



# Command Line Interface

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## Overview

This appendix describes commands that you can use on the Cisco IPT Platform to perform basic platform functions. The Cisco IPT Platform Administration GUI application also makes these functions available. Typically you would use the command-line interface (CLI) only when a problem occurs while you are using the Cisco IPT Platform Administration interface.

## Starting a CLI Session

You can access the Cisco IPT Platform CLI remotely or locally:

- From a web client workstation, such as the workstation that you use for Cisco IPT Platform Administration, you can use SSH to connect securely to the Cisco IPT Platform.
- You can access the Cisco IPT Platform CLI directly by using the monitor and keyboard that you used during installation or by using a terminal server that is connected to the serial port. Use this method if a problem exists with the IP address.

### Before You Begin

Ensure you have the following information that gets defined during installation:

- A primary IP address and hostname
- An administrator ID
- A password

You will need this information to log in to the Cisco IPT Platform.

Perform the following steps to start a CLI session:

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**Step 1** Do one of the following actions depending on your method of access:

- From a remote system, use SSH to connect securely to the Cisco IPT Platform. In your SSH client, enter

***ssh adminname@hostname***

where ***adminname*** specifies the Administrator ID and ***hostname*** specifies the hostname that was defined during installation.

For example, ***ssh admin@ipt-1***.

- From a direct connection, you receive this prompt automatically:

```
ipt-1 login:
```

where **ipt-1** represents the host name of the system.

Enter the administrator ID that was defined during installation.

In either case, the system prompts you for a password.

**Step 2** Enter the password that was defined at installation.

The CLI prompt displays. The prompt represents the Administrator ID; for example:

**admin:**

You can now use any CLI command.

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## CLI Basics

The following section contains basic tips for using the command line interface.

## Completing Commands

To complete commands, use **Tab**:

- Enter the start of a command and press **Tab** to complete the command. For example, if you enter **se** and press **Tab**, **set** gets completed.
- Enter a full command name and press **Tab** to display all the commands or subcommands that are available. For example, if you enter **set** and press **Tab**, you see all the **set** subcommands. An **\*** identifies the commands that have subcommands.
- If you reach a command, keep pressing **Tab**, and the current command line repeats; this indicates that no additional expansion is available.

## Getting Help on Commands

You can get two kinds of help on any command:

- Detailed help that includes a definition of the command and an example of its use
- Short query help that includes only command syntax

## Procedure

To get detailed help, at the CLI prompt, enter

**help** *command*

Where *command* specifies the command name or the command and parameter. See [Example 1](#).

To query only command syntax, at the CLI prompt, enter

*command*?

Where *command* represents the command name or the command and parameter. See [Example 2](#).



### Note

If you enter a ? after a menu command, such as **set**, it acts like the Tab key and lists the commands that are available.

### Example 1 Detailed Help Example:

```
admin:help file list activelog

activelog help:
This will list active logging files

options are:
page      - pause output
detail    - show detailed listing
reverse   - reverse sort order
date      - sort by date
size      - sort by size

file-spec can contain '*' as wildcards

Example:
admin:file list activelog platform detail
02 Dec,2004 12:00:59      <dir>    drf
02 Dec,2004 12:00:59      <dir>    log
16 Nov,2004 21:45:43      8,557   enGui.log
27 Oct,2004 11:54:33      47,916  startup.log
dir count = 2, file count = 2
```

### Example 2 Query Example:

```
admin:file list activelog?
Syntax:
file list activelog file-spec [options]
file-spec  mandatory   file to view
options    optional     page|detail|reverse| [date|size]
```

## Ending a CLI Session

At the CLI prompt, enter **quit**. If you are logged in remotely, you get logged off, and the ssh session gets dropped. If you are logged in locally, you get logged off, and the login prompt returns.


# Cisco IPT Platform CLI Commands

The following tables list and describe the CLI commands that are available for the Cisco Unified Communications Operating System and for Cisco Unified CallManager.

## File Commands

The following table lists and explains the CLI File commands:

**Table A-1** *File Commands*

Command	Parameters and Options	Description
<b>file delete</b>	<p><b>activelog</b> <i>directory/filename</i> [<b>detail</b>] [<b>noconfirm</b>]</p> <p><b>inactivelog</b> <i>directory/filename</i> [<b>detail</b>] [<b>noconfirm</b>]</p> <p><b>install</b> <i>directory/filename</i> [<b>detail</b>] [<b>noconfirm</b>]</p> <p><b>tftp</b> <i>directory/filename</i> [<b>detail</b>]</p> <p>Where</p> <ul style="list-style-type: none"> <li>• <b>activelog</b> specifies a log on the active side.</li> <li>• <b>inactivelog</b> specifies a log on the inactive side.</li> <li>• <b>install</b> specifies an installation log.</li> <li>• <b>tftp</b> specifies a TFTP file.</li> </ul> <p>You can use the wildcard character, *, for <i>filename</i>.</p> <div>  <p><b>Caution</b> You cannot recover a deleted file except, possibly, by using the Disaster Recovery System</p> </div> <p><b>Options</b></p> <ul style="list-style-type: none"> <li>• <b>detail</b>—Displays a listing of deleted files with the date and time.</li> <li>• <b>noconfirm</b>—Deletes files without asking you to confirm each deletion.</li> </ul>	<p>This command deletes one or more files.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: Yes</p> <p><b>Example: Delete the install log</b></p> <pre>file delete install install.log</pre>

**Table A-1**      **File Commands (continued)**

Command	Parameters and Options	Description
<b>file dump</b>	<p><b>activelog</b> <i>directory/filename</i> [<b>page</b>] [<b>detail</b>] [<b>hex</b>]</p> <p><b>inactivelog</b> <i>directory/filename</i> [<b>page</b>] [<b>detail</b>] [<b>hex</b>]</p> <p><b>install</b> <i>directory/filename</i> [<b>page</b>] [<b>detail</b>] [<b>hex</b>]</p> <p><b>tftp</b> <i>directory/filename</i> [<b>page</b>] [<b>detail</b>] [<b>hex</b>]</p> <p>Where</p> <ul style="list-style-type: none"> <li>• <b>activelog</b> specifies a log on the active side.</li> <li>• <b>inactivelog</b> specifies a log on the inactive side.</li> <li>• <b>install</b> specifies an installation log.</li> <li>• <b>tftp</b> specifies a TFTP file.</li> </ul> <p>You can use the wildcard character, *, for <i>filename</i> as long as it resolves to one file.</p> <p><b>Options</b></p> <ul style="list-style-type: none"> <li>• <b>page</b>—Displays output one page at a time.</li> <li>• <b>detail</b>—Displays listing with the date and time.</li> <li>• <b>hex</b>—Displays output in hexadecimal.</li> </ul>	<p>This command dumps the contents of a file to the screen.</p> <p>Command privilege level: 1 for logs, 0 for TFTP files</p> <p>Allowed during upgrade: Yes</p> <p><b>Example: Dump contents of file _cdrIndex.idx</b></p> <pre>file dump activelog cm/cdr/_cdrIndex.idx</pre>

Table A-1 File Commands (continued)

