

# **Oracle® AutoVue Integration SDK**

Installation and Configuration Guide

Release 20.2.3

January 2015

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# Preface

The *AutoVue Integration SDK Installation and Configuration Guide* describes the procedure for building and running a dynamic Web project in JDeveloper and Eclipse IDEs for Oracle AutoVue.

For the most up-to-date version of this document, go to the AutoVue Documentation Web site on the Oracle Technology Network (OTN) at <http://www.oracle.com/technetwork/documentation/autovue-091442.html>.

## Audience

This document is intended for Oracle partners and third-party developers (such as integrators) who want to implement their own integration with AutoVue.

## Documentation Accessibility

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## Related Documents

For more information, see the following documents in the AutoVue Integration SDK library:

- *Overview*
- *User Guide*
- *Design Guide*
- *Technical Guide*
- *Acknowledgments*
- *Javadocs*
- *Security Guide*

## 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 text or the glossary.
<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.

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# System Requirements

The recommended system hardware configuration is:

- A system supporting the JDK/JRE version 6 with at least 2GB of main memory.
- At least 100MB of free disk space to install the software components and examples.

## 1.1 Required Software

- Oracle AutoVue 20.2.3

## 1.2 Server

The following operating systems have been certified with the Integration SDK:

### 1.2.1 Windows

- Windows 2008 32-bit
- Windows 2008 64-bit (AutoVue running in 32-bit mode)
- Windows 2008 R2 64-bit (AutoVue running in 32-bit mode)
- Windows 2012 64-bit (AutoVue running in 32-bit mode)

### 1.2.2 Linux

- Redhat Enterprise Linux 5.8 (and up) (x86) and 6.X (x86) 64-bit (AutoVue running in 32-bit mode)
- Oracle Linux 5.8 (and up) (x86) and 6.X (x86) 64-bit (AutoVue running in 32-bit mode)

## 1.3 Client

The following Java Virtual Machines have been certified with the Integration SDK:

- Java JDK 1.6 update 41 (and up) and Java JDK 1.7 update 15 (and up) for Filesys Sample, Skeleton and Web Services Client.
- Web browsers supported by Oracle AutoVue 20.2.3.

## 1.4 Application Servers

The following application servers are compatible with the Integration SDK:

- Oracle WebLogic Server 11gR1 (10.3.5)
- Any other application server that supports Servlet 2.5 may work but are not certified by Oracle

## 1.5 Development Tools

The following IDEs are compatible with the ISDK:

- Oracle Enterprise Pack for Eclipse 11gR1 (11.1.1.7.3) for Eclipse 3.6.2 Helios Edition
- Oracle JDeveloper 11gR1 (11.1.1.x)
- Microsoft Visual Studio 2008



This chapter assumes you are familiar with Java development and with basic Web application development concepts, such as deployment descriptors and WAR archives. Understanding XML language is beneficial, but not mandatory.

The software products listed in [Chapter 1, "System Requirements"](#) must be installed and configured on your system according to the manufacturer's instructions.

## 2.1 Downloading Required Software

Before proceeding with the installation of the AutoVue ISDK, the following software must be installed and configured on your system according to the manufacturer's instructions.

### 2.1.1 Oracle JDeveloper 11gR1

You can download Oracle JDeveloper Studio Edition from <http://www.oracle.com/technology/software/products/jdev/htdocs/soft11.html>.

### 2.1.2 Oracle Enterprise Pack for Eclipse 11gR1

Oracle Enterprise Pack for Eclipse (OEPE) is a free set of certified plug-ins, enabling WebLogic developers to support Java EE and Web Service standards. The Oracle Enterprise Pack for Eclipse All-In-One installer includes a preconfigured version of Eclipse and the OEPE plug-ins. You can download the Eclipse 3.6 (Galileo) Edition for your desired platform from

[http://www.oracle.com/technology/software/products/oepe/oepe\\_11gR1.html](http://www.oracle.com/technology/software/products/oepe/oepe_11gR1.html). If you download *Eclipse IDE for Java EE Developers* from the Eclipse Web site, you must download the Oracle WebLogic Server plug-in separately when creating the server.

### 2.1.3 Oracle AutoVue

Oracle AutoVue 20.2.3 is available from <http://edelivery.oracle.com>. The description name is Oracle AutoVue 20.2.3. Select a Media Pack for your desired platform.

### 2.1.4 WebLogic Server

You can download WebLogic Server from the following location:

[http://www.oracle.com/technology/software/products/ias/htdocs/wls\\_main.html](http://www.oracle.com/technology/software/products/ias/htdocs/wls_main.html).

## 2.2 Installing and Configuring

This section describes the installation and configuration steps for the ISDK.

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**Note:** If you are planning on deploying the ISDK in a secured environment, you should read the *Oracle AutoVue Integration Software Development Toolkit (ISDK) Security Guide* before installing the ISDK.

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To install, run the installer to extract all necessary files. You must then create a server runtime environment on IDE and create a project. At this point you must manually configure ISDK components such as the ISDK Skeleton and Web Service Client.

Once these steps are complete, and the ISDK is installed correctly, you can configure the sample projects. For information on configuring the sample projects, refer to [Chapter 3, "Configuring Sample Projects."](#)

### 2.2.1 Installing ISDK

There are two folders included in the Oracle AutoVue SDK Media Pack: *win32* and *linux*. Each of these folders contains the installer of the ISDK for the corresponding platform. The following steps outline the installation for Windows and Linux OSes.

1. For Windows, go to the win32 folder and launch the setupwin32.exe file. For Linux, go to the linux folder and launch the setuplinux.bin file. The Installer dialog appears.
2. Click **Next**.
3. Enter the location and directory name for the AutoVue Integration SDK. The default location and name for Windows is C:\Oracle\AutoVueIntegrationSDK. Click **Next**.
4. Select the components to install. By default, the ISDK Skeleton and Web Service Client are selected. To install the sample projects, select **Sample Integration (filesys and Web Services Sample Server)**.
5. Click **Next**. The installation summary page appears.
6. Click **Next** to begin installation. The files are extracted to the location specified in step 3. Note that the ISDK is installed by default with Secure Sockets Layer (SSL) enabled.
7. Click **Finish** to complete the installation.

