Oracle AutoVue VueLink for Oracle WebCenter Content Release 21.0.1

System Administrator Manual
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1 Preface

The Oracle AutoVue VueLink for Oracle WebCenter Content (WCC) System Administrator Manual describes the installation and configuration steps for the VueLink.

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

1.1 Audience

The Oracle AutoVue VueLink for Oracle WCC System Administrator Manual is intended for customers who want to integrate their Oracle WebCenter Content system with the Oracle AutoVue, Client/Server Deployment family of products.

1.2 Related Documents

For more information, refer to the following documents:

- *Security Guide*
- *User Manual*
- *Release Notes*

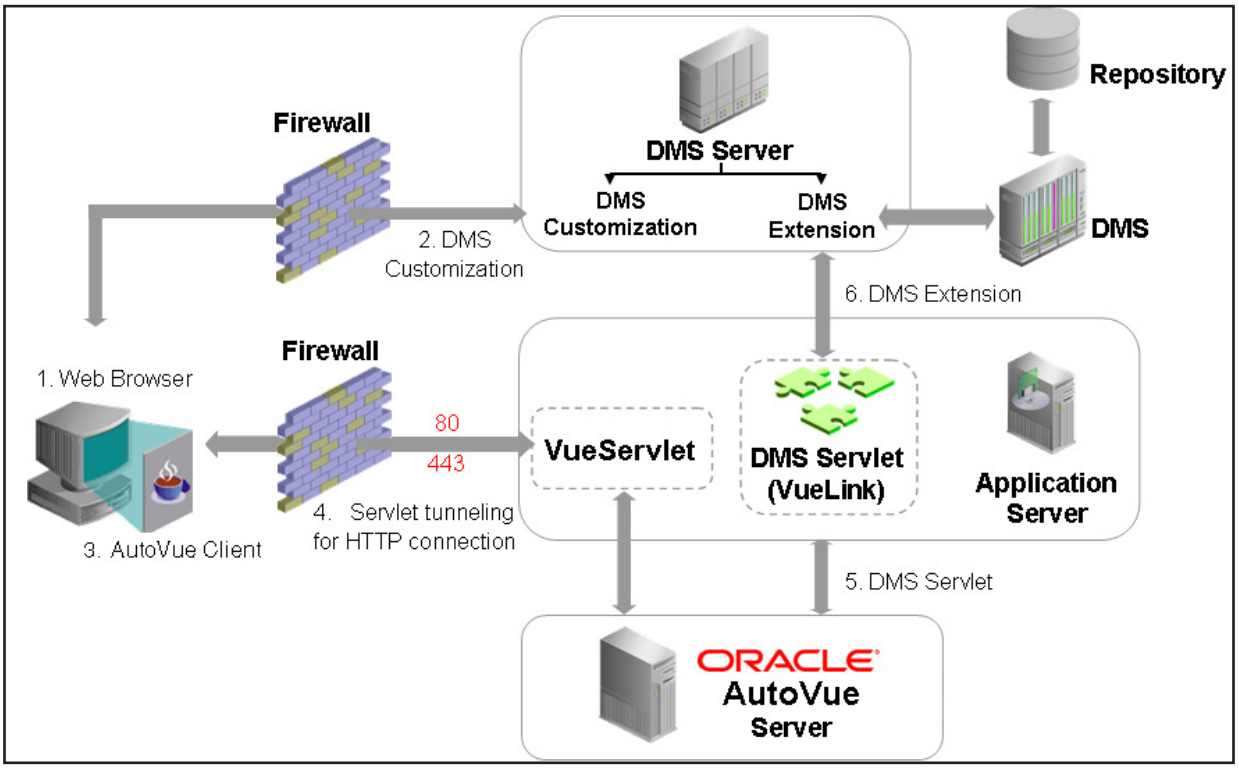
1.3 Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in the text.
italic	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.

2 Introduction

The Oracle AutoVue Vuelink for Oracle WebCenter Content (WCC)[1] servlet allows AutoVue to communicate with Oracle WebCenter Content using standard HTTP protocol. The following diagram and steps describe a typical configuration of how AutoVue integrates with WebCenter Content (DMS Server in the diagram).



1 Log onto the DMS through a Web browser.

2 With DMS customization in place, a link for "View in AutoVue" is associated with each file stored in the DMS.

3 When you click this link, the AutoVue client is launched and displays that file.

4 Depending on AutoVue's configuration, the AutoVue client communicates with the AutoVue server through *servlet tunnelling for HTTP connection*.

5 The AutoVue server communicates with the VueLink Servlet (DMS Servlet in the diagram) using a standard HTTP or HTTPs connection.

6 With DMS Extension installed on the server, the DMS Servlet can communicate with the DMS to handle requests made by the AutoVue server such as file "fetching."

Note: For secure deployments, the AutoVue client and AutoVue server should be configured to use the HTTPS connections.

To display a composite file (a file with external references), the VueLink Servlet retrieves the file along with all its supporting files from the DMS and makes them available to the AutoVue server. Then AutoVue processes them and the AutoVue client displays the composite file. From here you can redline the file, create new Markups, save Markups into DMS and open Markups from DMS.

1. In this document, *Oracle AutoVue Vuelink for Oracle WCC* is also referred to as *Vuelink*.

3 System Requirements

- Operating Systems that are certified in this release:
  - Windows Server 2008 R2, 2012 R2, 2016
    - 64-bit
  - Oracle Enterprise Linux 6.x or 7.x
    - 64-bit
- Oracle AutoVue, Client/Server Deployment
  - Release 21.0.1
  - Release 21.0.2

  Note: For more information, refer to the *Oracle AutoVue, Client/Server Deployment Installation and Configuration Guide* for each respective release.
- Oracle WebCenter Content server 12c
- Application Server/Servlet Engine
  - Oracle WebLogic Server 12c (12.2.1.3)

4 Installation Prerequisites

Before integrating AutoVue with Oracle WebCenter Content, ensure WebCenter Content, Oracle AutoVue, Client/Server Deployment, and the application server (Oracle WebLogic Server Enterprise Edition) are properly installed and configured on your system according to the manufacturer's instructions. It is recommended to test both WebCenter Content and AutoVue independently to verify that the installation has been successful and that all functions are available and produce the expected results.

5 Manual Installation

This section describes the steps necessary to install the VueLink manually. In order for Oracle AutoVue, Client/Server Deployment and WebCenter Content to work properly, you must perform the following steps in the order listed:

1 Unpacking Oracle AutoVue VueLink for Oracle WCC

2 Configuring Oracle WebCenter Content for VueLink

3 Configuring VueLink for WCC Web Application

4 Optional Configurations

5 Upgrading to a Different Version of AutoVue

The following sections explain these steps in further detail.

5.1 Unpacking Oracle AutoVue VueLink for Oracle WCC

From the media pack, unzip **VLForUCM.zip** in a working directory.

5.2 Configuring Oracle WebCenter Content for VueLink

The following sections explain how to configure VueLink.

5.2.1 Updating config.cfg

This section describes how to edit config.cfg so that WebCenter Content can receive requests from the VueLink machine.

1 In a text editor such as Notepad, browse to the <WebCenter Content installation>\cs\config folder and open config.cfg.

2 Perform a search in config.cfg for `SocketHostAddressSecurityFilter`. The result will display with list of IP addresses assigned to it.

3 Verify that the IP address of the machine where VueLink servlet will be installed is included. Add the IP if it is missing.

Note: Use the "|" character to separate the IP addresses.