Command	Parameters and Options	Description
<b>file get</b>	<p><b>activelog</b> <i>directory/filename</i> [<b>reltime</b>] [<b>abstime</b>] [<b>match</b>] [<b>recurs</b>]</p> <p><b>inactivelog</b> <i>directory/filename</i> [<b>reltime</b>] [<b>abstime</b>] [<b>match</b>] [<b>recurs</b>]</p> <p><b>install</b> <i>directory/filename</i> [<b>reltime</b>] [<b>abstime</b>] [<b>match</b>] [<b>recurs</b>]</p> <p><b>tftp</b> <i>directory/filename</i> [<b>reltime</b>] [<b>abstime</b>] [<b>match</b>] [<b>recurs</b>]</p> <p>Where</p> <ul style="list-style-type: none"> <li><b>activelog</b> specifies a log on the active side.</li> <li><b>inactivelog</b> specifies a log on the inactive side.</li> <li><b>install</b> specifies an installation log.</li> <li><b>tftp</b> specifies a TFTP file.</li> </ul> <p><b>Options</b></p> <ul style="list-style-type: none"> <li><b>abstime</b>—Absolute time period, specified as <i>hh:mm:MM/DD/YY hh:mm:MM/DD/YY</i></li> <li><b>reltime</b>—Relative time period, specified as <i>minutes   hours   days   weeks   months &lt;value&gt;</i></li> <li><b>match</b>—Match a particular string in the filename, specified as <i>&lt;string value&gt;</i></li> <li><b>recurs</b>—Get all files, including subdirectories</li> </ul> <p>After the command identifies the specified files, you get prompted to enter an SFTP host, username, and password.</p>	<p>This command sends the file to another system by using SFTP.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p> <p><b>Example 1: Get all files in the activelog platform directory that match the string "plat"</b></p> <pre>file get activelog platform match plat</pre> <p><b>Example 2: Get all platform log files for a particular time period</b></p> <pre>file get activelog platform/log abstime 18:00:9/27/200 18:00:9/28/2005</pre>

Table A-1 File Commands (continued)

Command	Parameters and Options	Description
<b>file list</b>	<p><b>activelog</b> <i>directory</i> [<b>page</b>] [<b>detail</b>] [<b>reverse</b>] [<b>date</b>   <b>size</b>]  <b>inactivelog</b> <i>directory</i> [<b>page</b>] [<b>detail</b>] [<b>reverse</b>] [<b>date</b>   <b>size</b>]  <b>install</b> <i>directory</i> [<b>page</b>] [<b>detail</b>] [<b>reverse</b>] [<b>date</b>   <b>size</b>]  <b>tftp</b> <i>directory</i> [<b>page</b>] [<b>detail</b>] [<b>reverse</b>] [<b>date</b>   <b>size</b>]  Where</p> <ul style="list-style-type: none"> <li><b>activelog</b> specifies a log on the active side.</li> <li><b>inactivelog</b> specifies a log on the inactive side.</li> <li><b>install</b> specifies an installation log.</li> <li><b>tftp</b> specifies a TFTP file.</li> </ul> <p><b>Note</b> You can use a wildcard character, *, for directory name as long as it resolves to one directory.</p> <p><b>Options</b></p> <ul style="list-style-type: none"> <li><b>detail</b>—Long listing with date and time</li> <li><b>date</b>—Sort by date</li> <li><b>size</b>—Sort by file size</li> <li><b>reverse</b>—Reverse sort direction</li> <li><b>page</b>—Displays the output one screen at a time</li> </ul>	<p>This command lists the log files in an available log directory.</p> <p>Command privilege level: 1 for logs, 0 for TFTP files</p> <p>Allowed during upgrade: Yes</p> <p><b>Example 1: List Platform Log files with details</b></p> <pre>file list activelog platform/log page detail</pre> <p><b>Example 2: List directories in CDR Repository</b></p> <pre>file list activelog cm/cdr_repository</pre> <p><b>Example 3: List CDR files in a specified directory by size</b></p> <pre>file list activelog cm/cdr_repository/processed/20050812 size</pre>
<b>file search</b>	<p><b>activelog</b> <i>directory/filename reg-exp</i> [<b>page</b>] [<b>detail</b>] [<b>ignorecase</b>]  <b>inactivelog</b> <i>directory/filename reg-exp</i> [<b>page</b>] [<b>detail</b>] [<b>ignorecase</b>]  <b>install</b> <i>directory/filename reg-exp</i> [<b>page</b>] [<b>detail</b>] [<b>ignorecase</b>]  <b>tftp</b> <i>directory/filename reg-exp</i> [<b>page</b>] [<b>detail</b>] [<b>ignorecase</b>]  Where</p> <ul style="list-style-type: none"> <li><b>activelog</b> specifies a log on the active side.</li> <li><b>inactivelog</b> specifies a log on the inactive side.</li> <li><b>install</b> specifies an installation log.</li> <li><b>tftp</b> specifies a TFTP file.</li> <li><i>reg-exp</i> represents a regular expression.</li> </ul> <p><b>Note</b> You can use the wildcard character, *, to represent all or part of the filename.</p> <p><b>Options</b></p> <ul style="list-style-type: none"> <li><b>page</b>—Displays the output one screen at a time</li> <li><b>detail</b>—Displays a detailed listing</li> <li><b>ignorecase</b>—Ignores case when searching</li> </ul>	<p>This command searches the content of a log and displays the matching lines. Write the search term in the form of a regular expression, which is a special text string for describing a search pattern.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p> <p><b>Example</b></p> <pre>file search activelog platform/log/platform.log Err[a-z] page ignorecase</pre>

**Table A-1**      **File Commands (continued)**

Command	Parameters and Options	Description
<b>file tail</b>	<b>activelog</b> <i>directory/filename</i> [ <b>detail</b> ] [ <b>hex</b> ] [ <b>lines</b> ] <b>inactivelog</b> <i>directory/filename</i> [ <b>detail</b> ] [ <b>hex</b> ] [ <b>lines</b> ] <b>install</b> <i>directory/filename</i> [ <b>detail</b> ] [ <b>hex</b> ] [ <b>lines</b> ] <b>tftp</b> <i>directory/filename</i> [ <b>detail</b> ] [ <b>hex</b> ] [ <b>lines</b> ] Where <ul style="list-style-type: none"> <li>• <b>activelog</b> specifies a log on the active side.</li> <li>• <b>inactivelog</b> specifies a log on the inactive side.</li> <li>• <b>install</b> specifies an installation log.</li> <li>• <b>tftp</b> specifies a TFTP file.</li> </ul> You can use the wildcard character, *, for filename so long as it resolves to one file.  <b>Options</b> <ul style="list-style-type: none"> <li>• <b>detail</b>—Long listing with date and time</li> <li>• <b>hex</b>—Hexadecimal listing</li> <li>• <b>lines</b>—Number of lines to display</li> </ul>	This command tails (prints the last few lines) of a log file.  Command privilege level: 1 for logs, 0 for TFTP files  Allowed during upgrade: Yes  <b>Example: Tail the platform CLI log file</b> <pre>file tail activelog platform/log/cli00001.log</pre>
<b>file view</b>	<b>activelog</b> <i>directory/filename</i> <b>inactivelog</b> <i>directory/filename</i> <b>install</b> <i>directory/filename</i> <b>tftp</b> <i>directory/filename</i> Where <ul style="list-style-type: none"> <li>• <b>activelog</b> specifies a log on the active side.</li> <li>• <b>inactivelog</b> specifies a log on the inactive side.</li> <li>• <b>install</b> specifies an installation log.</li> <li>• <b>tftp</b> specifies a TFTP file.</li> </ul> <b>Note</b> You can use the wildcard character, *, for filename so long as it resolves to one file.	This command displays the contents of a file.  Command privilege level: 0  Allowed during upgrade: Yes  <b>Example 1: Display the install log</b> <pre>file view install install.log</pre> <b>Example 2: Display a particular CDR file</b> <pre>file view activelog /cm/cdr_repository/processed/20058012/{ filename}</pre>



