

Altova DiffDog Server 2018 User & Reference Manual

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Chapter 1

Altova DiffDog Server 2018

1 Altova DiffDog Server 2018

DiffDog Server is a powerful differencing software solution that enables you to compare text and XML files, directories (including ZIP format), as well as URLs, across Windows, Linux, and Mac OS X systems.

DiffDog Server Features

- Command-line Interface. DiffDog Server runs as a service. You can run comparisons by invoking DiffDog Server either from the command line interface or through executable scripts.
- *Run comparisons remotely.* You can compare files either directly on the server machine where DiffDog Server is installed, or call a comparison remotely from a client machine. The DiffDog Server installation includes a portable DiffDog Command Line Client, which can be copied to multiple machines within your organization, thus enabling you to call a running DiffDog Server remotely.
- *Cross-platform:* DiffDog clients may run on either Linux, Mac OS X, or Windows, and the same is true for DiffDog Server.
- URL Comparisons. In addition to files and directories, you can also compare URLs. For example, you can compare a page like http://www.example.org/page1.html with http://www.example.org/page2.html. Combinations between URL and files are also possible, for example, http://www.example.org/page1.html with C:\page2.html.
- *Three-way comparisons.* In addition to standard two-side comparisons that involve a "left" file and a "right" side, you can also perform three-way comparisons (when comparing files). This is useful, for example, when two different versions exist of the same original file, and you need to cross-compare all versions.
- *Binary, text, and XML.* Depending on the kind of files you are comparing, you can choose between any of the following comparison modes: binary, text, or XML. Alternatively, you can let the application detect the comparison mode automatically based on file extension. For even more advanced needs, you can create custom rules to choose a specific mode automatically based on file extension.
- Advanced filters and comparison options. You can flexibly include or exclude files or directories from a comparison by means of filters. Additional options are available that help you deal with case-sensitive versus insensitive comparisons, ignoring files based on size or modification time, as well as various ways to treat special characters like spaces, tabs, or carriage returns.
- Integration with DiffDog desktop. If you have already created comparison files (such as .filedif and .dirdif files) in DiffDog (<u>https://www.altova.com/diffdog</u>), you can compare them in a server environment as well. This enables you to automate or integrate frequently-used comparisons into your custom scripts or processes. On Windows, any custom XML or directory filters that you have created in DiffDog can also be invoked as command line options when you run a comparison with the DiffDog Command Line Client executable.

Limitations

• The connection between client and server is currently unencrypted (plain HTTP).

System Requirements			
Windows	Windows 7 SP1 with Platform Update, Windows 8, Windows 10		
Windows Server	Windows Server 2008 R2 SP1 with Platform Update or newer		
Linux	 CentOS 6 or newer RedHat 6 or newer Debian 7 or newer Ubuntu 12.04 or newer 		
(Mac) OS X, macOS	OS X10.10, 10.11, macOS 10.12 or newer		

System Requirements

On Windows, DiffDog Server is available both as a 32-bit and 64-bit package.

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1.1 How It Works

After installation, the DiffDog Server files are copied in the default program installation directory.

Windows	C:\Program Files\Altova\DiffDogServer2018\
Linux	/opt/Altova/DiffDogServer2018/
OS X / macOS	/usr/local/Altova/DiffDogServer2018/

The program installation directory contains two executables that you will work with:

- 1. DiffDog Server executable, available in the **bin** subdirectory. This executable provides configuration-related commands, including commands for licensing DiffDog Server, starting it as a service, or resetting it to the default configuration.
- 2. DiffDog Command Line Client executable, available in the **cmdlclient** subdirectory. This executable provides the diff command (among other commands). The diff command is the most important command, and you can use it to run comparisons between any of the following: files, directories, or URLs.

In this documentation, the DiffDog Command Line Client executable is alternatively referred to as "DiffDogCmdlClient".

To begin, let's open a command line terminal and run a simple command that returns the current version of DiffDog Server:

Windows	"C:\Program Files\Altova\DiffDogServer2018\bin\DiffDogServer" version
Linux	/opt/Altova/DiffDogServer2018/bin/diffdogserverversion
OS X / macOS	/usr/local/Altova/DiffDogServer2018/bin/diffdogserverversion

Let's now run an actual comparison between two local files. This time, make sure that you call the DiffDogCmdlClient (not server) executable with the diff command, as follows:

Windows	"C:\Program Files\Altova\DiffDogServer2018\cmdlclient \DiffDogCmdlClient.exe" diff file1.txt file2.txt
Linux	/opt/Altova/DiffDogServer2018/cmdlclient/bin/diffdogcmdlclient diff file1.txt file2.txt
OS X / macOS	/usr/local/Altova/DiffDogServer2018/cmdlclient/bin/ diffdogcmdlclient diff file1.txt file2.txt

Note that, for the sake of simplicity, this documentation omits the full path to the executable when describing commands. Therefore, instead of the command above, this documentation uses:

DiffDogCmdlClient diff file1.txt file2.txt

The command above is very simple and assumes that:

- The current working directory is the program directory.
- The files **file1.txt** and **file2.txt** exist in the program directory (otherwise, refer to them using an absolute or a relative path).
- DiffDog Server and DiffDog Command Line Client both run on the same machine.

Note the following:

- To call the executable (either client or server) just by name, without the full path, add the program installation directory to your system's PATH variable. Alternatively, run the cd command and switch to the directory where the executable is.
- On Linux, use an all-lowercase to call the executable. In addition, on Linux and OS X/ macOS, when you are inside the directory of the executable, you might need to add the prefix "./" before the name of the executable.

DiffDog Command Line Client can run either on the same machine as DiffDog Server, or on a different machine. When installed on another machine, the client it is capable of communicating with a remote DiffDog Server through HTTP. Consequently, the diff command can compare not only file or directory paths local to the client, but also paths on the remote machine where DiffDog Server runs. You can also compare a client-side file or directory with a remote server-side file or directory, or vice versa. Moreover, the client and the server can be on different operating systems (for example, the client may be running on Windows and the server on Linux). The advantage of such a setup is that it enables you to run comparisons from virtually any client configured to communicate with the server. For instructions about how to configure the server to accept calls from remote clients, see Configuring the Server.

The diff command provides a large number of additional options for advanced comparison needs, for example:

- You can specify whether files should be compared as text, XML, or binary files.
- You can create custom rules that let you automatically set a comparison mode (text, XML, binary) based on file extension.
- When two directories are compared, you can specify whether file contents are to be compared also.
- You can specify whether the file size or modification date should be ignored or taken into account when comparing files.
- When you compare text files, you can specify rules to exclude from the comparison files that match a certain name pattern.
- When you compare XML files, you can specify rules to exclude from the comparison certain XML elements and attributes.
- You can specify how the comparison results are to be generated. For example, you can redirect the comparison result (output) either to a file on the server, or to a file on the client. Regardless of the option chosen, you can additionally view the output on screen. The comparison results can be either in text or in XML format.

This is not an exhaustive list; for reference to all available comparison options, see the \underline{diff} command reference.

Chapter 2

Installation

2.1 Linux

2.1.1 Installing DiffDog Server

System requirements

Linux

- CentOS 6 or newer
- RedHat 6 or newer
- Debian 7 or newer
- Ubuntu 12.04 or newer

The following libraries are required as a prerequisite to install and run the application. If the packages below are not already available on your Linux machine, run the command yum (or apt-get if applicable) to install them.

Required by	CentOS, RedHat	Debian	Ubuntu
LicenseServer	krb5-libs	libgssapi-krb5-2	libgssapi-krb5-2

Prerequisites

- Perform installation either as **root** user or as a user with **sudo** privileges.
- The previous version of DiffDog Server must be uninstalled before a new one is installed.

Installing DiffDog Server

- 1. Download the installation package from https://www.altova.com/download#server to a local directory.
- 2. Change to the directory where you downloaded the installation package, for example:

cd /home/User/Downloads

3. Install the DiffDog Server package.

```
[Debian, Ubuntu] sudo dpkg --install diffdogserver-2018-debian.deb
[CentOS, RedHat] sudo rpm -ivh diffdogserver-2018-1.x86_64.rpm
```

- **Note:** You may need to adjust the name of the package above to match the current release or service pack version.
 - 4. Start the DiffDog Server service.

[CentOS 6]:	sudo initctl start diffdogserver
[CentOS 7]:	sudo systemctl start diffdogserver
[Debian 7]:	<pre>sudo /etc/init.d/diffdogserver start</pre>
[Debian 8]:	sudo systemctl start diffdogserver
[RedHat 6]:	sudo initctl start diffdogserver
[RedHat 7]:	sudo systemctl start diffdogserver
[Ubuntu 14]:	sudo initctl start diffdogserver
[Ubuntu 15]:	sudo systemctl start diffdogserver

Licensing DiffDog Server

- 1. Ensure that the latest version of Altova LicenseServer (<u>https://www.altova.com/</u> licenseserver) is installed and running either on the local machine or network.
- 2. Register DiffDog Server with Altova LicenseServer. For this, you need to know either the host name or the IP address of the computer where LicenseServer runs. For example, if LicenseServer runs on 127.0.0.1, you can register it as follows:

sudo diffdogserver licenseserver 127.0.0.1

Note: The command above assumes you are calling the executable from the program installation directory. On CentOS and OS X, make sure to prepend "./" in front of the executable.

