.2v1.0.0</pre>	
$xr-8000-leabaofa-7.5.2v1.0.3 \rightarrow xr-8000-leabaofa-7.5.2v1.0.2$	(missing)
xr-8000-reabaola-7.5.2v1.0.3 -> xr-8000-reabaola-7.5.2v1.0.2 xr-8000-mcast-7.5.2v1.0.1 -> xr-8000-mcast-7.5.2v1.0.0	(missing)
xr-8000-mcast-7.5.2v1.0.1 -> xr-8000-mcast-7.5.2v1.0.0 xr-8000-utapp-blaze-7.5.2v1.0.2 -> xr-8000-utapp-blaze-7.5.2v	·
xr-fib-7.5.2v1.0.3 -> xr-fib-7.5.2v1.0.2	1.0.1
$xr - mcast - 7.5.2v1.0.3 \rightarrow xr - mcast - 7.5.2v1.0.2$	(missing)
xr-mcast-7.5.2v1.0.1 -> xr-mcast-7.5.2v1.0.0 xr-ncs5401-core-7.5.2v1.0.14 -> xr-ncs5401-core-7.5.2v1.0.10	(missing)
xr-ncs5401-core-7.5.2v1.0.14 -> xr-ncs5401-core-7.5.2v1.0.10 xr-ncs5700-core-7.5.2v1.0.14 -> xr-ncs5700-core-7.5.2v1.0.10	
xr-ofa-7.5.2v1.0.3 -> xr-ofa-7.5.2v1.0.1	
xr-snmp-7.5.2v1.0.1 -> xr-snmp-7.5.2v1.0.0	(missing)
XI-Shup-7.5.2VI.0.1 -> XI-Shup-7.5.2VI.0.0	(missing)
Example install commands:	
install source any-configured xr-8000-core-7.5.2v1.0.4 xr-800	0-fib-ea-7 5 2v1 0 0
xr-8000-leabaofa-7.5.2v1.0.2 xr-8000-mcast-7.5.2v1.0.0 xr-8000-	
xr-fib-7.5.2v1.0.2 xr-mcast-7.5.2v1.0.0 xr-ncs5401-core-7.5.2v1	11
xr-ncs5700-core-7.5.2v1.0.10 xr-ofa-7.5.2v1.0.1 xr-snmp-7.5.2v1	
install package downgrade xr-8000-core-7.5.2v1.0.4 xr-8000-fi	
xr-8000-leabaofa-7.5.2v1.0.2 xr-8000-mcast-7.5.2v1.0.0 xr-8000-	
xr-fib-7.5.2v1.0.2 xr-mcast-7.5.2v1.0.0 xr-ncs5401-core-7.5.2v1	11
xr-ncs5700-core-7.5.2v1.0.10 xr-ofa-7.5.2v1.0.1 xr-snmp-7.5.2v1	
IMPORTANT: The above commands cannot currently be run because the	ere are missing packages.Put
the following packages in an accessible repository.	51 5
xr-8000-fib-ea-7.5.2v1.0.0	
xr-8000-mcast-7.5.2v1.0.0 (optional package)	
xr-mcast-7.5.2v1.0.0 (optional package)	
xr-snmp-7.5.2v1.0.0	
-	
IMPORTANT: If the optional packages are not available, then the	ey can be completely removed

IMPORTANT: If the optional packages are not available, then they can be completely removed before removing the DDTS using install package remove xr-8000-mcast-7.5.2v1.0.0 xr-mcast-7.5.2v1.0.0

show install history

To display the history of the installation process, use the **show install history** command in XR EXEC mode.

show install history { all [location node-id] [reverse] [verbose] | table [{ ID number |[last entries] [reverse] }] }

all	Displays the history of all install operations.	
last entriesDisplays a last entry of the history information table		
location node-id	Displays details of the specified location. The <i>node-id</i> argument is entered in the rack/slot/module notation.	
table Displays a summary table of the install operations.		
ID number	Specifies the table ID of the history information.	
reverse	Displays entries in reverse order.	
verbose	Displays detailed information.	

Command Default None

Command Modes XR EXEC mode

Command History	Release	Modification
	Release 7.0.12	This command was introduced.

Usage Guidelines To identify whether a reload is required or only process restart is needed, use show install history last transaction verbose command.

When there is insufficient disk space in the root file system, the **show install request** command displays an error message. Use **show install history last package** command to view the details of the packaging operation and any errors that have occurred.

The following example shows how to view the history of the install operation:

Router#	show	install	history	table
---------	------	---------	---------	-------

Tr	ansaction	action Atomic Change		Change	Packaging Operations			5
Id	Status	Id	Method	Status	Id	Operation	Inputs	Status
1	In progress	1	Reload	Success	1	Upgrade	1	Success

The following example shows how to view history of last transaction:

Router# show install history last transaction verbose

2019-09-11	17:01:46	UTC	Transaction 3 started
2019-09-11	17:01:46	UTC	Atomic change 3.1 started
2019-09-11	17:01:46	UTC	Packaging operation 3.1.1 startedtion cleanup in progress
2019-09-11	17:16:46	UTC	Transaction 3 complete

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The following example shows how to view the last packaging operation for a specific location:

Router# show install history last package location 0/RP0/CPU0 verbose

The following example shows how to view the complete details of the last packaging operation, including a failure:

Router# show install history last package Wed Jan 8 13:29:51.586 UTC 2020-01-08 13:25:32 UTC Packaging operation 3.2.1 started 2020-01-08 13:25:32 UTC Add 2020-01-08 13:25:32 UTC xr-telnet 2020-01-08 13:28:26 UTC Error on 0/1/CPU0: Insufficient disk space to install packages 2020-01-08 13:28:26 UTC Packaging operation 3.2.1 failed: Disk space check failed on nodes: 0/1/CPU0 2020-01-08 13:28:26 UTC Packaging operation 3.2.1 aborted: Automatically recovered after failure

Location 0/1/CPU0

Last event: Error (Insufficient disk space to install packages) Disk space pre-check failure: Phase: Download Required space: 140944B Available space: 110623B

show install log

To display the details of installation requests, use the show install log command in XR EXEC mode.