## Show Commands

The following table lists and explains the CLI Show commands:

**Table A-2**      **Show Commands**

Command	Parameters and Options	Description
<b>show account</b>	None	This command lists current administrator accounts, except the master administrator account.  Command privilege level: 4 Allowed during upgrade: Yes
<b>show cert</b>	<b>own</b> <i>filename</i> <b>trust</b> <i>filename</i> <b>list</b> { <b>own</b>   <b>trust</b> } Where <ul style="list-style-type: none"> <li>• <i>filename</i> represents the name of the certificate file.</li> <li>• <b>own</b> specifies owned certificates.</li> <li>• <b>trust</b> specifies trusted certificates.</li> <li>• <b>list</b> specifies a certificate trust list.</li> </ul> <b>Options</b> None	This command displays certificate contents and certificate trust lists.  Command privilege level: 1 Allowed during upgrade: Yes  <b>Example: Display own certificate trust lists</b> <pre>show cert list own</pre>
<b>show firewall</b>	<b>list</b> [ <b>detail</b> ] [ <b>page</b> ] [ <b>file</b> <i>filename</i> ] Where <ul style="list-style-type: none"> <li>• <b>detail</b>—Displays detailed statistics on every available device on the system</li> <li>• <b>page</b>—Displays the output one page at a time</li> <li>• <b>file</b> <i>filename</i>—Outputs the information to a file</li> </ul> <b>Note</b> The file option saves the information to platform/cli/ <i>filename</i> .txt. The file name cannot contain the "." character.	This command displays system aspects of the server.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show hardware</b>	None	This command displays the following information on the platform hardware: <ul style="list-style-type: none"> <li>• Platform</li> <li>• Serial number</li> <li>• BIOS build level</li> <li>• BIOS manufacturer</li> <li>• Active processors</li> </ul> Command privilege level: 0 Allowed during upgrade: Yes

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show ipsec</b>	<b>policy</b> <b>association</b> <i>policy</i> <b>information</b> <i>policy association</i> Where <ul style="list-style-type: none"> <li><b>policy</b> displays all IPsec policies on the node.</li> <li><b>association</b> displays the association list and status for the policy.</li> <li><b>information</b> displays the association details and status for the policy.</li> <li><i>policy</i> represents the name of a specific IPsec policy.</li> <li><i>association</i> represents the association name.</li> </ul> <b>Options</b> None	This command displays information on IPsec policies and associations. Command privilege level: 1 Allowed during upgrade: yes <b>Example: Display IPsec policies</b> <pre>show ipsec policy</pre>
<b>show myself</b>	None	This command displays information about the current account. Command privilege level: 0 Allowed during upgrade: Yes
<b>show network</b>	<b>eth0</b> [detail] <b>route</b> [detail] <b>status</b> [detail] [listen] [process] [all] [nodns] [search stext] <b>all</b> [detail] Where <ul style="list-style-type: none"> <li><b>eth0</b> specifies Ethernet 0.</li> <li><b>route</b> specifies network routing information.</li> <li><b>status</b> specifies active Internet connections.</li> <li><b>all</b> specifies all basic network information.</li> </ul> <b>Options</b> <ul style="list-style-type: none"> <li><b>detail</b>—Displays additional information</li> <li><b>listen</b>—Displays only listening sockets</li> <li><b>process</b>—Displays the process ID and name of the program to which each socket belongs</li> <li><b>all</b>—Displays both listening and nonlistening sockets</li> <li><b>nodns</b>—Displays numerical addresses without any DNS information</li> <li><b>search stext</b>—Searches for the stext in the output</li> </ul>	This command displays network information. Command privilege level: 0 Allowed during upgrade: Yes <b>Example: Display active Internet connections</b> <pre>show network status</pre>

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show packages</b>	<b>active</b> <i>name</i> [ <b>page</b> ] <b>inactive</b> <i>name</i> [ <b>page</b> ] Where <i>name</i> represents the package name. To display all active or inactive packages, use the wildcard character, *.  <b>Options</b> <b>page</b> —Displays the output one page at a time	This command displays the name and version for installed packages.  Command privilege level: 0 Allowed during upgrade: Yes
<b>show perf</b>	<b>counterhelp</b> <i>class-name counter-name</i> Where <ul style="list-style-type: none"> <li><i>class-name</i> represents the class name that contains the counter.</li> <li><i>counter-name</i> represents the counter that you want to view.</li> </ul> <b>Note</b> If the class name or counter name contains white spaces, enclose the name in double quotation marks.  <b>Options</b> None	This command displays the explanation text for the specified perfmon counter.  Command privilege level: 0 Allowed during upgrade: Yes
<b>show perf</b>	<b>list categories</b>  <b>Options</b> None	This command lists all categories in the perfmon system.  Command privilege level: 0 Allowed during upgrade: Yes
<b>show perf</b>	<b>list classes</b> [ <b>-t</b> <i>category</i> ] [ <b>-d</b> ]  <b>Options</b> <ul style="list-style-type: none"> <li><b>-d</b>—Displays detailed information</li> <li><b>-t</b> <i>category</i>—Displays perfmon classes for the specified category</li> </ul>	This commands lists the perfmon classes or objects.  Command privilege level: 0 Allowed during upgrade: Yes
<b>show perf</b>	<b>list counters</b> <i>class-name</i> [ <b>-d</b> ] Where <i>class-name</i> represents a perfmon class name for which you want to list the counters. <b>Note</b> If the class name contains white spaces, enclose the name in double quotation marks.  <b>Options</b> <b>-d</b> —Displays detailed information	This command lists perfmon counters for the specified perfmon class.  Command privilege level: 0 Allowed during upgrade: Yes