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**Note:** If the Linux installer is unable to run in graphical mode, install the libXp package.

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After running the installer, all the required files are created under your AutoVueIntegrationSDK installation directory with the following structure:

- The /docs folder contains javadocs. All other ISDK documentation can be found on the Oracle AutoVue Documentation OTN site at <http://www.oracle.com/technetwork/documentation/autovue-091442.html>.
- The /FileSys folder contains four subfolders:
  - The /Repository folder contains filesysRepository.zip which contains sample files used by the Sample Integration for Filesys.

- The /OEVF folder contains two GUI files used for the OEVF demo.
- The /WebApplication folder contains a filesys.war file and a /filesys folder. The content in the /filesys folder is the unzipped version of the filesys.war file. The filesys.war can be imported into JDeveloper or Eclipse workspace to demo the Sample Integration for Filesys and to demo RTC & OEVF functionalities. The project contains source code for sample integration, AutoVue client and third party libraries required by the integration.
- The /ESAPI\_Resources folder contains the OWASP Enterprise Security API properties files: ESAPI.properties and validation.properties.
- The /ISDKSkeleton folder contains two subfolders:
  - The /WebApplication folder contains an isdk\_skeleton.war file and a /isdk\_skeleton folder. The content in the /isdk\_skeleton folder is the unzipped version of the isdk\_skeleton.war file. The isdk\_skeleton.war can be imported into JDeveloper or Eclipse workspace to create the Integration SDK Skeleton project. Your integration with Java-based backend systems will be developed based on this skeleton project and fulfill the TODO comments in this project.
  - The /ESAPI\_Resources folder contains the OWASP Enterprise Security API properties files: ESAPI.properties and validation.properties.
- The /WebServicesIntegration folder contains three subfolders:
  - The WebServiceClient folder contains the /ESAPI\_resources and /WebApplication folders. The /ESAPI\_Resources folder contains the OWASP Enterprise Security API properties files: ESAPI.properties and validation.properties. The /WebApplication folder contains the wsclient.war and a /wsclient folder which is the unzipped version of the WAR file.
  - The /WSDL folder contains the Blueprint WSDL file and the XSD file that accompanies it.
  - The /WebServicesSampleServer folder contains a /C# folder. The /C# folder contains the Service1.asmx.cs file and the zipped project template wsserver\_VisualStudio2008\_ProjectTemplate.zip. The Service1.asmx.cs file is used when creating an ISDK Web Services project manually.
- The /etc folder contains a list of files and folders structure contained in this ISDK, and folders containing licenses of third-party software used by the ISDK.
- The /\_jvm and /\_uninst folders for uninstalling the ISDK.

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**Note:** The ESAPI.properties and validation.properties files are placed in the folder based on the configuration settings defined by the user. If there is no path defined in the application, the library looks for them inside the esapi folder of the user's home directory.

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## 2.2.2 Creating a Server Runtime Environment on IDE

This section describes how to create a server runtime environment on JDeveloper and Eclipse IDEs.

### 2.2.2.1 Create Default Runtime on JDeveloper

JDeveloper has an integrated WebLogic Server (IntegratedWebLogicServer) configured. As a result, you can skip this step if using JDeveloper.

### 2.2.2.2 Create Server Runtime on Eclipse

You can create a server to identify the runtime environment that you want to use to test your Oracle AutoVue project. To create the WebLogic Server, complete the following steps:

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**Note:** Your Oracle WebLogic Server domain needs to be created in development mode in order to create the server successfully in Eclipse.

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1. From the **File** menu, select **New**, and then select **Other**.
2. Expand the Server folder, then select **Server**.
3. Click **Next**.

The Define a New Server wizard opens. This wizard lets you define a new server that contains information required to point to a specific runtime environment for local or remote testing, or for publishing to an application server.

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**Note:** If you installed Eclipse using Oracle Enterprise Pack for Eclipse Galileo Edition, Oracle WebLogic Server (11gR1) is listed in the New Server wizard under Oracle server type. If you downloaded Eclipse 3.6.2 directly from Apache Web site, you need to click Download Additional Server Adapters and download Oracle WebLogic Server adapter from the Internet yourself.

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4. Select Oracle WebLogic Sever 11gR1, click **Next**, and then perform the following steps:

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**Note:** These steps also apply for Oracle WebLogic Server on Linux.

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- a. In the Define WebLogic Runtime dialog, enter the WebLogic Home location. For example, C:\bea\wlserver\_11.1 on Windows and /home/my/bea/wlserver\_11.1 on Linux. Then provide the domain directory at Define a WebLogic Server dialog.
  - b. If you do not have the WebLogic domain available yet or you want to create a different one, click **Click Here to launch Configuration Wizard to create a new domain**. Write down the Domain Location for your created domain. For example, C:\bea\user\_projects\domains\base\_domain.
  - c. Now suppose you already have a domain directory available. You can input or browse to get it on your machine and click **Next**.
5. Select the projects from the available projects list in the Add and Remove dialog and then click **Add** to add them to the configured projects list.
  6. Click **Finish**. The Oracle WebLogic Server 11gR1 appears in the Servers view. You can start and stop the Server from this view.
  7. Open the Server view to verify that the server has been created. You can click **Servers** or click **Window** from the menu bar, then **Show View** and **Servers** to display the Server view.

## 2.2.3 Creating Projects on IDE

This section describes how to create a project on JDeveloper and Eclipse IDEs.

