



CHAPTER 6

Using Command Analyzer

Command Analyzer is a tool that allows you to:

- Check commands for completeness.
- Compare two IOS images.

Command Analyzer works on both Linux and Windows platforms.

To use Command Analyzer, see these topics:

- [Getting Started With Command Analyzer](#)
- [Understanding the Command Analyzer UI](#)
- [Generating the Commands Report](#)
- [Generating the Command Comparison Report](#)
- [Troubleshooting Command Analyzer](#)

Getting Started With Command Analyzer

Command Analyzer is a standalone UI tool. It is packaged with Cisco E-DI, and will be available after you have installed Cisco E-DI. To install Cisco E-DI, see:

- *Installation Guide and Setup Guide for Enhanced Device Interface, 2.2 on Windows*
- *Installation Guide and Setup Guide for Enhanced Device Interface, 2.2 on Linux*

To get started with Command Analyzer, see these topics:

- [Pre-requisites](#)
- [Launching Command Analyzer](#)
- [Configuring Command Analyzer](#)
- [Understanding the Command Analyzer Terminology](#)

Pre-requisites

To work with Command Analyzer you should have device packages available. If you have installed Cisco E-DI, the device packages packaged with this release of Cisco E-DI are available in this device package directory:

E-DI Install Location\Cisco Systems\Cisco EDI\edi\dist\devpackages

For the device packages provided with this build, see the E-DI 2.2 Release Notes.

Additional device packages or Incremental Device Updates (IDUs) will be made available through Cisco.com. IDUs allow Cisco E-DI to be updated with support for new device packages. To download the files for the device packages, see <http://www.cisco.com/public/sw-center/sw-netmgmt.shtml>.

After the required IDUs are downloaded, they can be copied to the Cisco E-DI devpackage directory.

Refer to Cisco E-DI Installation and Setup Guide 2.2, for details of the installation process.

Launching Command Analyzer

Follow these steps to launch Command Analyzer:



Note

The E-DI server does not need to be running for you to be able to use Command Analyzer. It is a stand-alone application.

Step 1 Navigate to the directory *E-DI Install Location*\Cisco Systems\Cisco EDI\edi\dist\ui_products\cmdAnalyzer

- On Windows: Double-click on launcher .exe.
- On Linux: Run `./launcher`

Command Analyzer opens.

Your next task is to configure Command Analyzer. See [Configuring Command Analyzer](#).

Configuring Command Analyzer

To be able to begin working with Command Analyzer, you should configure Command Analyzer for the location of the Device Packages.

To configure Command Analyzer:

Step 1 From the Main Menu Bar, select **Command Analyzer > Wizards > Setup Wizard**.

The Command Analyzer Setup Wizard opens.

Step 2 In the Device Packages Dir. field, enter the location of your device packages

Or

Use **Browse** to select the directory in which your device packages reside. The default directory is *E-DI Install Location*\Cisco Systems\Cisco EDI\edi\dist\devpackages.

Step 3 Click **Finish**.

Understanding the Command Analyzer Terminology

In this chapter, you will frequently encounter the term device-version pair. A device-version pair in Command Analyzer terminology comprises a single device with any one of its image versions.

For example, Cat4000-12.1(19)EW1.

When two device-version pairs are referred to, it means either:

- Two devices each with a single IOS image version selected. For example, Cat2950-12.1(13)EA1c and Cat3550-12.1(14)EA1a constitute two valid device version pairs that can be compared.
or
- A single device with two IOS image versions selected. For example Cat3550-12.1(14)EA1a and Cat3550-12.1(22)EA2 constitute two valid device-version pairs that can be compared.

Understanding the Command Analyzer UI

To launch the Command Analyzer, see [Launching Command Analyzer](#).

Command Analyzer has two main perspectives

- [Commands Report Perspective](#)
- [Compare Commands Perspective](#)

By default, when you launch Command Analyzer the Commands Report perspective opens. You can toggle or switch between these two perspectives in these ways:

- Go to **File > Switch Perspective** and select the other perspective.
or
- Click on the Open Perspective icon and select the other perspective.