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show perf</b>	<b>list instances</b> <i>class-name</i> [-d] Where <i>class-name</i> represents a perfmon class name for which you want to list the counters. <b>Note</b> If the class name contains white spaces, enclose the name in double quotation marks. <b>Options</b> <b>-d</b> —Displays detailed information	The command lists the perfmon instances for the specified perfmon class. Command privilege level: 0 Allowed during upgrade: Yes
<b>show perf</b>	<b>query class</b> <i>class-name</i> [, <i>class-name</i> ...] Where <i>class-name</i> specifies the perfmon class that you want to query. You can specify a maximum of 5 classes per command. <b>Note</b> If the class name contains white spaces, enclose the name in double quotation marks. <b>Options</b> None	This command queries a perfmon class and displays all the instances and counter values of each instance. Command privilege level: 0 Allowed during upgrade: Yes
<b>show perf</b>	<b>query counter</b> <i>class-name counter-name</i> [, <i>counter-name</i> ...] Where <ul style="list-style-type: none"> <li><i>class-name</i> specifies the perfmon class that you want to query.</li> <li><i>counter-name</i> specifies the counter to view.</li> </ul> You can specify a maximum of 5 counters per command. <b>Note</b> If the class name or counter name contains white spaces, enclose the name in double quotation marks. <b>Options</b> None	This command queries the specified counter and displays the counter value of all instances. Command privilege level: 0 Allowed during upgrade: Yes
<b>show perf</b>	<b>query instance</b> <i>class-name instance-name</i> [, <i>instance-name</i> ...] Where <ul style="list-style-type: none"> <li><i>class-name</i> specifies the perfmon class that you want to query.</li> <li><i>instance-name</i> specifies the perfmon instance to view.</li> </ul> You can specify a maximum of 5 instances per command. <b>Note</b> If the class name or instance name contains white spaces, enclose the name in double quotation marks. <b>Options</b> None	This command queries the specified instance and displays all its counter values. <b>Note</b> This command does not apply to singleton perfmon classes. Command privilege level: 0 Allowed during upgrade: Yes

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
show perf	<p><b>query path</b> <i>path-spec</i> [<i>,path-spec...</i>]</p> <p>Where <i>path-spec</i> gets defined as follows:</p> <ul style="list-style-type: none"> <li>For an instance-based perfmon class, specify <i>path-spec</i> as <i>class-name(instance-name)counter-name</i>.</li> <li>For a noninstance-based perfmon class (a singleton), specify <i>path-spec</i> as <i>class-name\counter-name</i>.</li> </ul> <p>You can specify a maximum of 5 paths per command.</p> <p><b>Note</b> If the path name contains white spaces, enclose the name in double quotation marks.</p> <p><b>Options</b> None</p>	<p>This command queries a specified perfmon path.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p> <p><b>Example</b></p> <pre>show perf query path "Cisco Phones(phone-0)\CallsAttempted", "Cisco Unified CallManager\T1Channel sActive"</pre>

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show process</b>	<p><b>load</b> [cont] [clear] [noidle] [num <i>xx</i>] [thread] [cpu] [memory] [time] [specified] [page]</p> <p><b>list</b> [page] [short] [detail] [thread] [fd] [cont] [clear] [process id <i>id</i>] [argument id <i>id</i>] [owner name <i>name</i>]</p> <p>Where</p> <ul style="list-style-type: none"> <li>• <b>load</b> displays the CPU load for each active process.</li> <li>• <b>list</b> displays all processes.</li> </ul> <p><b>Options</b></p> <ul style="list-style-type: none"> <li>• <b>cont</b>—Command repeats continuously</li> <li>• <b>clear</b>—Clears screen before displaying output</li> <li>• <b>noidle</b>—Ignore idle or zombie processes</li> <li>• <b>num <i>xx</i></b>—Sets the number of processes to display (Default=10, <b>all</b> = all processes)</li> <li>• <b>thread</b>—Displays threads</li> <li>• <b>cpu</b>—Displays output by CPU usage</li> <li>• <b>memory</b>—Sorts output by memory usage</li> <li>• <b>short</b>—Displays short listing</li> <li>• <b>time</b>—Sorts output by time usage</li> <li>• <b>page</b>—Displays one page at a time</li> <li>• <b>detail</b>—Displays a detailed listing</li> <li>• <b>process id <i>id</i></b>—Shows only specific process number or command name</li> <li>• <b>argument name <i>name</i></b>—Show only specific process with argument name</li> <li>• <b>thread</b>—Include thread processes in the listing</li> <li>• <b>fd</b>—Show file descriptors that are associated with a process</li> </ul>	<p>This command displays process and load information.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: Yes</p> <p><b>Example: Show detailed process listing one page at a time</b></p> <pre>show process list detail page</pre>
<b>show registry</b>	<p><i>system component</i> [name] [page]</p> <p>Where</p> <ul style="list-style-type: none"> <li>• <i>system</i> represents the registry system name.</li> <li>• <i>component</i> represents the registry component name.</li> <li>• <i>name</i> represents the name of the parameter to show.</li> </ul> <p><b>Note</b> To display all items, enter the wildcard character, *.</p> <p><b>Display Options</b></p> <p><b>page</b>—Displays one page at a time</p>	<p>This command displays the contents of the registry.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: Yes</p> <p><b>Example: show contents of the cm system, dbl/sdi component</b></p> <pre>show registry cm dbl/sdi</pre>

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show risdb</b>	<b>list</b> [ <b>file</b> <i>filename</i> ] <b>query</b> <i>table1 table2 table3 ...</i> [ <b>file</b> <i>filename</i> ] Where <ul style="list-style-type: none"> <li><b>list</b> displays the tables supported in the Realtime Information Service (RIS) database.</li> <li><b>query</b> displays the contents of the RIS tables.</li> </ul> <b>Options</b> <b>file</b> <i>filename</i> —Outputs the information to a file <b>Note</b> The file option saves the information to platform/cli/ <i>filename</i> .txt. The file name cannot contain the "." character.	This command displays RIS database table information.  Command privilege level: 0 Allowed during upgrade: Yes  <b>Example: Display list of RIS database tables</b> <pre>show risdb list</pre>
<b>show smtp</b>	None	This command displays the name of the SMTP host.  Command privilege level: 0 Allowed during upgrade: Yes
<b>show stats</b>	<b>io</b> [ <b>kilo</b> ] [ <b>detail</b> ] [ <b>page</b> ] [ <b>file</b> <i>filename</i> ]  <b>Options</b> <ul style="list-style-type: none"> <li><b>kilo</b>—Displays statistics in kilobytes</li> <li><b>detail</b>—Displays detailed statistics on every available device on the system and overrides the kilo option</li> <li><b>file</b> <i>filename</i>—Outputs the information to a file</li> </ul> <b>Note</b> The file option saves the information to platform/cli/ <i>filename</i> .txt. The file name cannot contain the "." character.	This command displays system IO statistics.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show status</b>	None	This command displays the following basic platform status: <ul style="list-style-type: none"> <li>Host name</li> <li>Date</li> <li>Time zone</li> <li>Locale</li> <li>Product version</li> <li>Platform version</li> <li>CPU usage</li> <li>Memory and disk usage</li> </ul> Command privilege level: 0

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show tech</b>	<b>all</b> [ <b>page</b> ] [ <b>file filename</b> ]  <b>Options</b> <ul style="list-style-type: none"> <li><b>page</b>—Displays one page at a time</li> <li><b>file filename</b>—Outputs the information to a file</li> </ul> <b>Note</b> The file option saves the information to platform/cli/filename.txt. The file name cannot contain the "." character.	This command displays the combined output of all <b>show tech</b> commands.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>ccm_service</b>  <b>Options</b> None	This command displays information on all Cisco Unified CallManager services that can run on the system.  Command privilege level: 0 Allowed during upgrade: Yes
<b>show tech</b>	<b>database</b>  <b>Options</b> None	This command creates a CSV file of the entire database.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>dbinuse</b>  <b>Options</b> None	This command displays the database in use.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>dbschema</b>  <b>Options</b> None	This command displays the database schema in a CSV file.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>devdefaults</b>  <b>Options</b> None	This command displays the device defaults table.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>gateway</b>  <b>Options</b> None	This command displays the gateway table from the database.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>locales</b>  <b>Options</b> None	This command displays the locale information for devices, device pools, and end users.  Command privilege level: 1 Allowed during upgrade: Yes



Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
show tech	<b>network</b> [ <b>page</b> ] [ <b>file</b> <i>filename</i> ]  <b>Options</b> <ul style="list-style-type: none"> <li><b>page</b>—Displays one page at a time</li> <li><b>file</b> <i>filename</i>—Outputs the information to a file</li> </ul> <b>Note</b> The file option saves the information to platform/cli/ <i>filename</i> .txt. The file name cannot contain the "." character.	This command displays network aspects of the server.  Command privilege level: 1 Allowed during upgrade: Yes
show tech	<b>notify</b>  <b>Options</b> None	This command displays the database change notify monitor.  Command privilege level: 1 Allowed during upgrade: Yes
show tech	<b>params all</b>  <b>Options</b> None	This command displays all the database parameters.  Command privilege level: 1 Allowed during upgrade: Yes
show tech	<b>params enterprise</b>  <b>Options</b> None	This command displays the database enterprise parameters.  Command privilege level: 1 Allowed during upgrade: Yes
show tech	<b>params service</b>  <b>Options</b> None	This command displays the database service parameters.  Command privilege level: 1 Allowed during upgrade: Yes
show tech	<b>procedures</b>  <b>Options</b> None	This command displays the procedures in use for the database.  Command privilege level: 1 Allowed during upgrade: Yes
show tech	<b>routepatterns</b>  <b>Options</b> None	This command displays the route patterns that are configured for the system.  Command privilege level: 1 Allowed during upgrade: Yes
show tech	<b>routeplan</b>  <b>Options</b> None	This command displays the route plan that are configured for the system.  Command privilege level: 1 Allowed during upgrade: Yes

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show tech</b>	<b>runtime</b> [page] [file <i>filename</i> ]  <b>Options</b> <b>page</b> —Displays one page at a time <b>file <i>filename</i></b> —Outputs the information to a file <b>Note</b> The file option saves the information to platform/cli/ <i>filename</i> .txt. The file name cannot contain the "." character.	This command displays runtime aspects of the server.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>systables</b>  <b>Options</b> None	This command displays the name of all tables in the sysmaster database.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>system</b> [page] [file <i>filename</i> ]  <b>Options</b> <b>page</b> —Displays one page at a time <b>file <i>filename</i></b> —Outputs the information to a file <b>Note</b> The file option saves the information to platform/cli/ <i>filename</i> .txt. The file name cannot contain the "." character.	This command displays system aspects of the server.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>table</b> <i>table_name</i> [page] [csv] Where <i>table_name</i> represents the name of the table to display.  <b>Options</b> <b>page</b> —Displays the output one page at a time <b>csv</b> —Sends the output to a comma separated values file	This command displays the contents of the specified database table.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>triggers</b>  <b>Options</b> None	This command displays table names and the triggers that are associated with those tables.  Command privilege level: 1 Allowed during upgrade: Yes
<b>show tech</b>	<b>version</b> [page]  <b>Options</b> <b>Page</b> —Displays the output one page at a time	This command displays the version of the installed components.  Command privilege level: 1 Allowed during upgrade: Yes

Table A-2 Show Commands (continued)

Command	Parameters and Options	Description
<b>show timezone</b>	<b>config</b> <b>list [page]</b> Where <ul style="list-style-type: none"> <li><b>config</b> displays the current time zone settings.</li> <li><b>list</b> displays the available time zones.</li> </ul> <b>Options</b> <b>page</b> —Displays the output one page at a time	This command displays time zone information. Command privilege level: 0 Allowed during upgrade: Yes
<b>show trace</b>	<code>[task_name]</code> Where <code>task_name</code> represents the name of the task for which you want to display the trace information. <b>Note</b> If you do not enter any parameters, the command returns a list of available tasks. <b>Options</b> None	This command displays trace information for a particular task. Command privilege level: 0 Allowed during upgrade: Yes <b>Example: Display trace information for cdp</b> <pre>show trace cdp</pre>
<b>show version</b>	<b>active</b> <b>inactive</b> <b>Options</b> None	This command displays the software version on the active or inactive partition. Command privilege level: 0 Allowed during upgrade: Yes
<b>show web-security</b>	None	This command displays the contents of the current web-security certificate. Command privilege level: 0 Allowed during upgrade: Yes
<b>show workingdir</b>	None	This command retrieves the current working directory for activelog, inactivelog, install, and TFTP. Command privilege level: 0 Allowed during upgrade: Yes

## Set Commands

The following table lists and explains the CLI Set commands.

**Table A-3**      **Set Commands**

Command	Parameters	Description
<b>set account</b>	<p><i>name</i></p> <p>Where</p> <p><i>name</i> represents the username for the new account.</p> <p><b>Note</b> After you enter the username, the system prompts you to enter the privilege level and password for the new account.</p> <p><b>Options</b></p> <p>None</p>	<p>This command sets up a new account on the platform.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: No</p>
<b>set cert</b>	<p><b>regen</b> <i>unit-name</i></p> <p>Where</p> <p><i>unit-name</i> represents the name of the certificate that you want to regenerate.</p> <p><b>Options</b></p> <p>None</p>	<p>This command enables you to regenerate the specified security certificate.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>
<b>set ipsec</b>	<p><b>policy</b> {<b>ALL</b>   <i>policy-name</i>}</p> <p><b>association</b> <i>policy-name</i> {<b>ALL</b>   <i>association-name</i>}</p> <p>Where</p> <ul style="list-style-type: none"> <li><i>policy-name</i> represents an IPSec policy.</li> <li><i>association-name</i> represents an IPSec association.</li> </ul> <p><b>Options</b></p> <p>None</p>	<p>This command allows you to set IPSec policies and associations.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>
<b>set logging</b>	<p>{<b>enable</b>   <b>disable</b>}</p> <p><b>Options</b></p> <p>None</p>	<p>This command allows you to enable or disable logging.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p>

Table A-3 Set Commands (continued)




Command	Parameters	Description
set network	<p><b>dhcp eth0 {enable   disable}</b></p> <p>Where</p> <ul style="list-style-type: none"> <li><b>eth0</b> specifies Ethernet interface 0.</li> </ul> <p>The system asks whether you want to continue to execute this command.</p> <div>  <p><b>Warning</b> If you continue, this command causes the system to restart. Cisco also recommends that you restart all nodes whenever any IP address gets changed.</p> </div> <p><b>Options</b></p> <p>None</p>	<p>This command enables or disables DHCP for Ethernet interface 1 or 0.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>
set network	<p><b>dns {primary   secondary} ip-address</b></p> <p>Where</p> <p><i>ip-address</i> represents the IP address of the primary or secondary DNS server.</p> <p>The system asks whether you want to continue to execute this command.</p> <div>  <p><b>Warning</b> If you continue, this command causes a temporary loss of network connectivity.</p> </div> <p><b>Options</b></p> <p>None</p>	<p>This command sets the IP address for the primary or secondary DNS server.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>
set network	<p><b>domain domain-name</b></p> <p>Where</p> <p><i>domain-name</i> represents the system domain that you want to assign.</p> <p>The system asks whether you want to continue to execute this command.</p> <div>  <p><b>Warning</b> If you continue, this command causes a temporary loss of network connectivity.</p> </div> <p><b>Options</b></p> <p>None</p>	<p>This command sets the domain name for the system.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>