### 2.2.3.1 Projects on JDeveloper

1. Create an application if you do not have one yet. You can create an application by clicking **File** from the menu bar, then select **New**. The New Gallery dialog appears.
2. Select **Applications** under the **General** category from the left panel and then select **Custom Application** from the right panel.
3. Click **OK**. The Create Application dialog appears.
4. Complete the Create Application dialog to create an application with the Application Package Prefix field left empty. Click **Finish** to create the project.
5. Click **File** and then **Import**. The Import dialog appears.
6. Select **WAR File** and then click **OK**. The Create Project from WAR File dialog appears.
7. Browse to the ISDK component folder or sample projects folder and then select a WAR file.
8. In the following Create Project from WAR file dialogs perform the following:
  - Enter your project name.
  - Choose a directory to put your project.
  - Select the WAR file to import. For example, filesys.war.
  - Verify the location for Root Directory for Web Module.
9. Click **Finish** to finish the creation of your project.
10. In the Project view, browse to verify that your project has been created successfully.
11. Click **Build** to make your project. There should be no compilation error.
12. Check Libraries and Classpath:
  - a. Right-click the project and select Project Properties to bring out the Project Properties dialog
  - b. Click **Libraries and Classpath** in the left panel.
  - c. Check the JSP Runtime and JSF 1.2 are available under the Classpath Entries. If there are not available, you can add them manually in the following steps:  
Click **Add Library** in the right panel.  
Select **JSP Runtime** under Extension from the pop-up window.  
If you are going to deploy the project later to an external WebLogic Server instead of using the IntegratedWebLogicServer, you also need to add JSF 1.2 under Extension from the pop-up window.  
Click **OK**.
13. This step is for the ISDK Web Service Sample project for WebLogic when the "WeblogicUserNameTokenHandler.java" (Username token profile security for WebLogic) is needed.
  - a. WeblogicUserNameTokenHandler.java.excluded needs to be renamed to WeblogicUserNameTokenHandler.java.

- b. Add weblogic.jar to the project's build path if you see compilation error for WeblogicUserNameTokenHandler.java. The steps are as follows:

Right-click the project and select **Project Properties** to bring out the Project Properties dialog.

Click **Libraries and Classpath** in the left panel

Click **Add JAR/Directory** in the right panel

In Add Archive or Directory dialog, browse to WebLogic Server's lib folder to select weblogic.jar and click on **Select**. Weblogic.jar appears in the Classpath Entries.

Click **OK** to exit the Project Properties dialog.

Rebuild your project and there should be no compilation error.

14. To start the WebLogic Server. You can click on **Run** from menu bar and then click **Start Server Instance** to start or click **On** from the toolbar.

### 2.2.3.2 Projects on Eclipse

1. From the **File** menu select **Import**. The Import dialog appears.
2. In the Import dialog, expand Web and select **WAR file** and then click **Next** to bring out the WAR Import dialog.
3. To import the sample WAR files, click **Browse**.
4. Browse to the ISDK component folder or sample projects folder and then select a WAR file.
5. Provide a name for your Web project. If you have already configured Oracle WebLogic Server runtime, Oracle WebLogic Server 11gR1 is shown as Target runtime. If you have not created it yet, you can create one now by clicking on **New**. For more information, refer to [Section 2.2.2, "Creating a Server Runtime Environment on IDE."](#)
6. Click **Next**.
7. Accept the default at the WAR Import: Web libraries dialog and click **Finish** to populate the Web project.
8. Click **Yes** if Eclipse asks you to open J2EE perspective for this project.
9. This step is for the ISDK Web Service Sample project for WebLogic when the "WeblogicUserNameTokenHandler.java" (Username token profile security for WebLogic) is needed.
  - a. WeblogicUserNameTokenHandler.java.excluded needs to be renamed to WeblogicUserNameTokenHandler.java.
  - b. Add weblogic.jar to the project's build path if you see compilation error for WeblogicUserNameTokenHandler.java. The steps are:

Right-click the project and select **Build Path**, then select **Configure Build Path** to open the Project's Properties dialog.

Click on the Add Library tab and click on **Server Runtime**, and then click **Next**.

If WebLogic appears, you can select and add.

If you cannot find the WebLogic runtime, then click on **Add External JAR** from the previous dialog to open the JAR Selection dialog. Browse to WebLogic Server's lib folder to select weblogic.jar and then click **Open**.

Weblogic.jar should appear in the Classpath Entries panel.

Click on **OK** to exit the Properties dialog.

Recompile the project and there should be no compilation error

10. After completing all these steps, there should be no compilation error with Java code in your project.

## 2.2.4 Configuring ISDK Components

This section provides information on configuring ISDK components.

### 2.2.4.1 Configuring the ISDK Skeleton

The AutoVue Integration SDK Skeleton provides a basic framework for you to build your own integration.

After you complete the steps outlined in [Section 2.2.3, "Creating Projects on IDE,"](#) you must configure the ISDK Skeleton as described in the following steps.

**2.2.4.1.1 Step 1: Copy the AutoVue Jar Files** Copy the following files from the directory <AutoVue Installation directory>\bin to your project's WebContent\applet folder (for Eclipse) or public\_html\jvue folder (for JDeveloper):

- jvue.jar
- jogl.jar
- gluegen-rt.jar

Copy the file vueservlet.jar from the directory <AutoVue Installation directory>\bin to your project's WebContent\WEB-INF\lib folder (for Eclipse) or public\_html\WEB-INF\lib folder (for JDeveloper).

**2.2.4.1.2 Step 2: Configure the AutoVue Server** 1. From the WEB-INF folder of your project, open the web.xml file in a text editor.

2. Locate the following block.

```
<servlet id="csi_servlet_2">
<servlet-name>VueServlet</servlet-name>
<servlet-class>com.cimmetry.servlet.VueServlet</servlet-class>
<init-param>
<param-name>JVueServer</param-name>
<param-value>localhost:5099</param-value>
</init-param>
<init-param>
```

3. Update the default location of JVueServer "localhost:5099". You must replace localhost with the host name/IP address of the machine that is running the AutoVue server, and replace 5099 with the socket port number that the AutoVue server is listening to (default is 5099).
4. Save your changes.

