

# ***Installation and Configuration Guide***

## ***Oracle AutoVue 20.1, Desktop Deployment***

ORACLE

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# **Preface**

The *Oracle AutoVue Installation and Configuration Manual* describes how to install and configure Oracle AutoVue Desktop Deployment. For the most up-to-date version of this document, go to the AutoVue Documentation Web site on the Oracle Technology Network at <http://www.oracle.com/technetwork/documentation/autovue-091442.html>.

## **Audience**

The *Oracle AutoVue Installation and Configuration Manual* is directed at any user of Oracle AutoVue Desktop Deployment.

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## **Related Documents**

For more information, see the following documents in the Oracle AutoVue documentation library:

- *User's Manual*
- *AutoVue Viewing Configuration Guide*
- *Release Notes*
- *Acknowledgments*
- *Supported Formats List*
- *Product Variations - Feature Matrix*

# Conventions

The following text conventions are used in this document:

| Convention                       | Meaning  |
|----------------------------------|--|
| <b>boldface</b>                  | Boldface type indicates graphical user interface elements associated with an action, or terms defined in the text.   |
| <i>italic</i>                    | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.  |
| monospace                        | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.   |
| [root directory]\[sub directory] | In Windows and Linux OSes, directory hierarchy is written with backward slashes (\) and forward slashes (/), respectively. In this document, unless mentioned otherwise, directory hierarchy for Windows and Linux OSes are written with the backward slash. |
| <angular brackets>               | Indicates required entries but are not to be included in the entered information.  |
| {curly braces}                   | Indicates mandatory information.   |
| [square brackets]                | Indicates optional syntactical elements.   |
|                                  | Indicates an either-or type of choice.   |
| ...                              | Indicates that information may be repeated.  |

# **Introduction**

AutoVue is Oracle's suite of Enterprise Visualization solutions, which are designed to view, digitally annotate and collaborate on any digital information from any system. AutoVue delivers visualization capabilities for hundreds of document types, including business documents such as Office and Graphics, as well as technical document types such as 2-D/3-D Computer Aided Design (CAD) and Electronic Design Automation (EDA).

AutoVue Desktop Deployment is a solution for users that want to run AutoVue locally as a personal productivity tool on their individual desktops.

For current users of AutoVue Desktop Version that plan to move to AutoVue Desktop Deployment, a migration guide is available to plan and assist with the migration. Contact your Oracle Customer Support representative to obtain a copy of the migration guide.

This document provides instructions for installing and configuring AutoVue Desktop Deployment. In the remainder of this document, AutoVue Desktop Deployment will be referred to as AutoVue.

# Upgrading AutoVue

If you are upgrading AutoVue from version 20, all of your configuration files are automatically migrated. The installer will notify that you have version 20 installed. If you proceed with the installation, the installer will backup required settings, uninstall version 20, install version 20.1 and restore backed up settings. Below is a list of configuration settings that are migrated:

- User INI file, default.ini and allusers.ini files
- Configuration settings from VueCore.ini and autovue.properties are migrated into autovue.properties.

**Note:** In version 20.1, parameters from VueCore.ini have been moved to autovue.properties file located in the <AutoVue Installation folder>\bin directory. For more information on these migrated options, refer to the *Release Notes*.

- Customized GUI files (located in the <AutoVue Installation Directory>\bin\Profiles directory)
- Global user settings from the allusers.ini file and default user settings from the default.ini file (located in the <AutoVue Installation Directory>\bin directory)
- Custom logging settings from the log4j.xml file (located in the <AutoVue Installation Directory>\bin directory)
- Custom markup symbol libraries (located in the <AutoVue Installation Directory>\bin\Symbols directory)
- Markup files (located in the <AutoVue Installation Directory>\bin\Markups directory)

## Markups

The location where markups are saved has changed in version 20.1. In 20.1, by default, markups are stored in an avred folder at the location of the base file. Alternatively, option *autovue.markups.local.directory* can be set to a folder where all markups created by the user will be stored. AutoVue no longer relies on markups.map to map markup files to base files. AutoVue relies on the name of the base file to locate markups. Markups are saved with the name <basefile name>.<extension specified by user>.

When upgrading from version 20.0, markups located at <AutoVue installation directory>\bin\Markups are backed up and migrated to version 20.1. AutoVue 20.1 detects these migrated markups. When you open these markups and resave them, markups are saved with the version 20.1 behaviour, i.e., they are saved either into the avred folder or at the location specified by *autovue.markups.local.directory*.





# System Requirements

Oracle AutoVue Desktop Deployment is certified on the following platforms:

- Windows XP—32-bit
- Windows Vista—32-bit and 64-bit (AutoVue running in 32-bit mode)
- Windows 7—32-bit and 64-bit (AutoVue running in 32-bit mode)

## Hardware Requirements

The recommended requirements for a machine running AutoVue Desktop Deployment is as follows:

- 2 GB of RAM

**Note:** AutoVue is a 32-bit application. Generally, 32-bit processes are limited to 2 GB of RAM. However, the AutoVue Desktop Deployment executable is large address aware. This means that if AutoVue is running on a 64-bit OS that has 4 GB of RAM, AutoVue can use up to 4 GB of RAM. If AutoVue is running on a 32-bit machine that is booted up with the 3 GB switch, and the machine has 3 GB of RAM, AutoVue can use up to 3 GB of RAM.
- 2 GHz dual-core CPU
- Display driver that supports OpenGL and has dedicated memory (required for 3D support).
- 400 MB of disk space for installation.
- 6 GB of free disk space:
  - 4 GB needed for storing cached files
  - Remainder needed by AutoVue to store temporary files (at the %TEMP% path).
- If streaming file generation is enabled, you must ensure that the disk space specified by `autovue.cache.size` is available to AutoVue.