3. Log on to LicenseServer administration interface and assign the license to the machine where DiffDog Server runs.

For more information about licensing, refer to Altova LicenseServer documentation (<u>https://www.altova.com/documentation</u>).

2.1.2 Viewing Currently Installed Products

To check if an Altova server product is installed:

• Run the following command:

```
[Debian, Ubuntu] dpkg --list | grep server
[CentOS, RedHat] rpm -qa | grep server
```

2.1.3 Uninstalling DiffDog Server

To uninstall DiffDog Server:

• Run the following command:

```
[Debian, Ubuntu] sudo dpkg --remove diffdogserver
[CentOS, RedHat] sudo rpm -e diffdogserver
```

If you need to uninstall other packages, use the same command as above and supply the package you want to remove as argument. For example:

[Debian, Ubuntu] sudo dpkg --remove licenseserver [CentOS, RedHat] sudo rpm -e licenseserver

2.2 OS X / macOS

2.2.1 Installing DiffDog Server

System requirements

(Mac) OS X, macOS

OS X 10.10 or newer

Prerequisites

• Perform installation as a user with administrative (root) privileges.

Installing DiffDog Server

- Download the disk image (.dmg) file from the Altova Download Center (<u>https://www.altova.com/download</u>) and click to open it. Once you do this, the installer appears as a new drive on your computer.
- Double-click the package (.pkg) file, and go through the successive steps of the installation wizard. These are self-explanatory and include one step in which you have to agree to the license agreement before being able to proceed. When you complete the wizard, the DiffDog Server icon becomes available in Applications. The package is installed in the directory /usr/local/Altova/DiffDogServer2018/.
- 3. If you have not installed Altova License Server already, or if you want to upgrade to the latest version, double-click the corresponding package (.pkg) file and follow the on-screen instructions.
- 4. Start DiffDog Server as a service.

```
sudo launchctl load /Library/LaunchDaemons/
com.altova.DiffDogServer.plist
```

Licensing DiffDog Server

- 1. Ensure that the latest version of Altova LicenseServer (<u>https://www.altova.com/</u> <u>licenseserver</u>) is installed and running either on the local machine or network.
- 2. Register DiffDog Server with Altova LicenseServer. For this, you need to know either the host name or the IP address of the computer where LicenseServer runs. For example, if LicenseServer runs on 127.0.0.1, you can register it as follows:

```
sudo diffdogserver licenseserver 127.0.0.1
```

3. Log on to LicenseServer administration interface and assign the license to the machine where DiffDog Server runs.

For more information, refer to Altova LicenseServer documentation (https://www.altova.com/

documentation).

2.2.2 Uninstalling DiffDog Server

To uninstall DiffDog Server:

1. Stop the DiffDog Server service.

```
sudo launchctl unload /Library/LaunchDaemons/
com.altova.DiffDogServer.plist
```

To check whether a service has been stopped, open the Activity Monitor terminal and make sure that the service is not in the list. Double-check that the Activity Monitor shows all processes, not just "My processes" (On the **View** menu, click **All processes**.)

- In Applications, right-click the DiffDog Server icon and select Move to Trash. Note that your DiffDog Server installation directory and configuration data are not removed by this step.
- 3. Optionally, if you want to remove the DiffDog Server installation directory as well, run the following command:

```
sudo rm -rf /usr/local/Altova/DiffDogServer2018/
```

Note: The steps above do not remove the configuration data from /var/Altova/ DiffDogServer2018. Be aware that once the configuration data is removed, it cannot be recovered later.

2.3 Windows

2.3.1 Installing DiffDog Server

System requirements

- Windows 7 SP1 with Platform Update, Windows 8, Windows 10
- Windows Server 2008 R2 SP1 with Platform Update or newer

Prerequisites

• Perform installation as a user with administrative privileges.

Installing DiffDog Server

- 1. Download the installation file from the Altova Download Center (<u>https://www.altova.com/</u><u>download</u>) and run it.
- 2. Optionally, select the installation language from the box in the lower left area of the wizard, and click **Next**. If necessary, you can change the language later from the command line.
- 3. Do one of the following:
 - a. If you haven't installed Altova LicenseServer yet, leave the default settings as is. The wizard will install the latest version of Altova LicenseServer on the computer where you are running the wizard.
 - b. If you haven't installed Altova LicenseServer yet and want to install Altova LicenseServer on another computer, clear the Install Altova LicenseServer on this machine check box, and then choose Register Later. In this case, you will need to install Altova LicenseServer and register DiffDog Server separately.
 - c. If Altova LicenseServer has already been installed on your computer but it has a lower version than the one indicated by the installation wizard, leave the default settings as is. In this case, the installation wizard will automatically upgrade your LicenseServer version with the one indicated on the dialog box. Note that the existing registration and licensing information will be preserved after the upgrade.
 - d. If Altova LicenseServer has already been installed on your computer or network, and if it has the same version as the one indicated by the wizard, do the following:
 - i. Clear the Install Altova LicenseServer on this machine check box.
 - ii. Under **Register this product with**, choose the Altova LicenseServer instance on which you want to register DiffDog Server, or choose **Register later**.
- 4. Click Next.
- 5. Optionally, define the port number on which HTTP clients can communicate with DiffDog Server. You can also change this setting later, see <u>Configuring the Server</u>.

Unencrypted Connection to Web Server				
	DiffDog Server			
Please enter the port number via which clients can communicate with this web server.				
	✓ enabled			
Port number:	29800			
	OK Cancel			

- 6. Optionally, define the Windows service configuration applicable to DiffDog Server. For more information, see <u>Configuring Windows Service Settings</u>.
- 7. Follow the wizard instructions to complete the installation. When the installation completes, the Altova ServiceController icon (

Licensing DiffDog Server

- 1. Ensure that the latest version of Altova LicenseServer (<u>https://www.altova.com/</u><u>licenseserver</u>) is installed and running either on the local machine or network.
- If you haven't done so already during installation, register DiffDog Server with Altova LicenseServer. For this, you need to know either the host name or the IP address of the computer where LicenseServer runs. For example, if LicenseServer runs on 127.0.0.1, you can register it as follows:

DiffDogServer.exe licenseserver 127.0.0.1

3. Log on to LicenseServer administration interface and assign the license to the machine where DiffDog Server runs.

For more information, refer to Altova LicenseServer documentation (<u>https://www.altova.com/</u><u>documentation</u>).

2.3.2 Configuring Windows Service Settings

During the installation of DiffDog Server on a Windows operating system, it is possible to configure the following settings:

- How should DiffDog Server start up as a Windows service: automatic, on demand, delayed automatic, or disabled.
- The operating system user account to be used by DiffDog Server as a Windows service: Local System, Local Service, Network Service, or Other User.
- If DiffDog Server is configured to run as **Other User**, you can set the username and password of this user, similar to how this is done in the Windows Services management console.

The settings have the same meaning as when you change the service properties from the Windows Services management console. To define the settings above during installation, click **Change** next to **Service configuration**.

Altova DiffDog Server - Installer Wizard	
ALTOVA	
DiffDog Server	
Unencrypted Connection to Web Server port number: 29800	Change
Service configuration Start type: Automatic, Logon account: Local System	Change
< <u>B</u> ack	Next > Cancel

If you need to change these settings after installation, open the Windows Services management console, and then change the properties of the required service from there. To open the Windows Services management console, open a command line window and type Services.msc.

Chapter 3

Configuring the Server

3 Configuring the Server

Configuration of DiffDog Server involves setting the server configuration file—one such file in .ini format exists on the server machine in the application data directory:

Linux /var/opt/Altova/DiffDogServer	
Mac	/var/Altova/DiffDogServer
Windows 7, 8, 10	C:\ProgramData\Altova\DiffDogServer

For typical scenarios where configuration of the server is required, see <u>Configuring the Server for</u> <u>Remote Comparisons</u>.

In addition, if you want to use DiffDog Server for remote comparisons, a client configuration file, also in .ini format, must be configured on each client machine that connects to DiffDog Server remotely.

You can change the settings available in configuration files by editing the files in a text editor. For reference to all settings available in these files, see:

- Server Configuration File
- Client Configuration File

After editing the server configuration file, restart DiffDog Server as a service.

For information about restarting DiffDog Server as a service, see:

- Starting and Stopping Services (Linux)
- Starting and Stopping Services (OS X / macOS)
- Starting and Stopping Services (Windows)

3.1 Configuring the Server for Remote Comparisons

To enable remote DiffDog Clients to call DiffDog Server, take the following steps:

- 1. On the server machine, make sure that DiffDog Server is installed, licensed and running (see Setup on Windows, Setup on Linux and Setup on macOS).
- 2. On the server machine, define the HTTP host and port where DiffDog Server should be listening for client requests. By default, DiffDog Server is configured to listen to HTTP connections on the address and port specified in a server configuration file. By editing the server configuration file, you can specify a different address and port. To make DiffDogServer accept incoming connections from other machines, ensure that the http.socket-host parameter is set to 0.0.0.0.

Ensure that the host and port on the server machine are not blocked by the firewall. For example, on a Windows server, you can let an application through the firewall by editing the rules available in **Control Panel\All Control Panel Items\Windows Defender Firewall**.