For example:

```
SocketHostAddressSecurityFilter=127.0.0.1|10.26.1.171|
10.26.6.47
```

4 Save and close the text editor.

5.2.2 Adding a Markup Schema

In order for VueLink to support markup functionality, the administrator must first configure WCC by adding the following three schema elements:

- A new field called **Markup_BasedID**.
- A new field called **MarkupCounter.**
- A new field called **MarkupType**.

Note: The field names are case-sensitive.

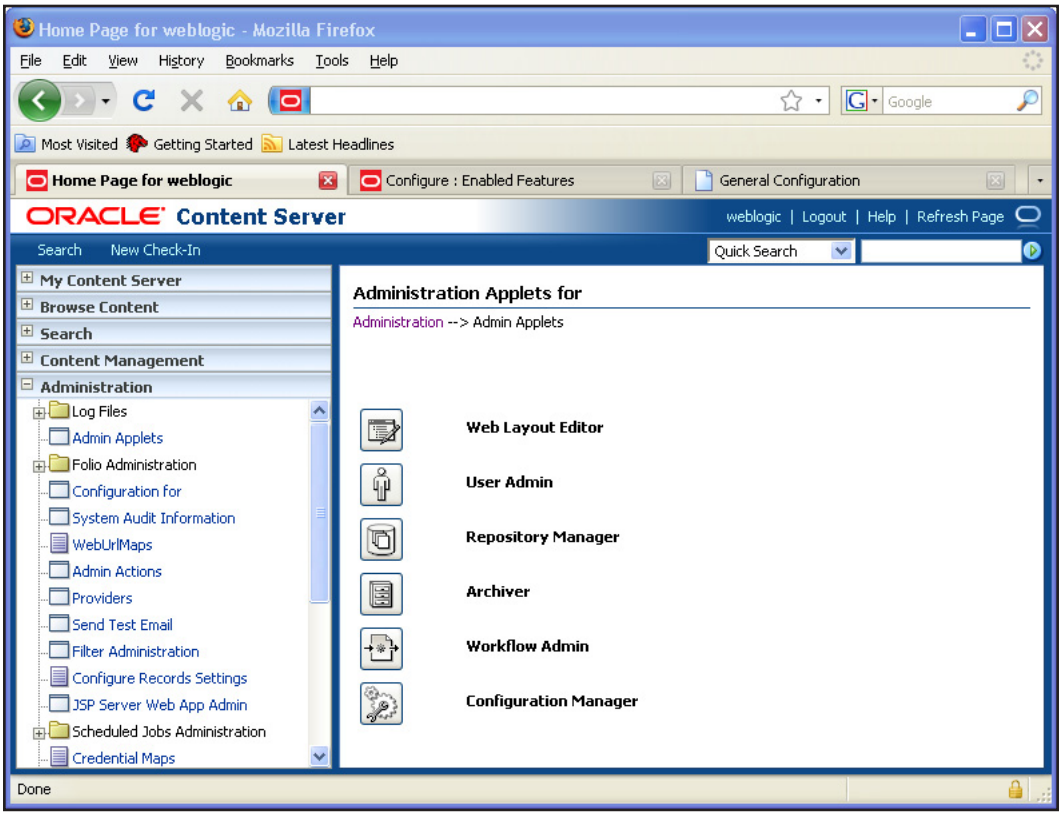
To add a markup schema, do the following:

1 Run a Web browser.

2 Login to Oracle WCC as Administrator.

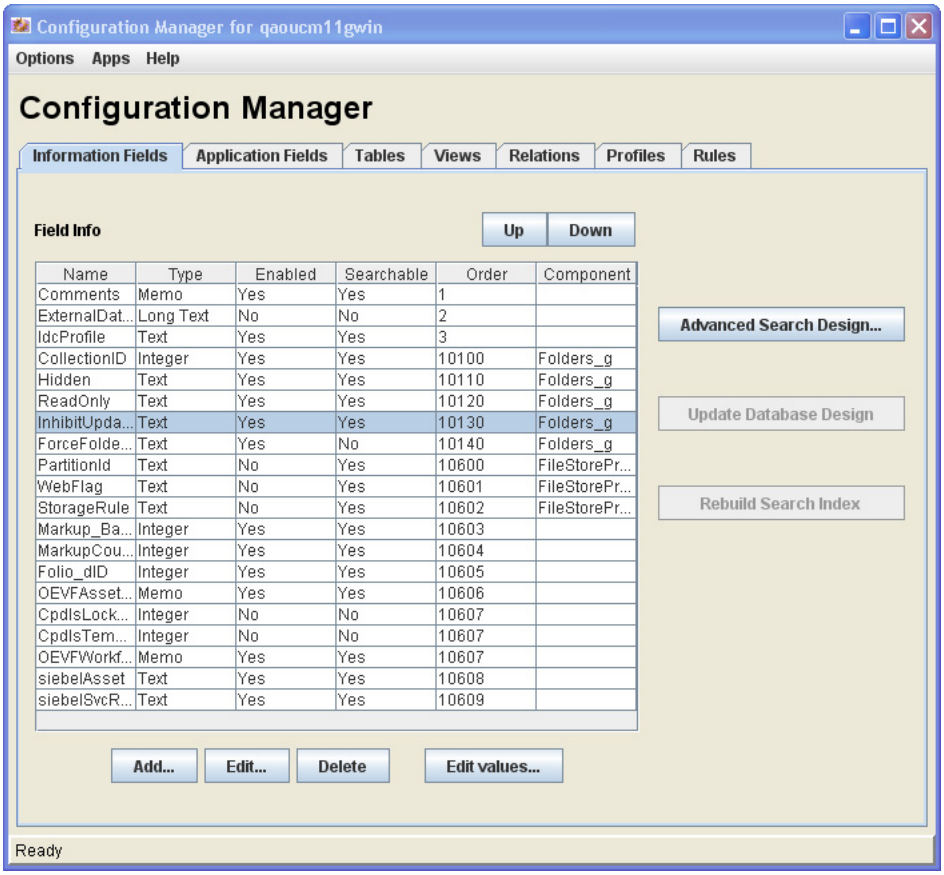
3 From the **Administration** menu, and then select **Admin Applets**.

The Administration Applets page appears.



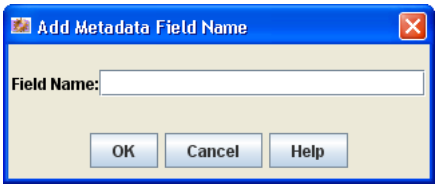
4 Click **Configuration Manager**  .

The Configuration Manager dialog appears.



5 From the **Information Fields** tab, click **Add**.

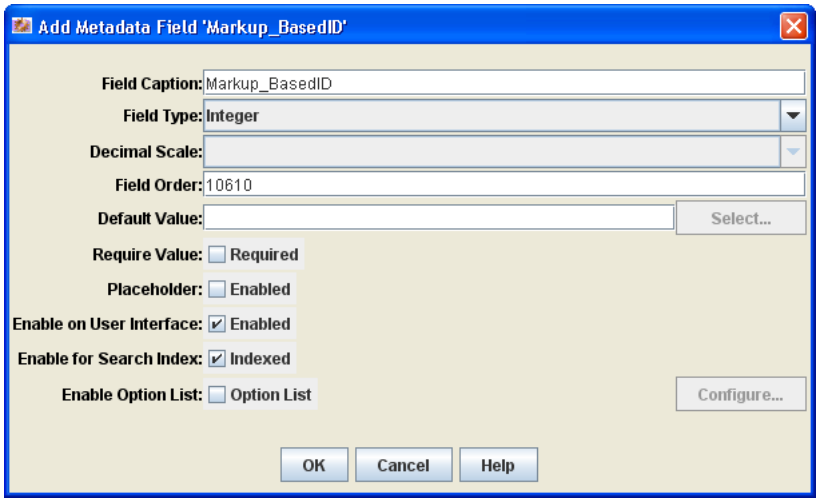
The Add Metadata Field Name dialog appears.



