

# **Action Commands**

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### clear configuration inconsistency

To clear an inconsistency alarm for a router configuration or admin plane configuration, use the **clear configuration inconsistency** command in Admin EXEC mode or EXEC mode.

clear configuration inconsistency

**Syntax Description** This command has no keywords or arguments.

**Command Default** Administration EXEC mode: Clears the inconsistency alarms for the admin plane configuration.

EXEC mode: Clears the inconsistency alarms for an SDR configuration.

Command Modes Admin EXEC mode

EXEC mode

Command History	Release	Modification
	Release 3.7.2	This command was introduced.

### Usage Guidelines

To use this command, 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 a command, contact your AAA administrator for assistance.

An inconsistency alarm is set when there is a failure to restore the configuration; this can occur during router startup, or when a line card or route switch processor (RSP) card is inserted or removed.

If an inconsistency alarm is set, a message similar to the following example is displayed:

RP/0/0/CPU0:May 26 11:58:40.662 : cfgmgr-rp[130]: %MGBL-CONFIGCLI-3 BATCH\_CONFIG\_FAIL : 28 config(s) failed during startup. To view failed config(s) use the command - "show configuration failed startup"

RP/0/0/CPU0:May 26 11:58:41.731 : cfgmgr-rp[130]: %MGBL-CONFIG-3-ADMIN\_INCONSISTENCY\_ALARM : Admin plane configuration inconsistency alarm has been raised. Configuration commits will be blocked until an ADMIN plane 'clear configuration inconsistency' command has been run to synchronize persisted admin plane configuration with running admin configuration.

When the inconsistency alarm is set, all configuration commit operations fail until the alarm is cleared using the **clear configuration inconsistency** command. This command clears the alarm and removes the failed configuration.

For example, the following configuration commit fails to finish due to an existing inconsistency alarm:

RP/0/RSP0/CPU0:router# configure

ADMIN plane running configuration is inconsistent with persistent configuration. No configuration commits will be allowed until an admin plane 'clear configuration inconsistency' command is performed. RP/0/RSP0/CPU0:router(config)# hostname router2 RP/0/RSP0/CPU0:router(config)#commit

	ADMIN plane running configuration is inconsistent with persistent				
	No configuration commits will be allowed until an admin plane 'clear configuration inconsistency' command is performed.				
	Enter the <b>clear configuration inconsistency</b> command to clear the alarm and allow commit operations to continue.				
	<b>Note</b> To reapply the failed configuration, you must reapply and recommit the configuration. Use the <b>load configuration failed</b> command with the <b>startup</b> keyword to populate the target configuration with the contents of the previous failed configuration from the startup configuration.				
	Use the <b>show configuration history</b> command with the <b>alarm</b> keyword to view the inconsistency alarm set and alarm clear events in the configuration history log.				
Command Modes	To clear the inconsistency alarms for the admin plane configuration, enter the <b>clear configuration inconsistency</b> command in administration EXEC mode.				
	To clear the inconsistency alarms for the router, enter the <b>clear configuration inconsistency</b> command in EXEC mode.				
Task ID	Task ID Operations				
	config-services execute				
	The following example shows how to clear the inconsistency alarms for the admin plane configuration by entering the <b>clear configuration inconsistency</b> command in administration EXEC mode:				
	RP/0/RSP0/CPU0:router(admin)# clear configuration inconsistency				
	Creating any missing directories in Configuration File systemOK Initializing Configuration Version ManagerOK Syncing ADMIN commit database with running configurationOK Re-initializing cache filesOK Updating Commit Database. Please wait[OK]				
	The following example shows how to clear the inconsistency alarms for a router configuration. The command is entered in EXEC mode.				
	<pre>RP/0/RSP0/CPU0:router# clear configuration inconsistency</pre>				
	Creating any missing directories in Configuration File systemOK Initializing Configuration Version ManagerOK Syncing commit database with running configurationOK Re-initializing cache filesOK Updating Commit Database. Please wait[OK]				
	In the following example, a history of the inconsistency alarms set and cleared for the router configuration are displayed using the <b>show configuration history</b> command with the <b>alarm</b> keyword:				

Action Commands

### RP/0/RSP0/CPU0:router# show configuration history alarm

Sno.	Event	Info			Time	e Sta	amp		
~~~~	~~~~	~~~~			~~~~	~~~~~	~~~		
1	alarm	inconsistency	alarm	raised	Thu	Jun	22	15:23:15	2009
2	alarm	inconsistency	alarm	cleared	Thu	Jun	22	15:42:30	2009
3	alarm	inconsistency	alarm	raised	Sun	Jul	9	13:39:57	2009
4	alarm	inconsistency	alarm	cleared	Sun	Jul	9	14:15:48	2009
5	alarm	inconsistency	alarm	raised	Sat	Jul	15	18:18:26	2009
6	alarm	inconsistency	alarm	cleared	Sat	Jul	15	19:21:03	2009

## hw-module location

To configure various hardware attributes for a specific node, or for all nodes installed in the router, use the **hw-module location** command in System Admin EXEC mode.

To recover the RP (route processor) and SC (shelf controller) card or all the nodes in a system, use the **hw-module location** command in Sysadmin EXEC mode.

To reset or shutdown a specific node, or to put a node into maintenance mode, use the **hw-module location** command in the mode.

**hw-module location** *location/all***] bootmedia** [*recovery-partition*/*usb*/*network*] **reloadofflineonlinereload** [force]shutdown [force]

Syntax Description	node-id/all	Node whose hardware attributes you want to configure. The <i>node-id</i> is expressed in the <i>rack/slot/module</i> notation in the mode.
		To confgure all nodes, use <i>all</i> .
		NoteEnter the showplatform commandto see the location ofall nodes installed inthe router.
	bootmedia	Select a boot media to load images.
	offline	Changes the state of the hardware module to offline to perform diagnostics. When card is set to offline, it is taken out of the network. However, the card is powered on and maintains connectivity so that it can be accessed for diagnostics.
	online	Changes the state of the hardware module to online for normal operation of the device.
	reload	Reloads the hardware module.
	shutdown	shut down the hardware module.
Command Default	None	
Command Modes	System Admin EXEC	

Command History	Release Modification
	Release 6.0 This command was introduced.
Usage Guidelines	The <b>hw-module location</b> <i>locationall</i> <b>bootmedia</b> is used to reimage a node or all nodes
	If the <b>bootmedia network</b> command specifies a single location, the node will get reloaded and reimaged with an image downloaded from the master RP.
-	

Note

The **bootmedia network** option is applicable to RP and LC nodes. It is not applicable to FC and SC nodes.

The master RP can be determined by looking at the **show controller card-mgr inventory summary** command output in mode:

```
sysadmin-vm:0_RP0# show controller card-mgr inventory summary
Fri Feb 26 03:24:22.205 UTC-08:00
Card Manager Inventory Summary :
                                       BP
                                                                ΗW
Location Card Type
                                       ID Serial Number Ver Card State
_____

        NC55-24x100G-SE
        1
        SAL1934MNEX
        0.103
        CARD_READY

        NC55-6X100GE-PROT
        4
        SAL1915D4D9
        0.110
        CARD_READY

        NC55-5508-FC
        22
        SAL1923GDG2
        0.305
        CARD_READY

        NC55-5508-FC
        24
        SAL1902GUEUE
        0.305
        CARD_READY

0/0
0/3
0/FC1
0/FC3
        NC55-5508-FC
                                      24 SAL1926HZYB 0.106 CARD READY
        NC55-5508-FC
                                      26 SAL1911B7WJ 0.303 CARD READY
0/FC5
        NC55-RP (Master)
NC55-RP (Slave)
                                      27 SAL1925HFTH 1.1 CARD_READY
0/RP0
                                       28 SAL1924GUZC
                                                                1.1
                                                                         CARD READY
0/RP1
0/SCO
           NC55-SC (Slave)
                                        29 SAL190389WF
                                                                1.4
                                                                          CARD READY
                                                              1.4
           NC55-SC (Master)
                                      30 SAL1923G36G
0/sc1
                                                                          CARD READY
```

If **bootmedia network** specifies the master RP location, the master RP will reboot and get reimaged with an image downloaded from an external PXE server via the master RP's management ethernet interface.

If **bootmedia network** command specifies *all* locations, the master RP will reboot and get reimaged with an image downloaded from an external PXE server via the master RP's management ethernet interface. After the master RP is reimaged, all other cards will get reloaded and reimaged with an image downloaded from the master RP.

The **bootmedia usb** option is only available for RP0 and RP1. When this option is selected, the RP will reload and be reimaged using the image stored on the RP's usb device.

```
sysadmin-vm:0 RP0# hw-module location 0/RP1 ?
Possible completions:
 bootmedia Select boot media to load image from
             Take a hardware module offline for diagnostics
  offline
  online
             Take a hardware module online for normal operation
            Reload a hardware module
 reload
           Shut down a hardware module
 shutdown
sysadmin-vm:0 RPO# hw-module location 0/3 bootmedia ?
Possible completions:
 network
sysadmin-vm:0_RP0# hw-module location 0/RP1 bootmedia ?
Possible completions:
 network usb
```

## install add

To copy the contents of a package installation envelope (PIE) file to a storage device, use the **install add** command in EXEC or Admin EXEC mode EXEC mode.

Administration EXEC Mode:

install add [{source *source-path* | tar}] *file* [activate [pause sw-change] [auto-abort-timer *time*] [location *node-id*]] [{asynchronous | synchronous}] [parallel-reload] [prompt-level {default | none}] [if-active] [sdr *sdr-name*]

EXEC Mode:

install add [{source *source-path* | tar}] *file* [activate [pause sw-change] [auto-abort-timer *time*] [location *node-id*]] [{asynchronous | synchronous}] [parallel-reload] [prompt-level {default | none}]

Syntax Description	source source-path	(Optional) Specifies the source location of the PIE files to be appended to the PIE filenames. Location options are as follows:				
		• disk0:				
		• disk1:				
		• compactflash:				
		<ul> <li>harddisk:</li> <li>ftp://username : password@hostname or ip-address / directory-path</li> </ul>				
		<ul> <li>rcp://username@hostname or ip-address/directory-path</li> <li>tftp://hostname or ip-address/directory-path</li> </ul>				
	tar	(Optional) Indicates that the PIE file is contained in a tar file.				
	file	Name and location of the PIE file (composite package) to install. If a source path location is specified using the <b>source</b> keyword, the <i>file</i> argument can be either a fully specified PIE file path, or a path to the PIE file relative to the source path.				
		<b>Note</b> Up to 32 PIE files can be added to a device in a single <b>install add</b> operation.				
		If the <b>tar</b> keyword is used, the <i>file</i> argument is a tar file that contains one or more PIE files, or directories containing PIE files. Up to 16 tar files can be added, out of the possible 32 install files.				
	activate	(Optional) Activates the package or packages. This option is run only if the <b>install add</b> operation is successful.				

pause sw-change	(Optional) Pauses the operation before locking the configuration for the software activation. While the operation is paused, you can perform configuration changes. You control the resumption of the operation at the CLI prompt.		
auto-abort-timer time	(Optional) Specifies an abort timer value, <i>time</i> , in minutes, which when expired loads the last committed loadpath.		
location node-id	(Optional) Activates a package on the designated node. The <i>node-id</i> argument is expressed in <i>rack/slot/module</i> notation.		
	Note A package cannot be activated on a single node unless some version of the package being activated is already active on all nodes. For example, a Multiprotocol Label Switching (MPLS) package cannot be active on only one node. If a version of the MPLS package is already active on all nodes, an MPLS package then could be upgraded or downgraded on a single node.		
asynchronous	(Optional) Performs the command in asynchronous mode. In asynchronous mode, this command runs in the background, and the EXEC prompt is returned as soon as possible. This is the default mode.		
synchronous	(Optional) Performs the command in synchronous mode. This mode allows the installation process to finish before the prompt is returned.		
parallel-reload	(Optional) Forces all cards on the router to reload at the same time and then come up with the new software, rather than proceeding according to the option encoded in the install package.		
prompt-level {default   none}	(Optional) Specifies when you are prompted for input during the procedure.		
	• <b>default</b> —You are prompted only when input is required by the operation.		
	• none—You are never prompted.		
if-active	(Optional. Administration EXEC mode only.) Activates the optional packages only if a version is already active.		
sdr sdr-name	(Optional. Administration EXEC mode only.) Activates a package for a specific secure domain router (SDR). The <i>sdr-name</i> argument is the name assigned to the SDR. The only SDR available is Owner, which refers to the entire router.		

### **Command Default**

Packages are added to the storage device, but are not activated.

The operation is performed in asynchronous mode. The **install add** command runs in the background, and the EXEC prompt is returned as soon as possible.

Command Modes	EXEC					
	EXEC mode					
	Admin EXEC mode					
Command History	Release	Modification				
	Release 3.7.2	This command was introduced.				
	Release 4.0.0	This command was removed from EXEC mode.				
		The <b>sdr</b> keyword was removed.				
Usage Guidelines	Use the <b>install add</b> comm device (usually disk0:).	nand to unpack the package software files from a PIE file and copy them to the boot				
	• From administration EXEC mode, the package software files are added to all route processors (RPs) installed in the router. If the <b>install add</b> command is entered without specifying an SDR, then the package files are added to all RPs in the owner SDR.					
	• From EXEC mode, the package software files are added to the RPs only for the SDR to which you are logged in.					
	Adding and Activating a Package					
	Software packages remain inactive until activated with the install activate command.					
	To add and activate a package at the same time, use the <b>install add</b> command with the <b>activate</b> keyword. When this command is used, the keywords and rules for package activation apply.					
	• To add and activate a package for the owner SDR, enter the <b>install add</b> command with the <b>activate</b> keyword from administration EXEC mode.					
	• It is also possible to add and activate a package using the <b>install add</b> command with the <b>activate</b> keyword from EXEC mode.					
	Note SDR-specific activa Software Maintenan activated for all SD the Managing Cisco Cisco ASR 9000 Set	tion is supported for specific packages and upgrades, such as optional packages and nee Upgrades (SMUs). Packages that do not support SDR-specific activation can be Rs simultaneously only from administration EXEC mode. For detailed instructions, see <i>OIOS XR Software Packages</i> module of <i>System Management Configuration Guide for</i> <i>ries Routers</i> .				
-	<b>Note</b> If a software activat	tion requires a node reload, the config-register for that node should be set to autoboot. If				

the node reloads. A message describing the change is displayed.

the config-register for the node is not set to autoboot, then the system automatically changes the setting and

#### Synchronous Mode

Use the **install add** command with the **synchronous** keyword to complete the operation before the prompt is returned. A progress bar indicates the status of the operation. For example:

```
- 1% complete: The operation can still be aborted (ctrl-c for options) \setminus 10% complete: The operation can still be aborted (ctrl-c for options)
```

#### **TFTP Services and Image Size**

Some Cisco IOS XR images may be larger than 32 MB, and the TFTP services provided by some vendors may not support a file this large. If you do not have access to a TFTP server that supports files larger than 32 MB:

- · Download the software image using FTP or rcp.
- Use a third-party or freeware TFTP server that supports file sizes larger than 32 MB.

#### **Adding tar Files**

Use the **tar** keyword to add one or more PIE files in the tar file format. If the **tar** keyword is used, only a single tar file can be added.



Note Multiple tar files or a combination of PIE and tar files is not supported.

Note the following regarding tar files:

- The *file* argument must include the complete location of the tar file.
- The tar file can contain only PIE files and directories containing PIE files. For example:
  - The tar file pies.tar containing the files x.tar and y.pie fails because x.tar is not a PIE file.
  - The tar file pies.tar containing the file x.pie and the directory dir\_a, where dir\_a contains a PIE file y.pie succeeds.
  - The tar file pies.tar containing the file x.pie and the directory dir\_a, where dir\_a contains a tar file y.tar fails because y.tar is not a PIE file.
  - The tar file pies.tar containing the PIE files x.pie, y.pie, ...\*.pie succeeds.
- The **source** keyword is not supported with the **tar** keyword.

Following is a valid example of using the **tar** keyword:

```
RP/0/RSP0/CPU0:router(admin)# install add tar
tftp://223.255.254.254/install/files/pies.tar
```

You can add and activate tar files at the same time. In other words, the **install add** command is supported using the **tar** and the **activate** keywords simultaneously.

#### **Adding Multiple Packages**

To add multiple PIE files, use the **source** keyword to specify the directory path location of the PIE files. Then list all the PIE filenames, as necessary. This alleviates the need to repeat the directory location for each PIE file. Up to 32 files can be added, of which 16 can be tar files.

Following is an example of the install add command using the source keyword:

```
RP/0/0/CPU0:router(admin)# install add source
tftp://192.168.201.1/images/myimages/comp-asr9k-mini.pie
asr9k-mgbl-p.pie asr9k-mpls-p.pie
asr9k-mcast-p.pie
```

The following example also illustrates a valid use of the **install add** command with the **source** keyword:

```
RP/0/RSP0/CPU0:router(admin)# install add source
tftp://192.168.254.254/images/user/asr9k-mcast-p.pie
pies/asr9k-mpls-p.pie
ftp://1.2.3.4/other_location/asr9k-mgbl-p.pie
```

In the previous example, three PIE files are added from the following locations:

- tftp://192.168.254.254/images/user/asr9k-mcast-p.pie
- tftp://192.168.254.254/images/user/pies/asr9k-mpls-p.pie
- ftp://1.2.3.4/other\_location/asr9k-mgbl-p.pie

#### **Parallel Reload**

Installation operations are activated according to the method encoded in the package being activated. Generally, this method has the least impact for routing and forwarding purposes, but it may not be the fastest method from start to finish and can require user interaction by default. To perform the installation procedure as quickly as possible, you can specify the **parallel-reload** keyword. This forces the installation to perform a parallel reload, so that all cards on the router reload simultaneously, and then come up with the new software. This impacts routing and forwarding, but it ensures that the installation is performed without other issues.

#### **Pausing Activation Before Configuration Lock**

If you specify the **activate** keyword, use the **pause sw-change** keywords to pause the software activation operation before locking the configuration. A software activation operation begins with preparatory steps, such as software checks, and then proceeds with the actual activation of the new software. The configuration is locked for the activation. If you specify the **pause sw-change** keywords, the operation pauses before locking the configuration and provides you with the option to hold the operation while you perform configuration changes, and proceed with the activation whenever you choose. This is useful, for example, if your workflow involves configuring a router out of the network during software installation and you want to minimize the time that the router is out of the network. You can specify these keywords for both asynchronous and synchronous operations. In both cases, follow the onscreen instructions to control the pausing and completion of the operation.

The following example shows how to add a PIE file for all SDRs in the system. In the following example, a Multiprotocol Label Switching (MPLS) package is added in synchronous mode. This operation copies the files required for the package to the storage device. This package remains inactive until it is activated with the **install activate** command.