- 3. Restart DiffDog Server as a service. For instructions, see:
 - Starting and Stopping Services (Linux)
 - Starting and Stopping Services (OS X / macOS)
 - <u>Starting and Stopping Services (Windows)</u>
- 4. Locate the **cmdlclient** subdirectory of the program installation directory and copy it to the client machine. You will find this directory at the following path:

Windows	C:\Program Files\Altova\DiffDogServer2018\cmdlclient
Linux	/opt/Altova/DiffDogServer2018/cmdlclient
OS X / macOS	/usr/local/Altova/DiffDogServer2018/cmdlclient

At minimum, you should copy the executable and the .ini configuration file available in the same directory; other files are optional. If you intend to call DiffDog Server remotely from more than one client machine, then copy the **cmdlclient** directory to each client machine that needs to call DiffDog Server.

If the client machine runs on a different operating system than the server machine, take the following steps:

a) Download the server installation package from the Altova download page (<u>https://www.altova.com/download</u>) and install it on the client operating system. After installation, you will find the client files in the **cmdlclient** subdirectory relative to the program installation directory.

b) Copy the **cmdlclient** subdirectory to another location and uninstall the server package from the client machine.

5. On the client machine, edit the client configuration file so that it points to the address and

port where DiffDog Server listens for HTTP requests. For example, let's assume that DiffDog Server listens on **192.0.2.0** and port **29800**. In this case, edit the client configuration file so that server.host and server.port parameters have these respective values.

On the client machine, you are now ready to call the remote DiffDog Server in order to compare some files or directories. For example, the command below will compare <code>path\to\my\file1.txt</code> on the client with <code>path\to\my\file2.txt</code> on the server, using text comparison mode. Note that, in order for diff command to work correctly, these file paths must actually exist on the client and server machine, respectively.

```
diffdogcmdlclient diff --client-left=path\to\client\file.txt --server-
right=path\to\server\file.txt --mode=text
```

When you run the command, DiffDog Client reads the connection details from the client configuration file, connects to DiffDog Server, and performs the comparison. As stated before, the configuration file must point to a host and port where DiffDog Server is up and running, and listens for HTTP requests.

3.2 Server Configuration File

After installation, DiffDog Server contains a server configuration file called **server_config.ini** located in the application data directory. The application data directory depends on the operating system:

Linux	/var/opt/Altova/DiffDogServer
Mac	/var/Altova/DiffDogServer
Windows 7, 8, 10	C:\ProgramData\Altova\DiffDogServer

To create a DiffDog Server configuration file with the default configuration settings, run the **createconfig** command.

A sample server configuration file is listed below.

[DiffDogServer]
http.access-file= C:\ProgramData\Altova\DiffDogServer2018\Log\access.log
http.enable=True
http.environment= production
http.error-file= C:\ProgramData\Altova\DiffDogServer2018\Log\error.log
http.log-screen= True
http.socket-host=0.0.0.0
http.socket-port=29800
language= en
server.unrestricted-filesystem-access= True
server.log-file= C:\ProgramData\Altova\DiffDogServer2018\Log\server.log
server.output-root-dir= C:\ProgramData\Altova\DiffDogServer2018\output\

server_config.ini

The server configuration file includes the following options.

Option	Description	
http.access-file	Defines the name and location of the HTTP access log file. The access file contains information about access-related activity. It contains information that is useful for resolving connection issues.	
http.enable	Specifies whether DiffDog Server should listen for HTTP requests from clients. Valid values:	
	True	Enable
	False	Disable
		on must be enabled even if the client and server both e machine; otherwise, the client will not be able to vith the server.

Option	Description
http.environment	Sets the environment (development or production). The development production allows for easier debugging compared to the production one. Valid values:
	production Set environment to production.
	development Set environment to development.
http.error-file	Defines the name and location of the HTTP error file. The error file contains errors related to traffic to and from the server. If there are connection problems, this file can provide useful information towards resolving them.
http.log-screen	If you started DiffDog Server with the command debug, and if this option is set to true , then server activity is displayed in the command line console. Otherwise, server activity is not displayed. The log screen is displayed in addition to the writing of log files.
http.socket-host	Defines the address (HTTP interface) on which DiffDog Server should listen for HTTP requests. This should be an IP address from one of the network interfaces configured at the machine or the name localhost . To have DiffDog Server listen on all interfaces, set this value to 0.0.0.0 . If it should listen for local requests only, set this value to 127.0.0.1 .
http.socket-port	Defines the port on which DiffDog Server should listen for HTTP requests.
language	Specifies the language of the command line interface. Valid values are en, de, es, fr, ja (English, German, Spanish, French, and Japanese).
server.log-file	Defines the name and location of the server's log file. This file contains general activity events logged by the server, including licensing events.
server.output-root- dir	Specifies the directory where the output of all submitted jobs is saved.
server.unrestricted- filesystem-access	When set to True (the default value), output files are written directly to the location specified by the user (possibly overwriting existing files of the same name). Setting the value to True is meaningful if the client and server are on the same machine and you want to write the output files to any directory on that machine. If DiffDog Server is configured to accept HTTP requests from remote clients, this setting must be set to False .
	When set to False , output files are written to the output directory (see the server.output-root-dir option).

Client Configuration File 3.3

A client-side configuration file defines various configuration settings that affect comparisons and connectivity between DiffDog Command Line Client and a remote DiffDog Server. You must typically edit the client configuration file in order to achieve the following:

- Set up the communication between DiffDog Command Line Client and a remote DiffDog Server. In this case, the server.address and server.port parameters in the client configuration file must point to the machine where DiffDog Server runs.
- Change the language of the command line interface (for the client).
- Set default values for various options when you run a comparison. For example, if you don't specify a comparison mode (binary, text) when comparing files, the application will use the default comparison mode as it is configured in the client configuration file.
- Define XML filters. An XML filter is useful when you are comparing XML files. It lets you ٠ ignore attributes or elements with a specific name during comparison.
- Define directory filters. When you compare directories, a directory filter lets you include or ٠ ignore files or directories that follow a specific pattern.
- Other configuration options, as further described below. ٠

If you do not need the functionality above, there is no need to set up a client configuration file. Otherwise, you can find a sample client configuration file in the **cmdlclient** subdirectory relative to the program installation directory; it is called **client_config.ini.sample**. To set up your custom configuration file, create a copy of client config.ini.sample and remove the .sample part from the file name.

When you run a comparison, you can set the path to the custom configuration file by setting the --c option. If you do not set the --c option, the DiffDog Command Line Client executable attempts to read the client configuration file from the same directory. If there is no configuration file in the same directory as the executable, the default values as described in the command line help and this documentation apply.

To view the current configuration, run the showcfg command.

The client configuration file includes the options listed below.

[general]	[general]	
Option	Description	
language	Specifies the language of the command line interface (for the client). Valid values are en, de, es, fr, ja (English, German, Spanish, French, and Japanese).	
server.address	Specifies the address of the remote host where DiffDog Server is listening for HTTP requests.	
server.port	Specifies the remote port where DiffDog Server is listening for HTTP requests.	
zip-as-dir	When you run the diff command without setting the <u>zip-as-dir</u> option, the executable will look for it in this configuration file. Set here the	

Option	Description
	default preferred value for this option.
whitespace- mode	When you run the diff command without setting the <u>whitespace-mode</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.

[file-types]

When you run the <u>diff</u> command without specifying a comparison mode through the --mode option (text, binary, or XML), the application decides the comparison mode automatically for each file based on extension (that is, --mode=auto). In the options below, you can define what file extensions should be treated as text, binary, or XML, whenever the comparison mode is not explicitly set.

Option	Description
text	A comma-separated list of file extensions that are treated as text by default.
xml	A comma-separated list of file extensions that are treated as XML by default.
binary	A comma-separated a list of file extensions that are treated as binary by default.

[xml]

Option	Description
ignore- namespace	When you run the diff command without setting the <u>xml-ignore-</u> <u>namespace</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore- prefixes	When you run the diff command without setting the <u>xml-ignore-</u> <u>prefixes</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
resolve- entities	When you run the diff command without setting the <u>xml-resolve-</u> <u>entities</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-text	When you run the diff command without setting the <u>xml-ignore-text</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-case- in-names	When you run the diff command without setting the <u>xml-ignore-</u> <u>case-in-names</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.

Option	Description
ignore-case- in-text	When you run the diff command without setting the <u>xml-ignore-</u> <u>case-in-text</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-markup- attributes	When you run the diff command without setting the <u>xml-ignore-</u> <u>markup-attributes</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-markup- cdata	When you run the diff command without setting the <u>xml-ignore-</u> <u>markup-cdata</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-markup- comments	When you run the diff command without setting the <u>xml-ignore-</u> <u>markup-comments</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-markup- processing- instructions	When you run the diff command without setting the <u>xml-ignore-</u> <u>markup-processing-instructions</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-markup- doctype-decls	When you run the diff command without setting the <u>xml-ignore-</u> <u>markup-doctype</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-markup- xml-decls	When you run the diff command without setting the <u>xml-ignore-</u> <u>markup-xml</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
order-by- elements	When you run the diff command without setting the <u>xml-order-by-</u> <u>elements</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
order-by- attributes	When you run the diff command without setting the <u>xml-order-by-</u> <u>attributes</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
order-by-text	When you run the diff command without setting the $\underline{-xml-order-by-}$ <u>text</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
order-by-list	When you run the diff command without setting the <u>xml-order-by-attribute-list</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option. This must be a named list of attributes defined in the [xml.orderby<name-of-my-list>]</name-of-my-list> group (see below).