**2.2.4.1.3 Step 3: Configure log4j.properties for Debugging** The location of log4j.properties file is defined in web.xml. By default, it is located at <ISDK Installation Directory>\ISDKSkeleton\WebApplication\isdk\_skeleton\WEB-INF\lib folder.

```
<init-param>
<param-name>log4jInitFile</param-name>
<param-value>/WEB-INF/lib/log4j.properties</param-value>
</init-param>
```

To configure log4j.properties for debugging, do the following:

1. Open the log4j.properties file with a text editor.
2. Set the location and the filename of your log4j logging file, for example, C:/tmp/filesys.log.

```
# setting the logging file
log4j.appender.R.File=<Your logs directory>/<logfile>.log
```

3. You can change the level and location of output by modifying this file, for example, log4j.logger.com.cimmetry.vuelink=DEBUG.

The following table shows the different levels of logging available.

**Table 2–1 Will Output Messages of Level**

Logger Level	DEBUG	INFO	WARN	ERROR	FATAL
DEBUG	YES	YES	YES	YES	YES
INFO	NO	YES	YES	YES	YES
WARN	NO	NO	YES	YES	YES
ERROR	NO	NO	NO	YES	YES
FATAL	NO	NO	NO	NO	YES
ALL	YES	YES	YES	YES	YES
OFF	NO	NO	NO	NO	NO

- If you set Logger Level to FATAL, then only output messages of level FATAL are logged in log4j file.
- If you set Logger Level to ERROR, then only output messages of level ERROR or FATAL are logged in log4j file.
- If you set Logger Level to DEBUG, then output messages of any level are logged in log4j file.

4. Save your changes.

For more information on log4j capabilities, refer to log4j documentation.

### 2.2.4.2 Configuring the Web Services Client

The AutoVue Integration SDK Web Services Client (WSC) is a package built on top of ISDK Skeleton. It is developed based on Java API for XML Web Services (JAX-WS) and is designed to communicate out of the box with any Web Service provider that implements the Blueprint.wsdl file bundled with this AutoVue Integration SDK distribution.

The WSC must be configured before using it with your integration. To do so, you must perform the following steps.



**2.2.4.2.1 Step 1: Copy the AutoVue Jar files** Copy the following files from the directory <AutoVue Installation directory>\bin to your project's WebContent\applet folder (for Eclipse) or public\_html\jvue folder (for JDeveloper):

- jvue.jar
- jogl.jar
- gluegen-rt.jar

Copy the file vueservlet.jar from the directory <AutoVue Installation directory>\bin to your project's WebContent\WEB-INF\lib folder (for Eclipse) or public\_html\WEB-INF\lib folder (for JDeveloper)

**2.2.4.2.2 Step 2: Configure the AutoVue Server** Configuring the AutoVue Server for the ISDK Web Service client project follows the same steps as [Section 2.2.4, "Configuring ISDK Components."](#)

**2.2.4.2.3 Step 3: Configure log4j.properties for Debugging** Configuring the log4j.properties for the ISDK Web Service client project debugging follows the same steps as [Section 2.2.4, "Configuring ISDK Components."](#)

**2.2.4.2.4 Step 4: Configure the SOAP Handler** Locate and uncomment the following block in web.xml and update the param-value for paramater wsclient.WSHandler.

```
<!-- the SOAP handler class must extend
com.cimmetry.vuelink.wsclient.backend.WSHandler -->
<init-param>
<param-name>wsclient.WSHanlder</param-name>
<param-value>com.cimmetry.vuelink.wsclient.backend.UserNameTokenHandler</param-value>
</init-param>
```

1. Replace the param-value for wsclient.WSHandler with your desired handler.

Here is a list of handlers delivered with the Filesys Sample inside the com.cimmetry.vuelink.wsclient.backend package.

**Table 2–2 List of handlers delivered with Filesys Sample**

Handler Name	Usage
WSHandler	No security implementation.
HTTPBasicHandler	HTTP basic authentication.
UserNameTokenHandler	Generic username token profile security.
WeblogicUserNameTokenHandler	Username token profile security for WebLogic. Use this one if the generic UserNameTokenHandler does not work on Oracle WebLogic Server. You need to rename the source code named "WeblogicUserNameTokenHandler.java.excluded" to "WeblogicUserNameTokenHandler.java" and add "weblogic.jar" to the project's class path.

**2.2.4.2.5 Step 5: Define the Location of Blueprint WSDL** Locate the following block in web.xml and update the <param-value> for parameter WSDL.

```
<!-- Define the location of Blueprint WSDL -->
<init-param>
<param-name>WSDL</param-name>
<param-value>... </param-value>
</init-param>
```

```
<load-on-startup>1</load-on-startup>  
</servlet>
```

A sample param-value for WSDL is:

```
http://mymachine:7001/WSClient/Blueprint?wsdl
```

---

## Configuring Sample Projects

The sample projects included with the ISDK provide a good introduction to the many uses of the ISDK. You can take the information provided and apply it to your own integration.

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**Note:** These projects are not installed by default. During ISDK installation, you must select the **Sample Project** check box to install. For more information, refer to [Section 2.2.1, "Installing ISDK."](#)

---

The following sections detail the configuration steps for these sample projects.

### 3.1 Sample Integration for Filesys DMS

This section describes the steps required to run the Sample Integration for Filesys DMS. This project is located in the <ISDK Installation Directory>\AutoVueIntegrationSDK\FileSys folder.

#### 3.1.1 Step 1: Copy the AutoVue Jar Files

Copy the following files from the directory <AutoVue Installation directory>\bin to your project's WebContent\jvue folder (for Eclipse) or public\_html\jvue folder (for JDeveloper):

- jvue.jar
- jogl.jar
- gluegen-rt.jar

Copy the file vueservlet.jar from the directory <AutoVue Installation directory>\bin to your project's WebContent\WEB-INF\lib folder (for Eclipse) or public\_html\WEB-INF\lib folder (for JDeveloper).