```
RP/0/RSP0/CPU0:router# admin
```

```
RP/0/RSP0/CPU0:router(admin)# install add
tftp://209.165.201.1/asr9k-mpls.pie synchronous
Install operation 4 'install add /tftp://209.165.201.1/asr9k-mpls.pie synchronous'
started by user
'user_b' at 03:17:05 UTC Mon Nov 14 2005.
Info: The following package is now available to be activated:
Info:
Info: disk0:asr9k-mpls-3.3.80
Info:
Install operation 4 completed successfully at 03:18:30 UTC Mon Nov 14 2005.
```

In the following example, a package is added and activated with a single command:

```
RP/0/RSP0/CPU0:router# admin
RP/0/RSP0/CPU0:router(admin) # install add disk1:asr9k-mgbl-p.pie-3.8.0activate
Install operation 4 'install add /disk1:asr9k-mgbl-p.pie-3.8.0 activate' started
by user 'user b' at 07:58:56 UTC Wed Mar 01 2006.
The install operation will continue asynchronously.
:router(admin) #Part 1 of 2 (add software): Started
         The following package is now available to be activated:
Info:
Info:
              disk0:asr9k-mgbl-3.8.0
Info:
Info:
Part 1 of 2 (add software): Completed successfully
Part 2 of 2 (activate software): Started
          The changes made to software configurations will not be persistent across
Info:
system reloads. Use the command 'admin install
          commit' to make changes persistent.
Info:
Info:
         Please verify that the system is consistent following the software change
using the following commands:
              show system verify
Info:
              install verify
Info:
Part 2 of 2 (activate software): Completed successfully
Part 1 of 2 (add software): Completed successfully
Part 2 of 2 (activate software): Completed successfully
Install operation 4 completed successfully at 08:00:24 UTC Wed Mar 01 2006.
```

## install activate (IOS XR 64 bit)

To enable the package configurations to be made active on the router so new features and software fixes take effect, use the **install activate** command in EXEC mode or Admin EXEC mode.

**install activate** *package\_name* **install activate id** *operation\_id* 

Syntax Description	package_name	Enter the package names separated by space.			
		Note Up to 16 packages can be specified in a single <b>install activate</b> command at a time. Multiple packages can be specified using the wildcard syntax, for example, asr9k-*-x64-*3I.			
	id operation_id	The <i>operation_id</i> is the ID from the <b>install add</b> operation.			
		The <b>show install request</b> command displays the operation id number of the <b>install add</b> operation and its status. You can also find the <i>operation_id</i> in the <b>show install log</b> command output.			
Command Default	The <b>install activate</b> command activates all packages that were added in the specified <b>install add</b> operation and the operation is performed in an asynchronous mode. The command runs in the background and the EXEC prompt is returned soon after.				
	If you use the operation ID (from the add operation) to activate packages, all packages that were added in the specified install add operation are activated together. You do not have to activate the packages individually.				
	For example, if five package <b>install activate id</b> 6 comma	es are added in operation 6, all the five packages are activated together by executing and.			
	Note • Activation takes s	some time and does not happen instantaneously.			
	<ul> <li>Activation of som warning message the reload is comp</li> </ul>	ne SMUs require a manual reloading of the router. When such SMUs are activated, a is displayed to perform reload. The components of the SMU get activated only after plete.			
Command Modes	EXEC mode				
	Admin EXEC mode				
Command History	Release	Modification			
	Release 6.1.2	Support for IOS XR 64 bit install activate command was added.			

#### **Usage Guidelines**

- Only inactive packages can be activated. Use the show install inactive command to identify the inactive packages that are present in the repository.
- If you want to activate packages using the **install activate id** *operation\_id* command syntax, use the **show install log** command to identify the operation ID of the add operation.

The following example lets you activate packages by specifying the package names:

```
RP/0/RSP0/CPU0:router# install activate asr9k-m2m-x64-2.0.0.0-r61106I.x86_64
asr9k-optic-x64-1.0.0.0-r61106I.x86_64
```

```
Jun 22 14:09:25 Package list:
Jun 22 14:09:25 asr9k-m2m-x64-2.0.0.0-r61106I.x86_64
Jun 22 14:09:25 asr9k-optic-x64-1.0.0.0-r61106I.x86_64
Jun 22 14:09:35 Install operation will continue in the background
RP/0/RSP0/CPU0:router#
```

The following example lets you activate packages by specifying the id from the add operation:

```
RP/0/RSP0/CPU0:router# install activate id 6
Jun 22 15:02:24 Package list:
Jun 22 15:02:24 asr9k-bgp-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-isis-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-k9sec-x64-1.1.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-li-x64-1.1.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-parser-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-m2m-x64-2.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-mgbl-x64-2.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-optic-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-mcast-x64-1.1.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-mpls-te-rsvp-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-eigrp-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-ospf-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:24 asr9k-mpls-x64-2.0.0.0-r61106I.x86 64
Jun 22 15:02:25 Skipped packages which were already active:
Jun 22 15:02:25 asr9k-bgp-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:25 asr9k-m2m-x64-2.0.0.0-r61106I.x86 64
Jun 22 15:02:25 asr9k-optic-x64-1.0.0.0-r61106I.x86 64
Jun 22 15:02:33 Install operation will continue in the background
```

RP/0/RSP0/CPU0:router#

The following example lets you activate multiple packages using the wildcard syntax:

RP/0/RSP0/CPU0:router#install activate asr9k-\*-x64-\*3I

```
Jun 16 19:35:06 Install operation 105 started by root:
install activate pkg asr9k-*-x64-*3I
Jun 16 19:35:06 Package list:
Jun 16 19:35:06 asr9k-eigrp-x64-1.0.0.0-r61103I.x86_64
Jun 16 19:35:06 asr9k-ospf-x64-1.0.0.0-r61103I.x86_64
Jun 16 19:35:06 asr9k-m2m-x64-2.0.0.0-r61103I.x86_64
Jun 16 19:35:06 asr9k-k9sec-x64-1.1.0.0-r61103I.x86_64
```

Jun 16 19:35:06 asr9k-mpls-x64-1.1.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-bgp-x64-1.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-isis-x64-1.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-mini-x64-6.1.1.03I Jun 16 19:35:06 asr9k-mgbl-x64-2.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-parser-x64-1.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-optic-x64-1.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-mcast-x64-1.1.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-mpls-te-rsvp-x64-1.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-mpls-te-rsvp-x64-1.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-mpls-te-rsvp-x64-1.0.0.0-r61103I.x86\_64 Jun 16 19:35:06 asr9k-li-x64-1.0.0.0-r61103I.x86\_64 Jun 22 15:02:33 Install operation will continue in the background

RP/0/RSP0/CPU0:router#

# install deactivate (IOS XR 64 bit)

To remove a package from the active software set, use the **install deactivate** command in EXEC mode or Admin EXEC mode.

install deactivate package\_name
install deactivate id operation\_id

Syntax Description	package_name		Enter the package names separated by space.
			Note Up to 16 packages can be specified in a single <b>install deactivate</b> command at a time. Multiple packages can be specified using the wildcard syntax, for example, asr9k-*-x64-*3I.
	id	operation_id	The <i>operation_id</i> is the ID from the <b>install add</b> operation.
		The <b>show install request</b> command displays the operation id number of the <b>install add</b> operation and its status. You can also find the <i>operation_id</i> in the <b>show install log</b> command output.	
Command Default	The act	e <b>install deactivate</b> con ivated packages. This o ckground.	nmand deactivates all features and software patches associated with the specified peration is performed in an asynchronous mode and the command runs in the
	If you use the operation ID (from the add operation) to deactivate packages, all packages that wer the specified <b>install add</b> operation are deactivated together. You do not have to deactivate the pac individually. For example, if five packages are added in operation 6, all the five packages are deactivated toget		
-	Note	The System admin part operation) will also be	ckages that were added as a part of the <b>install add</b> operation (of the ID used in deactivate e deactivated.
Command Modes	EX Ad	EC mode min EXEC mode	
Command History	Release		Modification
	Release 6.1.2		Support for IOS XR 64 bit <b>install deactivate</b> command was added.
Usage Guidelines		• Only active packages packages.	can be deactivated. Use the show install active command to identify the active

- If you want to deactivate packages using the **install deactivate id** *operation\_id* command syntax, use the **show install log** command to identify the operation ID of the add operation.
- If you want to remove the inactive packages from the repository, use the **show install inactive** command to identify the deactivated packages that are now listed as inactive packages.

Then, use the **install remove** command to remove the packages from the repository.

The following example lets you deactivate packages by specifying the package names:

```
RP/0/RSP0/CPU0:router# install deactivate asr9k-m2m-x64-2.0.0.0-r611061.x86_64
asr9k-optic-x64-1.0.0.0-r611061.x86_64
```

```
Jun 22 14:09:25 Package list:
Jun 22 14:09:25 asr9k-m2m-x64-2.0.0.0-r61106I.x86_64
Jun 22 14:09:25 asr9k-optic-x64-1.0.0.0-r61106I.x86_64
Jun 22 14:09:35 Install operation will continue in the background
```

```
RP/0/RSP0/CPU0:router#
```

The following example lets you deactivate packages by specifying the id from the add operation:

```
RP/0/RSP0/CPU0:router# install deactivate id 6
```

```
Jun 22 15:02:24 Package list:
Jun 22 15:02:24 asr9k-bgp-x64-1.0.0.0-r61106I.x86_64
Jun 22 15:02:24 asr9k-isis-x64-1.0.0.0-r61106I.x86_64
Jun 22 15:02:24 asr9k-k9sec-x64-1.1.0.0-r61106I.x86_64
Jun 22 15:02:24 asr9k-li-x64-1.1.0.0-r61106I.x86_64
Jun 22 15:02:33 Install operation will continue in the background
```

```
RP/0/RSP0/CPU0:router#
```

The following example lets you deactivate multiple packages using the wildcard syntax:

```
RP/0/RSP0/CPU0:router# install deactivate *-r611031
```

```
Jun 16 19:35:06 Install operation 108 started by root:
install deactivate pkg asr9k-mpls-x64-1.1.0.0-r61103I asr9k-mpls-te-rsvp-x64-1.0.0.0-r61103I
```