[xml.orderby:<identifier>]

This option group represents a named list of XML attributes. When an XML comparison takes place, such a list will cause the XML elements to be ordered by specific attributes before comparison. For an example, see the <u>--xml-order-by-attribute-list</u> option. You can create multiple attribute lists, for example [*xml.orderby:list1*], [*xml.orderby:list2*], and so on. The name of

each attribute list must be unique.

Option	Description
attributes	Enter here the attribute by which XML elements must be ordered before comparison, for example:
	attributes = myattribute
	You can also specify a comma-separated list of XML attributes, for example:
	attributes = attr1, attr2, attr3

[xml.filter:<identifier>]

This option group represents a filter that lets you ignore attributes or elements with a specific name during comparison. You can create multiple such option groups, for example *[xml.filter:filter1]*, *[xml.filter:filter2]*, and so on. The name of each option group must be unique.

Option	Description
ignore- elements	Enter here a comma-separated list of XML elements that should be ignored when this filter is active.
ignore- attributes	Enter here a comma-separated list of XML attributes that should be ignored when this filter is active.
ignore-both	Enter here a comma-separated list of XML elements or attributes that should be ignored when this filter is active.

Once you define a filter in the configuration file, you can supply it at the command line using the --xml-filter option.

[text]

Option	Description
option	
ignore-case	When you run the diff command without setting the <u>ignore-case</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.
ignore-blank- lines	When you run the diff command without setting the <u>ignore-blank-</u> <u>lines</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.

[dir]			
Option	Description		
ignore-case	When you run the diff command without setting the <u>dir-ignore-case</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.		
compare-file- content	When you run the diff command without setting the <u>dir-compare-</u> <u>contents</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.		
compare-sizes	When you run the diff command without setting the <u>dir-compare-</u> <u>sizes</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.		
compare- modification- times	When you run the diff command without setting the <u>dir-compare-</u> <u>mod-times</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.		
ignore- modtime- interval	When you run the diff command without setting the <u>dir-compare-</u> <u>mod-times-ignore-seconds</u> option, the executable will look for it in this configuration file. Set here the default preferred value for this option.		

[dir.filter:<identifier>]

This option group represents a filter that lets you include or ignore files or directories that follow a specific pattern. At the command line, you can specify directory filters using the <u>--directory-filter</u> option. In the configuration file, you can create multiple such option groups, for example [dir.filter:filter1], [dir.filter:filter2], and so on. The name of each option group must be unique. Each option group can contain one or more of the following options:

Option	Description		
ignore-files	A list of file extensions that should be excluded from the comparison (ignored) when this filter is active.		
ignore-dirs	A list of directory names that should be excluded from the comparison (ignored) when this filter is active.		
include-dirs	A list of directory names that should be included in the comparison when this filter is active.		
include-files	A list of file extensions that should be included in the comparison when this filter is active.		
include-archive- files	Windows-specific. Set this value to true if archive files should be included in the filter; false otherwise.		
include_hidden_dir s	Windows-specific. Set this value to true if hidden directories should be included in the filter; false otherwise.		
include_hidden_fil es	Windows-specific. Set this value to true if hidden files should be included in the filter; false otherwise.		

Option	Description		
include-readonly- files	Windows-specific. Set this value to true if read-only files should be included in the filter; false otherwise.		
include_system_dir s	Windows-specific. Set this value to true if system directories should be included in the filter; false otherwise.		
include_system_fil es	Windows-specific. Set this value to true if system files should be included in the filter; false otherwise.		

Note that the application contains a few built-in directory filters (and you don't need to create them since they will be recognized even if you didn't define them in the configuration file). You can however alter the definition of these filters in the configuration file, in which case your filter will override the built-in configuration. The built-in filters are as follows:

Filter identifier	Purpose		
xml	When this filter is active and a directory comparison is performed, files with the following extensions are included in the comparison: *.biz, *.cml, *.dcd, *.dtd, *.ent, *.fo, *.math, *.mml, *.mtx, *.rdf, *.smil, *.svg, *.tld, *.tsd, *.vml, *.vxml, *.wml, *.wsdl, *.xbrl, *.xdr, *.xhtml, *.xml, *.xsd, *.xsl, *.xslt.		
	On Windows, read-only and archive files are included in the comparison.		
text	When this filter is active and a directory comparison is performed, only files with the following extensions are included in the comparison: *.asp, *.c, *.cc, *.cpp, *.cs, *.css, *.cxx, *.h, *.hpp, *.htm, *.html, *.java, *.jsp, *.rc, *.tlh, *.tli, *.txt.		
	On Windows, read-only and archive files are included in the comparison.		
nobinary	When this filter is active and a directory comparison is performed, files with the following file extensions are ignored: a.out, *.a, *.avi, *.bmp, *.chm, *.com, *.dll, *.doc, *.docm, *.docx, *.dot, *.dotm, *.dotx, *.exe, *.gif, *.gz, *.hlp, *.ico, *.ilk, *.jar, *.jpeg, *.jpg, *.lib, *.mdb, *.mid, *.mp2, *.mp3, *.mp4, *.mpeg, *.msi, *.o, *.obj, *.ogg, *.pdb, *.pdf, *.png, *.pps, *.ppt, *.pptx, *.rar, *.snd, *.so, *.tar, *.tif, *.tiff, *.tlb, *.ttf, *.wav, *.wma, *.wmf, *.wmv, *.xls, *.xlsx, *.zip		
cvs	 When this filter is active and a directory comparison is performed, files with the following file extensions are ignored: .#*, .cvsignore, .cvsrc, .cvswrappers, .cvspass, .rhos ts. Also, any directory with the name cvs is ignored. On Windows, read-only and archive files are also included in the comparison. 		
svn	When this filter is active and a directory comparison is performed, any directory with the name .svn is ignored.		
	On Windows, read-only and archive files are included in the comparison.		

Filter identifier	Purpose
git	When this filter is active and a directory comparison is performed, any directory with the name .git is ignored. Also, any file with the name .gitignore is ignored.
	On Windows, read-only and archive files are included in the comparison.

3.4 Starting and Stopping Services (Linux)

To start the service:

[CentOS	6]:	sudo	initctl start diffdogserver
[CentOS	7]:	sudo	systemctl start diffdogserver
[Debian	7]:	sudo	/etc/init.d/diffdogserver start
[Debian	8]:	sudo	systemctl start diffdogserver
[RedHat	6]:	sudo	initctl start diffdogserver
[RedHat	7]:	sudo	systemctl start diffdogserver
[Ubuntu	14]:	sudo	initctl start diffdogserver
[Ubuntu	15]:	sudo	systemctl start diffdogserver

To stop the service:

[CentOS 6]:	sudo initctl stop diffdogserver
[CentOS 7]:	sudo systemctl stop diffdogserver
[Debian 7]:	<pre>sudo /etc/init.d/diffdogserver stop</pre>
[Debian 8]:	sudo systemctl stop diffdogserver
[RedHat 6]:	sudo initctl stop diffdogserver
[RedHat 7]:	sudo systemctl stop diffdogserver
[Ubuntu 14]:	sudo initctl stop diffdogserver
[Ubuntu 15]:	sudo systemctl stop diffdogserver

3.5 Starting and Stopping Services (OS X / macOS)

To start the service:

sudo launchctl load /Library/LaunchDaemons/ com.altova.DiffDogServer.plist

To stop the service:

sudo launchctl unload /Library/LaunchDaemons/ com.altova.DiffDogServer.plist

3.6 Starting and Stopping Services (Windows)

By default, the DiffDog Server services are automatically started when Windows starts. Follow the instructions below if you need to manage services manually.

To start the service:

Click the ServiceController icon () in the system notification area, and then select
 Altova DiffDog Server > Start service.

To stop the service:

• Click the ServiceController icon () in the system notification area, and then select Altova DiffDog Server > Stop service.

You can also start or stop the DiffDog Server services using the Microsoft Management Console (found under Control Panel > Administrative Tools > Services).
Chapter 4

DiffDog Server Command Line

4 DiffDog Server Command Line

This section:

- Default location of DiffDog Server executable
- Usage and list of CLI commands

Default location of DiffDog Server executable

Given below are the default locations of the DiffDog Server executable:

Windows	<pre><programfilesfolder>\Altova\DiffDogServer2018\bin \DiffDogServer.exe</programfilesfolder></pre>
Linux	/opt/Altova/DiffDogServer2018/bin/ diffdogserver
Mac	/usr/local/Altova/DiffDogServer2018/bin/ diffdogserver

Usage and list of CLI commands

General command line syntax for DiffDogServer is:

Windows	DiffDogServerh help version <command/> [options] [arguments]
Linux	diffdogserverh help version <command/> [options] [arguments]
Mac	diffdogserverh help version <command/> [options] [arguments]

Casing and slashes on the command line

```
DiffDogServer on Windows
diffdogserver on Unix (Linux, Mac)
```

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac. * Use forward slashes on Linux and Mac. backslashes on Windows.

where

h help	Displays the help text.
version	Displays the version of DiffDog Server.