Refer to section "Configuring AutoVue" for more information on streaming files.

# AutoVue Installation

## Planning

AutoVue, by default, installs at *C:\Oracle\AutoVue Desktop Deployment*. AutoVue must have write permissions to the installation path in order to start up successfully since it stores markup symbols, markups, profiles, and cache data in sub-folders at the installation path. On Windows 7 and Windows VISTA Operating Systems that have User Access Control (UAC) enabled, ensure that AutoVue is installed in a directory where the user has write permissions.

If UAC is enabled on the system, the installer notifies you that UAC is enabled and reminds you to install into a location where the user has write permissions.

## Pre-requisites


- The installer for AutoVue also installs the AutoVue Document Converter print driver. Ensure that the print spooler service is enabled and that you have permissions to install print drivers on the machine where you will install AutoVue.
- The machine that is running AutoVue must have a color depth of at least 16-bits. If the machine has a lower color depth, you may run into discrepancies in color or filling when viewing, printing or converting from AutoVue.
- AutoVue stores temporary files at the user's %TEMP% directory. These files are generated by AutoVue while processing files and are generally removed once the processing is complete. Ensure that the user running AutoVue has a temporary directory defined and is able to write to the temporary directory.


## Installing AutoVue

**Note:** If you want to install AutoVue in non-interactive mode, refer to "Non-Interactive Installations".

To install AutoVue, do the following:

- 1 Download the Oracle AutoVue Media Pack and extract its contents.
- 2 Close all applications before you start the installation for AutoVue.
- 3 Run the AutoVue installer executable *InstallDesktopDeployment.exe* that is located in folder *DesktopDeployment*.
- 4 Select a language from the installation dialog and then click **OK**.
- 5 Click **Next** to begin installation.
- 6 If the installer detects version 20.0 installed on the machine, it prompts if you want to upgrade your installation. If you choose to not upgrade, the installer will exit. You must backup required data manually, uninstall 20.0 and then re-run the installer.  
If you choose to upgrade, the installation will continue. It will install to the same location as 20.0.
- 7 Specify the installation directory and then click **Next**.  
**Example:** C:\Oracle\AutoVue Desktop Deployment
- 8 Select an installation set and then click **Next**:

| Installation Set  | Description  |
|---|--|
|  <b>Standard</b> | Installs the most common AutoVue features. Note that this set does not install the sample drawing files or API examples. |

| Installation Set  | Description  |
|---|--|
|  <b>Custom</b> | You can select the features to install. Select this installation set to install the sample drawing files and API examples. |

If you selected the **Custom** install set continue to step 7, otherwise proceed to step 8.

- 9 Select which of the following features to install and then click **Next**:

| Option                              | Description   |
|-------------------------------------|---|
| <b>Program Files</b>                | Installs Oracle AutoVue. The option is selected by default.   |
| <b>Administration Documentation</b> | Installs Oracle AutoVue system administration documentation. The option is selected by default.       |
| <b>User Documentation</b>           | Installs AutoVue end-user documentation. The option is selected by default.                           |
| <b>Sample Files</b>                 | Installs drawing sample files.  |
| <b>API Examples</b>                 | Installs examples of how Oracle AutoVue features can be added to third-party applications using APIs. |

- 10 Select one of the following locations to create shortcuts and then click **Next**.

| Options                             | Description  |
|-------------------------------------|--|
| <b>In a new Program Group</b>       | Creates a shortcut in the Program group of the <b>Start</b> menu. For example, Oracle AutoVue. This is the default option. |
| <b>In an existing Program Group</b> | Adds a shortcut to an existing Program group. For example, Accessories.  |
| <b>In the Start Menu</b>            | Adds a shortcut in the Start menu.   |
| <b>On the Desktop</b>               | Adds a shortcut on the Desktop.  |
| <b>In the Quick Launch Bar</b>      | Adds a shortcut to the Quick Launch bar.   |
| <b>Other</b>                        | Adds a shortcut to the specified location.   |
| <b>Don't create icons</b>           | Shortcuts are not created.   |

To create icons for all users of AutoVue, select **Create Icons for All Users**.

- 11 Review the pre-installation summary and then click **Install**.

- 12 Click **Done** to quit the installer.

AutoVue is installed in the specified directory. Start AutoVue to verify that your installation went through successfully. Refer to section "Starting AutoVue" for more information.

**Note:** If there are any warnings or errors, refer to the installation log file, `install.log`, located in the <AutoVue Installation Folder> directory.


## Starting AutoVue

To verify your AutoVue installation start up AutoVue by doing one of the following:


- From the program shortcuts, select **Oracle AutoVue Desktop Deployment** and then **Start AutoVue**.

or

- Run autovue.exe located in the <AutoVue Installation Directory>\bin directory.

AutoVue loads and the AutoVue icon  appears in the system tray.

**Note:** On machines that have firewall enabled, a pop-up appears asking if you want to block or unblock the program. AutoVue will work fine no matter what option you choose.

If you close the AutoVue window, it continues to run in the background. To close AutoVue completely, right-click the AutoVue icon  in the system tray and select **Close**.

**Note:** If AutoVue does not load, enable logging and contact Oracle Customer Support. For information on enabling logging, refer to section *"Logging for AutoVue"*.

## File Associations

You can associate AutoVue with certain file types so that when you double-click on a file of this type, it opens in AutoVue.

Below are the ways to associate file types with AutoVue:

- 1 From Windows explorer:
  - When you double-click on a file that is not associated with another application, you will be prompted with the **Open With** dialog where you can specify the application with which to open the file. Select **AutoVue Desktop Deployment** from the list of programs and then select **Always use the selected program to open this kind of file**.
  - If a file type is associated with an application, right click on the file and select **Open With** and then select **AutoVue Desktop Deployment** from the list of programs. Select the **Always use the selected program to open this kind of file** checkbox.