6 Enter *Markup_BasedID* in the **Field Name** field and then click **OK**.

Note: It is important to match the case of the field name as it is case sensitive.

The Add Metadata Field Name ‘Markup_BasedID’ dialog appears.



7 Enter the following information in the dialog:

- From the Field Type list, select **Integer**.
- Accept the pre-populated value in the Field Order field.
- Select the **Enable on User Interface** check box.
- Select the **Enable for Search Index** check box.

8 Click **OK**.

The dialog closes and Markup_BasedID is added to the Field Info list.

9 Repeat steps 5 through 8 for Markup Counter except enter “MarkupCounter” in the Field Name field.

10 Repeat steps 5 through 8 for Markup Type, except enter "MarkupType" in the Field Name field and choose "Text" for the Field Type.

11 Click **Update Database Design.**

12 Click **Rebuild Search Index**.

5.2.3 Installing AutoVue Component

This section provides information on how to register the AutoVue component with WebCenter Content. When you successfully complete this task, the *View in AutoVue* menu should appear in the WebCenter Content interface.

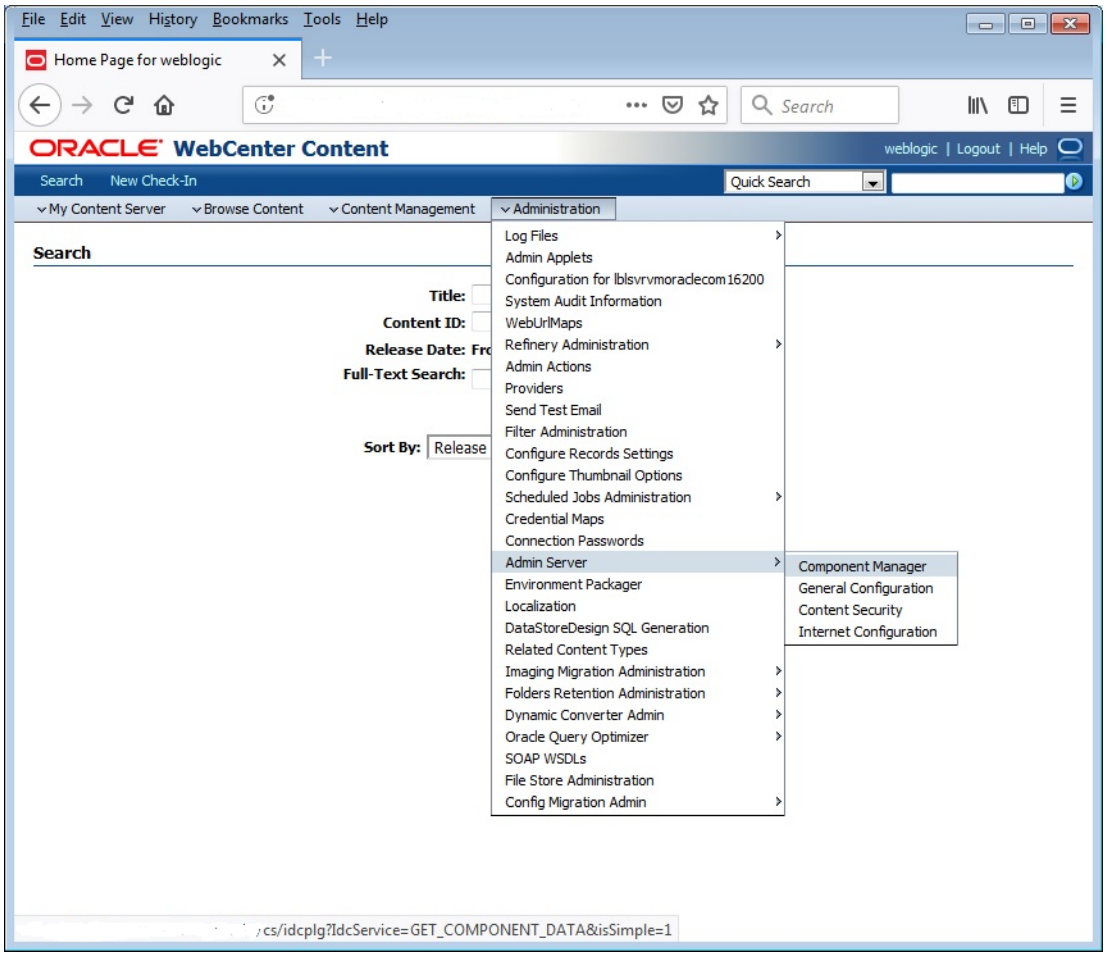
To install the VueLink module (AutoVue component) for WebCenter Content, perform the following:

1 Verify that WebCenter Content is installed properly.

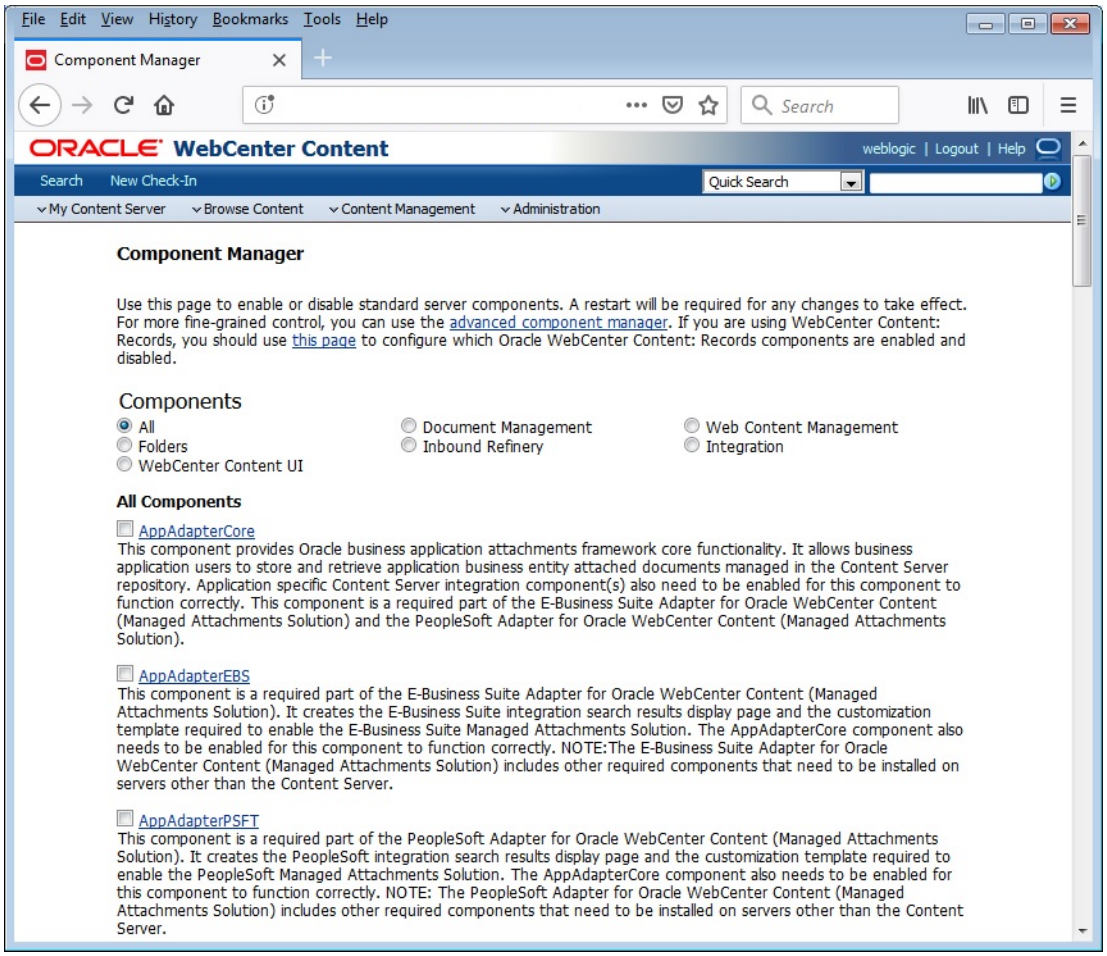
2 Run a Web browser.