Valid CLI commands are listed below and are explained in the sub-sections of this section.

assignlicense	Upload a license to LicenseServer and assign it to DiffDog Server on this machine.	
createconfig	Resets the server configuration file to default settings.	
debug	Starts DiffDog Server for debugging (not as a service).	
<u>exportresourcestrings</u>	Exports all application resource strings to an XML file.	
<u>help</u>	Displays help for a specific command. For example: help run	
<u>install</u>	Installs DiffDog Server as a service.	
<u>licenseserver</u>	Register DiffDog Server with LicenseServer on the local network.	
setdeflang sdl	Sets the default language.	
start	Starts DiffDog Server as a service.	
<u>uninstall</u>	Uninstalls DiffDog Server as a service.	
<u>verifylicense</u>	Check if the current DiffDog Server is licensed; optionally, check if a given license key is assigned.	

4.1 assignlicense (Windows only)

This section:

- Command syntax
- Command description
- Examples
- Command options

Command syntax

Windows DiffDogServer assignlicense [options] FILE

Note: This command is supported only on Windows systems. It is not supported on Linux or Mac systems.

Command description

On execution, the assignlicense command uploads the license file specified by the *FILE* argument to the registered LicenseServer, and assigns the license to DiffDog Server on this machine. The *FILE* argument takes the filepath of the license file.

The --test-only option allows you to upload to LicenseServer and validate the license, without assigning the license to DiffDog Server. *For details about licensing, see the LicenseServer documentation.*

Examples

Examples of the assignlicense command:

```
diffdogserver assignlicense C:\DiffDog Server12345.altova_licenses
diffdogserver assignlicense --test-only=true C:\DiffDog
Server12345.altova_licenses
```

The first command above uploads the specified license to LicenseServer and assigns it to DiffDog Server.

The second command uploads the specified license to LicenseServer and validates it, without assigning it to DiffDog Server.

Casing and slashes on the command line

```
DiffDogServer on Windows
diffdogserver on Unix (Linux, Mac)
```

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac),

while upper-lower (DiffDogServer) works only on Windows and Mac. * Use forward slashes on Linux and Mac, backslashes on Windows.

Command options

Options are listed in their short forms (in the first column) and long forms (second column), together with their descriptions (third column). On the command line, one or two dashes can be used for both short and long forms.

t	test-only	Values are true false. If true, then the license file is only uploaded to LicenseServer and validated. It is not assigned to
		DiffDog Server. Form:test-only=true false. Set to true if the option is specified without a value.

4.2 createconfig

This command creates a server configuration file with default settings for all options. Note that running this command without specifying the --f, --force option will overwrite any existing configuration file. If you do not want that, set the --f, --force option to **false**.

For more information about the configuration file, see Server Configuration File.

Syntax

Windows	DiffDogServer	createconfig	[options]
Linux	diffdogserver	createconfig	[options]
Mac	diffdogserver	createconfig	[options]

Options

Option	Description
f,force	When true , any existing server configuration file will be overwritten. When false , the command will create a server configuration file only if one doesn't exist already. The default value is true .
lang	Sets the value of the language parameter in the configuration file. Valid languages are en, es, de, fr, ja.

Examples

To create a default configuration file and set the command line interface language to German, use:

DiffDogServer createconfig --lang=de

4.3 debug

This section:

- Command syntax
- Command description
- Examples

Command syntax

Windows	DiffDogServer	debug
Linux	diffdogserver	debug
Mac	diffdogserver	debug

Command description

The debug command starts DiffDog Server for debugging—not as a service. To stop DiffDog Server in this mode, press **Ctrl+C**. The command takes no options.

Examples

Examples of the debug command:

diffdogserver debug

Casing and slashes on the command line

```
DiffDogServer on Windows
diffdogserver on Unix (Linux, Mac)
```

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac),

while upper-lower (${\tt DiffDogServer})$ works only on Windows and Mac.

4.4 exportresourcestrings

This section:

- Command syntax
- Arguments
- Command description
- Examples
- Creating localized versions of DiffDog Server

Command syntax

Windows	DiffDogServer exportresourcestrings LanguageCode XMLOutputP	File
Linux	diffdogserver exportresourcestrings LanguageCode XMLOutputh	File
Mac	diffdogserver exportresourcestrings LanguageCode XMLOutput	File

Arguments

The exportresourcestrings command takes the following arguments:

LanguageCode	Specifies the language of resource strings in the exported XML file. Supported languages are: en, de, es, fr, ja	
XMLOutputFile	Specifies the location and name of the exported XML file.	

Command description

The exportresourcestrings command outputs an XML file containing the resource strings of the DiffDog Server application. It takes two arguments: (i) the language of the resource strings in the output XML file, and (ii) the path and name of the output XML file. Allowed export languages (with their language codes in parentheses) are: English (en), German, (de), Spanish (es), French (fr), and Japanese (ja).

Examples

An example of the exportresourcestrings command:

diffdogserver exportresourcestrings de c:\Strings.xml

This command creates a file called strings.xml at c:\ that contains all the resource strings of

the DiffDog Server application in German.

Casing and slashes on the command line

DiffDogServer on Windows diffdogserver on Unix (Linux, Mac)

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac),

while upper-lower (${\tt DiffDogServer})$ works only on Windows and Mac.

* Use forward slashes on Linux and Mac, backslashes on Windows.

Creating localized versions of DiffDog Server

You can create a localized version of DiffDog Server for any language of your choice. Five localized versions (English, German, Spanish, French, and Japanese) are already available in the C:\Program Files (x86)\Altova\DiffDogServer2018\bin folder, and therefore do not need to be created.

Create a localized version as follows:

- Generate an XML file containing the resource strings by using the <u>exportresourcestrings</u> command (see command syntax above). The resource strings in this XML file will be one of the five supported languages: English (en), German (de), Spanish (es), French (fr), or Japanese (ja), according to the *LanguageCode* argument used with the command.
- 2. Translate the resource strings from one of the four supported languages into the target language. The resource strings are the contents of the <string> elements in the XML file. Do not translate variables in curly brackets, such as {option} or {product}.
- 3. Contact <u>Altova Support</u> to generate a localized DiffDog Server DLL file from your translated XML file.
- 4. After you receive your localized DLL file from <u>Altova Support</u>, save the DLL in the c: \Program Files (x86)\Altova\<%APPFOLDER\bin folder. Your DLL file will have a name of the form DiffDogServer2018_lc.dll. The _lc part of the name contains the language code. For example, in DiffDogServer2018_de.dll, the de part is the language code for German (Deutsch).
- 5. Run the <u>setdeflang</u> command to set your localized DLL file as the DiffDog Server application to use. For the argument of the <u>setdeflang</u> command, use the language code that is part of the DLL name.
- **Note:** Altova DiffDog Server is delivered with support for five languages: English, German, Spanish, French, and Japanese. So you do not need to create a localized version of these languages. To set any of these languages as the default language, use DiffDog Server's <u>setdeflang</u> command.

4.5 help

This section:

- Command syntax
- Command description
- Examples
- The --help option

Command syntax

Windows	DiffDogServer	help	Command
Linux	diffdogserver	help	Command
Mac	diffdogserver	help	Command

Command description

The help command takes a single argument (*Command*): the name of the command for which help is required. It displays the correct syntax of the command and other information relevant to the correct execution of the command.

Examples

An example of the help command:

diffdogserver help exportresourcestrings

The command above contains one argument: the command exportresourcestrings, for which help is required. When the example command above is executed, information about the exportresourcestrings command will be displayed in the terminal.

Casing and slashes on the command line

```
DiffDogServer on Windows
diffdogserver on Unix (Linux, Mac)
```

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac.

Help information about a command is also available by using the --help option with the command for which help information is required. For example, using the --help option with the exportresourcestrings command, as follows:

diffdogserver exportresourcestrings --help

achieves the same result as does using the ${\tt help}$ command with an argument of <code>exportresourcestrings:</code>

diffdogserver help exportresourcestrings

In both cases, help information about the export resourcestrings command is displayed.

4.6 install

This section:

- Command syntax
- Command description
- Examples

Command syntax

Windows	DiffDogServer	install
Linux	diffdogserver	install
Mac	diffdogserver	install

Command description

The install command installs DiffDog Server as a service on the server machine. The command takes no options.

Note that installing DiffDog Server as a service, does not automatically start the service. To start the service, use the <u>start</u> command. To uninstall DiffDog Server as a service, use the <u>uninstall</u> command.

Examples

Examples of the install command:

```
diffdogserver install
```

Casing and slashes on the command line

```
DiffDogServer on Windows
diffdogserver on Unix (Linux, Mac)
```

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac.

4.7 licenseserver

This section:

- Command syntax
- Command description
- Examples
- Command options

Command syntax

Windows	DiffDogServer	licenseserver	[options]	Server-Or-IP-Address
Linux	diffdogserver	licenseserver	[options]	Server-Or-IP-Address
Mac	diffdogserver	licenseserver	[options]	Server-Or-IP-Address

Command description

On execution, the licenseserver command registers DiffDog Server with the LicenseServer specified by the *Server-Or-IP-Address* argument. *Server-Or-IP-Address* identifies the machine on the network on which Altova LicenseServer is installed and running. It can be the machine's name or its IP address.

For the licenseserver command to be executed successfully, the two servers must be connected on the network and LicenseServer must be running. You must have administrator privileges to be able to register DiffDog Server with LicenseServer.