- 2 Programmatically:

You can create a batch file to associate file types with AutoVue. Create a batch file with following content:

```
@assoc .ext=AVFile
@ftype AVFile="%~dp0autovue.exe" "%*1"
```

Replace .ext with the file extension that you want to associate with AutoVue. Repeat this line for all extensions that you want to associate with AutoVue.

For example:

```
@assoc .dwg=AVFile
@assoc .dgn=AVFile
@assoc .pdf=AVFile
@ftype AVFile="%~dp0autovue.exe" "%*1"
```

Run this batch file to associate the specified file extensions with AutoVue.

# Command-Line Options for AutoVue

AutoVue supports the following command line options:

- You can specify an alternative configuration file for AutoVue, by specifying the `-config` parameter.  
**Syntax:** `autovue.exe -config <fullpath to config file>`  
**For example:**  
`autovue.exe -config "C:\users\avuser\appdata\autovue\autovue.properties"`
- You can specify a filename to load when starting AutoVue by specifying the full path to the file on the command line.

**For example:**

```
autovue.exe C:\samples\2D\AutoCAD.dwg
```

**Note:** You can specify multiple files as command line options. AutoVue opens the specified files in new child windows.

**Note:** By default, the file opens in a new window. To change this behavior, you must set `NEWWINDOW` parameter to `FALSE` in `autovue.properties`. Refer to section "Configuring AutoVue" for more information.

**For example:**

```
autovue.exe C:\samples\2D\AutoCAD.dwg C:\samples\3D\Solidworks.sldprt
```

# Configuring AutoVue

You can configure AutoVue by modifying **autovue.properties** located in the <AutoVue Installation Directory>\bin directory. Configuration parameters include configuring the maximum memory available to AutoVue, location of markups, cache and profiles, GUI file to use on startup, new window behavior, and so on. Changes to **autovue.properties** will take effect when AutoVue is restarted. Refer to the following table for the list of configuration parameters:

**For Example:** C:\Program Files\Oracle\AutoVue Desktop Deployment\bin

The following table lists the parameters that can be configured.

| Property  | Description  | Default                                       |
|---|--|---|
| <b>Main Options</b>                             |  |   |
| autovue.inifile = <i>file name</i>              | Specify the INI file where AutoVue stores information on the file formats supported by AutoVue. We recommend that you do not change this option value.<br><b>Note:</b> AutoVue also saves certain memory management settings in this file. We recommend that you do not modify these options or the file (VueCore.ini).  | VueCore.ini                                   |
| <b>User Profiles Options</b>                    |  |   |
| autovue.users.directory = <i>file path</i>      | Contains the directory in which user information is stored (initialization files and GUI files). The user must have write permissions to the folder.<br>AutoVue creates an <username>.ini file for every user that accesses AutoVue. This file is stored at the location specified by the autovue.users.directory parameter.   | <AutoVue installation directory>\bin\Profiles |
| autovue.users.defaultini = <i>file name</i>     | AutoVue provides a way to force certain INI settings to the user INI the first time the user accesses AutoVue. This is done by setting the required options in the default.ini file or in the file specified by autovue.users.defaultini parameter. This file should be located at <AutoVue Installation Directory>\bin directory.   | default.ini                                   |
| autovue.users.allusersini = <i>file name</i>    | AutoVue provides a way to force INI settings to the user profile every time a user accesses AutoVue. This is done by setting required options in allusers.ini (or the files specified by autovue.users.allusersini). This file should be at <AutoVue Installation Directory>\bin\Profiles directory.   | allusers.ini                                  |
| <b>Proxy Options</b>                            |  |   |
| autovue.http.proxyhost<br>autovue.ftp.proxyhost | If a file requires resources from the Internet, AutoVue must connect to the Internet to retrieve the required resources. If the machine that AutoVue is installed on uses a proxy server to connect to the Internet, you must set the proxy setting to allow the request to go through.<br><b>For example:</b><br>autovue.http.proxyhost=my.proxyserver.com:80<br>autovue.ftp.proxyhost= my.proxyserver.com:80 |   |

## Startup Options

|   |   |  |
|---|---|--|
| autovue.classpath                                       | Specifies the classpath needed for AutoVue to startup successfully.<br>We recommend that you do not change this parameter.  |  |
| autovue.jre   | Specifies the path to the java executable used by AutoVue.<br>We recommend that you do not change this value.   | <AutoVue installation directory>\jre\bin\java.exe  |
| autovue.jre.path  | Specifies the path to the JRE used by AutoVue.<br>We recommend that you do not change this value.   | <AutoVue installation directory>\jre   |
| autovue.cmdline   | Specifies the command line parameters for AutoVue. You can modify memory settings for AutoVue, modify the log4j configuration and specify additional commands here using the -Param flag. Do not modify other values.<br>Refer to section "Command-Line Parameters" for more information. |  |
| autovue.splash= <i>full path of PNG/JPEG</i>            | Specify the splash screen to display while AutoVue starts up. If the full path of the PNG or JPEG is not specified, the splash screen does not display.   |  |
| autovue.help.file.< <i>language</i> >= <i>file path</i> | Entry specifies the file path to the English (en)/French (fr)/German (de)/Japanese (ja) Help file.  | <AutoVue installation directory>\html\help\< <i>language</i> >\AutoVueOnlineHelp.html<br><b>For example:</b><br><AutoVue installation directory>\html\help\en\AutoVueOnlineHelp.html |