Table A-3 Set Commands (continued)



Command	Parameters	Description
set network	<p><b>gateway</b> <i>ip-address</i></p> <p>Where</p> <p><i>ip-address</i> represents the IP address of the network gateway that you want to assign.</p> <p>The system asks whether you want to continue to execute this command.</p> <div>  <p><b>Warning</b> If you continue, this command causes the system to restart.</p> </div> <p><b>Options</b></p> <p>None</p>	<p>This command enables you to configure the IP address of the network gateway.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>
set network	<p><b>ip eth0</b> <i>ip-address ip-mask</i></p> <p>Where</p> <ul style="list-style-type: none"> <li><b>eth0</b> specifies Ethernet interface 0.</li> <li><i>ip-address</i> represents the IP address that you want assign.</li> <li><i>ip-mask</i> represents the IP mask that you want to assign.</li> </ul> <p>The system asks whether you want to continue to execute this command.</p> <div>  <p><b>Warning</b> If you continue, this command causes the system to restart.</p> </div> <p><b>Options</b></p> <p>None</p>	<p>This command sets the IP address for Ethernet interface 1 or 0.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>

Table A-3 Set Commands (continued)


Command	Parameters	Description
<b>set network</b>	<b>nic eth0 [auto en   dis] [speed 10   100] [duplex half   full]</b> Where <ul style="list-style-type: none"> <li><b>eth0</b> specifies Ethernet interface 0.</li> <li><b>auto</b> specifies whether auto negotiation gets enabled or disabled.</li> <li><b>speed</b> specifies whether the speed of the Ethernet connection: 10 or 100 Mbps.</li> <li><b>duplex</b> specifies half-duplex or full-duplex.</li> </ul> The system asks whether you want to continue to execute this command. <b>Note</b> You can enable only one active NIC at a time. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  <b>Warning</b> If you continue, this command causes a temporary loss of network connections while the NIC gets reset.         </div> <b>Options</b> None	This command sets the properties of the Network Interface Card (NIC). Command privilege level: 1 Allowed during upgrade: No
<b>set network</b>	<b>status eth0 {up   down}</b> Where <b>eth0</b> specifies Ethernet interface 0. <b>Options</b> None	This command sets the status of Ethernet 1 or Ethernet 0 to up or down. Command privilege level: 1 Allowed during upgrade: No
<b>set output</b>	<b>{enable   disable}</b> <b>Options</b> None	This command allows you to enable or disable the platform output. Command privilege level: 0 Allowed during upgrade: Yes
<b>set password</b>	<b>{admin   security}</b> The systems prompts you for the old and new passwords. <b>Note</b> The password must contain at least six characters, and the system checks it for strength.	This command allows you to change the administrator and security passwords. Command privilege level: 1 Allowed during upgrade: No
<b>set smtp</b>	<b>hostname</b> Where <b>hostname</b> represents the SMTP server name. <b>Options</b> None	This command sets the SMTP server hostname. Command privilege level: 0 Allowed during upgrade: No

Table A-3 Set Commands (continued)


Command	Parameters	Description
<b>set timezone</b>	<p><i>timezone</i></p> <p><b>Note</b> Enter enough characters to uniquely identify the new time zone. Be aware that the time-zone name is case-sensitive.</p> <p> <b>Caution</b> You must restart the system after you change the time zone.</p> <p><b>Options</b> None</p>	<p>This command lets you change the system time zone.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: No</p> <p><b>Example: Set the time zone to Pacific time</b>  <pre>set timezone Pac</pre> </p>
<b>set trace</b>	<p><b>enable Error</b> <i>tname</i></p> <p><b>enable Special</b> <i>tname</i></p> <p><b>enable State_Transition</b> <i>tname</i></p> <p><b>enable Significant</b> <i>tname</i></p> <p><b>enable Entry_exit</b> <i>tname</i></p> <p><b>enable Arbitrary</b> <i>tname</i></p> <p><b>enable Detailed</b> <i>tname</i></p> <p><b>disable</b> <i>tname</i></p> <p>Where</p> <ul style="list-style-type: none"> <li>• <i>tname</i> represents the task for which you want to enable or disable traces.</li> <li>• <b>enable Error</b> sets task trace settings to the error level.</li> <li>• <b>enable Special</b> sets task trace settings to the special level.</li> <li>• <b>enable State_Transition</b> sets task trace settings to the state transition level.</li> <li>• <b>enable Significant</b> sets task trace settings to the significant level.</li> <li>• <b>enable Entry_exit</b> sets task trace settings to the entry_exit level.</li> <li>• <b>enable Arbitrary</b> sets task trace settings to the arbitrary level.</li> <li>• <b>enable Detailed</b> sets task trace settings to the detailed level.</li> <li>• <b>disable</b> unsets the task trace settings.</li> </ul> <p><b>Options</b> None</p>	<p>This command sets trace activity for the the specified task.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: No</p>



Table A-3 Set Commands (continued)

Command	Parameters	Description
<b>set web-security</b>	<p><i>orgunit orgname locality state country</i></p> <p>Where</p> <ul style="list-style-type: none"> <li><i>orgunit</i> represents the organizational unit.</li> <li><i>orgname</i> represents the organizational name.</li> <li><i>locality</i> represents the organization's location.</li> <li><i>state</i> represents the organization's state.</li> <li><i>country</i> represents the organization's country.</li> </ul> <p><b>Options</b></p> <p>None</p>	<p>This command sets the web security certificate information for the platform.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: No</p>
<b>set workingdir</b>	<p><b>activelog</b> <i>directory</i></p> <p><b>inactivelog</b> <i>directory</i></p> <p><b>install</b> <i>directory</i></p> <p><b>tftp</b> <i>directory</i></p> <p>Where</p> <ul style="list-style-type: none"> <li><b>activelog</b> sets the working directory for active logs.</li> <li><b>inactivelog</b> set the working directory for inactive logs.</li> <li><b>install</b> sets the working directory for installation logs.</li> <li><b>tftp</b> sets the working directory for TFTP files.</li> <li><i>directory</i> represents the current working directory.</li> </ul> <p><b>Options</b></p> <p>None</p>	<p>This command sets the working directory for active, inactive, and installation logs.</p> <p>Command privilege level: 0 for logs, 1 for TFTP</p> <p>Allowed during upgrade: Yes</p>

## Unset Commands

The following table lists and explains the CLI Unset commands:


**Table A-4**      **Unset Commands**

Command	Parameters	Description
<b>unset ipsec</b>	<b>policy</b> { <b>ALL</b>   <i>policy-name</i> } <b>association</b> <i>policy-name</i> { <b>ALL</b>   <i>association-name</i> } Where <ul style="list-style-type: none"> <li><i>policy-name</i> represents the name of an IPsec policy.</li> <li><i>association-name</i> represents the name of an IPsec association.</li> </ul> <b>Options</b> None	This command allows you to disable IPsec policies and associations.  Command privilege level: 1 Allowed during upgrade: No