Once DiffDog Server has been successfully registered with LicenseServer, you will receive a message to this effect. The message will also display the URL of the LicenseServer. You can now go to LicenseServer to assign DiffDog Server a license. *For details, see the LicenseServer documentation.*

Examples

Examples of the licenseserver command:

```
diffdogserver licenseserver DOC.altova.com
diffdogserver licenseserver localhost
diffdogserver licenseserver 127.0.0.1
```

The commands above specify, respectively, the machine named DOC.altova.com, and the user's machine (localhost and 127.0.0.1) as the machine running Altova LicenseServer. In each case, the command registers DiffDog Server with the LicenseServer on the machine specified.

Casing and slashes on the command line

DiffDogServer on Windows diffdogserver on Unix (Linux, Mac)

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac.

* Use forward slashes on Linux and Mac, backslashes on Windows.

Command options

Options are listed in their short forms (in the first column) and long forms (second column), together with their descriptions (third column). On the command line, one or two dashes can be used for both short and long forms.

j	json	Prints the result of the registration attempt as a machine-parsable JSON
		object. Form:json=true/false

4.8 setdeflang

This section:

- Command syntax
- Command description
- Examples
- Supported languages

Command syntax

Windows	DiffDogServer setdeflang sdl LangaugeCode
Linux	diffdogserver setdeflang sdl LangaugeCode
Mac	diffdogserver setdeflang sdl LangaugeCode

Command description

The setdeflang command (short form is sdl) sets the default language of DiffDog Server. It takes a mandatory LanguageCode argument.

Examples

An example of the setdeflang command:

diffdogserver setdeflang DE

The command above sets the default language for messages to German.

Casing and slashes on the command line

DiffDogServer on Windows diffdogserver on Unix (Linux, Mac)

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac.

* Use forward slashes on Linux and Mac, backslashes on Windows.

Supported languages

The table below lists the languages currently supported together with their language codes.

	EN	English
--	----	---------

DE	German
ES	Spanish
FR	French
JA	Japanese

4.9 start

This section:

- Command syntax
- Command description
- Examples

Command syntax

Windows	DiffDogServer	start
Linux	diffdogserver	start
Мас	diffdogserver	start

Command description

The start command starts DiffDog Server as a service on the server machine. The command takes no options.

Note that, if DiffDog Server is not installed as a service, you can install it with the <u>install</u> command. To uninstall DiffDog Server as a service, use the <u>uninstall</u> command.

Examples

Examples of the start command:

diffdogserver start

Casing and slashes on the command line

DiffDogServer on Windows diffdogserver on Unix (Linux, Mac)

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac.

4.10 uninstall

This section:

- Command syntax
- Command description
- Examples

Command syntax

Windows	DiffDogServer uninstall
Linux	diffdogserver uninstall
Мас	diffdogserver uninstall

Command description

The uninstall command uninstalls DiffDog Server as a service on the server machine. The command takes no options.

To re-install DiffDog Server as a service, use the <u>install</u> command.

Examples

Examples of the uninstall command:

diffdogserver uninstall

Casing and slashes on the command line

DiffDogServer on Windows diffdogserver on Unix (Linux, Mac)

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac.

4.11 verifylicense (Windows only)

This section:

- Command syntax
- Command description
- Examples
- Command options

Command syntax

Windows DiffDogServer verifylicense [options]

Note: This command is supported only on Windows systems. It is not supported on Linux or Mac systems.

Command description

Checks whether the current product is licensed. Additionally, the --license-key option enables you to check whether a specific license key is already assigned to the product. *For details about licensing, see the LicenseServer documentation.*

Examples

Examples of the verifylicense command:

```
diffdogserver verifylicense
diffdogserver verifylicense --license-key=ABCDEFG-HIJKLMN-OPQRSTU-VWXYZ12-
3456789
```

The commands above check, respectively, whether the product has been licensed, and whether the product has been licensed with the license key given as the value of the --license-key option.

Casing and slashes on the command line

```
DiffDogServer on Windows
diffdogserver on Unix (Linux, Mac)
```

* Note that lowercase (diffdogserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (DiffDogServer) works only on Windows and Mac.

Command options

Options are listed in their short forms (in the first column) and long forms (second column), together with their descriptions (third column). On the command line, one or two dashes can be used for both short and long forms.

1	license-key	Checks whether the submitted license key has already been assigned to the product. Form:license-key=VALUE

Chapter 5

DiffDog Client Command Line

5 DiffDog Client Command Line

This chapter describes the commands exposed by the DiffDog Command Line Client.

- <u>diff</u>
- import
- showcfg

To display help for any of these commands directly at the command line, use:

```
DiffDogCmdlClient <command> --help
```

On Linux, use an all-lowercase to call the executable. In addition, on Linux and OS X / macOS, when you are inside the directory of the executable, you might need to add the prefix "./" before the name of the executable.

For the path to the DiffDog Command Line Client (abbreviated as *DiffDogCmdlClient*), see <u>How It</u> <u>Works</u>.

5.1 diff

The diff command performs a side-by-side comparison of two files, directories, or URLs. The entities to be compared can be of different kinds (for example, you can compare a URL like http:// server/file.txt to a file path like C:\file.txt).

This command can also be called using the compare alias. You can use compare and diff interchangeably.

Most often, a comparison involves a "left" side and a "right" side to compare; however, three-way comparisons are also possible when comparing files or URLs (not directories). The files or directories to be compared can be on a machine where DiffDog Client runs or on the remote machine where DiffDog Server runs. A combined approach (comparison of local files or directories with remote ones) is also possible.

Syntax

DiffDogCmdlClient diff [options] [path path [path]]

On Linux, use an all-lowercase to call the executable. In addition, on Linux and OS X / macOS, when you are inside the directory of the executable, you might need to add the prefix "./" before the name of the executable.

For the path to the DiffDog Command Line Client (abbreviated as *DiffDogCmdlClient*), see <u>How It</u> <u>Works</u>.

Arguments

<u>path</u>

A path may be a file or directory path, or a URL path in the format http://server/segment.

Supplying paths as arguments is just one of the two ways to pass input paths to the diff command. The second way to supply paths is by setting the options --client-left, --client-right, or --server-left, --server-right. Use the second approach if DiffDog Client does not run on the same machine as DiffDog Server.

In other words, if you set the options --client-left, --client-right, or --server-left, -server-right, then no paths must be specified as arguments. Otherwise, two paths exactly must be supplied as argument. (To perform a three-way comparison, three paths can be specified as arguments.)

Note that it is valid to compare files with URLs, for example, but not files and directories (or URLs and directories).

Options

The options applicable to the diff command are listed below.

You can specify defaults for most of the options below in the <u>client configuration file</u>. If you use a client configuration file, note the following:

- When an option is set at the command line but it is commented out in client configuration file, the command line option applies.
- When an option is set both at the command line and in client configuration file, the command line option applies.
- When an option is not set at the command line but is set (uncommented) in configuration file, the configuration file option applies.
- When an option is set neither at the command line nor in the configuration file, it takes the default value as described in the command line help and in the documentation below.

--c, --config

This option specifies the path to a client configuration file. For more information, see <u>Client</u> <u>Configuration File</u>.

If you do not set the --c option, the DiffDog Command Line Client executable attempts to read the client configuration file from the same directory. If there is no configuration file in the same directory as the executable, the default values as described in the command line help and this documentation apply.

--cl, --client-left

This option specifies the left side of the comparison (must be a path to a local file or directory).

--cm, --client-middle

This option is applicable in a 3-way comparison. It specifies the local path to the "middle" file (also known as the "common ancestor").

--cr, --client-right

This option specifies the right side of the comparison (must be a path to a local file or directory).

--dc, --dir-compare-contents

This option specifies if directory comparison should compare file contents in addition to any other options that might be set separately (such as file size and modification date). When this option is **false**, the comparison ignores file contents (this will result in a faster, though less accurate, comparison). By default, this option is **false**.

--df, --directory-filter

This option is applicable for directory comparisons. Directory filters enable you to include or exclude certain files or sub-directories from the comparison based on criteria you define. Valid values for this option are directory filters as they are defined in the <u>Client Configuration File</u>, in the **[dir.filter]** group. For example, if the configuration file defines a filter **[dir.filter:svn]**, use the following syntax to set the filter at the command line:

--directory-filter=svn

On Windows, when DiffDog is installed on the same machine as DiffDog Server, you can specify as option value any directory filter that already exists in DiffDog (either built-in or custom). For example, to set the built-in filter "No SVN directories" at the command line, use the following syntax:

--directory-filter="No SVN directories"

To view or create a directory filter in DiffDog:

- 1. On the **Tools** menu, click **DiffDog Options**.
- 2. Click the **Directory Comparison** tab.

For more information about creating directory filters with DiffDog, refer to DiffDog documentation (<u>https://www.altova.com/documentation</u>).

If the filter cannot be found, an error occurs and no comparison takes place.

--di, --dir-compare-mod-times-ignore-seconds

This option is applicable for directory comparisons. It specifies that directory comparison should ignore the given number of seconds (+/-) when comparing modification times. By default, it is set to **0**, which means the comparison will not ignore modification time differences.

--dic, --dir-ignore-case

This option is applicable for directory comparisons. By default, this value is **true**, which means that the comparison ignores the case in file or directory names. For example, a directory "SomeDir" would be equal to "somedir", or a file "somefile.txt" would be equal to "SomeFile.txt" (assuming that their content is also equal).

To take the case of file or directory names into account when comparing, set the option to false.