#### 3.1.2 Step 2: Configure the AutoVue Server

1. From the WEB-INF folder of your project, open the web.xml file in a text editor.
2. Locate the following block:

```
<servlet id="csi_servlet_2">
<servlet-name>VueServlet</servlet-name>
<servlet-class>com.cimmetry.servlet.VueServlet</servlet-class>
<init-param>
<param-name>JVueServer</param-name>
<param-value>localhost:5099</param-value>
```

```
</init-param>
<init-param>
```

3. Update the default location of JVUEServer "localhost:5099". You must replace localhost with the host name/IP address of the machine that is running the AutoVue server, and replace 5099 with the socket port number that the AutoVue server is listening to (default is 5099).
4. Save your changes.

### 3.1.3 Step 3: Configure log4j.properties for Debugging

The location of log4j.properties file is defined in web.xml. By default, it is located at WEB-INF/lib folder.

```
<init-param>
<param-name>log4jInitFile</param-name>
<param-value>/WEB-INF/lib/log4j.properties</param-value>
</init-param>
```

To configure log4j.properties for debugging, do the following:

1. Open the log4j.properties file with a text editor.
2. Set the location and the filename of your log4j logging file. For example, C:/tmp/filesys.log.  

```
# setting the logging file
log4j.appender.R.File=<Your logs directory>/<logfile>.log
```
3. You can change the level and location of output by modifying this file. For example, log4j.logger.com.cimmetry.vuelink=DEBUG

The following table shows the different levels of logging available.

**Table 3–1 Will Output Messages of Level**

Logger Level	DEBUG	INFO	WARN	ERROR	FATAL
DEBUG	YES	YES	YES	YES	YES
INFO	NO	YES	YES	YES	YES
WARN	NO	NO	YES	YES	YES
ERROR	NO	NO	NO	YES	YES
FATAL	NO	NO	NO	NO	YES
ALL	YES	YES	YES	YES	YES
OFF	NO	NO	NO	NO	NO

- If you set Logger Level to FATAL, then only output messages of level FATAL are logged in log4j file.
  - If you set Logger Level to ERROR, then only output messages of level ERROR or FATAL are logged in log4j file.
  - If you set Logger Level to DEBUG, then output messages of any level are logged in log4j file.]
4. Save your changes.

For more information on log4j capabilities, refer to log4j documentation.

### 3.1.4 Step 4: Configure RootDir for the Filesys Repository

1. From the public\_html\WEB-INF folder of your project, open the web.xml file in a text editor.
2. Replace the RootDir param-value. For example, if you have unzipped the Filesys Repository to folder c:\tmp on Windows, the param-value for RootDir will be c:\tmp\filesystemRepository.

```
<!-- context parameters are available to all servlets -->
<context-param>
<param-name>RootDir</param-name>
<param-value>Put path to repository here:</param-value>
</context-param>
```

3. Save your changes.

### 3.1.5 Step 5: Configure for an Embedded or Pop-Up Window (Optional)

AutoVue applet can be launched in a pop-up window or embedded inside the caller's browser window.

By default, the Filesys demo uses embedded mode and the RTC demo uses pop-up mode.

For the OEVF demo, you can select the mode by providing *embedded=0* or *embedded=1* request parameter in the launching URL. Refer to [jvue/OEVFDemo.html](#).

To change the mode in Filesys demo:

1. Open [jvue/frmApplet.jsp](#).
2. Change the line  
*boolean embedded = true;*  
to  
*boolean embedded = false;*

To change the mode in RTC demo:

1. Open [jvue/RTCDemo\\_init.jsp](#) and [jvue/RTCDemo\\_join.jsp](#).
2. Change the line  
*boolean embedded = false;*  
to  
*boolean embedded = true;*

### 3.1.6 Step 6: Configure the Markup Policy (Optional)

The location of MarkupPolicy.xml file is defined in web.xml that controls markup operation. By default, it is located at WEB-INF/lib folder.

```
<init-param>
<param-name>CSI_MarkupPolicyDefLocation</param-name>
<param-value>/WEB-INF/lib/MarkupPolicy.xml</param-value>
</init-param>
```

If you need to update the Markup Policy file, please refer to the *Oracle AutoVue User's Manual*. On Windows, the link is <http://localhost/jVue/help/en/AutoVueOnLineHelp.html>. If the link does not work, check whether there is a virtual directory, jVue, with IIS. It is created during AutoVue server installation.

### 3.1.7 Step 7: Configuring User Control

By default, the Sample Integration for Filesys bundles a file called `credential.txt` that contains valid user information for authentication. The location of `credential.txt` file is defined in `web.xml`.

```
<init-param>
<param-name>CredentialInfoLocation</param-name>
<param-value>/WEB-INF/lib/credential.txt</param-value>
</init-param>
```

To add new users or modify existing user name or password, update `credential.txt`. Each line of the file contains an entry for a user and its password. The field separator is colon (:).

### 3.1.8 Step 8: Configure the Picklist

This list is for controlling the content of a picklist for Stamp (formerly called Intellistamp) DMS properties. You can remove/modify existing values or add new values for the `<Status>` and `<RelatedInfo>` elements in `WEB-INF/lib/picklist.xml`, but you are not supposed to delete these two elements or add new elements directly under `<Data>` element.

### 3.1.9 Step 9: Configure the Thumbnail Display

If you want to show thumbnails based on BMP renditions when browsing the Filesys Repository, you can do the following configuration.