## Delete Commands

The following table lists and explains the CLI Delete commands:

**Table A-5**      **Delete Commands**

Command	Parameters	Description
<b>delete account</b>	<i>account-name</i> Where <i>account-name</i> represents the name of an administrator account.  <b>Options</b> None	This command allows you to delete an administrator account.  Command privilege level: 4 Allowed during upgrade: No
<b>delete dns</b>	<i>ip-address</i> Where <i>ip-address</i> represents the IP address of the DNS server you want to delete.  The system asks whether you want to continue to execute this command.  <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <b>Warning</b>    <b>If you continue, this command causes a temporary loss of network connectivity.</b> </div> </div> <b>Options</b> None	This command allows you to delete the IP address for a DNS server.  Command privilege level: 1 Allowed during upgrade: No

**Table A-5** Delete Commands (continued)

Command	Parameters	Description
<b>delete ipsec</b>	<b>policy</b> { <b>ALL</b>   <i>policy-name</i> } <b>association</b> <i>policy name</i> { <b>ALL</b>   <i>association-name</i> } Where <ul style="list-style-type: none"> <li><i>policy-name</i> represents an IPsec policy.</li> <li><i>association-name</i> represents an IPsec association.</li> </ul> <b>Options</b> None	This command allows you to delete IPsec policies and associations. Command privilege level: 1 Allowed during upgrade: No
<b>delete process</b>	<i>process-id</i> [ <b>force</b>   <b>terminate</b>   <b>crash</b> ] Where <ul style="list-style-type: none"> <li><i>process-id</i> represents the process ID number.</li> </ul> <b>Options</b> <ul style="list-style-type: none"> <li><b>force</b>—Tells the process to stop</li> <li><b>terminate</b>—Tells the operating system to terminate the process</li> <li><b>crash</b>—Crashes the process and produces a crash dump</li> </ul> <b>Note</b> Use the <b>force</b> option only if the command alone does not delete the process and use the <b>terminate</b> option only if <b>force</b> does not delete the process.	This command allows you to delete a particular process. Command privilege level: 1 Allowed during upgrade: Yes
<b>delete smtp</b>	None	This command allows you to delete the SMTP host. Command privilege level: 1 Allowed during upgrade: No

## Utility Commands

The following table lists and explains the CLI Utility commands:

**Table A-6** Utility Commands

Command	Parameters	Description
<b>utils disaster_recovery</b>	<b>backup tape</b> <i>tapeid</i> Where <i>tapeid</i> represents the ID of an available tape device. <b>Options</b> None	This command starts a backup job and stores the resulting tar file on tape. Command privilege level: 1 Allowed during upgrade: No

Table A-6 Utility Commands (continued)

Command	Parameters	Description
<b>utils disaster_recovery</b>	<b>backup network</b> <i>path servername username</i> Where <ul style="list-style-type: none"> <li><i>path</i> represents the location of the backup files on the remote server.</li> <li><i>servername</i> represents the IP address or host name of the server where you stored the backup files.</li> <li><i>username</i> represents the username that is needed to log in to the remote server.</li> </ul> <b>Note</b> The system prompts you to enter the password for the account on the remote server.  <b>Options</b> None	This command starts a backup job and stores the resulting tar file on a remote server.  Command privilege level: 1 Allowed during upgrade: No
<b>utils disaster_recovery</b>	<b>cancel_bakckup</b> The system prompts you to confirm that you want to cancel the backup job.  <b>Options</b> None	This command cancels the ongoing backup job.  Command privilege level: 1 Allowed during upgrade: No
<b>utils disaster_recovery</b>	<b>restore tape</b> <i>server tarfilename tapeid</i> Where <ul style="list-style-type: none"> <li><i>server</i> specifies the hostname of the server that you want to restore.</li> <li><i>tarfilename</i> specifies the name of the file to restore.</li> <li><i>tapeid</i> specifies the name of the tape device from which to perform the restore job.</li> </ul> <b>Options</b> None	This command starts a restore job and takes the backup tar file from tape.  Command privilege level: 1 Allowed during upgrade: No

Table A-6 Utility Commands (continued)

Command	Parameters	Description
<b>utils disaster_recovery</b>	<b>restore network</b> <i>restore_server tarfilename path servername username</i> Where <ul style="list-style-type: none"> <li>• <i>restore_server</i> specifies the hostname of the server that you want to restore.</li> <li>• <i>tarfilename</i> specifies the name of the file to restore.</li> <li>• <i>path</i> represents the location of the backup files on the remote server.</li> <li>• <i>servername</i> represents the IP address or host name of the server where you stored the backup files.</li> <li>• <i>username</i> represents the username that is needed to log in to the remote server.</li> </ul> <b>Note</b> The system prompts you to enter the password for the account on the remote server. <b>Options</b> None	This command starts a restore job and takes the backup tar file from a remote server.  Command privilege level: 1 Allowed during upgrade: No
<b>utils disaster_recovery</b>	<b>show_backupfiles network</b> <i>path servername username</i> Where <ul style="list-style-type: none"> <li>• <i>path</i> represents the location of the backup files on the remote server.</li> <li>• <i>servername</i> represents the IP address or host name of the server where you stored the backup files.</li> <li>• <i>username</i> represents the username that is needed to log in to the remote server.</li> </ul> <b>Note</b> The system prompts you to enter the password for the account on the remote server. <b>Options</b> None	This command displays information about the backup files that are stored on a remote server.  Command privilege level: 1 Allowed during upgrade: Yes
<b>utils disaster_recovery</b>	<b>show_bakcupfiles tape</b> <i>tapeid</i> Where <i>tapeid</i> represents the ID of an available tape device. <b>Options</b> None	This command displays information about the backup files that are stored on a tape.  Command privilege level: 1 Allowed during upgrade: Yes

Table A-6 Utility Commands (continued)

Command	Parameters	Description
<b>utils disaster_recovery</b>	<b>show_registration</b> <i>hostname</i> Where <i>hostname</i> specifies the server for which you want to display registration information.  <b>Options</b> None	This command displays the registered features and components on the specified server.  Command privilege level: 1 Allowed during upgrade: Yes
<b>utils disaster_recovery</b>	<b>show_tapeid</b>  <b>Options</b> None	This command displays a list of tape device IDs.  Command privilege level: 1 Allowed during upgrade: Yes
<b>utils disaster_recovery</b>	<b>status</b> <i>operation</i> Where <i>operation</i> specifies the name of the ongoing operation: <b>backup</b> or <b>restore</b> .  <b>Options</b> None	This command displays the status of the current backup or restore job.  Command privilege level: 1 Allowed during upgrade: Yes
<b>utils network</b>	<b>arp list</b> [ <i>host host</i> ][ <i>page</i> ][ <i>numeric</i> ] <b>arp set</b> { <i>host</i> } { <i>address</i> } <b>arp delete</b> <i>host</i> Where <ul style="list-style-type: none"> <li>• <b>arp list</b> lists the contents of the address resolution protocol table.</li> <li>• <b>arp set</b> sets an entry in the address resolution protocol table.</li> <li>• <b>arp delete</b> deletes an entry in the address resolution table.</li> <li>• <i>host</i> represents the host name or IP address of the host to add or delete to the table.</li> <li>• <i>address</i> represents the MAC address of the host to be added. Enter the MAC address in the following format: XX:XX:XX:XX:XX:XX.</li> </ul> <b>Options</b> <b>page</b> —Displays the output one page at a time <b>numeric</b> —Displays hosts as dotted IP addresses	This command lists, sets, or deletes Address Resolution Protocol (ARP) table entries.  Command privilege level: 0 Allowed during upgrade: Yes