## Markup Options

|   |   |   |
|---|---|---|
| autovue.markup.nativegui.type = [0 1 2 3 4 7]       | Add Author, Date, and Markup Info columns to the Markup Files dialog box.<br><b>0:</b> Name column displays<br><b>1:</b> Enable Author<br><b>2:</b> Enable Date<br><b>4:</b> Enable Markup Info<br><b>Note:</b> These are ORed flags. For example: Enter <b>7</b> to enable all three columns.  | 0   |
| autovue.markups.local.directory = <i>file path</i>  | In version 20.1, markup files are saved with the name < <i>base file name</i> >.< <i>end-user specified extension</i> >.<br>By default, AutoVue Desktop Deployment saves markups in the avred directory at the base file location. If the user does not have permission to write into the base file location, they can export the markup into an alternate directory.<br>Alternatively, user can set this property autovue.markups.local.directory to a location where all markup files should be stored.<br><b>Note:</b> If you change the markup save location, markups previously saved at the old location will not be detected by AutoVue. You will need to import the markups manually and save the markups so that they are saved at the new location. | No default value; markups are stored at: <Base file location>\avred |
| autovue.markups.symbols.directory= <i>file path</i> | Specifies the directory where AutoVue stores all symbol libraries and symbol files.   | <AutoVue Installation Directory>\bin\Symbols.                       |

## Streaming File Options

|  |   |   |
|--|---|---|
| autovue.metacache.enable<br>=[TRUE FALSE]  | Specifies whether to generate streaming files.<br>When set to TRUE, streaming files are stored in the location specified by the autovue.cache.directory parameter.  | FALSE                                   |
| autovue.metacache.pdf.enable<br>=[TRUE FALSE]  | Set to TRUE to enable generation of streaming files for PDF documents.<br><b>Note:</b> Option autovue.metacache.enable must be set to TRUE for this option to take effect.  | FALSE                                   |
| <b>Note:</b> The following options take effect set if autovue.metacache.enable=TRUE. |   |   |
| autovue.cache.directory =<br><i>file path</i>  | Specifies in which directory the cached files should be saved. A central cache information file named <b>cache.map</b> is stored in the same directory. The user must have write permissions to the folder.   | <AutoVue installation folder>\bin\Cache |
| autovue.cache.size = <i>int</i>  | Specifies, in Megabytes, the maximum size of the file cache. If not specified, or if value specified is less than 50 MB, the default value of 4GB is used.  | 4096                                    |
| autovue.cache.maxnumfiles= <i>integer</i>  | Specifies the maximum number of files allowed in the cache directory.   | 64000                                   |
| autovue.cache.maxlifetime<br>= <i>integer</i>  | Specifies the maximum number of days a file is kept in the AutoVue cache directory.   | 30 (days)                               |
| autovue.rmi.port = <i>port value</i>   | By default, RMI port is not used. If you enable streaming file generation (autovue.metacache.enable=true), AutoVue uses the RMI port specified by this parameter. You may need to change this parameter in situations where another application uses the same port or if company policy restricts the range of ports you can use. | 1299                                    |
| docserver.cmdline  | Specifies the command line parameters for AutoVue's streaming file generator. We recommend that you do not change these files (other than log4j configuration)  |   |

## Changing the Locale of AutoVue

AutoVue supports the following languages for the user interface:

- English (EN)
- French (FR)
- German (DE)
- Japanese (JA)
- Traditional Chinese (TW)
- Simplified Chinese (ZH)
- Korean (KO)

On startup, AutoVue detects if the language of the OS is one of its supported locales and automatically switches the user interface to the locale of the operating system. When the OS language is not supported by AutoVue, the AutoVue user interface defaults to English.

It is possible to force the AutoVue user interface to a supported language by specifying the LOCALE parameter. See section ["Command-Line Parameters"](#) for the structure and syntax. In cases where the operating system locale and AutoVue locale are different, you might notice that some dialogs or buttons in AutoVue use the locale from the OS.



This is because AutoVue relies on the OS for UI items such as, Open, Close, OK, Cancel,.... You can set the Java parameter *user.locale=<locale>* to ensure that these items also appear in the right locale.

This option must be set in the *autovue.cmdline* property in *autovue.properties*.

You can also set the Java parameter *user.country=<country>* for country-specific localization.

# Command-Line Parameters

You can configure AutoVue by modifying certain settings in `autovue.cmdline` property in `autovue.properties`.

## Setting the -PARAM Flag

You can specify command line parameters to AutoVue by setting the `-Param` flag in the `autovue.cmdline` property in `autovue.properties`.

### Syntax:

`-PARAM <name>=<value>`

Follow are a list of parameters than can be configured.

| Name         | Type  | Value  |
|--------------|---|--|
| FILENAME     | <p><b>Note:</b> When specifying a local file, ensure that the filepath is preceded by an <code>upload://</code> protocol.<br/> <b>For example:</b> <code>upload://c:\samples\2d\acad.dwg</code></p> <p><code>http://host/file</code> Specify a HTTP URL for file open.</p> <p><code>ftp://host/file</code> Specify a FTP URL for file open.</p> <p>or...</p> <p><code>ftp://&lt;user&gt;:&lt;password&gt;@&lt;ftpserver&gt;/file</code></p> |  |
| EXTRABUNDLES | <i>name of the bundle file</i>  | <p>If you are adding custom actions to AutoVue, you can specify the name of the custom resources file using this parameter. Names of the custom resource files are expected to follow: <code>filename_XX.properties</code>, where <code>XX</code> is a two-character representation of a language.</p> <p>When specifying the custom resources using this parameter, do not specify the language and the extension.</p> <p>For example:<br/> <code>&lt;PARAM NAME="EXTRABUNDLES"</code><br/> <code>VALUE="CustomActions"&gt;</code></p>  |
| FORMAT       | [AUTO   TILED   METAFILE]   | <p>Set the rendering format.</p> <p><b>TILED</b> uses a tiled-raster representation of documents to display file.</p> <p><b>AUTO</b> uses adapted representations depending on the type of file viewed.</p> <p>When set to <b>METAFILE</b>, data is streamed to the client as a compressed metafile (CMF). Display lists are sent to the client and the client interprets and renders these display lists.</p> <p>Generally, Office documents are rendered in <b>TILED</b> mode, while 2D and Raster documents are rendered in <b>METAFILE</b> mode.</p> <p><b>Default:</b> AUTO</p> |