1. For Windows operating systems, create a virtual directory on Internet Information Services (IIS) for the Filesys repository. For example, if you have unzipped the Filesys repository to folder `c:\tmp` on Windows, you can create a virtual directory with alias `filesysRepository` and the location path `c:\tmp\filesysRepository`. Suppose IIS is available at the default port 80.
2. For Linux system, if Apache Server is available, do the following configuration.
  - Open Apache's `httpd.conf` file.
  - Locate the line: `DocumentRoot "/var/www/html"`.
  - Copy this line and comment out the original one.
  - Change the copied line to, for example, `DocumentRoot "/home/ucm/tmp"`  
Suppose your Filesys repository is unzipped to `/home/ucm/tmp` folder and your `/home/ucm/tmp/filesysRepository` folder allow executing file as program. If your `DocumentRoot` has already been used, you need to put your Filesys repository under the existing `DocumentRoot` folder in order to preview thumbnails.
  - Save the file and restart Apache Server.
3. Replace the `param-value` for `RootURL` in `web.xml`. This URL is mainly used for thumbnail displaying. However, you must enter a URL (for example, `http://localhost`) even if thumbnail displaying is not intended. With the configuration sample in Step 1, the `param-value` for `RootURL` will be `http://localhost/filesysRepository`. Note the case sensitivity of IIS.

```
<!-- This URL is only needed to construct thumbnail URLs -->
<context-param>
<param-name>RootURL</param-name>
<param-value>http://localhost/filesysRepository</param-value>
```

```
</context-param>
```

### 3.1.10 Step 10: Configure for Redirection

To test the redirection functionality in Filesys, you need to install IDE and deploy the Filesys sample project on two machines (a main server and a remote server) and complete the generic configuration and other configurations based on your needs. You must then perform the following configurations for redirection:

1. On the main server machine, change the folder permission for the filesys repository to Full Control for all users.
2. On the remote server machine, create a network mapping drive to the Filesys repository directory on the main server machine. In Filesys demo, both remote server and the main server use the same Filesys repository data.
3. On the main server, modify web.xml to comment out the blocks *RemoteVueLink*, *RemotejVueServer* and *RemoteVueServlet*. Specify the param-values for these three parameters.

**Table 3–2 Param-names and param-values for web.xml**

Param-name	Description and param-value
RemoteVueLink	URL to the remote VueLink. The param-value is http://host:port/context/servlet/FilesysVuelink where host is the remote host name or IP address, port is the remote IDE's server runtime port number, context is the Filesys project name on the remote IDE.
RemotejVueServer	Hostname or IP address of the remote AutoVue server. The remote server can use another AutoVue server instead of the one running on the main server.
RemoteVueServlet	URL to the remote VueServlet. The param-value is http://host:port/context/servlet/VueServlet

For Example:

```
<context-param>
<param-name>RemoteVuelink</param-name>
<param-value> http://sremote:7001/ISDK_Remote/servlet/FilesysVuelink</param-value>
</context-param>
<context-param>
<param-name>RemotejVueServer</param-name>
<param-value>sremote</param-value>
</context-param>
<context-param>
<param-name>RemoteVueServlet</param-name>
<param-value>http://sremote:7001/ISDK_Remote/servlet/VueServlet</param-value>
</context-param>
```

### 3.1.11 Step 11: Configure the Real-Time Collaboration (RTC) Demo

The following section describe how to configure the RTC demo:

### 3.1.11.1 Verify the RTC Demo

Make sure the WEB-INF/lib/credential.txt has an entry for user "rtc" and "rtc1". Although every valid user can initiate and join a meeting, by default the meeting is initiated as user "rtc" and joined by user "rtc1" and the AutoVue applet is named after the username.

Prior to running the demo, you must do the following:

- Uncomment the two users (rtc and rtc1) from the WEB-INF/lib/credential.txt file and change the default passwords.
- Update the password parameter in the jvue\RTCDemo\_init.jsp file for user rtc:

```
request.getSession().setAttribute("password", "rtc");
```

Update the password parameter in the jvue\RTCDemo\_join.jsp file for user rtc1:

```
request.getSession().setAttribute("password", "rtc1");
```

Updating these parameters avoids an Authentication dialog when initializing or joining a RTC meeting when using the ISDK RTC demo.

### 3.1.11.2 Create or Update the meetingfiles.txt

Verify that the meetingfiles.txt file under your <Filesys repository>/Meeting folder exists. If this file does not exist, you need to create it manually.

If you want to change the files shown in the Meeting File drop down list when initiating a RTC meeting from RTCDemo\_init.jsp page similar to the following figure, then you need to update the meetingfiles.txt file.

Each entry in the meetingfiles.txt file represents one meeting file; it starts with "/" and reflects one viewable document file in the Filesys repository.

To select another file to collaborate on during a meeting, from the AutoVue menu bar, the meeting controller can click **File**, **Open URL**, and then **DMS Browse**. The Meeting folder shows files already defined in meetingfiles.txt. The new collaborated file is appended to meetingfiles.txt.

After the host closes a RTC meeting by clicking **Collaboration** and then **Close Collaboration Session**, the chat transcript is saved to the Meeting folder.

## 3.1.12 Step 12: Configure the Oracle Enterprise Visualization Framework (OEVF)

The following sections describe how to configure the OEVF:

### 3.1.12.1 Define OEVFInfoLocation in web.xml

By default, ISDK filesys bundles a file called oevf.xml which defines the mapping of document IDs with assetIDs and workflowIDs. The default location of oevf.xml is under the folder WEB-INF/lib. If you move the file to another location, then you need to specify the full path for the parameter *OEVFInfoLocation* in web.xml.:

```
<!--
# the location of xml file which contains all the info about assetIDs, workflowIDs
# and full path of the latest revision in FileSys DMS
-->
<init-param>
<param-name>OEVFInfoLocation</param-name>
<param-value>/WEB-INF/lib/oevf.xml</param-value>
</init-param>
```



### 3.1.12.2 Update oevf.xml

This step is required if you want to establish new or update existing mappings of document IDs with assetIDs and workflowIDs.

The root element of the oevf.xml file is `<data>`. The direct elements under `<data>` are `<file>` elements that contain the definition for files. Each `<file>` element represents one file. If you want to add mapping relationships for a new file, then you need to add a new `<file>` entry.