3 Login to Oracle WebCenter Content as Administrator.

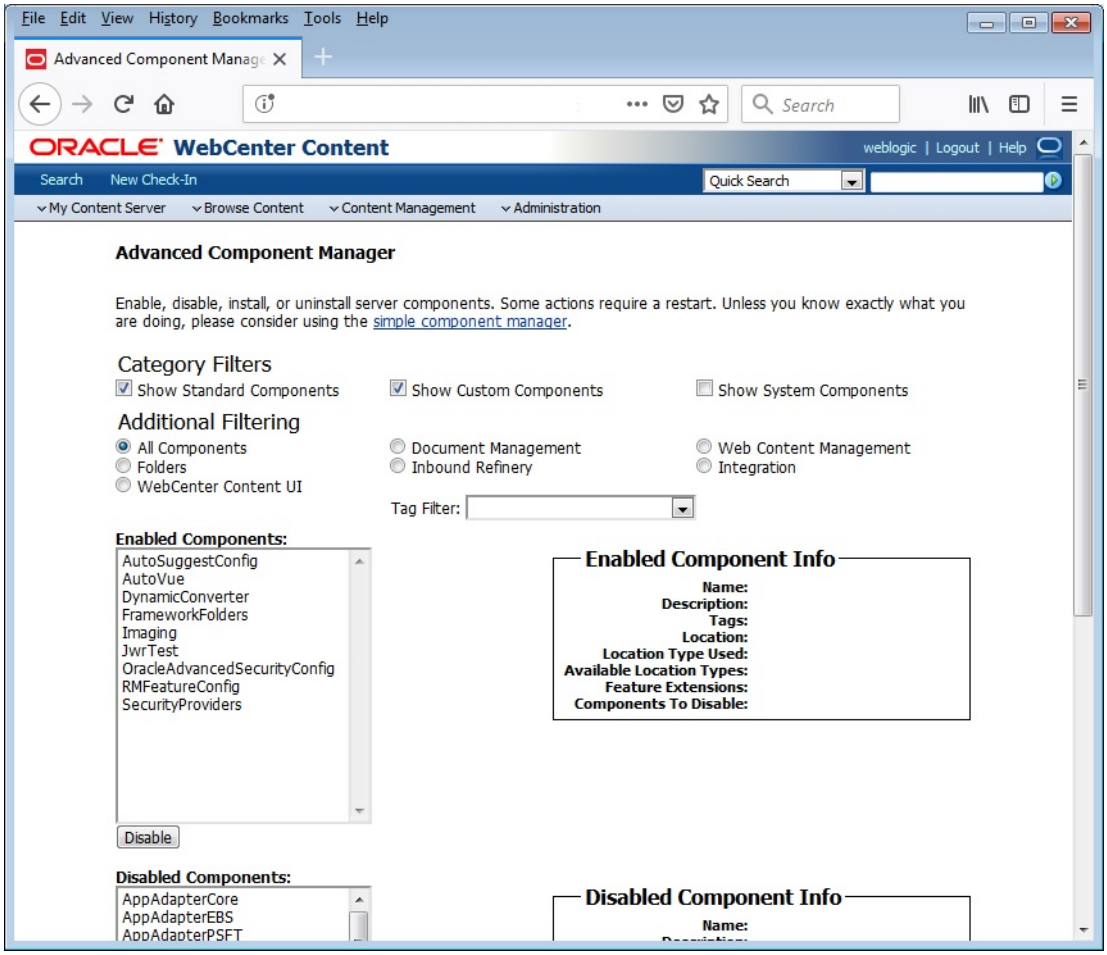
4 From the **Administration** menu, select **Admin Server**, then click the Component Manager.



The Content Admin Server page appears.



5 From the main page, click the link for **advanced component manager**.
The Advanced Component Manager appears.



6 To install a new component, scroll to the bottom of the page, and then click **Browse** in the Install New Component section.

The File Upload dialog appears.

7 Navigate to the folder containing the VueLink module for WebCenter Content, and select AutoVue.zip.

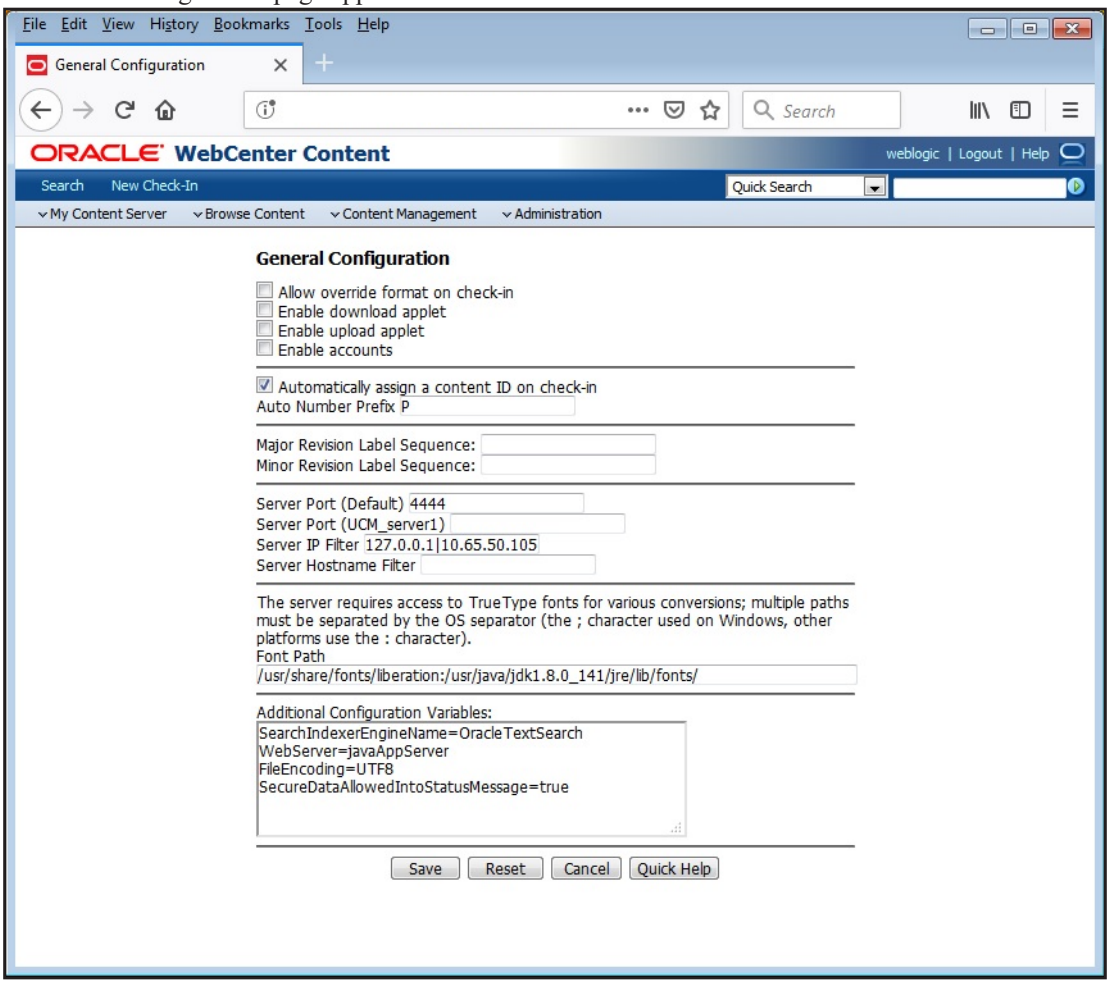
Note: This file is usually found on the media pack under the <VueLink Unzip Folder>\dms_customization folder.