| Name        | Type                   | Value  |
|-------------|------------------------|--|
| GUIFILE     | String                 | <p>The Graphical User Interface (GUI) definition file used. GUI files are stored in subdirectories of the root directory specified in the autovue.users.directory parameter of the autovue.properties file. The specification can also specify a local file using the “file://” convention.</p> <p>Default for the autovue.users.directory parameter is &lt;bin dir&gt;\Profiles.</p> <p>Refer to appendix "Customizing the GUI" for more information.</p>   |
| HEAVYWEIGHT | [TRUE FALSE AUTO]      | <p>Specify if you would like to use JOGL's heavyweight or lightweight widget to render 3D Models. When heavyweight is on, AutoVue uses hardware acceleration to render 3D.</p> <p>Default is AUTO and AutoVue uses heavyweight rendering on all clients except MAC clients.</p>  |
| LOCALE      | [DE EN FR JA KO TW ZH] | <p>The Locale to be used in the user interface, specified as an ISO639 two-letter code.</p> <p>Using this parameter, you can force the applet GUI to be displayed in one of the supported languages. If not set, the Locale is determined using the client system properties.</p> <p><b>Syntax:</b> -PARAM LOCALE="FR"</p> <p>See section <a href="#">"Changing the Locale of AutoVue"</a> for additional configuration that maybe necessary for forcing AutoVue user interface to a specific LOCALE.</p>  |
| NEWWINDOW   | [TRUE FALSE]           | <p>Specifies whether to launch a new window when running an additional instance of AutoVue.</p> <p>If set to <b>TRUE</b>, a new window is launched without replacing the existing AutoVue window when there is already an instance of AutoVue running.</p> <p>If set to <b>FALSE</b>, a new window is not launched when there is already an instance of AutoVue running.</p> <p><b>Note:</b> If you set NEWWINDOW to FALSE and you specify 2 or more files to open in the command line for AutoVue, AutoVue will open these files in separate windows.</p> |

# **Configuring Memory Settings**

The maximum memory available to the Java component of the Desktop Deployment is determined by the `-Xmx` flag in the `autovue.cmdline` property. By default, this is set to 256MB. If you encounter a situation where AutoVue indicates that it is running low on Java Virtual Memory (JVM), you must set the maximum memory to a higher value. It is recommended that you increase the maximum memory for the Java component to 512MB.

AutoVue Desktop Deployment has both Java and native components. The `-Xmx` flag only controls the memory available to the Java components. It is recommended that you do not set the memory for the Java component to a very large value as it results in less memory for the native components. The native components use the remaining memory on the machine after the specified Java memory used by the Desktop Deployment.

You can tell the JVM how to allocate/deallocate heap memory with the `-XX:MinHeapFreeRatio` and `-XXMaxHeapFreeRatio` options. By setting these options to a reasonably small value (for example, `XX:MinHeapFreeRatio=10` and `-XXMaxHeapFreeRatio=10`) the memory allocated is reduced and the unused memory may be utilized elsewhere. Ultimately, it is up to the garbage collection settings of the JVM whether or not to use these options. As a result, these options are not critical and removing them does not cause the Desktop Deployment to stop working, the Desktop Deployment may just use more memory.

For more information on these options, refer to the documentation at <http://java.sun.com/docs/hotspot/gc1.4.2/>.

## **Configuring log4j**

The log4j configuration file to use is specified by the `-Dlog4j.configuration` parameter in `autovue.cmdline`. By default, this the file is `<AutoVue Installation directory>\bin\log4j.xml`. Refer to section "Debugging AutoVue" for more information.

# Non-Interactive Installations

## Installation

To install AutoVue in non-interactive mode, you need to specify a configuration file that contains the required installation parameters. To do so, you must generate the configuration file manually following this syntax.

```
#Specify Installation Directory
#-----
USER_INSTALL_DIR=C:\\Oracle\\AutoVue

#Select Shortcut Folder
#-----
USER_SHORTCUTS=C:\\Documents and Settings\\Administrator\\Start Menu\\Programs\\Oracle
AutoVue
```

Following are the installation parameters that you can specify in the configuration file:

| Parameter                    | Description   | Default Value |
|------------------------------|---|---------------|
| USER_INSTALL_DIR={file path} | Specify the path where you want to install AutoVue.   |               |
| USER_SHORTCUTS={file path}   | Specify the shortcut path.<br><b>Note:</b> This parameter is only for Windows OS installations. |               |

After you specify the parameters for the configuration file, you can run the installation in non-interactive mode. Enter the following command lines:

```
InstallDesktopDeployment.exe -i silent -f <full path to configuration file>
```

## Uninstallation

If AutoVue is installed in non-interactive mode, the uninstallation is automatically in non-interactive mode. Simply invoke the uninstaller for AutoVue:

```
<AutoVue Installation Folder>\uninstall\uninstall.exe
```

# Debugging AutoVue

## Logging for AutoVue

AutoVue uses the log4j package to generate debug information. The configuration file **log4j.xml** (located in the <AutoVue Install Root>\bin directory) makes it possible to display debugging information for AutoVue. Log files are created in the <AutoVue Install Directory>\bin\logs folder by default. In situations where trouble-shooting information is necessary, an Oracle Global Customer Support representative will ask you to update the log4j.xml and enable logging for AutoVue.

**Note:** By default, logging is enabled at the WARN level. Any warning messages generated while you use AutoVue are written to the log4j output file.

For additional information regarding log4j, go to Apache's log4j documentation.

The following section describes the classes for which you can enable debugging information.