	show insta	ll log [all] [detail] [id number] [last number] [reverse]			
Syntax Description	all	(Optional) Displays a log for all install operations.			
	detail	(Optional) Displays details including impact to processes and nodes.			
	id number	(Optional) Displays the log information for the specified transaction ID.			
	last number	(Optional) Displays the log information for the last number of transactions.			
	reverse	(Optional) Displays the logs in reverse order.			
Command Default	None				
Command Modes	XR EXEC me	ode			
Command History	Release	Modification			
	Release 7.0.12	This command was introduced.			
Usage Guidelines	Enter the show install log command with no arguments to display a summary of all installation operations, including the changes to files and the processes impacted by each request. Specify the id argument to display details for a specific operation.				
Task ID	Task ID O	perations			
	pkg-mgmt re	ead			

Router# show install log detail id 1

show install request

To display the current status of install requests, use the show install request command in XR EXEC mode.

	show install in node-id [monit] { verbose location					
Syntax Description	brief	Displays install request information summary.	_				
	location node-id	Displays install information for the designated node.	_				
		The node-id argument is entered in the rack/slot/module notation	l.				
	verbose	Displays detailed information about the install request.	_				
Command Default	None						
Command Modes	XR EXEC mode						
Command History	Release Mo	odification					
	Release Th 7.0.12	is command was introduced.					
	Release 7.8.1 Th	e keyword monitor was deprecated.					
Usage Guidelines	Cisco IOS XR processes only one installation request per device at a time. The show install request command displays any incomplete request that is currently running.						
-	Note When the con	mmand is running asynchonously, use show install request com	mand to monitor the progress.				
	If the install operation encounters a failure, the show install request command, displays an error message. Use the show install history last package command to obtain complete details of the failure.						
	The following example shows sample output from the show install request command:						
	Router# show install request						
	Install operation 17 'install add /tftp://172.31.255.255/dir/19mcast' started by user 'user_b' at 14:38:45 UTC Thu Mar 30 2006. The operation is 1% complete 2,017KB downloaded The operation can still be aborted.						
	The following example shows sample output from the show install request command when there is insufficient disk space in the root file system. An error message is displayed to indicate the insufficient disk space.						
	Router #show ins Wed Jan 8 13:2	-					

User request: install replace /harddisk:/replace.iso Operation ID: 3.2 State: Failure since 2020-01-08 13:28:26 UTC Disk space check failed on nodes: 0/1/CPUO. Automatically recovered after failure, ready for next user request. Current activity: Await user input Time started: 2020-01-08 13:29:25 The following actions are available: install package add

install package remove install package upgrade install package downgrade install package replace install package rollback install commit

show interfaces

To display statistics, state and other information such as mac address etc. for all interfaces configured on the router or for a specific node, use the **show interfaces** command in XR EXEC mode.

show interfaces [summary | [type interface-path-id | all | local] [non-dynamic] [brief | description | detail | sparse | accounting]] [location node-id]

Syntax Description	type	(Optional) Specifies the type of interface for which you want to display statistics. For more information, use the question mark (?) online help function.
	interface-path-id	Physical interface or virtual interface.
		Note Use the show interfaces brief command to see a list of all interfaces configured on the router.
		For more information about the syntax for the router, use the question mark (?) online help function.
	all	(Optional) Displays interface information for all interfaces. This is the default.
	local	(Optional) Displays interface information for all interfaces in the local card.
	location node-id	(Optional) Displays information about all interfaces on the specified node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
	accounting	(Optional) Displays the number of packets of each protocol type that have been sent through the interface.
	brief	(Optional) Displays brief information of each interface (one line per interface).

	description	(Optional) Displays the status, protocol, and description of each interface (one line per interface).			
	detail	(Optional) Displays detailed information about each interface. This is the default.			
	summary	(Optional) Displays a summary of interface information by interface type.			
	sparse	(Optional) Displays sparse per interface information excluding interface statistics.			
	non-dynamic	(Optional) Displays interface information excluding dynamic interfaces.			
Command Default	By default, executing show interface command without any option it displays the information for all interfaces in the system.	works similar as show interface all , and			
Command Modes	XR EXEC mode				
Command History	Release Modification				
	Release This command was introduced. 4.0.0				
	Release The keywords sparse and non-dynamic were introduce 7.4.2	ed.			
Jsage Guidelines	The show interfaces command displays statistics, state and other in the network interfaces.	formation such as mac address etc. for			
	For example, if you type the show interfaces command without an interface type, you receive information for all the interfaces installed in the networking device. Only by specifying the interface <i>type</i> , <i>slot</i> , and <i>port</i> arguments can you display information for a particular interface.				
	If you enter a show interfaces command for an interface type that has been removed from the networking device, an error message is displayed: "Interface not found."				
	The output displayed depends on the network for which an interface has been configured.				
-	Note Executing show interfaces command without filters obtains and Hence, it is recommended to execute the command with filters of interest for a faster response. Executing show interfaces with statistics thus providing a faster response.	to select specific interfaces or interface			

statistics thus providing a faster response.

Task ID

Examples

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Note	given 5-minute perio	d. These rates a onstants must p	are exponentially w bass before the aver	ly as an approximation of traffi eighted averages with a time co age is within 2 percent of the in	onstant of 5 mi
Tas	sk ID Operations				
inte	erface read				
	s example shows the o he type and number of			ommand. The output displayed device.	depends
Rou	ter# show interf	aces Hundr	edGigE 0/3/0	/35	
H D I M E F O C C L L L L J 3	escription: **To Rc nternet address is TU 1514 bytes, BW 1 reliability 255/2 ncapsulation ARPA, ull-duplex, 100000M utput flow control arrier delay (up) i oopback not set, ast link flapped 3w RP type ARPA, ARP t ast input 00:00:00, ast clearing of "sh 0 second input rate 0 second output rate 68118736643563 pa 0 drops for unrec Received 0 broadc 0 runts, 174 input errors,	sigE, address suterX Hu0/7/ 192.168.1.29 00000000 Kbi 55, txload 2 b/s, unknown is off, inpu s 10 msec ad imeout 04:00 output 00:0 output 00:0 output 00:0 southerface 93725392000 ce 9372641600 ckets input, cognized uppe ast packets, 0 174 CRC, 0 ckets output t packets, 0 o underruns, ailures, 0 o	0/2** /30 t (Max: 1000000 39/255, rxload 2 , link type is i t flow control i :00 0:00 " counters never bits/sec, 3252 24783244282360 r-level protocoi 0 multicast pac throttles, 0 pa frame, 0 overrur , 24782409845763 multicast packe 0 applique, 0 m	38/255 orce-up s off 692 packets/sec 7860 packets/sec 79 bytes, 0 total input d: kets rity , 0 ignored, 0 abort 776 bytes, 0 total output ts esets	-
stat shu Rou	-	er the bundle in s brief		e status is "err-disable" and line Iministratively shut down using	-
				Encap MTU I	