A `<file>` element can include multiple `<revision>` elements that represent the multiple revisions of the file. If you want to add a new revision section to an existing file, then you must add one new `<revision>` entry.

Each `<version>` element includes a `<docID>`, `<assetIDs>`, `<workflowIDs>` and `<version>` elements. The value for `<version>` element is the revision number. The value for `<docID>` element is the relative path to a file in the Filesys data repository. It starts with `"/"`. For example, `/2D/MicroStation.dgn/MicroStation.dgn(2)/MicroStation.dgn`.

The `<assetID>` elements can contain multiple `<assetID>` elements and the `<workflowID>` elements can contain multiple `<workflowID>` elements. You can add or delete an assetID that is associated with one revision of a file by adding or deleting element a `<assetID>` element. You can add or delete a workflowID that is associated with one revision of a file by adding or deleting a `<workflowID>` element.

### 3.1.12.3 Update OEVFDemo.html

This step is needed to add new or modify existing test cases for OEVF.

The launching OEVF URL defined inside `<a>` tag calls `".../jvue/frmApplet.jsp"` page combined with some of the following parameters.

**Table 3–3 OEVF URL parameters**

URL Request Parameter	Value and Description
aID	A Value defined for <code>&lt;assetID&gt;</code> element in oevf.xml.
docID	A value defined for <code>&lt;docID&gt;</code> element in oevf.xml.
wID	A value defined for <code>&lt;workflowID&gt;</code> element in oevf.xml.
embedded	V0 or new such parameter: AutoVue applet appears in a new window. 1: AutoVue applet is embedded in the caller's browser window.
goBack	Work together with embedded=0. 0 or no such parameter: The caller's browser displays an empty page with the launching OEVF URL. 1: The caller's browser displays the OEVFDemo.html page.
guiFile	Name of the AutoVue GUI to be used.

You can pass in only aID, only wID, aID with wID, aID with dID, wID with dID, aID with wID and dID in addition with embedded or goBack or guiFile param. Refer to *OEVFDemo.html* for the meaning of different combinations.

### 3.1.12.4 Copy the OEVF GUI files to AutoVue

Copy `assetView.gui` and `assetEdit.gui` files from inside the ISDK installation `AutoVueIntegrationSDK/FileSync/OEVF` folder to the folder `<AutoVue Installation Directory>/bin/Profiles` folder. If the Profiles folder does not exist, create one before copying.

### 3.1.13 Step 13: Configure New Sample Data

You can add new data to the existing sample Filesys repository. It is recommended not to rename the folder name or file name, or delete existing data, because the sample data is preconfigured to demonstrate certain functionalities (for example, for RTC Demo and OEVF demo).

Refer to the section "Add new data to the document repository" in the *Sample Integration for Filesys User Guide* for information on how to manually, or using JDeveloper or Eclipse, add new data after you create the Filesys project.

### 3.1.14 Step 14: Run the Filesys Project

The following steps describe how to run the Sample Integration for Filesys project:

1. Run the AutoVue Server.
2. Deploy project and start WebLogic server on Eclipse:
  - Go to the Servers view by clicking Servers.
  - Right-click on the Oracle WebLogic Server and then click **Add and Remove**. In the Add and Remove dialog, select your project from the left panel, click **Add** to add the project to the right panel, and then click **Finish** to exit.
  - Click to start the server.
3. Start WebLogic server and deploy project on JDeveloper:
  - a. From menu bar select **Run** and then select **Start Server Instance** (IntegratedWeblogicServer) to start the WebLogic Server.
  - b. Right-click the project, click **Deploy** and click your project's name. The Deploy dialog appears.
  - c. From the Deploy dialog, select **Deploy on Application Server**, click **Next**, then select **IntegratedWeblogicServer**.
  - d. Accept the default setting and click **Next**.
  - e. At the last page, click **Finish**.
  - f. Note down the host IP and port number from the server's Deployment log. For example, the following may appear in the log: *<Channel "Default" is now listening on 10.10.1.1:7101 for protocols...>*. In this case, note down 10.10.1.1:7101.
4. Launch a Web browser and enter the URL address `http://<localhost>:port/<context>` to launch the home page for ISDK Demo. For example:
  - For Eclipse, the URL can be `http://<localhost>:7001/filesys`.
  - For JDeveloper, the URL can be `http://10.10.1.1:7101/ISDKSamples-filesys-context-root`.
5. If you run into an issue when launching the project, verify that the FilesysVueLink and VueServlet servlets are running properly using the following URLs:
  - `http://<host:port>/context/servlet/FilesysVuelink`
  - `http://<host:port>/context/servlet/VueServlet`

Replace the `<host:port>` using your own host name, WebLogic server's port.

Replace context with the context for Filesys project on IDE.

If VueLink and VueServlet are running properly, the URLs load and display their respective version and build information, and in the case of the VueServlet, whether

the connection state is OK. If you do not get a successful response, perform the following verifications:

- Verify that the AutoVue server is running.
- Verify that your project is installed deployed correctly.
- Verify that web.xml is configured properly.
- Verify that your application server is running and functioning properly.

## 3.2 ISDK Web Services Sample Server

The ISDK Web Services Sample Server project can be created by either basing it on an existing project or by creating a new project manually. The following sections discuss both methods.

---

**Note:** The SOAP Message Transmission Optimization Mechanism (MTOM) is not supported in this release of Sample Web Services Server.

---

In the event you have updated the Blueprint WSDL file, it is recommended that you create the project manually by following the steps described in [Section 3.2.2, "Method 2: Create a Project Manually."](#)

### 3.2.1 Method 1: Use an Existing Project Template

The following steps describe how to create an ASP.NET Web Services Server project using Microsoft Visual Studio 2008 based on an existing project template.