Table A-6 Utility Commands (continued)

Command	Parameters	Description
utils network	<p><b>capture eth0</b> [<i>page</i>] [<i>numeric</i>] [<i>file fname</i>] [<i>count num</i>] [<i>size bytes</i>] [<i>src addr</i>] [<i>dest addr</i>] [<i>port num</i>]</p> <p>Where</p> <p><b>eth0</b> specifies Ethernet interface 0.</p> <p><b>Options</b></p> <ul style="list-style-type: none"> <li><b>page</b>—Displays the output one page at a time</li> </ul> <p><b>Note</b> When you use the page or file options, the complete capture of all requested packets must occur before the command completes.</p> <ul style="list-style-type: none"> <li><b>numeric</b>—Displays hosts as dotted IP addresses</li> <li><b>file fname</b>—Outputs the information to a file</li> </ul> <p><b>Note</b> The file option saves the information to platform/cli/fname.cap. The filename cannot contain the “.” character.</p> <p><b>count num</b>—Sets a count of the number of packets to capture</p> <p><b>Note</b> For screen output, the maximum count equals 1000, and, for file output, the maximum count equals 10,000.</p> <ul style="list-style-type: none"> <li><b>size bytes</b>—Sets the number of bytes of the packet to capture</li> </ul> <p><b>Note</b> For screen output, the maximum number of bytes equals 128, for file output, the maximum of bytes can be any number or <b>ALL</b></p> <ul style="list-style-type: none"> <li><b>src addr</b>—Specifies the source address of the packet as a host name or IPV4 address</li> <li><b>dest addr</b>—Specifies the destination address of the packet as a host name or IPV4 address</li> <li><b>port num</b>—Specifies the port number of the packet, either source or destination</li> </ul>	<p>This command captures IP packets on the specified Ethernet interface. You can display the packets on the screen or save them to a file. Line wrapping can occur in the output.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p>
utils network	<p><b>host hostname</b> [<i>server server-name</i>][<i>page</i>][<i>detail</i>]</p> <p>Where</p> <p><i>hostname</i> represents the host name or IP address that you want to resolve.</p> <p><b>Options</b></p> <p><i>server-name</i>—Specifies an alternate domain name server</p> <p><b>page</b>—Displays the output one screen at a time</p> <p><b>detail</b>—Displays a detailed listing</p>	<p>This command resolves a host name to an address or an address to a host name.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p>

Table A-6 Utility Commands (continued)

Command	Parameters	Description
<b>utils network</b>	<p><b>ping</b> <i>destination</i> [<i>count</i>]</p> <p>Where</p> <p><i>destination</i> represents the hostname or IP address of the server that you want to ping.</p> <p><b>Options</b></p> <p><i>count</i>—Specifies the number of times to ping the external server. The default count equals 4.</p>	<p>This command allows you to ping another server.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p>
<b>utils network</b>	<p><b>tracert</b> <i>destination</i> [<i>eth0</i>]</p> <p>Where</p> <p><i>destination</i> represents the hostname or IP address of the server to which you want to send a trace.</p> <p><b>Options</b></p> <p><b>eth0</b>—Sets the source Ethernet address</p>	<p>This command traces IP packets that are sent to a remote destination.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p>
<b>utils ntp</b>	{ <b>status</b>   <b>config</b> }	<p>This command displays the NTP status or configuration.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p>
<b>utils remote_account</b>	<p><b>status</b></p> <p><b>enable</b></p> <p><b>disable</b></p> <p><b>create</b> <i>username</i> <i>life</i></p> <p>Where</p> <p><i>username</i> specifies the name of the remote account. The username can contain only lowercase characters and must be more than six-characters long.</p> <p><i>life</i> specifies the life of the account in days. After the specified number of day, the account expires.</p> <p><b>Note</b> You can have only one remote account that is enabled at a time.</p> <p><b>Options</b></p> <p>None</p>	<p>This command allows you to enable, disable, create, and check the status of a remote account.</p> <p><b>Note</b> A remote account generates a pass phrase that allows Cisco Systems support personnel to get access to the system for the specified life of the account.</p> <p>Command privilege level: 1</p> <p>Allowed during upgrade: Yes</p> <p><b>Example</b></p> <pre>utils remote_account status</pre>
<b>utils service</b>	<p><b>list</b> [<i>page</i>]</p> <p><b>Options</b></p> <p><b>page</b>—Displays the output one page at a time</p>	<p>This command retrieves a list of all services and their status.</p> <p>Command privilege level: 0</p> <p>Allowed during upgrade: Yes</p>



Table A-6 Utility Commands (continued)

Command	Parameters	Description
<b>utils service</b>	<b>start</b> <i>service-name</i> <b>stop</b> <i>service-name</i> <b>restart</b> <i>service-name</i> Where <i>service-name</i> represents the name of the service that you want to stop or start the following services: <ul style="list-style-type: none"> <li>• System NTP</li> <li>• System SSH</li> <li>• Service Manager</li> <li>• Cisco Database</li> <li>• Cisco Tomcat</li> <li>• Cisco Database Layer Monitor</li> <li>• Cisco Unified CallManager Serviceability</li> </ul> <b>Options</b> None	This command stops, starts, or restarts a service.  Command privilege level: 1  Allowed during upgrade: No
<b>utils snmp</b>	<b>test</b>  <b>Options</b> None	This commands tests the SNMP host by sending sample alarms to local syslog, remote syslog, and SNMP trap.  Command privilege level: 0  Allowed during upgrade: No
<b>utils soap</b>	<b>realtimeservice test</b> <i>remote-ip remote-https-user remote-https-password</i> Where <ul style="list-style-type: none"> <li>• <i>remote-ip</i> specifies the IP address of the server under test.</li> <li>• <i>remote-https-user</i> specifies a username with access to the SOAP API.</li> <li>• <i>remote-https-password</i> specifies the password for the account with SOAP API access.</li> </ul> <b>Options</b> None	This command executes a number of test cases on the remote server.  Command privilege level: 0  Allowed during upgrade: N
<b>utils system</b>	<b>{restart   shutdown   switch-version}</b>  <b>Note</b> The system prompts you to confirm the action that you choose.	This command allows you to restart the system on the same partition, restart the system on the inactive partition, or shut down the system.  Command privilege level: 1  Allowed during upgrade: No

## Run Commands

The following table lists and explains the CLI Run commands:

**Table A-7**      **Run Commands**

Command	Parameters	Description
<b>run sql</b>	<i>sql_statement</i> Where sql_statement represents the SQL command to run.  <b>Options</b> None	This command allows you to run an SQL command.  Command privilege level: 1 Allowed during upgrade: No  <b>Example: Run an SQL command</b> run sql select name from device