BE10	down	down	ARPA	1514	0
BE100	up	up	ARPA	1514	100000000
BE101	up	up	ARPA	1514	100000000
LoO	up	up	Loopback	1500	0
Nu0	up	up	Null	1500	0
Fo0/3/0/26	admin-down	admin-down	ARPA	1514	40000000
Hu0/3/0/0	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/1	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/2	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/3	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/4	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/5	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/6	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/7	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/8	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/9	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/10	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/11	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/12	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/13	down	down	ARPA	1514	100000000
Hu0/3/0/14	up	up	ARPA	1514	100000000
Hu0/3/0/15	up	up	ARPA	1514	100000000
Hu0/3/0/16	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/17	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/18	up	up	ARPA	1514	100000000
Hu0/3/0/19	up	up	ARPA	1514	100000000
Hu0/3/0/20	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/21	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/22	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/23	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/24	up	up	ARPA	1514	100000000
Hu0/3/0/25	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/27	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/28	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/29	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/30	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/31	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/32	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/33	admin-down	admin-down	ARPA	1514	100000000
Hu0/3/0/34	down	down	ARPA	1514	100000000
Hu0/3/0/35	up	up	ARPA	1514	100000000
Mg0/RP0/CPU0/0	up	up	ARPA	1514	1000000
Mg0/RP1/CPU0/0	up	up	ARPA	1514	1000000

This example shows the output from the show interfaces interface-path-id sparse command.

Router#show interfaces gigabitEthernet 0/1/0/0 sparse Wed Apr 5 18:05:34.000 IST

Interface name : GigabitEthernet0/1/0/0
Operational state : administratively down
Admin state : administratively down
MAC address : 02:7d:42:e9:bd:36
Burned In Address : 027d.42e9.bd36
IPv4 Address : 2.2.2.2/24
Max. Bandwidth (Kbit) : 1000000
Effective Bandwidth (Kbit) : 1000000
MTU (in bytes) : 1514
Duplexity : Full-duplex
Link type : force-up

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Table 1: show	r interfaces	Field	Descriptions
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Field	Description		
Interface name	Displays the name of the current interface. In the example, the interface name is TenGigE0/1/0/1.		
Interface state	Displays the state of the interface. In the example, the interface is in the administratively down state.		
Interface state transitions	Displays the number of times the interface has changed the state.		
	 Note Interface state transitions command counts only if the interface stays up. If the line protocol flaps, then it is not counted. Interface state transitions counts the state when the line protocol state changes the state from up to down/admin-down or admin-down/down to up. If an interface changes the state from down to admin-down or admin-down to down, the counter is not incremented. Use the clear state-transitions command to clear the counter for the current or all interfaces. 		
line protocol state	Displays the state of the Layer 2 line protocol. This field may be different from the interface state if, for example, a keepalive failure has brought down the Layer 2.		
	Note The line protocol state is not the same as the protocol state displayed in the show ip interfaces command, because it is the state of Layer 2 (media) rather than Layer 3 (IP protocol).		
Hardware	Displays the current hardware type.		
address is <i>n.n.n.n/n</i>	Displays the Layer 2 address (MAC address for Ethernet interfaces).		
	Note Enter the mac-address command to configure the hardware address.		

Field	Description
bia	Displays the burned-in address (BIA) for the interface. The BIA is the default L2 (MAC) address for the interface.
	Note The BIA is not configurable.
description	Displays the user-defined string that is associated with the interface.
	Note Enter the description command to configure the description associated with the interface.
Internet address	Displays the Layer 3 (IP) address for the interface.
	Note Enter the ipv4 address command to configure the internet address for the interface.
MTU	Displays the maximum transmission unit (MTU) for the interface. The MTU is the maximum packet size that can be transmitted over the interface.
	Note The MTU field indicates the interface MTU. Enter the mtu command to configure a lower MTU value at the Layer 3 level.
BW	Displays the bandwidth of the interface in kbps.
reliability	Displays the proportion of packets that are not dropped and do not have errors.
	Note The reliability is shown as a fraction of 255.
txload	Indicates the traffic flowing out of the interface as a proportion of the bandwidth.
	Note The txload is shown as a fraction of 255.
rxload	Indicates the traffic flowing into the interface as a proportion of the bandwidth.
	Note The rxload is shown as a fraction of 255.
Encapsulation	Layer 2 encapsulation installed on the interface.

Field	Descript	tion
CRC	Indicate (CRC),	s the length of the cyclic redundancy check in bytes.
	Note	The CRC is not present for all interface types.
	Note	Enter the pos crc command to configure the CRC.
loopback or controller loopback		s whether the hardware has been configured oped back.
	Note	Enter the loopback command to configure the loopback or controller loopback.
keepalive	Displays	s the configured keepalive value, in seconds.
	Note	Enter the keepalive command to configure the value of the keepalive field.
	Note	The <i>keepalive</i> field may not be present if it is not applicable to the interface type.
Duplexity	Displays	s the duplexity of the link.
	Note	This field is present only for shared media.
	Note	For some interface types, you can configure the duplexity by entering the full-duplex and half-duplex commands.
Speed	is preser	nd bandwidth of the link in Mbps. This field nt only when other parts of the media info also displayed (see duplexity and media type).
Media Type	Media ty	ype of the interface.
output flow control	Whether	r output flow control is enabled on the e.
input flow control	See outp	out flow control.
ARP type	interface	Resolution Protocol (ARP) type used on the e. This value is not displayed on interface at do not use ARP.

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Field	Description
ARP timeout	ARP timeout in <i>hours:mins:secs</i> . This value is configurable using the arp timeout command.
Last clearing of counters	Time since the following counters were last cleared using the clear counters exec command in <i>hours:mins:secs</i> .
Input rate	Average number of bits and packets received per second during the load-interval. If the interface is not in promiscuous mode, it senses network traffic that it sends and receives (rather than all network traffic).
	Note Load duration is based on load-interval configured under the interface. The default load duration is 5 minutes, if load-interval is not configured under the interface.
	Note The input rate should be used only as an approximation of traffic per second during a given load duration. This rate is exponentially weighted average with a time constant of load duration. A period of four time constants must pass before the average will be within two percent of the instantaneous rate of a uniform stream of traffic over that period.
packets input	Number of packets received on the interface that were successfully delivered to higher layers.
bytes input	Total number of bytes successfully received on the interface.
	Note This does not include FCS bytes.
total input drops	Total number of packets that were dropped after they were received. This includes packets that were dropped due to configured quality of service (QoS) or access control list (ACL) policies. This does not include drops due to unknown Layer 3 protocol.
drops for unrecognized upper-level protocol	Total number of packets that could not be delivered because the necessary protocol was not configured on the interface.
Received broadcast packets	Total number of Layer 2 broadcast packets received on the interface. This is a subset of the total input packet count.