1. Copy the template `wsserver_VisualStudio2008.zip` from the `<ISDK Installation Root>\WebServicesIntegration\WebServicesSampleServer\C#` directory to the `<User home directory>\Templates\ProjectTemplates\Visual C#` directory.
2. Select **New** and then select **Project**.
3. From the left panel select **Other Languages** and then select **Visual C#**.
4. From My Templates select `wsserver_VisualStudio2008`.
5. In the Name field change it to `wsserver_VisualStudio2008`.
6. Click **OK**.
7. Open `Service1.asmx.cs` file.
8. Locate the following lines and verify that the filepaths mentioned are available.

```
// Path to the filesys repository sample data. You might need to update it.
private static string filesysRepositoryRoot =
"c:\\Oracle\\filesysRepository\\";
// Path to the Stamp files (dmstamps.ini and stampimage.bmp) and
// MarkupPolicy.xml. You might need to update it.
private static string definitionPath = "C:\\Oracle\\definition\\";
```

9. After the ISDK default installation on Window OSes, the Filesys repository sample data is available in a compressed format (\*.zip) at `C:\Oracle\AutoVueIntegrationSDK\FileSys\Repository\filesysRepository.zip`. You must extract the contents of the file to the `filesysRepositoryRoot` location as defined in the `Service1.asmx.cs` file. The definition files are available from the `C:\Oracle\AutoVueIntegrationSDK\FileSys\WebApplication\filesys\WEB-INF\`

lib directory. You must copy these files to *definitionPath* as defined in the Service1.asmx.cs file.

10. Verify that the project compiles without error.
11. Run the project.

### 3.2.2 Method 2: Create a Project Manually

The following steps describe how to create an ASP.NET Web Services Server project manually using Microsoft Visual Studio 2008.

1. Generate the ASP.NET Web Services code from the ISDK Web Services WSDL file. To do so:
  - a. Open Visual Studio Command Prompt.
  - b. Run the following command from the temp folder: `wSDL.exe /Language:CS /si wSDL_location xSD_location`
  - c. After the ISDK default installation on Windows, the ISDK Web Services WSDL file is located at  
C:\Oracle\AutoVueIntegrationSDK\WebServiceClient\WSDL\BluePrint.wSDL and the ISDK Web Services XSD file is located at  
C:\Oracle\AutoVueIntegrationSDK\WebServiceClient\WSDL\BluePrint.xsd.
  - d. A BluePrintInterfaces.cs file is generated in the temp folder.
  - e. Create the ASP.NET Web Services project using Microsoft Visual Studio 2008:
2. Create the ASP.NET Web Services project using Microsoft Visual Studio 2008:
  - a. Select **New** and then select **Project**.
  - b. Select **Visual C#** and then select **Web**.
  - c. Select **ASP.NET Web Services Application**.
  - d. Enter the project name and then click **OK**.
  - e. Update the ASP.NET Web Services project:
3. Update the ASP.NET Web Services project:
  - a. Right-click the project you just created and then select **Add** and then select **Existing Item**.
  - b. Browse to the temp folder and then select **BluePrintInterfaces.cs**.
  - c. Click **Add**.
  - d. Open the BluePrintInterfaces.cs file and locate the following line:

```
[System.Web.Services.WebServiceBindingAttribute(Name="BluePrintBinding",  
Namespace="artifact.wsclient.vuelink.cimmetry.com")]
```
  - e. Change the Name to *BluePrint*.
  - f. Open the Service1.asmx.cs file and locate the following lines:

```
[WebService(Namespace = "http://tempuri.org/")]  
[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]  
[ToolboxItem(false)]
```
  - g. Replace these lines with the following:

```
[WebService(Name = "BluePrint", Namespace =
```

```
"artifact.wsclient.vuelink.cimmetry.com")]
[System.Web.Services.Protocols.SoapDocumentService(RoutingStyle =
SoapServiceRoutingStyle.RequestElement)]
```

- h. Replace the implementation code for the Service class with those available in the Service1.asmx.cs file.

- i. Locate the following lines:

```
//Path to the filesys repository sample data. You might need to update it.
private static string filesysRepositoryRoot =
"c:\\Oracle\\filesysRepository\\";
//Path to the Stamp files (dmstamps.ini and stampimage.bmp) and
//MarkupPolicy.xml. You might need to update it.
private static string definitionPath = "C:\\Oracle\\definition\\";
```

---

**Note:** After the ISDK default installation on Window OSes, the Filesys repository sample data is available in a compressed format (\*.zip) at C:\\Oracle\\AutoVueIntegrationSDK\\FileSys\\Repository\\filesysRepository.zip. You must extract the contents of the file to the filesysRepositoryRoot location as defined in the Service1.asmx.cs file. The definition files are available from the C:\\Oracle\\AutoVueIntegrationSDK\\FileSys\\WebApplication\\filesys\\WEB-INF\\lib directory. You must copy these files file to definitionPath as defined in the Sevice1.asmx.cs file.

---

- j. Verify the project compiles without error.
- k. Run the project.



If you have any questions or require support for AutoVue, please contact your system administrator. If the administrator is unable to resolve your issue, please contact us using the links below.

### A.1 General AutoVue Information

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<b>Web Site</b>	<a href="http://www.oracle.com/us/products/applications/autovue/index.html">http://www.oracle.com/us/products/applications/autovue/index.html</a>
<b>Blog</b>	<a href="http://blogs.oracle.com/enterprisevisualization/">http://blogs.oracle.com/enterprisevisualization/</a>

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### A.2 Oracle Customer Support

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<b>Web Site</b>	<a href="http://www.oracle.com/support/index.html">http://www.oracle.com/support/index.html</a>
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### A.3 My Oracle Support AutoVue Community

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<b>Web Site</b>	<a href="https://communities.oracle.com/portal/server.pt">https://communities.oracle.com/portal/server.pt</a>
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### A.4 Sales Inquiries

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<b>E-mail</b>	<a href="mailto:autovuesales_ww@oracle.com">autovuesales_ww@oracle.com</a>
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