8 Click **Install**.

Note: If the AutoVue component is listed as a disabled component, select it and click **Enable**.

9 From the **Administration** menu, click **Admin Server/General Configuration**.

The General Configuration page appears.



10 To automatically assign a content ID, select the **Automatically assign a content ID on check in** check box.

11 Click **Save.**

12 Restart the WebCenter Content service.

13 After the WebCenter Content server is restarted, the following alert appears in the WebCenter Content Search page stating that the index collection must be rebuilt. To do so:

a. Go to **WebCenter Content Administration -> Admin Applets -> Repository Manager -> Indexer -> Collection Rebuild Cycle -> Start -> Use fast rebuild -> OK**.

This completes the customization.

5.2.3.1 Verification

To verify that the AutoVue component has been installed in the WebCenter Content, perform the following steps:

1 Login to Oracle WebCenter Content as Administrator.

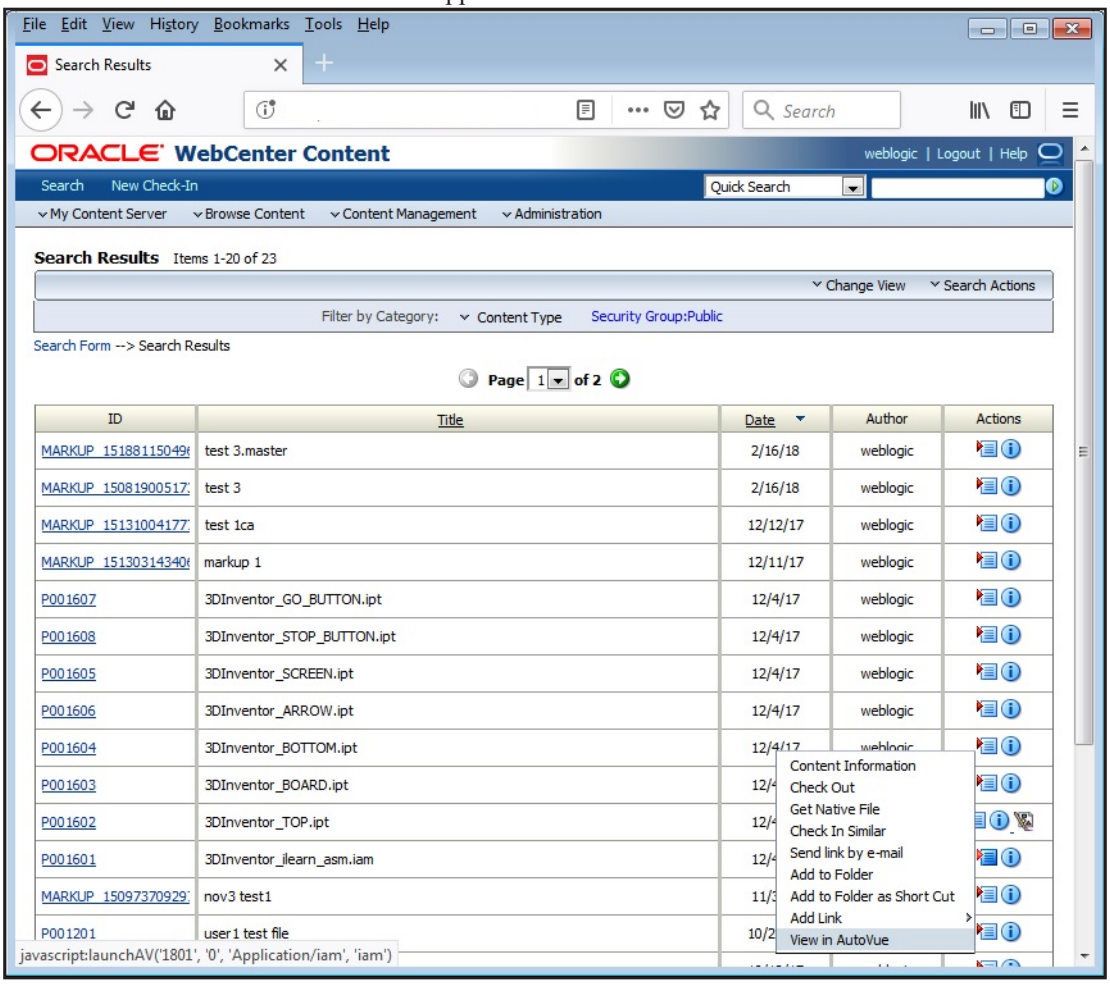
The Search page appears.

2 Click **Search**.

The Search Results page appears.

3 From the actions column click .

The View in AutoVue item in the menu should appear.



5.3 Configuring VueLink for WCC Web Application

As mentioned in the introduction, the VueLink servlet provides the connection between the AutoVue Server and the WebCenter Content Server repository. The following steps describe the procedure required to configure and deploy this linkage successfully:

- Configuring web.xml
- Installing Security Configuration Files
- Verification

5.3.1 Configuring web.xml

This section describes how to update web.xml in order to configure settings in the VueLink. For example, you can set verbosity, the AutoVue server host name, WebCenter Content search criteria, and so on.

1 In a text or XML editor, open the web.xml file located in the <VueLink Unzip Folder>\Vuelink_war\autovue\WEB-INF directory.

2 Locate the JVueServer parameter under the VueServlet initialization parameters section.

3 In this section, specify the host name of the machine that the AutoVue server is running on and the port that AutoVue is listening to for connection. These values must be specified in the following format:

```
hostname:port
```

The default value for the AutoVue port is 5099. It must be the same as the *jvueserver.socket.port* parameter inside *jvueserver.properties* in the AutoVue bin directory.