Description
Total number of Layer 2 multicast packets received on the interface. This is a subset of the total input packet count.
Number of received packets that were too small to be handled. This is a subset of the input errors count.
Number of received packets that were too large to be handled. This is a subset of the input errors count.
Number of packets dropped due to throttling (because the input queue was full).
Number of packets dropped because the parity check failed.
Total number of received packets that contain errors and hence cannot be delivered. Compare this to total input drops, which counts packets that were not delivered despite containing no errors.
Number of packets that failed the CRC check.
Number of packets with bad framing bytes.
Number of overrun errors experienced by the interface. Overruns represent the number of times that the receiver hardware is unable to send received data to a hardware buffer because the input rate exceeds the receiver's ability to handle the data.
Total number of ignored packet errors. Ignored packets are those that are discarded because the interface hardware does not have enough internal buffers. Broadcast storms and bursts of noise can result in an increased number of ignored packets.
Total number of abort errors on the interface.
Number of packets received on the interface that were successfully delivered to higher layers.
Total number of bytes successfully received on the interface.
Note This does not include FCS bytes.
Number of packets that were dropped before being transmitted

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Field	Description
Received broadcast packets	Number of Layer 2 broadcast packets transmitted on the interface. This is a subset of the total input packet count.
Received multicast packets	Total number of Layer 2 multicast packets transmitted on the interface. This is a subset of the total input packet count.
output errors	Number of times that the receiver hardware was unable to handle received data to a hardware buffer because the input rate exceeded the receiver's ability to handle the data.
underruns	Number of underrun errors experienced by the interface. Underruns represent the number of times that the hardware is unable to transmit data to a hardware buffer because the output rate exceeds the transmitter's ability to handle the data.
applique	Number of applique errors.
resets	Number of times that the hardware has been reset. The triggers and effects of this event are hardware-specifc.
output buffer failures	Number of times that a packet was not output from the output hold queue because of a shortage of MEMD shared memory.
output buffers swapped out	Number of packets stored in main memory when the output queue is full; swapping buffers to main memory prevents packets from being dropped when output is congested. The number is high when traffic is bursty.
carrier transitions	Number of times the carrier detect (CD) signal of a serial interface has changed state.

show inventory

To retrieve and display information about all the Cisco products that are installed in the router, use the **show inventory** command in XR EXEC mode.

show inventory [{ node-id | all | location { node-id | all } | raw | chassis | details | fan | power | vendor-type }]

Syntax Description	node-id	(Optional) Location for which to display the specified information. The <i>node-id</i> argument is entered in the <i>rack/slot</i> notation.	
	all	(Optional) Displays inventory information for all the physical entities in the chassis.	
	location {node-id all}	(Optional) Displays inventory information for a specific node, or for all nodes in the chassis.	
	raw	(Optional) Displays raw information about the chassis for diagnostic purposes.	
	chassis	(Optional) Displays only information about the chassis.(Optional) Displays detailed entity information.(Optional) Displays inventory information for the fans.	
	details		
	fan		
	power	(Optional) Displays inventory information for the power supply.	
	vendor-type	(Optional) Displays vendor-type information.	
Command Default	All inventory informati	ion for the entire chassis is displayed.	
Command Modes	XR EXEC mode		
Command History	Release	Modification	
	Release 7.0.12	This command was introduced.	
Usage Guidelines	If a Cisco entity is not a	assigned a product ID (PID), that entity is not retrieved or displayed.	
-	Enter the show inventory command with the raw keyword to display every RFC 2737 entity installed in the router, including those without a PID, unique device identifier (UDI), or other physical identification.		
	Note The raw keyword itself.	is primarily intended for troubleshooting problems with the show inventory command	
	If any of the Cisco products do not have an assigned PID, the output displays incorrect PIDs, and version ID (VID) and serial number (SN) elements may be missing.		
		roducts, the PID, VID, and SN are stored in EEPROM and NVRAM. Use the show o display this information.	

The following example shows partial sample output from the **show inventory** command with the **raw** keyword:

Router#show inventory raw Tue Mar 7 07:34:48.602 UTC NAME: "Rack 0", DESCR: "Cisco 8201 1RU Chassis" , VID: V00, SN: FOC2217JIRS PTD: 8201 NAME: "Rack 0-Control Card Slot 0", DESCR: "8201 Route Processor Slot 0" , VID: N/A, SN: N/A PID: N/A NAME: "0/RP0/CPU0", DESCR: "Cisco 8201 1RU Chassis" , VID: V00, SN: FOC2219JGLB PID: 8201 NAME: "0/RP0/CPU0-Mother Board", DESCR: "Mother Board" , VID: N/A, SN: N/A PID: N/A NAME: "0/RP0/CPU0-Broadwell-DE (D-1530)", DESCR: "Processor Module" , VID: N/A, SN: N/A PID: N/A NAME: "0/RP0/CPU0-Attention", DESCR: "LED Sensor" , VID: N/A, SN: N/A PID: N/A NAME: "0/RP0/CPU0-Status", DESCR: "LED Sensor" PID: N/A , VID: N/A, SN: N/A NAME: "0/RP0/CPU0-Sync", DESCR: "LED Sensor" PID: N/A , VID: N/A, SN: N/A NAME: "0/RP0/CPU0-MB RT GB PIN", DESCR: "Power Sensor - MB-RT GB ONLY 0.8VB PIN" PID: N/A , VID: N/A, SN: N/A --More--

The following example shows the sample output from the **show inventory** command with the **chassis** keyword:

```
Router#show inventory chassis
Thu Apr 6 04:56:46.987 UTC
NAME: "Rack 0", DESCR: "Cisco 8808 8-slot Chassis"
PID: 8808 , VID: V00, SN: FOX224PPUDA
```

The following table describes the significant fields shown in the display.

Table 2: show inventory Field Descriptions

Field	Description
NAME	Hardware for which the inventory information is displayed. If you are displaying the chassis inventory, this field shows "chassis." If you are displaying raw inventory, or all inventory information for all nodes in the chassis, this field shows the node name in partially qualified format. For a node, the NAME is expressed in <i>rack/slot</i> notation.
DESCR	Describes the chassis or the node.
	Chassis descriptions provide the name of the chassis and its Gbps. Node descriptions provide the type of node and its software version.
PID	Physical model name of the chassis or node.