Commands Report Perspective

The Commands Report Perspective enables you to select a device-version pair and generate a Tree view of the commands associated with that device-version pair.

You can drill down to specific commands, from a submode level and view the report of the commands in the Commands Report View. This Report displays whether the listed commands are complete commands and whether they have a valid negation command.

The Commands Report Perspective has the following views:

- **Commands Tree View**—Allows you to view the submodes for a selected device-version pair. Allows you to drill down several levels to the lowest level of the command.
- **Commands Report View**—Displays whether a command has callback, and whether the negation callback is applicable.
- **Error Log View**—Displays information and error messages. See [Troubleshooting Command Analyzer](#).

To generate the Commands Report, see [Generating the Commands Report](#).

Compare Commands Perspective

The Compare Commands Perspective enables you to select two device-version pairs and generate a diff of commands for the submodes associated with the device-version pairs.

The Compare Commands Perspective has the following views:

- Diff Commands Tree—Displays the submodes for the two device-version pairs that you selected.
- Command Comparison Report—Displays the Diff or differences between the commands present within the submodes for the two selected device-version pairs.
- Error Log View—Displays information and error messages. See [Troubleshooting Command Analyzer](#).

To generate the Command Comparison Report, see [Generating the Command Comparison Report](#).

Generating the Commands Report

To know more about the Commands Report see [Commands Report Perspective](#).

The Compare Commands Report can be exported to a PDF.

To generate the Compare Commands Report:

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- Step 1** From the Main Menu Bar, select **Wizards > Commands Report Wizard**.
The Commands Report Generation Wizard opens.
- Step 2** From the Devices List, highlight a single device-version pair to select it.
To know more about device-version pair, see [Understanding the Command Analyzer Terminology](#).
- Step 3** Click **Finish**.
- Step 4** In the Commands Tree, drill down to the required submode or command node.
The command details applicable to the selected command appear in the Commands Report view, along with this information:
- Whether the command has callback.
 - Whether the negation callback is applicable for that command.
- Step 5** Export the report to PDF by selecting **Tools > Export to PDF**.
The Save As dialog box opens. Save the PDF to a location of your choice.
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Generating the Command Comparison Report

To know more about the Command Comparison Report, see [Compare Commands Perspective](#).

The Command Comparison Report can be exported to PDF.

To generate the Compare Commands Report:

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- Step 1** From the Main Menu Bar, select **Wizards > Commands Comparison Wizard**.
The Commands Comparison Wizard opens.
- Step 2** From the Devices List, select two device-version pairs.
To know more about device-version pair, see [Understanding the Command Analyzer Terminology](#).
- Step 3** Click **Finish**.
- Step 4** The Diff Commands Tree is populated. Expand the Root folder to see the submodes for the selected device-version pairs.
- Step 5** From the Diff Commans Tree, select a command submode.
The Command Comparison Report appears with the image information in two columns for the selected device-version pairs.

Legends

- Red indicates that the command was deleted from the first image.
 - Green indicates that the command was newly added in the second image.
 - Blue indicates that the command was changed.
 - The change could be a either a negation callback added or deleted denoted by the prefix `[no]` or
 - a callback was added or deleted, denoted by a suffix `[cr]`.
- Step 6** Export the report to PDF by selecting **Tools > Export to PDF**.
The Save As dialog box opens. Save the PDF to a location of your choice.
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Troubleshooting Command Analyzer

You can view the information, errors, or warnings that may arise when you generate the Command Report or compare two images using the Error Log view.

The Error Log is always open, irrespective of whether you are in the Commands Report perspective or in the Compare Commands perspective. It shows you information about successful completion of a task, and errors or warning messages.

For troubleshooting purposes, you can export the log using the Export Log icon in the Error Log toolbar and send it to customer support.