--ds, --dir-compare-sizes

This option is applicable for directory comparisons. When set to **true**, it specifies that directory comparison should compare files by size. Otherwise, this comparison criterion is ignored. By default, this option is **false**.

--dt, --dir-compare-mod-times

This option is applicable for directory comparisons. When set to **true**, it specifies that directory comparison should compare files within a directory by modification time. Otherwise, this comparison criterion is ignored. By default, this option is **false**.

--ib, --ignore-blank-lines

This option specifies if blank lines should be ignored in comparison. Valid values are **true** and **false**. By default, this value is **false**.

--ic, --ignore-case

This option is applicable to file comparisons. Valid values:

true	Perform a case-insensitive comparison (for example, "A" and "a" are treated as equal).
false	(Default) Perform a case-sensitive comparison (for example, "A" and "a" are not treated as equal).

--m, --mode

This option specifies the comparison type to be performed. Valid values:

auto	(Default) Let the application determine if the supplied arguments are files or directories and set the comparison mode automatically based on file extension. For example, if files are detected to be XML, then an XML comparison is performed. You can always view or change the default mapping between specific file extensions and comparison modes, see <u>Client Configuration File</u> .
binary	Treat files as binary.
text	Treat files as text.
xml	Treat files as XML.

--o, --output-file

This option enables you to write the command output to a text file on the client machine. The value must specify a valid file path on the client machine. Use the --om option to set the output file format.

--om, --output-mode

This option lets you specify the format in which the comparison output is to be created (text or XML). Valid values:

auto	(Default) Let the application decide.	
text	Write output file as text.	
	Note: The optionoutput-mode=text is not supported when comparing XML files. If you set theoutput-mode to text when comparing XML files, no differences will be reported in the standard output. If you additionally set theoutput-file option, a zero-sized output file will be created.	
xml	Write output file as XML.	

--port

This option specifies the port on which DiffDog Server listens for requests. Setting this option is meaningful if DiffDog Server runs on a port other than the default **29800**. As an alternative to setting this option at the command line, you can set it in the <u>Client Configuration File</u>. Note that, if you set this value at the command line, it takes precedence over the one defined in the configuration file.

<u>--q, --quiet</u>

Prevents the standard output from being displayed at the command line. Valid values:

true	Do not display standard output in the terminal window.
false	(Default) Display standard output in the terminal window.

--s, --server-output-file

This option enables you to write the command output to a text file on the server machine. The value must specify a valid file path on the server machine. Use the --om option to set the output file format.

--server

This option specifies the server address on which DiffDog Server listens for requests. Setting this option is meaningful if DiffDog Server runs on a server other than the default **localhost**. As an alternative to setting this option at the command line, you can set it in the <u>Client Configuration</u> <u>File</u>. Note that, if you set this value at the command line, it takes precedence over the one defined in the configuration file.

--sl, --server-left

This option enables you to add a remote path to the comparison. It specifies the left side of the comparison (a path to a file or directory accessible to the server).

--sm, --server-middle

This option enables you to add a remote path to the comparison. It specifies the middle side of the comparison (applicable in a 3-way comparison). The value must be a path to a file or directory accessible to the server.

--sr, --server-right

This option enables you to add a remote path to the comparison. It specifies the right side of the comparison (a path to a file or directory accessible to the server).

--ws, --whitespace-mode

This option is applicable when you compare text and XML files. It defines how whitespace characters should be treated for comparison. Whitespace characters are any of the following: space, tab, carriage return, and line feed. Not specifying this option means that whitespace characters are always relevant for comparison. Otherwise, set one of the following values:

normalize	Text A is equal to Text B if, after normalization, characters in Text A correspond to those in Text B. "Normalization" means that multiple consecutive occurrences of whitespace characters are replaced by a single space character. In addition, the leading and trailing whitespace characters are trimmed for each line of text. If the compared files are XML, the leading and trailing whitespace characters in attribute values are trimmed.	
strip	Text A is considered equal to Text B if, after stripping whitespace characters, characters in Text A correspond to those in Text B. In other words, any whitespace characters are stripped from the text and considered not relevant for comparison. If the compared files are XML, whitespace characters that are outside attribute or element values are disregarded for comparison.	

--xf, --xml-filter

This option is applicable for XML comparisons. An XML filter contains rules that ignore specific XML attributes or elements for comparison. Valid values for this option are XML filters as they are defined in the <u>Client Configuration File</u>, in the **[xml.filter]** group. For example, if the configuration file defines a filter **[xml.filter:ignore-abc-elems]**, use the following syntax to set the filter at the command line:

```
--xml-filter=ignore-abc-elems
```

On Windows, when DiffDog is installed on the same machine as DiffDog Server, you can specify

as option value any XML filter created with DiffDog. To view or define an XML filter in DiffDog, take the following steps:

- 1. On the Tools menu, click Comparison Options.
- 2. Click the XML tab.
- 3. Locate the option Filter out specific elements/attributes, and the click the Ellipsis button .

For more information about creating XML filters with DiffDog, refer to DiffDog documentation (<u>https://www.altova.com/documentation</u>).

If the filter cannot be found, an error occurs and no comparison takes place.

--xicin, --xml-ignore-case-in-names

This option is applicable when comparing XML files. When set to **true**, a case-insensitive comparison of XML identifier names will be performed. For example, let's assume that you want to compare the following XML files:

<book id="1"></book>	<book id="1"></book>

In the listing above, the attribute **ID** is uppercase in the left file and lowercase in the right file. If -xml-ignore-case-in-names=true, case is ignored, so the files above are treated as equal. By default, this option is **false**, which means files such as the ones above are not equal.

--xicit, --xml-ignore-case-in-text

This option is applicable when comparing XML files. When set to **true**, a case-insensitive comparison of non-markup text will be performed. For example, let's assume that you want to compare the following XML files:

<book hardcover="Yes"></book>
<pre><genre>Fiction</genre></pre>

In the listing above, the value of attribute **hardcover** is lowercase in the left file and capitalised in the right file. The same is true for the value of the **genre** element. To treat these two files as equal, set --xml-ignore-case-in-text=true. By default, this option is **false**, which means files such as the ones above are not equal.

--xima, --xml-ignore-markup-attributes

This option is applicable when comparing XML files. Valid values:

true	Ignore XML attributes when comparing.
false	(Default) Take XML attributes into account when comparing.

--ximc, --xml-ignore-markup-comments

This option is applicable when comparing XML files. Valid values:

true Ignore XML comments when comparing. false (Default) Take XML comments into account when comparing.	
---	--

--ximcd, --xml-ignore-markup-cdata

This option is applicable when comparing XML files. Valid values:

true	Ignore XML character data (CDATA) when comparing.
false	(Default) Take XML CDATA into account when comparing.

--ximd, --xml-ignore-mark up-doctype

This option is applicable when comparing XML files. Valid values:

true	Ignore XML DOCTYPE declaration when comparing.
false	(Default) Take XML DOCTYPE declaration into account when comparing.

--ximpi, --xml-ignore-markup-processing-instructions This option is applicable when comparing XML files. Valid values:

true	Ignore XML processing instructions when comparing.
false	(Default) Take XML processing instructions into account when comparing.

--ximx, --xml-ignore-markup-xml

This option is applicable when comparing XML files. Valid values:

true	Ignore XML declarations when comparing.
false	(Default) Take XML declarations into account when comparing.

--xins, --xml-ignore-namespace

This option is applicable when comparing XML files. When set to **true**, XML namespaces will be ignored. By default, this option is **false**.

--xip, --xml-ignore-prefixes

This option is applicable when comparing XML files. When set to **true**, XML prefixes will be ignored. By default, this option is **false**.

--xit, --xml-ignore-text

This option is applicable when comparing XML files. When set to **true**, the text content of XML nodes will be ignored for comparison. This is useful if you want to compare only the structure of two XML files, disregarding the actual node content. By default, this option is **false**.

--xoba, --xml-order-by-attributes

This option is applicable when comparing XML files. Set this option to **true** if you want all XML attributes to be ordered before comparison. For example, let's assume that you want to compare the following two XML files:

<book author="Franz Kafka" metamorphosis"<="" th="" the="" title="The</th><th><book title="></book>	
Metamorphosis"/>	<pre>author="Franz Kafka"/></pre>

In the listing above, the order of attributes is different in both files, although the attributes are the same. If you set the option --xml-order-by-attributes to **true**, the application will order attributes before comparison, and, consequently, the files will be reported as equal. The default value is **false**, meaning that files are not equal if the order of attributes is not the same.

--xobe, --xml-order-by-elements

This option is applicable when comparing XML files. Set this option to **true** if you want all XML elements to be ordered before comparison. For example, let's assume that you want to compare the following two XML files:

<book></book>	<book></book>
<author>Franz Kafka</author>	<title>The Metamorphosis</title>
<title>The Metamorphosis</title>	<author>Franz Kafka</author>

In the listing above, the left and right files contain exactly the same elements, only in a different order. If you set the option --xml-order-by-elements to **true**, the application will order all elements before comparison, and consequently, the files will be reported as equal. The default value is **false**, meaning that files are different if the order of elements is different.

--xobl, --xml-order-by-attribute-list

This option is applicable when comparing XML files. There are instances where multiple elements have exactly the same name and attributes, but attribute values are different. To sort by specific attributes before comparing, set this option to a named list of attributes created in the <u>Client</u> <u>Configuration File</u>, in the **[xml.orderby:<name_of_your_list>]** group.