For Example:

```
<init-param>
<param-name>JVueServer</param-name>
<param-value>AutoVueMachineName:5099</param-value>
</init-param>
<init-param>
```

The rest of the parameters inside web.xml are preconfigured based on the VueLink package.The following table contains brief descriptions of these parameters:

Property	Description	Default
VueLink Logging Parameters		
log4jInitFile	Settings file used by VueLink logging tool (log4j).	\WEB-INF\lib\log4j.properties
Markup Parameters		
CSI_IntellistampDefLocation	Specify the location of the stamp definition file which is either the relative path to the Web application or absolute path to a local file. For more information on stamp configuration, refer to the Stamp section. Syntax: CSI_IntellistampDefLocation =/WEB-INF/lib/dmstamps.ini or c:/temp/dmstamps.ini For more information on configuring Stamp, refer to **Configuring Stamp**.	/WEB-INF/lib/dmsstamp.ini
CSI_BlankMarkupLocation	The location of the blank markup which is either the relative path to the Web application or the absolute path to a local file. Syntax: CSI_BlankMarkupLocation =WEB-INF/lib/BlankMarkup.mrk or c:/temp/BlankMarkup.mrk Blank markup is used internally by VueLink for OEVA use cases.	/WEB-INF/lib/BlankMarkup.mrk
CSI_MarkupPolicyDefLocation	The location of the Markup Policy file which is either the relative path to the Web application or the absolute path to a local file. Syntax: CSI_MarkupPolicyDefLocation =/WEB-INF/lib/MarkupPolicy.xml or c:/temp/MarkupPolicy.xml. Markup policy is used to control the markup operations.	/WEB-INF/lib/MarkupPolicy.xml
WebCenter Content Search Parameters **Note:** These parameters should not be changed if you are not changing the packaging of VueLink Web application.		

Property	Description	Default
MaxSearchResults	Specify the maximum number of result display on VL for WebCenter Content search page. Syntax: MaxSearchResults=100	100
AdvanceSearch	Semi-colon separated the search criteria and each search criteria should have three values (name, type, Label) which is separated by comma ",". The attributes which are support for VueLink for WebCenter Content Search are listed in Appendix B. Syntax: AdvanceSearch= dDocType,text,Type;dCollectionID,list,Folder	
DCOLLECTIONID	The WebCenter Content attribute name that is used by the "COLLECTION_BROWSE" service to list WebCenter Content folders. Syntax: DCOLLECTIONID=dCollectionID	dCollectionID
XCOLLECTIONID	The WebCenter Content attribute name that is used by the GET_SEARCH_RESULTS service in WebCenter Content to list the contents of a given folder. Syntax: XCOLLECTIONID=xCollectionID	xCollectionID
Other Parameters **Note:** These parameters should not be changed if you are not changing the packaging of VueLink Web application.		
Renditions	Semi-colon separated list of allowed formats used as renditions. This is a list of conversion formats that enable saving the result of conversion back into WebCenter Content. To disable saving conversion back to WebCenter Content set this variable empty. By conversion to TIFF, windows Bitmap and PDF will give the user option to save the conversion back to WebCenter Content. Syntax: Renditions =PCRS_TIF;PCRS_BMP;PCVC_PDF	
saveAttempt	Specify the number of attempts when saving files to the backend WebCenter Content system and checking the file existence.	20

4 Save the configuration file and close the text editor.

5.3.2 Installing Security Configuration Files

This release of VueLink uses a version of OWASP Enterprise Security API (AvESAPI) Java Edition and related AvESAPI resource files to enhance security. In this version, ESAPI configuration for AutoVue has been moved to a file called AvESAPI.properties to allow any customers' use of ESAPI to be left unchanged.

Note: Refer to the Security Guide for more information.

VueLink customizes the default resources AvESAPI.properties and Validation.properties provided by AvESAPI. After unzipping VLForUCM.zip, the customized resource files AvESAPI.properties and Validation.properties are available under the Vuelink_war\ESAPI_resources directory.

AvESAPI has a default search order to find and load its resource files. The application server searches and loads these resources before loading applications. To place these resources in a different location, it is recommended to use the

-Dcom.cimmetry.vuelink.esapi.resources JAVA_OPTIONS in the WebLogic application server's startup or setDomainEnv script. For example, to do so:

- Copy the content inside AvESAPI_resources folder to a safe location. For example, C:\mysafe_avesapi_resources_location.
- Edit the server startup batch/script file and add a new JAVA option.
  For example, Set
  JAVA_OPTIONS=..Dcom.cimmetry.vuelink.esapi.resources=C:\mysafe_avesapi_resources_location
- Start the WebLogic server. The WebLogic console should display the information stating that the resource files have been found.

  For example: `Found in 'Dcom.cimmetry.vuelink.esapi.resources' directory: C:\mysafe_avesapi_resources_location\AvESAPI.properties`

  Note: You must safeguard your AvESAPI resource location in order to avoid unauthorized access.

After conducting the manual steps, archive the VueLink application to a WAR file and deploy the WAR file according to the deployment instructions in your application server documentation.

The same WebLogic application server that hosts the WebCenter Content Web application can be used to host the VueLink Web application as long as VueLink is deployed in a separate context.

Security plays an important role in communication between applications. It is highly recommended to deploy the VueLink in a secure fashion. The "Configuring HTTPS/SSL Deployment" section of the *Oracle AutoVue VueLink for Oracle WCC Security Guide* provides the steps on how to deploy the VueLink with HTTPS/SSL settings.

It is also important to limit the VueLink Web application's access to the server machines that host WebCenter Content and the AutoVue server. Refer to appendix **Restricting Access to a VueLink Web Application**.

5.3.3 Verification

To make sure that the deployment of the VueLink WAR file is successful, and that your application server is running properly, you must verify the availability of the following two servlets.

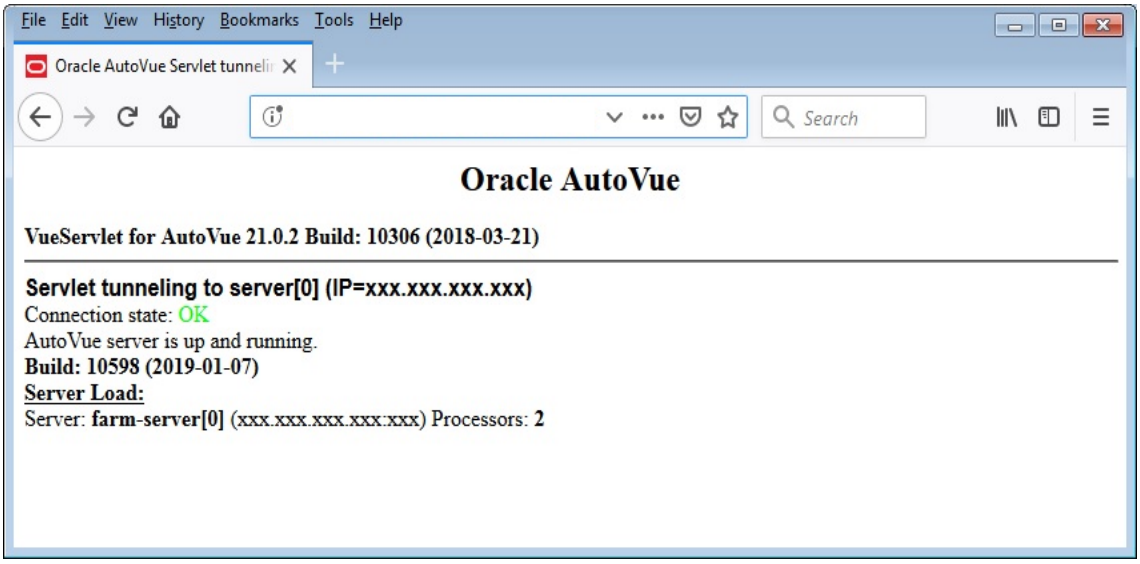
5.3.3.1 Verifying that VueServlet is Running Properly

To verify that the VueServlet is running properly from the VueLink's server machine, launch a Web browser and enter the URL pointing to the VueServlet alias name, which is defined inside web.xml (by default it is VueServlet) of the VueLink Web application.

Here is an example of a URL:

```
http://<VueLink Host Machine>:>VueLink port>/autovue/servlet/VueServlet
```

A green *OK* message should appear on the screen with some information about the build number and date of VueServlet along with the hostname of the AutoVue server and its port number.



