

Zero Touch Provisioning Commands

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ztp breakout

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

To invoke platform interface discovery before invoking DHCP, use the **ztp breakout** command in XR EXEC mode.

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ztp breakout [debug] [verbose]{[nosignal-stay-in-breakout-mode] | [nosignal-stay-in-state-noshut
] | [hostname] | [apply configuration]}

Syntax Description

debug	Run with additional logging to the console(cisco-support)
verbose	Run with logging to the console(cisco-support).
apply configuration	XR configuration commands to apply(cisco-support)
hostname	XR hostname to set(cisco-support)
nosignal-stay-in-breakout-mode	On no signal, prefer interfaces to remain in breakout mode(cisco-support)
nosignal-stay-in-state-noshut	On no signal, prefer interfaces to be noshut(cisco-support)

Command Default

No default behavior or values

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

Use the **ztp breakout** command to perform a 10x10 breakout detection on all 100 Gigabit ports. On the 100G ports which are not able to bring up, the **ztp breakout** command will no shut all the 100G interfaces which support breakout configuration. If the interface is able to bring up, the **ztp breakout** script will keep the interface no change. Otherwise, the **ztp breakout** script will apply breakout configuration on the down interfaces.

The **nosignal-stay-in-breakout-mode** argument will force the port in breakout mode when all breakout interfaces from the same physical port have no signal locked, and place the ten 10Gigabitinterfaces in shutdown mode. The **nosignal-stay-in-state-noshut** argument will leave the port in breakout mode and place the ten 10Gigabit interfaces in no shutdown mode.

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 terminate** command. If these logs are not enough, add **debug** before **verbose**.

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

ztp clean

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

To remove all Zero Touch Provisioning (ZTP) logs and settings saved on disk, use the **ztp clean** command in XR EXEC mode.

ztp clean [debug] [verbose]

Syntax Description

debug	Run with additional logging to the console(cisco-support).
verbose	Run with logging to the console(cisco-support)

Command Default

No default behavior or values

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

If you wish to run ZTP as if from a clean boot, use the **ztp clean** command to remove all ZTP logs and settings. Use **commit replace** to reload, and then ZTP will run again as if from first boot.

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 clean** command. If these logs are not enough, add **debug** before **verbose**.

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

This example shows how to remove all ZTP files saved on disk:

```
RP/0/RP0/CPU0:router#ztp clean verbose
Mon Oct 10 17:03:43.581 UTC
Remove all ZTP temporary files and logs? [confirm] [y/n] :y
All ZTP files have been removed.
If you now wish ZTP to run again from boot, do 'conf t/commit replace' followed by reload.
```

ztp initiate

To invoke a new ZTP DHCP session, use the **ztp initiate** command in XR 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)
verbose	Run with logging to the console(cisco-support)
apply configuration	XR configuration commands to apply(cisco-support)
dataport	Send DHCP requests on all ADMIN UP physical LC interfaces.
dhcp4	Send only DHCP IPv4 requests(cisco-support)
dhcp6	Send only DHCP IPv6 requests(cisco-support)
dhcp4-client-identifier	Override default dhcp-client-identifier(cisco-support)
dhcp6-client-identifier	Override default dhcp6-client-id(cisco-support)
dscp value	DSCP/Prec Value(cisco-support)
dscp6 value	DSCP6/Prec Value(cisco-support)
hostname	XR hostname to set(cisco-support)
interface	Send DHCP requests only on the given interface(cisco-support)
management	Send DHCP requests on the platforms management interface(cisco-support)
noprompt	Run without prompting(cisco-support)

Command Default

No default behavior or values

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

Use the **ztp initiate** command to forceably initiate the ZTP, ignoring username configuration. **ztp initiate** allows the execution of a script even when the system has already been configured. This command is useful for testing ZTP without forcing a reload. This command is particularly useful to test scripts or if some manual operations are required before provisioning the box. **ztp initiate** can specify any data interfaces and management interface on the system to be used for the whole ZTP process. If you don't specify an interface, ztp will be invoked on management 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 0/0/0/0 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] :
```

ztp terminate

To terminate all existing Zero Touch Provisioning (ZTP) processes, use the **ztp terminate** command in XR EXEC mode.

ztp terminate [debug] [verbose] [noprompt]

Syntax Description

debug	Run with additional logging to the console(cisco-support).
verbose	Run with logging to the console(cisco-support)
noprompt	Run without prompting(cisco-support)

Command Default

No default behavior or values

Command Modes

XR EXEC mode

Command History

Release	Modification
Release 7.0.12	This command was introduced.

Usage Guidelines

If you want to terminate an already running ZTP process, use the **ztp terminate** command. Be careful to use the **ztp terminate** command because unproperly usage of this command may leave your system in a partially configured state.

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 terminate** command. If these logs are not enough, add **debug** before **verbose**.

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



Note

Unproperly cleanup of the interface IP configuration in Linux in the XR namespace may cause the same IP present in the global Virtual Routing and Forwarding (VRF) and XR namespace at the same time.

Example

This example shows how to terminate the ZTP sessions in progress:

```
RP/0/RP0/CPU0:router#ztp terminate verbose
Mon Oct 10 16:52:38.507 UTC
Terminate ZTP? (this may leave your system in a partially configured state) [confirm] [y/n]
:y
ZTP terminated
```