Field	Description
VID	Physical hardware revision of the chassis or node.
SN	Physical serial number for the chassis or node.

show ipv4 interface

To display the usability status of interfaces configured for IPv4, use the **show ipv4 interface** command in XR EXEC mode.

show **ipv4 interface** [{ type interface-path-id | **brief** | **summary** }] If VRF is not specified, the software displays the default VRF. **Command Default** XR EXEC mode **Command Modes** The **show ipv4 interface** command provides output similar to the **show ipv6 interface** command, except that **Usage Guidelines** it is IPv4-specific. Task ID Task ID Operations ipv4 read network read **Examples** This is the sample output of the show ipv4 interface command: Router# show ipv4 interface Loopback0 is Up, line protocol is Up Internet address is .0.0.1/ Secondary address 10.0.0./8 MTU is 1514 (1514 is available to IP) Multicast reserved groups joined: 10.0.0.1 Directed broadcast forwarding is disabled Outgoing access list is not set Inbound access list is not set Proxy ARP is enabled ICMP redirects are always sent ICMP unreachables are always sent /0/0/0 is Up, line protocol is Up Internet address is 10.25.58.1/16 MTU is 1514 (1500 is available to IP) Multicast reserved groups joined: .0..1 Directed broadcast forwarding is disabled Outgoing access list is not set Inbound access list is not set Proxy ARP is enabled ICMP redirects are always sent ICMP unreachables are always sent /0/0/0 is Shutdown, line protocol is Down

Internet protocol processing disabled

This table describes the significant fields shown in the display.

Table 3: show ipv4 interface Command Field Descriptions

Field	Description
Loopback0 is Up	If the interface hardware is usable, the interface is marked "Up." For an interface to be usable, both the interface hardware and line protocol must be up.
line protocol is Up	If the interface can provide two-way communication, the line protocol is marked "Up." For an interface to be usable, both the interface hardware and line protocol must be up.
Internet address	IPv4 Internet address and subnet mask of the interface.
Secondary address	Displays a secondary address, if one has been set.
MTU	Displays the IPv4 MTU ^{1} value set on the interface.
Multicast reserved groups joined	Indicates the multicast groups this interface belongs to.
Directed broadcast forwarding	Indicates whether directed broadcast forwarding is enabled or disabled.
Outgoing access list	Indicates whether the interface has an outgoing access list set.
Inbound access list	Indicates whether the interface has an incoming access list set.
Proxy ARP	Indicates whether proxy ARP^2 is enabled or disabled on an interface.
ICMP redirects	Specifies whether $ICMPv4^{\frac{3}{2}}$ redirects are sent on this interface.
ICMP unreachables	Specifies whether unreachable messages are sent on this interface.
Internet protocol processing disabled	Indicates an IPv4 address has not been configured on the interface.

MTU = maximum transmission unit
 ARP = Address Resolution Protocoladdress resolution protocol
 ICMPv4 = Internet Control Message Protocol internet control message protocol version 4

show ipv6 interface

To display the usability status of interfaces configured for IPv6, use the **show ipv6 interface** command in XR EXEC mode.

	show ipv6 i }]	nterface [{ summary [<i>type</i> interface-path-id] [brief [{ link-local global }]]
Syntax Description	type	(Optional) Interface type. For more information, use the question mark (?) online help function.
	interface-path-id	(Optional) Either a physical interface instance or a virtual interface instance as follows:
		• Physical interface instance. Naming notation is <i>rack/slot/module/port</i> and a slash between values is required as part of the notation.
		• <i>rack</i> : Chassis number of the rack.
		• <i>slot</i> : Physical slot number of the modular services card or line card.
		• <i>module</i> : Module number. A physical layer interface module (PLIM) is always 0.
		• port: Physical port number of the interface.
		Note In references to a Management Ethernet interface located on a route processor card, the physical slot number is alphanumeric (RSP0) and the module is CPU0. Example: interface MgmtEth0/RSP0 /CPU0/0.
		• Virtual interface instance. Number range varies depending on interface type.
		For more information about the syntax for the router, use the question mark (?) online help function.
	brief	(Optional) Displays the primary IPv6 addresses configured on the router interfaces and their protocol and line states.
	link-local	(Optional) Displays the link local IPv6 address.
	global	(Optional) Displays the global IPv6 address.
	summary	(Optional) Displays the number of interfaces on the router that are assigned, unassigned, or unnumbered.
Command Default	None	
Command Modes	XR EXEC mode	
Command History	Release Modif	ication
	Release This c 6.0	ommand was introduced.

Usage Guidelines	The show ipv6 interface command provides output similar to the show ipv4 interface command, except that it is IPv6-specific.
	Use the link-local or global keywords along with the brief keyword to view the link local or global IPv6 addresses.
Task ID	Task Operations ID
	ipv6 read
Examples	This is the sample output of the show ipv6 interface command:
	<pre>Router#show ipv6 interface Wed Mar 8 04:27:58.236 UTC FourHundredGigE0/0//0/ 0 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/1 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/2 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/3 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/4 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/4 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/4 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/5 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/6 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/6 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/7 is Shutdown, ipv6 protocol is Down, Vrfid is default (0x6000000) IPv6 is disabled, link-local address unassigned No global unicast address is configured FourHundredGigE0/0/0/7 is Shutdown, ipv6 protocol</pre>

Field	Description
	Indicates whether the interface hardware is currently active (whether line signal is present) and whether it has been taken down by an administrator. If the interface hardware is usable, the interface is marked "Up." For an interface to be usable, both the interface hardware and line protocol must be up.
line protocol is Up (or down)	Indicates whether the software processes that handle the line protocol consider the line usable (that is, whether keepalives are successful). If the interface can provide two-way communication, the line protocol is marked "Up." For an interface to be usable, both the interface hardware and line protocol must be up.