```
asr9k-mcast-x64-1.1.0.0-r61103I
Jun 16 19:35:06 Package list:
Jun 16 19:35:06 asr9k-mpls-x64-1.1.0.0-r61103I
Jun 16 19:35:06 asr9k-mpls-te-rsvp-x64-1.0.0.0-r61103I
Jun 16 19:35:06 asr9k-mcast-x64-1.1.0.0-r61103I
Jun 16 19:35:06 Install operation will continue in the background
```

RP/0/RSP0/CPU0:router#

# install commit

	To save the active software set to be persistent across designated system controller (DSC) reloads, use the <b>install commit</b> command in EXEC or Admin EXEC mode EXEC mode.					
	Administration E. install commit EXEC mode Mod install commit	XEC Mode: [{ <b>location</b> <i>node-id</i>   <b>sdr</b> <i>sdr-name</i> }]  e				
Syntax Description	location node-id	(Optional. Admin EXEC mode mode only.)Specifies a node. The <i>node-id</i> argument is expressed in <i>rack/slot/module</i> notation.				
	sdr sdr-name	(Optional. Admin EXEC mode only.) Commits the active software set for a specific SDR. The <i>sdr-name</i> argument is the name assigned to the SDR. The only SDR available is Owner, which refers to the entire router.				
Command Default	Admin EXEC mo	de: Commits the active software set for all SDRs.				
	EXEC mode: Cor	nmits the active software set for the current SDR.				
Command Modes	EXEC					
	Admin EXEC mode					
	EXEC mode					
Command History	Release	Modification				
	Release 3.7.2	This command was introduced.				
	Release 4.0.0	This command was removed from EXEC mode.				
		Support for the <b>sdr</b> keyword was removed.				
Usage Guidelines	When a package i activation persiste <b>install commit</b> co	s activated, it becomes part of the current running configuration. To make the package ent across designated secure domain router shelf controller (DSDRSC) reloads, enter the ommand. On startup, the DSDRSC of the SDR loads this committed software set.				
	If the system is re previously comm	started before the active software set is saved with the <b>install commit</b> command, the itted software set is used.				
Command Modes	To commit the act EXEC or EXEC r	we software set for the owner SDR, use the <b>install commit</b> command in either administration node.				
Task ID	Task ID Opera	lions				
	pkg-mgmt read, write					

The following example shows how to make the current active software set persistent across DSDRSC reloads for all SDRs in the system:

RP/0/RSP0/CPU0:router# admin
RP/0/RSP0/CPU0:router(admin)# install commit
Install operation 16 'install commit' started by user 'user\_b' at 19:18:58 UTC
Sat Apr 08 2006.

Install operation 16 completed successfully at 19:19:01 UTC Sat Apr 08 2006.

Action Commands

## install upgrade source

To upgrade the software package, use the **install upgrade source** command in administration EXEC mode.

**install upgrade source** [{**ftp** | **tftp***system-disk*}] [**path** *directory-path*] [{*file-name* | **version** *version-number* | **packages**}] [*source-file*] [**synchronous**] [**pause-reload**]

Syntax Description	source	Specify the source location of the PIE files to be appended to the PIE filenames. Location options are as follows:			
		<pre>ftp: —Copies from an FTP network server. The syntax is ftp:[[[//username [:password]@] location]/directory]/filename. tftp: —Copies from a TFTP network server. The syntax is tftp:[[//location]/directory]/filename</pre>			
		system dist options are	<i>k</i> —Copies package source from system disk. Location e as follows:		
		• <b>harddisk:</b> —Copies from the hard disk drive file system (if present).			
		• disk1	: —Copies from disk1: file system.		
	path directory-path	Specify the storage device and directory for the file search. Th search is performed for the specified directory and all subdirector in that directory tree.			
		The syntax for directory-path is: device :[/ directory-path]			
		If a directory path is not specified, then the search is performed in the current directory (a path of . [dot] is assumed).			
	file-name	Only for TFTP, with file that contains a list of packages to installed			
		Note	Directory listing is not possible		
	version version-number	Specify the	e package version that is to be installed		
	packages	Specify the	e package names to install (packages can be <i>tar</i> file)		
	source-file	Specify the source location of the PIE files on the system			
	synchronous	(Optional) Performs the command in synchronous mode. This allows the installation process to be completed before the pro returned.			
		Note	By default, installation operations are performed in asynchronous mode. In asynchronous mode, the command will run without expecting any user inputs while holding the prompt.		

pause-reload	(Optiona configur precedes	al) Pauses the operation before any reload occurs. The ration remains locked for the activation. This keyword is the following two keywords:	
	• pau lock ope pro	<b>ise-reload allow-sw-change</b> —The operation pauses before king the configuration and provides the option to hold the eration while you perform configuration changes. You can ceed with the activation whenever you choose.	
	• <b>pause-reload disallow-sw-change</b> —The operation pauses before reload but this will not allow you to make any configuration changes.		
	Note	These keywords are applicable for asynchronous and synchronous operations. In both cases, follow onscreen instructions to control the pausing and completion of the operation	

Command Default	By default <b>install upgrade source</b> picks active version packages.		
Command Modes	Administration EXEC		
Command History	Release	Modification	
	Release 5.3.2	This command was introduced.	
lleana Guidalinae	FTP		

#### **Usage Guidelines**

Use the following options to upgrade the system using FTP as source:

- Only repository without version—It picks delta packages (ignoring optional packages) of the active version; that is, the difference between packages present in the file specified and packages active on the system.
- Repository with version—It picks packages of the specified version. If a mini package of the specified version is found in the file, it will upgrade the system, provided all dependency and package compatibility checks are completed successfully.
- Packages—Specifies the list of packages to add or upgrade the system. This option can be used to add tar files.

### TFTP

Use the following options to upgrade the system using TFTP as source:

- File-name—This option requires the package list to be provided in a file, which can then be used to upgrade the system or update the packages or SMU's. It picks delta packages (ignoring optional packages) of the active version; that is, the difference between packages present in the file specified and packages active on the system.
- File-name with version-It picks packages of the specified version. If a mini package of the specified version is found in the file, it will upgrade the system, provided all dependency and package compatibility checks are completed successfully.

• Packages—Specifies the list of packages to add or upgrade the system. This option can be used to add *tar* files.

#### harddisk

Use the following options to upgrade the system using harddisk as source:

- Only repository without version—It picks delta packages (ignoring optional packages) of the active version; that is, the difference between packages present in the file specified and packages active on the system.
- Repository with version—It picks packages of the specified version. If a mini package of the specified version is found in the file, it will upgrade the system, provided all dependency and package compatibility checks are completed successfully.
- Packages—Specifies the list of packages to add or upgrade the system. This option can be used to add *tar* files.

#### Task ID Task ID Operation

pkg-mgmt execute

#### Example

This example shows how to upgrade a package to 5.2.4 version with image asr9k-mini-px.pie-5.2.4 from the FTP repository, using the **install upgrade source** command:

```
RP/0/RSP0/CPU0:router#admin
RP/0/RSP0/CPU0:router(admin)#install upgrade source ftp://10.10.10.10/yum_like_upgrade
asr9k-mini-px.pie-5.2.4 synchronous
```

This example shows how to upgrade a package to 5.3.2 version from the on-system repository, using the **install upgrade source** command:

```
RP/0/RSP0/CPU0:router#admin
RP/0/RSP0/CPU0:router(admin)#install upgrade source harddisk:/images/532 version 5.3.2
synchronous
```

This example shows how to upgrade package to release 5.1.0 from the TFTP repository, using the **install upgrade source** command:

```
RP/0/RSP0/CPU0:router#admin
RP/0/RSP0/CPU0:router(admin)# install upgrade source tftp://10.10.10.10/auto/tftpboot/userid
file-name packages.txt version 5.1.0 synchronous
```

This example shows how to add and activate the package or SMU of active version using the **install upgrade source** command:

```
RP/0/RSP0/CPU0:router#admin
RP/0/RSP0/CPU0:router(admin)# install upgrade source tftp://10.10.10.10/packages pkg1,pkg2
```

pkg1 is an optional package and pkg2 is a SMU. Both are active versions, but inactive on the system. The **install upgrade source** command checks whether the package or SMU is already inactive on system. If it is in inactive, the command skips its downloading, and adds as well as activates optional packages or SMUs along with its pre requisites.

### install remove

To delete inactive packages from a storage device, use the **install remove** command in EXEC or mode.

Administration EXEC Mode: install remove {id add-id | device:package | inactive } [sdr sdr-name] [prompt-level {default | none}] [{asynchronous | synchronous}] [test] EXEC Mode: install remove {device:package | inactive} [prompt-level {default | none}] [{asynchronous | synchronous}] [test] Syntax Description id add-id Specifies the ID number of an install add operation. The command deletes all packages that were added in the specified install add operation. The ID number of an **install add** operation is indicated in the syslog displayed during the operation and in the output of the show install log command. Up to 16 install add operations can be specified device : package Device and package, expressed in concatenated form (for example, disk0:asr9k-mgbl-3.8.0). For the device argument, the value is a specified storage device, typically disk0:. Note Multiple packages can be removed at the same time. Up to 32 device : *package* pairs can be specified. inactive Removes all inactive, noncommitted packages from the boot device (usually disk0:). sdr sdr-name (Optional. Administration EXEC mode only) Removes a package for a specific secure domain router (SDR). The *sdr-name* argument is the name assigned to the SDR. **prompt-level** {**default** (Optional) Specifies when you are prompted for input during the procedure. | none} • **default** —You are prompted only when input is required by the operation. • **none**—You are never prompted. asynchronous (Optional) Performs the command in asynchronous mode. In asynchronous mode, this command runs in the background, and the EXEC prompt is returned as soon as possible. This is the default mode. synchronous (Optional) Performs the command in synchronous mode. This mode allows the installation process to finish before the prompt is returned. (Optional) Verifies the effects of proposed operations without making changes to test the Cisco IOS XR software. The operation is performed in asynchronous mode: The **install remove** command runs in the background, **Command Default** and the EXEC prompt is returned as soon as possible. EXEC **Command Modes** 

Command History	Release	Modification		
	Release 3.7.2	This command was introduced.		
	Release 4.0.0	This command was removed from EXEC mode.		
		Support was removed for the sdr keyword.		
Usage Guidelines				
	Note Only inactive packages c	an be removed. (Packages cannot be in the active or committed software set.)		
	• To remove all inactive packages from the boot device (usually <b>disk0</b> :), use the <b>install remove</b> c with the <b>inactive</b> keyword.			
	To remove a specific inac device: package argument	tive package from a storage device, use the <b>install remove</b> command with the nts.		
	Note When removing all inacti show install committed	Note When removing all inactive packages from the boot device, use the <b>show version</b> , <b>show install active</b> , or <b>show install committed</b> command to determine the device used as the boot device.		
	• To remove all packages the keyword and argument. To during the operation and in to operation ID, all the particular to operation ID, all the particular to operation ID.	hat were added in one or more specific <b>install add</b> operations, use the <b>id</b> <i>add-id</i> the operation ID of an <b>install add</b> operation is indicated in the syslog displayed in the output of the <b>show install log</b> command. If you specify packages according to the added by the specified operation must still be on the router.		
Command Modes	• To remove packages from or EXEC mode.	n the Owner SDR, use the install remove command in administration EXEC		
	• To remove all inactive pa command with the <b>inacti</b>	ckages from the boot device in the system or SDR, use the <b>install remove ve</b> keyword.		
	User Prompts			
	Use the <b>install remove</b> command with the <b>prompt-level none</b> keywords to automatically ignore any confirmation prompts and proceed with the package removal. <b>Test Operation</b>			
Use the <b>test</b> keyword to verify the effects of the package removal operation and can be completed. After previewing the effects of the proposed operations, use		he effects of the package removal operation and determine whether the operation wing the effects of the proposed operations, use the <b>show install log</b> command		

for more details about the effects of the proposed operations.

### Note

When removing a package, note that the **install remove** command ignores secure domain router (SDR) boundaries and performs the operation in global scope.

The following example shows how to remove a specific inactive package. In this example, the operation is run in test mode. The operation is then confirmed and the package is removed.

```
RP/0/RSP0/CPU0:router# admin
RP/0/RSP0/CPU0:router(admin)# install remove
disk0:asr9k-diags-3.7.90 test
```

Install operation 30 'install remove disk0:asr9k-diags-3.7.90 test' started by user 'user\_b'
at 23:40:22 UTC Sat Apr 15 2006.
Warning: No changes will occur due to 'test' option being specified. The
Warning: following is the predicted output for this install command.
Info: This operation will remove the following package:
Info: disk0:asr9k-diags-3.7.90
Info: After this install remove the following install rollback points will
Info: no longer be reachable, as the required packages will not be present:
Info: 4, 9, 10, 14, 15, 17, 18
Proceed with removing these packages? [confirm] y

The install operation will continue asynchronously. Install operation 30 completed successfully at 23.

The following example shows how to remove all inactive packages from the boot device:

```
RP/0/RSP0/CPU0:router# admin
RP/0/RSP0/CPU0:router(admin)# install remove inactive synchronous
RP/0/RSP0/CPU0:Aug 15 09:25:41.020 :
    instdir[198]: %INSTALL-INSTMGR-6-INSTALL_OPERATION_STARTED :
Install operation 8 '(admin) install remove inactive' started by user 'user_b'
Install operation 8 '(admin) install remove inactive' started by user 'user_b' at
    09:25:41 UTC Tue Aug 15 2006.
Info: This operation will remove the following package:
Info: disk0:asr9k-compmgmt_installmgr-0.0.5
Proceed with removing these packages? [confirm]
The install operation will continue asynchronously.
```

# install replace

To replace the currently installed software with that in a given ISO and apply the change, use the **install replace** command in EXEC mode.

	-				
	<i>location</i> Specifes the location of the package for installation.				
	<b>commit</b> (Optional) Commits the installed software after replacing.				
	reload	(Optional) Replaces the software through a reload.			
	noprompt	(Optional) Applies the changes without prompting for permission.			
	synchronous	(Optional) Applies the changes synchronously.			
Command Default	None				
Command Modes	EXEC mode				
Command History	Release M	Modification			
	Release T 6.5.2	This command was introduced.			
Usage Guidelines	Include the keyword <b>noprompt</b> in the command to enable the system to bypass your permission to reload the router.				
Task ID	Task ID Ope	erations			
	pkg-mgmt rea wri	d, ite			
	This example s	hows how to replace the current software with the asr9k-x64.iso in	nage.		
	Router# install replace /harddisk:/asr9k-x64.iso				
	This example shows how to replace the current software and commit the changes:				
	Router# install replace /harddisk:/asr9k.iso commit				
	This example shows how to replace the current software and reload:				
	Router# <b>inst</b> a	all replace /harddisk:/asr9k.iso reload			

install replace *location* [commit] [reload] [noprompt] [synchronous]

I

# reload

	reload			
Syntax Description	This command has no keywords or arguments.			
Command Default	No default behavior or values	No default behavior or values		
Command Modes	- EXEC			
Command History	Releases	Modifications		
	Release 3.7.2	This command was introduced.		
Usage Guidelines	To use this command, you must IDs. If the user group assignme for assistance.	t be in a user group associated with a task group that includes appropriate task ent is preventing you from using a command, contact your AAA administrator		
	Use the <b>reload</b> command to cause the RSP to reload the Cisco IOS XR software according to the configuration register setting (for example, 0x0 to enter ROMMON mode and 0x2 to reload the RSP to EXEC mode). If a standby RSP is in the ready redundancy state, the <b>reload</b> command also causes the router to fail over to the standby RSP. Use the <b>show redundancy</b> command in EXEC mode to display the status of the standby RSP.			
	When the <b>reload</b> command is u automatically maintained durin	used and a switchover occurs, the running (active) software configuration is ag switchover.		
Ca	ution If a standby RSP is not ins the active RSP is reloading redundancy command in	talled or is not in the ready state, then the router experiences a loss of service while g Cisco IOS XR software. To view the status of the standby RSP, issue the <b>show</b> a EXEC mode.		
	If you use the <b>reload</b> command and there is no available standby node, you are prompted to continue with the reload:			
	RP/0/RSP0/CPU0:router# reload			
	Standby card not present o	or not Ready for failover. Proceed?[confirm] $oldsymbol{y}$		
Task ID	Task Operations ID			
	root-lr execute			
	The following example shows then the router fails over to the state, then the router enters RO	how to reload the active RSP. If a standby RSP is in the ready state, standby RSP. If the standby RSP is not installed or is not in the ready MMON mode and routing operations stop.		

RP/0/RSP0/CPU0:router# reload

Updating Commit Database. Please wait...[OK] Proceed with reload? [confirm] **y** PCI0 device[7]: Vendor ID 0x10ee PCI0 device[7]: Device ID 0x300e PCI1 device[7]: Device ID 0x1100 PCI1 device[7]: Vendor ID 0x1013 PCI1 device[8]: Device ID 0x649 PCI1 device[8]: Vendor ID 0x1095 PCI1 device[9]: Device ID 0x5618 PCI1 device[9]: Vendor ID 0x14e4 PCI1 device[10]: Device ID 0x5618 PCI1 device[10]: Vendor ID 0x14e4 System Bootstrap, Version 1.15(20040120:002852) , Copyright (c) 1994-2004 by cisco Systems, Inc. Board type is 0x100000 (1048576) Enabling watchdog Broadcom 5618 #0 Found on PCI Broadcom 5618 #1 Found on PCI No. of BCM 56xx switches found 2 . BCM Switch #0 initialisation complete. BCM Switch #1 initialisation complete G4(7450-SMP-GT64260 A) platform with 2048 Mb of main memory

rommon B1 >

# ztp enable

Manual Zero Touch Provisioning (ZTP) invocation using CLI commands allows ZTP to run over more interfaces.

To enable Zero Touch Provisioning (ZTP) at boot, use the ztp enable command in EXEC mode.

	ztp enable			
Command Default	No default	No default behavior or values		
Command Modes	EXEC mode			
Command History	Release	Modification		
	Release 7.0.1	This command was introduced.		
Usage Guidelines	By default, ZTP is enabled. When you execute the <b>ztp enable</b> command the start value in the <i>ztp.ini</i> file set to <i>True</i> .			
	The following example shows the sample of the <i>ztp.ini</i> file:			
	[Startup] <b>start: True</b> retry_forever: True			
	[Fetcher ] Mgmt4: 0 Mgmt6: 1 DPort4: 2 DPort6: 3	Priority]		
		11		

This example shows how to enable ztp at boot:

Router**#ztp enable** Fri Jul 12 16:09:02.154 UTC Enable ZTP? [confirm] [y/n] :y ZTP Enabled. L

### ztp disable

Manual Zero Touch Provisioning (ZTP) invocation using CLI commands allows ZTP to run over more interfaces.

To disable Zero Touch Provisioning (ZTP) at boot, use the ztp disable command in EXEC mode.

#### ztp disable

**Command Default** No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 7.0.1	This command was introduced.

### Usage Guidelines

Use **ztp disable** command to disable ZTP. When you execute the **ztp disable** command, the start value in the ztp.ini file is set to *False*.

The following example shows the sample of the *ztp.ini* file:

[Startup]
start: False
retry\_forever: True
[Fetcher Priority]
Mgmt4: 0

Mgmt6: 1 DPort4: 2 DPort6: 3

This example shows how to disable ztp at boot:

```
Router#ztp disable
Fri Jul 12 16:07:18.491 UTC
Disable ZTP? [confirm] [y/n] :y
ZTP Disabled.
Run ZTP enable to run ZTP again.
```

## ztp initiate

To invoke a new ZTP DHCP session, use the **ztp initiate** command in EXEC mode.

ztp initiate {[apply configuration] | [dataport] | [dhcp4] | [dhcp6] | [dhcp4-client-identifier ] | [dhcp6-client-identifier] | [dscp value] | [dscp6 value] | [hostname] | [interface] | [management] | [noprompt]} [debug] [verbose]

Syntax Description	debug		Run with additional logging to the console(cisco-support)				
	verboseapply configurationdataportdhcp4dhcp6dhcp6-client-identifierdhcp6-client-identifierdscp valuedscp6 valuehostnameinterfacemanagement		Run with logging to the console(cisco-support)				
			XR configuration commands to apply(cisco-support) Send DHCP requests on all ADMIN UP physical LC interfaces.				
					Send only DHCP IPv4 requests(cisco-support)		
			Send only DHCP IPv6 requests(cisco-support)Override default dhcp-client-identifier(cisco-support)Override default dhcp6-client-id(cisco-support)DSCP/Prec Value(cisco-support)DSCP6/Prec Value(cisco-support)XR hostname to set(cisco-support)				
					Send DHCP requests only on the given interface(cisco-support)		
						Send DHCP requests on the platforms management interface(cisco-support)	
						noprompt	
			Command Default	No default b	ehavior or	vior or values	
Command Modes			EXEC mode	e			
Command History			Release	Modifica	tion		
	ReleaseThis command was6.3.1introduced.		nmand was ed.				
Usage Guidelines	Use the <b>ztp</b> allows the e for testing Z operations ar interface on invoked on t	initiate cor xecution of TP without re required b the system managemer	nmand to forceably inititate the ZTP, ignoring username configuration. <b>ztp initiate</b> a script even when the system has already been configured. This command is useful forcing a reload. This command is particularly useful to test scripts or if some manual before provisioning the box. <b>ztp initiate</b> can specify any data interfaces and management to be used for the whole ZTP process. If you don't specify an interface, ztp will be tt interface only.				

No progress logs are shown by default, although there will be XR syslogs for important events. If you wish to see more logs, add **verbose** after the **ztp initiate** command. For more details, add **debug** before **verbose**.

Logs can be found in disk0:/ztp/ztp.log.

### Example

This example shows how to bring up the interface manually:

RP/0/RP0/CPU0:router#**ztp initiate debug verbose interface TenGigE 0/0/0/** Invoke ZTP? (this may change your configuration) [confirm] [y/n] :

This example shows how to get rid of the prompting:

RP/0/RP0/CPU0:router#ztp initiate noprompt
Mon Jun 27 20:40:10.353 UTC
ZTP will now run in the background.
Please use "show logging" or look at /disk0:/ztp/ztp.log to check progress.

This example shows how to invoke the breakout discovery and ZTP, ZTP is invoked on the interfaces which are up:

RP/0/RP0/CPU0:router#ztp breakout debug verbose
RP/0/RP0/CPU0:router#ztp initiate dataport debug verbose
Invoke ZTP? (this may change your configuration) [confirm] [y/n] :