5.3.3.2 Verifying that VueLink is Running Properly

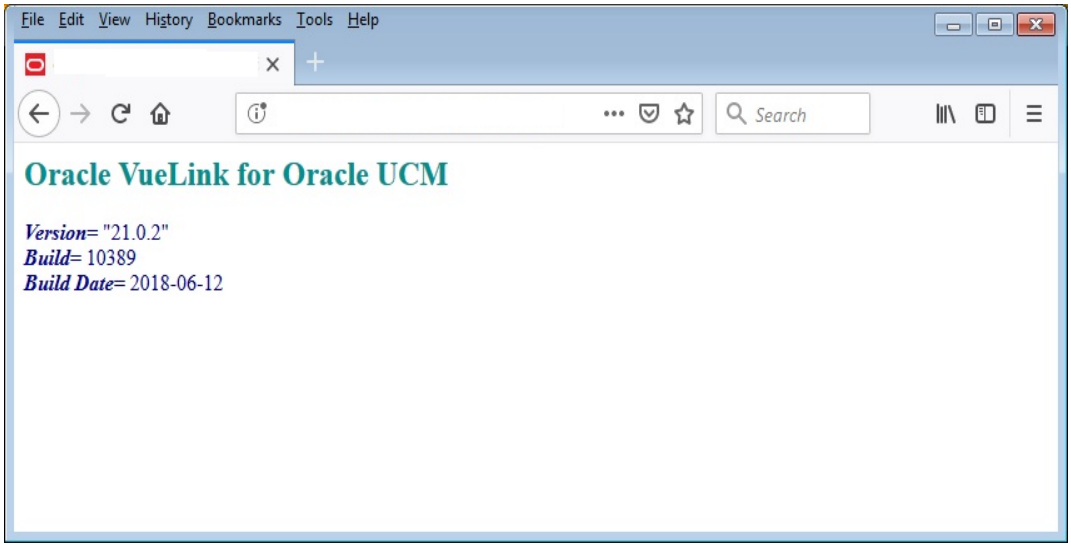
To verify that the VueLink Servlet (com.cimmetry.vuelink.ucm.DMS) is running properly, from the AutoVue server, launch your Web browser and enter the URL pointing to the Servlet alias name, which you assigned when installing VueLink.war into the application server.

The following is an example of a URL:

```
http://<VueLink Host Machine>:<VueLink port>/autovue/servlet/DMS
```

The following screenshot shows a sample response if VueLink is running properly. If you do not get a response similar to the one shown, verify that the VueLink Servlet is installed and deployed properly and that your application server is running and functioning properly.

Note: The build number and build date are shown in the response.



5.4 Optional Configurations

This section provides information on optional configurations.

5.4.1 Modifying view_in_autovue_page.htm

Many AutoVue client parameters are set in the view_in_autovue_page.htm template page. By default, the VueLink assumes that the AutoVue support servlets (VueJNLPServlet, VueRDVServlet, VueServlet) are running on the same server as the Content Server UI. If this is not the case, the location can be modified by editing the view_in_autovue_page.htm template. You can use the WCC's ComponentWizard application to edit the AutoVue component.

In order to change AutoVue client parameters, you may modify the view_in_autovue_page.htm file:

1 From the <WebCenter Content installation>\cs\custom\AutoVue\templates directory, open view_in_autovue_page.htm in a text editor.

2 Modify the file as required.

5.5 Upgrading to a Different Version of AutoVue

This sections describes how to migrate settings from previous versions of Oracle AutoVue, and Oracle AutoVue VueLink for Oracle WCC to the newest version.

VueLink for 21.0.1 is shipping with the client materials for AutoVue 21.0.2. If you want to switch to using AutoVue version 21.0.1, or to uptake a subsequent patch release, you have to replace the original client-related files with the corresponding versions in the new release. These files include the JAR files that are downloaded to client's machines (jvue/jogl/gluegen-rt/jsonrpc4j jars and autovue.js), the VueServlet on the application server, and the AutoVue Server. The administrator should review their settings in web.xml, and the AutoVue JNLP template file in the web app.

The client jars can be copied from <AutoVue Install Root>/bin directory to the <working directory>/Vuelink_war/autovue directory, while vueservlet.jar should be copied from <AutoVue Install Root>/bin to the <working directory>/Vuelink_war/autovue/WEB-INF/lib directory.

Once the updates have been made to the Vuelink_war directory, it can be assembled into an installable WAR file either by using Java's jar utility, or the directory can be specified in WebLogic's "Update Application Assistant" user interface to refresh the deployment.

5.5.1 Updating Version of Oracle AutoVue

In this release of VueLink for WCC, when updating your version of AutoVue, you must copy the new JAR files (gluegen-rt.jar, jogl.jar, jsonrpc4j.jar and jvue.jar) from the <AutoVue Install Root>\bin directory to the <WebCenter Content installation>\cs\custom\AutoVue\common directory. When the server restarts, the JAR files are then automatically updated to <WebCenter Content installation>\cs\weblayout\common folder

You must update the vueservlet.jar located in the <VueLink Unzip Folder>\Vuelink_war\vuelink\WEB-INF\lib with the vueservlet.jar located in the <AutoVue Install Root>\bin directory. Once vueservlet.jar has been updated, you must redeploy the VueLink Web application.

If you are deploying VueLink Web application in a WAR format, you must regenerate a new WAR file after the vueservlet.jar is updated in the folder and then redeploy the newly generated WAR file through the server console.

If you are deploying VueLink Web application using its folder, you can simply redeploy the folder through the server console.

6 Configuring Stamp

Oracle AutoVue VueLink for Oracle WCC comes with a predefined Stamp called **Oracle-sample** (a background image with the Oracle logo as a watermark). The Stamp definition file, dmstamps.ini, is stored inside the WEB-INF\lib directory along with an additional image, stampimage.bmp.

You can create a new Stamp with the Stamp Designer tool Designer.bat that is included in the **bin** directory of Oracle AutoVue, Client/Server deployment. Alternately, you can open dmstamp.ini in a text editor and change the attribute names or image file name.

If you move the dmstamp.ini file to a new location, you must update the Stamp definition file path inside VueLink's web.xml (CSI_IntellistampDefLocation). You must also verify that the background image in dmstamp.ini matches the location change. The sample stamp image should be in the same folder as dmstamp.ini, but it can be moved to another directory. The dmstamp.ini file path can be absolute or relative to the VueLink application folder. The image path inside dmstamp.ini should be absolute or just a filename if the image is in the same folder as dmstamp.ini.

For more information on configuring CSI_IntellistampDefLocation, refer to **Configuring web.xml**.

Make sure the account that is running the VueLink application has the read permission to the location that the Intellistamp file and its associated images are stored.

For more information on designing stamps, refer to the Oracle AutoVue, Client/Server Deployment Installation and Configuration Guide.

Appendix A: Supported Search Attributes

The following attributes, which are specified in web.xml, can be used as VueLink Advanced Search criteria:

Name	Type	Label	Description
dCollectionID	list	Folder	Searches for the ID of a folder inside WebCenter Content.
dDocType	text	Type	Searches for a document type inside WebCenter Content.
dSecurityGroup	text	Security Group	Searches for the WebCenter Content security group of the document.
dDocAuthor	text	Author	Searches for the author name of the document inside WebCenter Content.
xComments	text	Comments	Searches for comments inside documents records
dOutDate	Date	Expiration Date	Searches for the expiration date of a document in WebCenter Content.
xMarkup_BasedID	integer	Markup_BaseID	Searches for the document ID of the markup's base file inside WebCenter Content.
xMarkupCounter	integer	MarkupCounter	Searches for the number of markups inside WebCenter Content.
xReadOnly	boolean	Read Only	Searches the read-only status of the document inside WebCenter Content.