Table 4: show ipv6 interface C	Command Field Descriptions
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Field	Description					
IPv6 is enabled, stalled, disabled (stalled and disabled are not shown in sample output)	Indicates that IPv6 is enabled, stalled, or disabled on the interface. If IPv6 is enabled, the interface is marked "enabled." If duplicate address detection processing identified the link-local address of the interface as being a duplicate address, the processing of IPv6 packets is disabled on the interface and the interface is marked "stalled." If IPv6 is not enabled, the interface is marked "disabled."					
link-local address	Displays the link-local address assigned to the interface.					
TENTATIVE	The state of the address in relation to duplicate address detection. States can be any of the following:					
	• duplicate—The address is not unique and is not being used. If the duplicate address is the link-local address of an interface, the processing of IPv6 packets is disabled on that interface.					
	• tentative—Duplicate address detection is either pending or under way on this interface.					
	Note If an address does not have one of these states (the state for the address is blank), the address is unique and is being used.					
Global unicast addresses	Displays the global unicast addresses assigned to the interface.					
ICMP redirects	State of Internet Control Message Protocol (ICMP) IPv6 redirect messages on the interface (the sending of the messages is enabled or disabled).					
ND DAD	State of duplicate address detection on the interface (enabled or disabled).					
number of DAD attempts	Number of consecutive neighbor solicitation messages that are sent on the interface while duplicate address detection is performed.					
ND reachable time	Displays the neighbor discovery reachable time (in milliseconds) assigned to this interface.					

This is the sample output of the show ipv6 interface brief link-local command:

Router#show ipv6 interface brief link-local

This is the sample output of the **show ipv6 interface brief global** command:

Router#show ipv6 interface brief global

This is the sample output of the **show ipv6 interface** *type interface-path-id* **brief link-local** command:

Router#show ipv6 interface tenGigE 0/0/0/0 brief link-local

InterfaceIPv6-AddressStatusProtocol0/0/0/0fe80::fe:8ff:fecb:26c5UpUp

This is the sample output of the **show ipv6 interface** *type interface-path-id* **brief global** command:

Router#show ipv6 interface tenGigE 0/0/0/0 brief global

Interface		IPv6-Address			Status	Protocol
0/0/0/0	2001:db8::1		Up	Up		

show logging

To display the contents of the logging buffer, use the **show logging** command in XR EXEC mode.

show logging [{ [alarm-location location] | [correlator options] | local location node-id | [location node-id] [start month day hh : mm :ss] [process name] string string [[end month day hh : mm : ss] [events options] [files] [history] [last *entries*] [**onboard** *entries*] [**suppress rule** $\{ rule name | all \} \} \}$ Syntax Description alarm-location trace location (Optional) Displays alarm-location information. The trace option shows trace data for the alarm location components. **correlator**options (Optional) Displays content and information about correlation buffer. Options available are: buffer: Displays content of the correlation buffer. info: Displays information about event correlation. • trace: Displays trace data for the alarm logger component. end month day hh : mm : ss (Optional) Displays syslog messages with a time stamp equal to or lower than the time stamp specified with the monthday hh: mm: ss argument. The ranges for the *month day hh* : *mm* : *ss* arguments are: • month—The month of the year. The values for the month argument are the names of the twelve months. • *day*—Day of the month. Range is from 01 to 31. • hh :--Hours. Range is from 00 to 23. You must insert a colon after the *hh* argument. • mm :--Minutes. Range is from 00 to 59. You must insert a colon after the *mm* argument. • ss—Seconds. Range is from 00 to 59. Displays content and information about the event events options buffer. The various options available are: • buffer: Displays content of the event buffer. • info: Displays information about events buffer. • rule: Displays specified rules. • ruleset: Displays rulesets. · trace: Displays trace data for the correlation component.

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files	Show logging files and path.
history	Displays contents of logging history.
last entries	Displays last <n> entries. The number of entries can range from 1 to 500.</n>
local location node-id	(Optional) Displays system logging (syslog) messages from the specified local buffer. The <i>node-id</i> argument is entered in the <i>rack/slot/modul e</i> notation.
location node-id	(Optional) Displays syslog messages from the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/modul e</i> notation.
onboard options	Displays on board logging. The various options available are:
	• alarm: Displays alarm data.
	• fpd: Displays FPD version data.
	• inventory: Displays inventory data.
	• npu: Displays NPU life-time data.
	• temperature: Displays temperature sensor data
	• uptime: Displays system uptime data
	• voltage: Displays voltage sensor data.
start month day hh : mm : ss	(Optional) Displays syslog messages with a time stamp equal to or higher than the time stamp specified with the <i>month day mm</i> : <i>hh</i> : <i>ss</i> argument.
	The ranges for the <i>month day hh</i> : <i>mm</i> : <i>ss</i> arguments are as follows:
	 <i>month</i>—The month of the year. The values for the <i>month</i> argument are the names of the twelve months. <i>day</i>—Day of the month. Range is from 01 to 31. <i>hh</i> :—Hours. Range is from 00 to 23. You must insert a colon after the <i>hh</i> argument. <i>mm</i> :—Minutes. Range is from 00 to 59. You must insert a colon after the <i>mm</i> argument. <i>ss</i>—Seconds. Range is from 00 to 59.
process name	(Optional) Displays syslog messages related to the specified process.
string string	(Optional) Displays syslog messages that contain the specified string.

	suppress rule{	rule_name all }	Displays content and information about log suppression. The rule option shows specified rules.	
Command Default	None			
Command Modes	XR EXEC mode	:		
Command History	Release		Modification	
	Release 7.0.12		This command was introduced.	
Usage Guidelines			the state of syslog error and event logging on the processor console. des the types of logging enabled and the size of the buffer.	
Task ID	Task Operatio	ins		
	logging read			
Examples	argument pair an	d location node-id keywo	ogging command using both the process <i>name</i> keyword ord argument pair. Syslog messages related to the "init" re displayed in the sample output.	
	Tue Mar 7 08: Syslog logging Console lo Monitor lo Trap loggi	: enabled (0 messages ogging: level warnings ogging: level debuggin ng: level information	dropped, 0 flushes, 0 overruns) , 7 messages logged	
	Log Buffer (2097152 bytes):			
	This table descri	bes the significant fields s	shown in the display.	
	Table 5: show loggin	g Field Descriptions		
	Field	Description		

Field	Description
Syslog logging	If enabled, system logging messages are sent to a UNIX host that acts as a syslog server; that is, the host captures and saves the messages.
Console logging	If enabled, the level and the number of messages logged to the console are stated; otherwise, this field displays "disabled."
Monitor logging	If enabled, the minimum level of severity required for a log message to be sent to the monitor terminal (not the console) and the number of messages logged to the monitor terminal are stated; otherwise, this field displays "disabled."
Trap logging	If enabled, the minimum level of severity required for a log message to be sent to the syslog server and the number of messages logged to the syslog server are stated; otherwise, this field displays "disabled."

Field	Description
Buffer logging	If enabled, the level and the number of messages logged to the buffer are stated; otherwise, this field displays "disabled."