## Logger Information

The following descriptions explain what kind of logger information will be seen for each class specified:

| Class  | Description  |
|--|--|
| <code>com.cimmetry.jvueserver.configuration</code>   | Displays reports on loading errors of AutoVue's configuration.   |
| <code>com.cimmetry.jvueserver.event</code>           | Displays information concerning posting and handling of different AutoVue events (opened and closed sessions, opened and closed documents, and so on).   |
| <code>com.cimmetry.jvueserver.cache</code>           | Displays information concerning the AutoVue cache. Reports messages and errors related to loading the cache, locking, saving, deleting cached files as well as searching for archive and XRef files. |
| <code>log4j.category.com.cimmetry.connection</code>  | Displays information concerning downloading files from the network.  |
| <code>com.cimmetry.jvueserver.document</code>        | Displays document-related information (open, information, properties, and so on).  |
| <code>com.cimmetry.jvueserver.document.native</code> | Displays messages and error reporting for document related native code execution.  |
| <code>com.cimmetry.jvueserver.streamingfile</code>   | Displays information concerning generation and usage of streaming files.   |
| <code>com.cimmetry.frontend</code>                   | Displays all messages and errors reported from the AutoVue client.   |

You can specify what kind of information to output by setting the classes to one of the following information levels:

| Information Level | Description  |
|-------------------|--|
| INFO              | Displays informative messages such as session information, document open requests. |
| WARN              | Displays warning messages. This is the default value.                              |
| ERROR             | Displays errors or exceptions.   |

| Information Level | Description       |
|-------------------|-------------------|
| OFF               | Turn logging off. |

# Customizing the GUI

## Choosing the GUI File

AutoVue provides you the option of customizing your graphical user interface (GUI). By default, the GUI specification is not set and AutoVue uses an internal GUI file for the menus and toolbars. The GUI file that AutoVue generates is the same as the default.gui file located in the <AutoVue Installation Folder>\bin directory.

If you wish to have a customized GUI for AutoVue, you must create a custom GUI file and specify this custom file using the `-param GUIFILE` command line parameter. GUI files are placed at the location specified by `autovue.users.directory`. By default, the location is <AutoVue Installation Directory>\bin\Profiles.

## Modifying the GUI File

The GUI definition file describes which controls are added to which context (such as MenuBar, ToolBar, and so on).

If you are customizing your GUI file for the first time, it is recommended that you make a backup of the default.gui file and modify the controls in this file to meet your needs. The default.gui is located in the <AutoVue Installation Directory>\bin folder.

If you have a previous version of AutoVue and you used a customized GUI in this previous version, we recommend that you use the diff utility to perform a comparison between the previous version's default.gui and your customized GUI. The delta between the two GUI files should be manually applied to the current version GUI.

**Note:** If you use the previous version's customized GUI with the new version of AutoVue, you might run into situations where some or all of the GUI elements fail to load.

## Structure and Syntax of GUI Files

AutoVue supports five modes: View, Compare, Markup, Collaboration, and Print Preview. A GUI file defines the graphical interface for each mode. Menu bars, toolbars, status bar and Right Mouse Button (RMB) menus are defined in this file. For some of these objects, location (north, south, west, east) may be specified. Toolbars are located in north, west or east. The status bar is always located at the bottom of the component (south).

**Note:** Popup menus may be added to menu bars. Menu items, popup menus or separators may be added to popup menus. Toolbars only accept buttons. Buttons or panes may be defined for the status bar. The RMB popup is processed as any other popup menu.

The following table lists each GUI file for each mode:

|                      | 2D            | EDA               | 3D              |
|----------------------|---------------|-------------------|-----------------|
| <b>View</b>          | VIEW          | ECADVIEW          | SMVIEW          |
| <b>Markup</b>        | MARKUP        | ECADMARKUP        | MARKUP3D        |
| <b>Collaboration</b> | COLLABORATION | ECADCOLLABORATION | COLLABORATION3D |
| <b>Compare</b>       | COMPARE       | COMPARE           | COMPARE3D       |
| <b>Print Preview</b> | PRINTPREVIEW  | PRINTPREVIEW      | PRINTPREVIEW    |



## GUI Configuration Syntax

The most generic definition of a GUI file can be described through the symbols below:

- Words with CAPITAL LETTERS should be entered literally.
- The character '|' is used as "or" (for example, a|b means a or b)
- The character '\*' means "zero or more occurrences of."
- A GUI file can contain one or more "GUI configuration" blocks as shown in the following table:

---

### GUI Configuration Blocks

---

```
GUI_configuration =
BEGIN UI VIEW UI_mode_configuration END
      {BEGIN UI COMPARE | MARKUP UI_mode_configuration END}
```

---

```
*UI_mode_configuration =
{menu_bar_configuration | {toolbar_configuration}* | status_bar_configuration |
RMB_popup_menu_configuration}
```

---

```
menu_bar_configuration =
MENUBAR BEGIN {popup_menu_configuration}* END
```

---

```
toolbar_configuration =
TOOLBAR NORTH|WEST|EAST BEGIN {button_control }* END
```

---

```
status_bar_configuration =
STATUSBAR SOUTH BEGIN {button_control | pane_control } * END
```

---

```
RMB_popup_menu_configuration =
RMB BEGIN {popup_menu_configuration | menu_item_control }* END
```

---

```
popup_menu_configuration =
POPUP IDS_{FILE|EDIT |VIEW |OPTIONS |HELP | MANIPULATE |TOOLS |ANALYSIS |MODIFY
|COLLABORATION} BEGIN {popup_menu_configuration | menu_item_control | SEPARATOR }* END
```

---

```
button_control =
BUTTON action_control`
```

---

```
menu_item_control =
MENUITEM action_control
```

---

```
pane_control =
PANE action_control
```

---

```
action_control =
control_name, control_key_list, permissions
```

---

control\_name: For list of available control names refer to "Control Names".