For example, let's assume that you want to compare the following two XML files:

```
<data>
        <data>
        <data>
        <data>
        <phone type="work" ext="111"/>
        <phone type="work" ext="333"/>
        <phone type="work" ext="111"/>
        <phone type="work" ext="333"/>
        <phone type="work" ext="111"/>
        <phone type="work" ext="111"/>
        <phone type="work" ext="222"/>
        </data>
```

In the listing above, the left and right files are not equal. However, if you ordered all **phone** elements by **ext** attribute, then the files would become equal. To make such comparisons possible, first modify the client configuration file as follows:

```
;; an example attributes list
[xml.orderby:mylist]
attributes = ext
```

You can now run the diff command with the option --xml-order-by-attribute-list=mylist. When you do this, the application orders elements by **ext** attribute, and, as a result, the files are reported as equal. If the option --xml-order-by-attribute-list is not set, files such as the ones above would be reported as NOT equal.

As an alternative, to order by all attributes, set the option --xml-order-by-attributes=true instead of setting this option.

Note: If you set the --xml-order-by-attribute-list option, make sure to also set the -xml-order-by-elements=true.

On Windows, when DiffDog is installed on the same machine as DiffDog Server, you can set this option to a custom attribute list created in DiffDog. To view or create a custom attribute list in DiffDog:

- 1. On the Tools menu, click Comparison Options.
- 2. Click the **XML** tab.
- 3. Select the **Ignore order of child nodes** check box.
- 4. Click **Specific attributes**, and then click the **Ellipsis** button.

For more information about creating custom attribute lists with DiffDog, refer to DiffDog documentation (<u>https://www.altova.com/documentation</u>).

--xobt, --xml-order-by-text

This option is applicable when comparing XML files. There are instances where multiple elements have exactly the same name and attributes; only the text of elements is different. Set this option to **true** if you want to order such elements by their inner text before comparison. For example, let's assume that you want to compare the following files:

<data></data>	<data></data>
<pre><phone type="mobile">111</phone></pre>	<pre><phone type="mobile">222</phone></pre>
<pre><phone type="mobile">222</phone></pre>	<pre><phone type="mobile">111</phone></pre>

In the listing above, the left and right files are not equal. However, if you set the option --xmlorder-by-text to **true**, the application would order elements by their text, and, as a result, the files would be reported as equal. The default value is **false**, meaning that ordering of elements by text does not take place, and files such as the ones above are not equal.

Note: If you set the --xml-order-by-text option, make sure to also set the --xml-order-byelements=true.

--xre, --xml-resolve-entities

This option is applicable when comparing XML files. When set to **true**, then all entities in the document are resolved. Otherwise, the files are compared with the entities as is. By default, this option is **false**.

--zd, --zip-as-dir

This option is applicable when comparing ZIP files. When set to true, ZIP files will be treated as directories instead of binary files. By default, this option is **false**.

Handling the output

When you run a comparison, you can view the comparison result directly at the command line, or output it to a report in XML or text format. Set the --output-mode option to specify the output

format. Set the --output-file option to redirect the output to a file.

Note: When you compare files in binary mode (that is, when the option --mode=binary), DiffDog Server creates no output report, since listing differences is not meaningful for binary files. In such cases, check the %ERRORLEVEL% environment variable to view the comparison outcome.

Error level	Meaning
0	Files are equal
1	Differences exist
2	An error has occurred

For example, the following Windows batch script compares two PDF files in binary mode. The % ERRORLEVEL% environment variable outputs the comparison outcome.

```
DiffDogCmdlClient diff "C:\book1.pdf" "C:\book2.pdf" --m=binary
ECHO %ERRORLEVEL%
```

Examples

To compare only local files or directories, supply them as arguments to the diff command. In this case, if you supply two arguments (for example, two file paths) to the diff command, the arguments will be interpreted in the following order: left side of the comparison, right side of the comparison.

DiffDogCmdlClient diff file1.txt file2.txt --mode=text

If you specify three arguments, a three-way comparison takes place, and the arguments are interpreted in this order: left side of the comparison, middle side, and then right side.

DiffDogCmdlClient diff file1.xml file2.xml file3.xml --mode=xml

Note: While not mandatory, for best results it is recommended to explicitly set the --mode option to either text, binary, or xml. Otherwise, the application would need to determine automatically whether you are comparing files or directories, which may lead to undesired results. In the first example above, the comparison mode is set to text since two text files are being compared. In the second example, it is set to xml since three XML files are being compared.

Alternatively, you can specify the left and right side of the comparison through options instead of arguments. For example, the command below compares two XML files on the machine where DiffDog Client runs, and both file paths are supplied as options (not arguments):

DiffDogCmdlClient diff --client-left=file1.xml --client-right=file2.xml

When the comparison paths are set as options, you can compare not only files local to the client

machine, but also remote files on the machine where DiffDog Server runs. For example, the command below compares two text files where the left one is on the client and the right one is on the server.

DiffDogCmdlClient diff --client-left=file1.txt --server-right=file2.txt

Note: The path syntax must be valid for the operating system where the file is. For example, if the client runs on Windows and the server runs on Linux, then a Windows-style path must be used for --client-left. Conversely, a Linux-style path must be used for -- server-right.

To perform a three-way comparison, add a third option (either --client-middle or --servermiddle, depending on where the common ancestor file is). In the example below, the common ancestor file **file2.csv** is on the server machine while the left and right files (**file1.csv**, **file3.csv**) are on the client machine.

```
DiffDogCmdlClient diff --client-left=file1.csv --server-middle=file2.csv --
client-right=file3.csv
```

5.2 import

The import command runs a comparison provided that it is given a ***.dirdif** (directory comparison) or ***.filedif** (file comparison) file as argument. You can create such files with Altova DiffDog desktop application (<u>https://www.altova.com/diffdog</u>), by saving any file or directory comparison to a .filedif or .dirdif file.

When you run this command, the outcome of the comparison is reported by the return error code (0 = no differences, 1 = differences, 2 = error), similar to how it works with the diff command. The output is displayed directly at the command line, unless you suppress it with the --quiet option. You can optionally redirect the output (the comparison result) to a report file in XML or text format. The path of the report file is defined from the graphical user interface of DiffDog desktop application. Namely, in DiffDog, you can set the output path of a **.filedif** or **.dirdif** comparison as follows:

- 1. Open an existing .dirdif or .filedif file (or create a new comparison) in DiffDog.
- 2. On the Tools menu, click Comparison Document Options.
- 3. Do one of the following:
 - a. To use no redirection to a file, click **No Export** (this is the default option).
 - b. To redirect the report to a text file, click **Text file**, and then enter the path in the adjacent text box.
 - c. To redirect the report to an XML file, click **XML file**, and then enter the path in the adjacent text box.
- 4. On the **File** menu, click **Save As**, and then save the comparison as .filedif (or .dirdif, if applicable).

You can now run the .filedif or .dirdif file with DiffDog Server, as shown below.

Syntax

```
DiffDogCmdlClient import comparison-file1 [comparison-file2 [comparison-fileN]]
```

The import command can also be called using the load alias. You can use import or load interchangeably.

On Linux, use an all-lowercase to call the executable. In addition, on Linux and OS X / macOS, when you are inside the directory of the executable, you might need to add the prefix "./" before the name of the executable.

Arguments

comparison-file

Specifies the path to a comparison file in .dirdif or .filedif format. The path of the comparison file can be absolute or relative to the current working directory. You can supply as many comparison files as arguments as required. This is limited only by the number of input characters supported by your command shell.

Options

--quiet, --q

Prevents the standard output from being displayed at the command line. Valid values:

true	Do not display standard output in the terminal window.
false	(Default) Display standard output in the terminal window.

Example

Assuming that you would like to run the comparison file C:\DiffDog\Comparison1.filedif, use the following command:

DiffDogCmdlClient import C:\DiffDog\Comparison1.filedif

Assuming that you would like to run the comparison file **Comparison1.filedif** and **Comparison2.dirdif** (both located in **C:\DiffDog** directory), use the following command:

```
DiffDogCmdlClient import C:\DiffDog\Comparison1.filedif C:\DiffDog \Comparison2.dirdif
```

5.3 showcfg

The showcfg command outputs all the current DiffDog Client options in a human readable form. The listed options are grouped into the following categories:

- Application This group lists any options that you've defined in the <u>client configuration</u> file
- **Registry** (Windows-specific) This group lists options that exist in the Windows registry. This is the case if DiffDog is installed on the same machine. Any custom XML or directory filters that you created in DiffDog also appear here, see the <u>--directory-</u> <u>filter</u> and <u>--xml-filter</u> options. Any "order by" attribute lists that you created in DiffDog also appear here, see the <u>--xml-order-by-attribute-list</u> option.
- **Built-In** This group lists options that are built into the executable. The application will default to these options when no others exist.

Syntax

DiffDogCmdlClient showcfg [options] [all]

On Linux, use an all-lowercase to call the executable. In addition, on Linux and OS X / macOS, when you are inside the directory of the executable, you might need to add the prefix "./" before the name of the executable.

Arguments

all Output all configuration options. This argument is optional.

Options

The options applicable to the showcfg command are listed below.

--c, --config

This option specifies the path to a client configuration file. For more information, see <u>Client</u> <u>Configuration File</u>.

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