To find out OOR state of a router's hardware and Software Development Kit (SDK) resources, you can view the sample output from the **show logging** command with the output modifier as OOR. You can configure the threshold value at which a router reaches the **OOR State Red** or **Yellow** by using the oor hw threshold command. For more information, see oor hw threshold command in the chapter *Logging Services Commands* of *System Monitoring Command Reference for Cisco 8000* Series Routers.

Router# show logging | inc OOR

Wed Jan 6 23:36:34.138 EST

LC/0/0/CPU0:Jan 6 23:01:09.609 EST: npu_drvr[278]: **%PLATFORM-OFA-4-OOR_YELLOW** : NPU 1, Table nhgroup, Resource stage2_lb_group

LC/0/0/CPU0:Jan 6 23:01:29.655 EST: npu_drvr[278]: **%PLATFORM-OFA-4-OOR_YELLOW** : NPU 1, Table nhgroup, Resource stage2_lb_member

LC/0/0/CPU0:Jan 6 23:01:38.938 EST: npu_drvr[278]: **%PLATFORM-OFA-1-OOR_RED** : NPU 3, Table nhgroup, Resource stage2_lb_group

show ntp status

To display the status of Network Time Protocol (NTP), use the **show ntp status** command in XR EXEC mode.

show ntp status [location *node-id*]

Syntax Description	location <i>node-id</i> (Optional) Displays the status of NTP from the designated node. The <i>node-id</i> argume is entered in the <i>rack/slot</i> notation.		
Command Default	- None		
Command Modes	XR EXEC mode		
Command History	Release	Modification	
	Release 7.0.12	This command was introduced.	
Usage Guidelines	No specific guidelines impa	act the use of this command.	
Task ID	Task ID Operations		
	ip-services read		

This example shows sample output from the **show ntp status** command:

Router# show ntp status

Clock is synchronized, stratum 3, reference is 192.168.128.5 nominal freq is 1000.0000 Hz, actual freq is 1000.0021 Hz, precision is 2**24 reference time is CC38EC6A.8FCCA1C4 (10:10:02.561 JST Tue Jul 29 2008) clock offset is -124.051 msec, root delay is 174.060 msec root dispersion is 172.37 msec, peer dispersion is 0.10 msec loopfilter state is 'CTRL' (Normal Controlled Loop), drift is -0.0000021106 s/s system poll interval is 32, last update was 19 sec ago

Table 6: show ntp status Field Descriptions

Field	Description
synchronized	Synchronized system to an NTP peer.
stratum	NTP stratum of this system.
reference	IPv4 address or first 32 bits of the MD5 hash of the IPv6 address of the peer to which clock is synchronized.
nominal freq	Nominal frequency in Hertz (Hz) of the system hardware clock.

Field	Description	
actual freq	Measured frequency in Hz of the system hardware clock.	
precision	Precision of the clock of this system in Hz.	
reference time	Reference time stamp.	
clock offset	Offset of clock to synchronized peer, in milliseconds.	
root delay	Total delay along path to root clock, in milliseconds.	
root dispersion	Dispersion of root path.	
peer dispersion	Dispersion of synchronized peer.	
loopfilter state	The state of the clock state machine transition function.	
drift	Drift of the hardware clock.	
system poll interval	Poll interval of the peer.	
last update	Time the router last updated its NTP information.	

show platform

To display information and status for each node in the system, use the **show platform** command in XR EXEC mode.

Syntax Description	node-id		Optional) Node for which to rgument is entered in the <i>rac</i> .	display information. The <i>node-id k/slot</i> notation.
Command Default	Status and information are displayed for all nodes in the system.			
Command Modes	XR EXEC mode			
Command History	Release	Мо	dification	
	Release 7.0.12			
Usage Guidelines	The show platfo	rm command provides a sur	nmary of the nodes in the syst	tem, including node type and status
J.	Ines The show platform command provides a summary of the nodes in the system, including node type ar Enter the show platform command in EXEC mode to display output for only those nodes that below SDR on which the command is executed.			only those nodes that belong to th
Task ID	Task Operatio	ns		
	system read			
	The following ex	ample shows sample outpu	t from the show platform co	mmand:
	The following ex Router#show pl		t from the show platform co	mmand:
	-	atform	t from the show platform co	mmand:
	Router# show pl	atform	t from the show platform co	mmand: Config state
	Router# show pl Thu Apr 6 00:5 Node	atform 6:22.922 UTC Type	State	Config state
	Router# show pl Thu Apr 6 00:5	atform 6:22.922 UTC	_	Config state NSHUT,NMON
	Router #show pl Thu Apr 6 00:5 Node 0/RP0/CPU0	atform 6:22.922 UTC Type 	State IOS XR RUN	Config state
	Router #show pl Thu Apr 6 00:5 Node 0/RP0/CPU0 0/0/CPU0	atform 6:22.922 UTC Type 	State IOS XR RUN IOS XR RUN	Config state NSHUT,NMON NSHUT
	Router #show pl Thu Apr 6 00:5 Node 0/RP0/CPU0 0/0/CPU0 0/1/CPU0	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M	State IOS XR RUN IOS XR RUN IOS XR RUN	Config state NSHUT,NMON NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 0/RP0/CPU0 0/0/CPU0 0/1/CPU0 0/FC0	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL	Config state NSHUT,NMON NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 0/RP0/CPU0 0/0/CPU0 0/1/CPU0 0/FC0 0/FC1	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL	Config state NSHUT,NMON NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 0/RP0/CPU0 0/0/CPU0 0/1/CPU0 0/FC0 0/FC1 0/FT0	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FC 8812-FAN	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT,NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FAN 8812-FAN	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT, NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FC 8812-FAN 8812-FAN 8812-FAN	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT, NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FC 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT, NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN	State IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT, NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 0/RP0/CPU0 0/CPU0 0/FC0 0/FC1 0/FC0 0/FC1 0/FT2 0/FT2 0/FT3 0/PT0 0/PT1 0/PT2	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT, NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT, NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT
	Router #show pl Thu Apr 6 00:5 Node 	atform 6:22.922 UTC Type 8800-RP(Active) 8800-LC-48H 88-LC0-36FH-M 8812-FC 8812-FC 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8812-FAN 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY 8800-HV-TRAY	State IOS XR RUN IOS XR RUN IOS XR RUN OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL OPERATIONAL	Config state NSHUT, NMON NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT NSHUT

This table describes the significant fields shown in the display.