---

control\_key\_list: For the control key list for different controls refer to "Control Names".

---

## GUI Configuration Blocks

permissions: All action names need "PERM\_READ".

These are the exceptions to this rule:

VueActionFilePrint needs: PERM\_READ|PERM\_HEADERS|PERM\_WATERMARK

VueActionOptionsBars needs: PERM\_NONE

VueActionHelp needs: PERM\_NONE

### Example:

To define a very basic user interface that only allows users, through menu items, to open or print a file and get the file information without changing watermark/headers/footers:

```
BEGIN UI VIEW
  MENUBAR BEGIN
    POPUP IDS_FILE BEGIN
      MENUITEM VueActionFileOpen, , PERM_READ
      MENUITEM VueActionFileProperties, , PERM_READ
      MENUITEM VueActionFilePrint, , PERM_READ
    END
  END
END
END
```

## Control Names

The following table lists available Control Names and their functionality.

| Control Name          | UI* Modes | Functionality   | Control Key List | Contexts   |         |            |     |
|-----------------------|-----------|---|------------------|------------|---------|------------|-----|
|                       |           |   |                  | Popup Menu | Toolbar | Status Bar | RMB |
| VueActionFileOpen     | VC        | When INI option EnableUniversalFileChooser is set to 0, invokes open URL dialog. When option is set to 1, the universal file chooser dialog (that supports URLs, local files, server:// protocol and DMS files) appears. Default for EnableUniversalFileChooser is 1. |                  | ×          |         |            |     |
| VueActionFileOpenUNC  | VC        | Open files using UNC names  |                  | ×          |         |            |     |
| VueActionFileMarkup   | V         | Switch to Markup mode   |                  | ×          | ×       | ×          | ×   |
| VueActionFileCompare  | V         | Switch to compare mode  |                  | ×          |         |            |     |
| VueActionFileOverlays | V         | Select and modify overlays  |                  | ×          |         |            |     |

| Control Name                     | UI* Modes                         | Functionality   | Control Key List                                 | Contexts |   |   |   |
|----------------------------------|-----------------------------------|---|--|----------|---|---|---|
| VueAction<br>FileProperties      | VCM<br>(M:<br>status<br>bar only) | Show file properties                                  |  | ×        |   | × |   |
| VueAction<br>FilePrint           | VCM                               | Modify print options and print a file                 |  | ×        | × |   |   |
| VueAction<br>FileMRU             | V                                 | List most recently used documents                     |  | ×        |   |   |   |
| VueAction<br>EditSearch          | VM                                | Do search or repeat search                            |  | ×        | × |   |   |
| VueAction<br>ViewZoom            | VCM                               | Apply zoom  | In/<br>Out/<br>Previous/<br>FullRes/<br>FitBoth/ | ×        | × |   | × |
| VueAction<br>ViewFlip            | VCM                               | Apply flip  | Vertical/<br>Horizontal/Both                     | ×        | × |   |   |
| VueAction<br>ViewRotate          | VCM                               | Apply rotation  | 0/<br>90/<br>180/<br>270                         | ×        | × |   |   |
| VueAction<br>ViewContrast        | VCM                               | Apply contrast  |  | ×        |   |   |   |
| VueAction<br>ViewAntiAlias       | VCM                               | Apply anti alias                                      |  | ×        |   |   |   |
| VueAction<br>ViewInvert          | VCM                               | Apply invert  |  | ×        |   |   |   |
| VueAction<br>ViewPage            | VCM                               | Go to next page, previous page or select page number. |  | ×        | × |   |   |
| VueAction<br>ViewViewPoint       | VC                                | Select view point                                     |  | ×        |   |   |   |
| VueAction<br>ViewXrefs           | VCM                               | Select Xrefs  |  | ×        | × |   |   |
| VueAction<br>ViewLayers          | VCM                               | Select layers   |  | ×        | × |   |   |
| VueAction<br>ViewBlocks          | VCM                               | Select blocks   |  | ×        | × |   |   |
| VueAction<br>ViewViews           | VCM                               | Select views  |  | ×        | × |   |   |
| VueAction<br>ViewDrawing<br>Info | VCM                               | Get entity's drawing information                      |  | ×        |   |   |   |

| Control Name                      | UI* Modes | Functionality  | Control Key List  | Contexts |   |  |  |
|-----------------------------------|-----------|--|---|----------|---|--|--|
| VueAction<br>ViewMeasure          | VCM       | Measure distance, cumulative distance, area, or calibrate        |   | ×        |   |  |  |
| VueAction<br>ViewSpecialViewModes | VCM       | Show special view modes  | Pan and Zoom Window/<br>MagnifyWindow /<br>MagnifyGlass | ×        | × |  |  |
| VueAction<br>ToolsDrawingInfo     | VCM       | Get drawing information for one entity, some entities or a block |   | ×        |   |  |  |
| VueAction<br>OptionsBars          | VCM       | Hide or show toolbars or status bar                              |   | ×        |   |  |  |
| VueAction<br>ViewDrawingInfo      | VCM       | Get entity's drawing information                                 |   | ×        |   |  |  |
| VueAction<br>CreateMobilePack     | VM        | Create a Mobile Pack   |   | ×        |   |  |  |
| VueAction<br>ReplyMobilePack      | VM        | Send Mobile pack with your default e-mail client                 |   | ×        |   |  |  |
| VueAction<br>SyncMobilePack       | VM        | Synchronize changes to Mobile Pack to backend system             |   | ×        |   |  |  |
| VueAction<br>ShowRendition        | VM        | Show renditions in the Mobile Pack                               |   | ×        |   |  |  |

**Note:** The letters in the **UI\* Modes** column indicate:

- V - View
- C - Compare
- M - Markup

The columns indicate:

- **Control Name:** Column shows the list of available control names.
- **UI modes:** Column specify in which modes can be used that control safely.  
**Example:** **VueActionFileOpen** can be added to View and Compare Modes, except for Markup mode.
- **Functionality:** Column specifies which functionalities are provided when this control is added to a context.  
**Example:** Adding **VueActionFileMarkup** to any context enables you to switch to Markup mode.
- **Control key list:** Column provides the optional functionalities that can be added to a context.
  - If for a control name there is no entry in this list, this means that by default all the controls providing the functionality listed in the functionality column are provided. For example, for **VueActionFileOverlays**, there is no entry in the control key list and adding it to a popup menu will provide both select and modify functionalities for overlays. The entry will look like this:

```
MENUITEM VueActionFileOverlays, , PERM_READ
```

- If there is a list of strings separated by '/', you can specify which functionalities you want added. If you don't specify any of them, by default all functionalities will be added. For example the following entry adds two buttons to the toolbar: one for Zoom In and one for Zoom Out.:

```
BUTTON VueActionViewZoom, In/Out, PERM_READ
```

Whereas the following entry:

```
BUTTON VueActionViewZoom, , PERM_READ
```

is interpreted as:

```
BUTTON VueActionViewZoom, In/Out/Previous/  
FullRes/FitBoth, PERM_READ
```

- **Contexts:** Column provides the contexts to which you can add the control to.

**Example:** You can have the entry in a popup menu of the menu bar, but not in an RMB configuration. (If you have such an entry, it will be ignored.):

```
MENUITEM VueActionFileOpen, , PERM_READ
```

# Appendix A: Samples and API Examples Included with AutoVue

During the installation process, if you select **Custom** installation, AutoVue provides you options to install samples and API examples. This chapter provides an overview of the samples and API that are installed with AutoVue.

## API Examples

The following API Examples are installed at `<AutoVue Install Root>\examples` if you do a Custom installation and choose to install API examples:

- **VBSample**  
This is the Desktop Deployment ActiveX example. This example is located in folder `<AutoVue Install Root>\examples\VBExample`
- **CustomActionTools**  
This example demonstrates how you can add custom Tools menu actions to AutoVue. For more information, see section ["Adding Custom Tools Menu to AutoVue"](#)
- **VueActionSample**  
This provides an example of how to implement hotspots using the VueAction. For more information on VueAction, refer to the *AutoVue API Programmer's Guide* and to the *VueBean JavaDocs*.  
To use this sample:
  - Hotspots.txt contains some hotspot definitions. You can use these definitions to test this sample or you can create your own definitions.
  - PartCatalogueAction.java and PartListAction.java demonstrate how to write custom actions.
  - A custom.gui file is the customized gui for the custom actions. Copy this file to `<AutoVue Installation Directory>\bin\Profiles`.
  - Update the Java code as needed and compile the code
  - Bundle all the class files into VueActionSample.jar
  - Add this VueActionSample.jar to AutoVue's classpath (*autovue.classpath* in *autovue.properties*)
  - Add following to the AutoVue commandline (*autovue.cmdline* in *autovue.properties*):  
`-param GUIFILE=custom.gui -param EXTRABUNDLES=/PartCatalogueAction`

## Sample Files

When you choose to install sample files during the AutoVue installation process, the following samples are installed:

- Sample 2D, 3D, EDA, Office and Graphics file are installed at `<AutoVue Install Root>\html\samples`

## Adding Custom Tools Menu to AutoVue

You can add custom Tools menu items to AutoVue so that batch files can be triggered from the menu items. AutoVue provides some example code that demonstrates how to build custom Tools meny items. The example code is installed when you do a **Custom** installation of AutoVue and select the **API Examples** checkbox during installation. The steps for adding custom Tools menu are below. Note that this requires familiarity with programming in Java.

- 1 Copy your batch files to `<AutoVue Installation Directory>\bin`.
- 2 Edit `<AutoVue Installation Directory>\examples\CustomActionTools\CustomActionTools.java` and edit the following lines:

```
private static final String resources[]={ "TOOL1", "TOOL2" };
```

```
private static final String[] subActions={"tool1","tool2"};
private static final String batchfiles[]={ "batch1.bat", "batch2.bat"};
where
```

*resources* is the list of strings that will show up in the Tools menu. The first string should correspond to the first batch file, the second string to the second batch file, and so on.

*subActions* is a list of strings that is used to associate a particular Tool menu item to a batch file.

*batchfiles* is the list of batch files.

- 3 Compile the Java code.
- 4 Copy the generated CustomActionTools.class to <AutoVue Installation Directory>\bin.
- 5 Make a copy <AutoVue Installation Directory>\bin\default.gui to a file called tools.gui. Copy this GUI file to <AutoVue Installation Directory>\bin\Profiles.
- 6 Edit tools.gui and add the new CustomActionTools to an existing or new menu:  
MENUITEM CustomActionTools, , PERM\_READ
- 7 If you are referencing new resources, you will need to update file CustomResources\_en.properties with the new resources.
- 8 You can translate the custom resources. The translations should be named CustomResources\_xx.properties, where xx represents the two-letter language code.
- 9 Copy the resource files to <AutoVue Installation Directory>\bin.
- 10 Add the following to the *autovue.cmdline* property in *autovue.properties*:  
-param GUIFILE=tools.gui -param EXTRABUNDLES=/CustomResources

When you startup AutoVue, you should see new Tools menu items corresponding to your definition in CustomActionTools.java.

## **Feedback**

If you have any questions or require support for AutoVue please contact your system administrator. Some customization and maintenance must be done on the server and cannot be implemented on the client machine. If the administrator is unable to resolve the issue, please contact Oracle Corp.

If at any time you have questions or concerns regarding AutoVue, call or e-mail us.

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