Table 7: show platform Field Descriptions

Field	Description
Node	Identifier of the node in the <i>rack/slot</i> notation.
Туре	Type of node.
State	Current state of the specified node.
Config State	Current configuration state of the specified node.

show redundancy

To display the status of route processor redundancy, use the show redundancy command in

	EXEC		
	mode.		
	ahow vodu	ndonay [location	(us ds id all) statistics summary)]
	snow redu		{node-id all} statistics summary}]
Syntax Description	location {n	aode-id all }	(Optional) Specifies the node for which to display LED information. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation. Use the all keyword to indicate all nodes.
	statistics		(Optional) Displays redundancy statistics information.
	summary		(Optional) Displays a summary of all redundant node pairs in the router.
Command Default	Route proce	essor redundancy info	ormation is displayed for all nodes in the system.
Command Modes	EXEC		
Command History	Release		
	norodoo		Modification
,	Release 7.0	0.12	Modification This command was introduced.
	Release 7.0 Use the sho The show re	w redundancy comm edundancy comman	This command was introduced. nand to display the redundancy status of the route switch processors (RSPs)
Usage Guidelines	Release 7.0 Use the sho The show re	w redundancy comm edundancy comman	This command was introduced. nand to display the redundancy status of the route switch processors (RSPs) d also displays the boot and switchover history for the . To view the nonstop
Usage Guidelines Task ID	Release 7.0 Use the sho The show re routing (NS	w redundancy commedundancy comman R) status of the stand	This command was introduced. nand to display the redundancy status of the route switch processors (RSPs) d also displays the boot and switchover history for the . To view the nonstop
Usage Guidelines	Release 7.0 Use the show re routing (NS Task ID system	w redundancy comm edundancy comman R) status of the stand Operations	This command was introduced. nand to display the redundancy status of the route switch processors (RSPs) d also displays the boot and switchover history for the . To view the nonstop lby in the system, use the summary keyword.
Usage Guidelines	Release 7.0 Use the show re routing (NS Task ID system basic-servic	w redundancy comme edundancy comman R) status of the stand Operations read es read (for statistic	This command was introduced. nand to display the redundancy status of the route switch processors (RSPs) d also displays the boot and switchover history for the . To view the nonstop lby in the system, use the summary keyword.
Usage Guidelines	Release 7.0 Use the show re routing (NS Task ID system basic-servic The followin Router# sh Thu Jul 30 Node 0/RSP	w redundancy comme edundancy comman R) status of the stand Operations read es read (for statistic	This command was introduced. nand to display the redundancy status of the route switch processors (RSPs) d also displays the boot and switchover history for the . To view the nonstop thy in the system, use the summary keyword. cs keyword) mple output from the show redundancy command: ation 0/rsp0/cpu0 VE role
Usage Guidelines	Release 7.0 Use the show re routing (NS Task ID system basic-servic The followin Router# sh Thu Jul 30 Node 0/RSP Reload and	w redundancy commendancy commendancy commanes (Commendancy commanes) status of the stand (Commendancy commendancy loc (Commendancy loc (Commen	This command was introduced. nand to display the redundancy status of the route switch processors (RSPs) d also displays the boot and switchover history for the . To view the nonstop thy in the system, use the summary keyword. cs keyword) mple output from the show redundancy command: ation 0/rsp0/cpu0 VE role

Active node reload "Cause: User initiated forced reload all"

Field	Description
Node */*/* is in XXX role	Current role of the primary route processor, where $(*/*/*)$ is the route processor ID in the format <i>rack/slot/module</i> , and <i>XXX</i> is the role of the route processor (active or standby).
	In the example, this field shows that the node with the ID 0/RP0/CPU0 is in active role.
Partner node (*/*/*) is in <i>XXX</i> role	Current role of the secondary (or partner) route processor, where $(*/*/*)$ is the route processor ID in the <i>rack/slot/module</i> format, and <i>XXX</i> is the role of the route processor (active or standby).
	In the example, this field shows that the node with the ID 0/RP1/CPU0 is in standby role.
Standby node in (*/*/*) is ready	Current state of the standby node, where $(*/*/*)$ is the standby route processor ID.
	In the example, the standby node is ready.
Standby node in (*/*/*) is NSR-ready	Current state of the standby node regarding nonstop routing (NSR), where $(*/*/*)$ is the standby route processor ID.
	In the example, the standby node is NSR-ready.
Reload and boot info	General overview of the active and standby route processors' reload and boot history.

Table 8: show redundancy Field Descriptions

show version

To display the software version, build information, system hardware type and uptime, use the **show version** command in XR EXEC mode.

show version

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes XR EXEC mode

Command History	Release	Modification
	Release 7.0.12	This command was introduced.

Usage Guidelines The **show version** command displays a variety of system information, including hardware and software version, router uptime, and active software.

Task ID Task ID Operations

basic-services read

This example shows partial output from the show version command:

```
Router#show version
Cisco IOS XR Software, Version 7.8.2 LNT
Copyright (c) 2013-2023 by Cisco Systems, Inc.
Build Information:
Built By : ingunawa
Built On
            : Wed Mar 15 16:45:19 UTC 2023
Build Host : iox-ucs-060
Workspace
             : /auto/srcarchive13/prod/7.8.2/8000/ws
             : 7.8.2
Version
Label
             : 7.8.2
cisco 8000 (Intel(R) Xeon(R) CPU D-1530 @ 2.40GHz)
cisco 8812 (Intel(R) Xeon(R) CPU D-1530 @ 2.40GHz) processor with 32GB of memory
R1 uptime is 7 hours, 19 minutes
Cisco 8812 12-slot Chassis
```

show media

I

	To display the current state of the disk storage media, use the show media command in XR EXEC mode.						
	show media location { no	ode-id all }					
Syntax Description	location { <i>node-id</i> all } (Optional) Specifies the node where the file system is located. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation. Use the all keyword to indicate all nodes.						
Command Default	The disk storage media for the ac	tive RP is displaye	d.				
Command Modes	XR EXEC mode						
Command History	Release				Modification		
	Release 7.0.12				This command was introduced.		
Usage Guidelines	Use the show media command to	o view the status of	the storag	e media or	n your system	L.	
Task ID	Task ID Operations						
	filesystem read						
	This example shows output from the show media command: Router#show media location 0/RP0/CPU0 Tue Mar 7 15:00:14.506 UTC						
	Media Info for Location: noc Partition	de0_RP0_CPU0 Size	Used	Percent	Avail		
	-ootfs: data: /var/lib/docker disk0: log:	56.9G 80.8G 6.9G 4.0G 5.5G	8.8G 1.4G 17M 8.4M 64M		48.2G 79.4G 6.5G 3.8G 5.2G		

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