Appendix B: Troubleshooting

Markups Cannot be Saved

When working with a file from WebCenter Content, you can add and save Markups. However, in the event a Markup file cannot be saved (it appears as *Untitled* in the Markup tree), you must re-index WebCenter Content. To do so:

1 Login to Oracle WebCenter Content as Administrator.

2 From the **Administration** menu, select **Admin Applets**.

3 From the main page, select **Repository Manager**.
The Repository Manager is launched through Java Web Start.

4 Select the Indexer tab.

5 In the Automatic Update Cycle section, click **Start**.
When the State field changes to *Finished*, proceed to the next step.

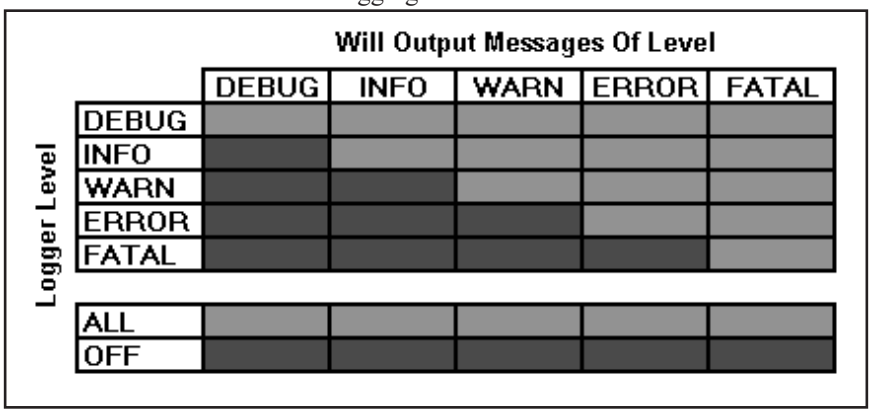
6 In the Collection Rebuild Cycle section, click **Start**.
The cycle is complete when the State field changes to *Finished*.

You may now add and save new markups to a file in WebCenter Content.

Running VueLink in Debug Mode

VueLink uses the apache log4j package for logging. The default configurations are set in the log4j.properties or log4j.xml configuration files located in the WEB-INF\lib folder of the VueLink application. You can change the level and location of the output by modifying the logger configuration file set in the WEB-INF\web.xml file.

The following table shows the different levels of logging available.



: No

: Yes

- 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.

For example, if you want to elevate the log to the DEBUG level, then set the default configuration to the DEBUG level, then set level="debug" in the Logger for com.cimmetry.vuelink in either log4j.xml or log4j.properties files.

VueLink messages are logged inside the file pointed to by the `appender.rolling.fileName` entry in log4j.properties. Similarly you can modify the RollingFile filename entry in the log4j.xml to specify the file name for

the VueLink logging messages

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

Appendix C: Restricting Access to a VueLink Web Application

The VueLink servlet does not require public access, it only needs to be accessed by WebCenter Content and the AutoVue server. To prevent unauthorized access to the VueLink servlet, it is recommended to tighten the deployment and limit access to the VueLink either through one of the following:

- A firewall in your environment
- A mechanism provided by the WebLogic application server

If a firewall or an HTTP server is used, refer to their respective documentation on how to limit access to a resource to certain IP addresses. In this case, only access to the VueLink servlet, not the VueServlet, must be restricted.

The WebLogic application server includes a filtering mechanism to filter connections to the application server. The filter provided with WebLogic allows you to write a custom code for filtering. To use the filter, the VueLink servlet must be deployed on a different port than the one WebCenter Content is on and can be on the same or different domain of the WebLogic application server.

The follow are detailed steps on how to configure the filtering mechanism.

1 Open a Web browser.

2 Enter login credentials for the WebLogic Admin Console.

3 From the left page, select the domain that you want to configure (the domain that VueLink is deployed on).

4 Select **Security** and then **Filter**.

5 Select the Connection Logger Enabled checkbox to enable the logging of accepted messages. The Connection Logger logs successful connections and connection data in the server. This information can be used to debug problems relating to server connections.

6 In the Connection Filter field, specify the connection filter class to be used in the domain.

To configure the default connection, specify `weblogic.security.net.ConnectionFilterImpl`

7 In the Connection Filter Rules field, enter the syntax for the connection filter rules. The syntax is as follows:

```
targetAddress localAddress localPort action protocols
```

The following is the recommended rule set (assuming that the VueLink is deployed on port 7001):

```
# Allow access from the WebCenter Content machine (can be the VueLink host)
<WebCenter Content IP or hostname> * 7001 allow
# Allow access from the AutoVue machine
<autovue IP or hostname> * 7001 allow
# Refuse the http and https access for all other machines
<IP range to be restricted> * 7001 deny http https
```

Replace the `<WebCenter Content IP or hostname>` and `<autovue IP or hostname>` wit the actual hostname or IP address of the machines.

Replace the `<IP range to be rested>` with the range of IPs that should be prohibited from accessing the port that the VueLink is running on. If your network provides IPv6, it is recommended to use it instead of IPv4.

For more information on connection filter rules and syntax, refer to “Using Network Connection Filters” in the WebLogic documentation.

8 Click **Save**.

9 Restart the WebLogic Server so that your changes can take effect.

For more information, refer to the “Configuring Security for a WebLogic Domain” in the WebLogic documentation.

Note: If you accidentally enter rules that completely block access to the WebLogic server, and are no longer able to access the admin console, you must locate the config.xml file inside the WebLogic server machine (under the domain directory) and remove the `<connection-filter-rule>` parameters that deny access to the server from legitimate machines.

Appendix D: Controlling Read Functionality of Markups

Oracle AutoVue Vuelink for Oracle WCC can be customized in order to control the read functionality of markups. For example, when markups are read, customized logic must be in place in order to verify whether the user has the required permissions to update the markup. If the user does not have the required permissions, then the markup is ready-only.

Third-party integrators must provide an implementation which inherits the class com.cimmetry.vuelink.ucm.propactions.Markup. There are two methods that the third-party integrator may need to implement:

- `protected ArrayList<String> preAction(final DMSQuery query, final DMSSession session)`
  Users can specify more attributes to display in the Markup Open dialog, and put them in ArrayList as the return. Currently, the following attributes for the markup are listed in the Markup Open dialog: Name, Markup Type, Author, Revision, Modification date, Size, Asset, Workflow, and Comments.
- `protected DMSProperty postAction(DMSProperty property, final DMSQuery query, final DMSSession session)`
  User specifies the logic to filter the markups list stored in the first parameter of the method.

Several utility methods are available to assist third-party integrators:

- `protected final String getProperty(DMSQuery query, DMSSession session, UCMDocID docID, String propName)`
  Returns the property for given docID
- `protected final ArrayList<String> getUserAccounts(final DMSQuery query, final DMSSession session )`
  Returns information about user account in ArrayList object.
- `protected final String getUserName(DMSSession session)`
  Returns current user name.
- `protected final ArrayList<String> getUserRoles(final DMSQuery query, final DMSSession session)`
  Returns information about user role in ArrayList object .
- `protected final Iterator<?> query(DMSQuery query, DMSSession session, String queryString)`
  Returns query result for a given query statement.

After successfully implementing the custom code, integrators must compile it with the vuelinkcore.jar, vuelinkforucm.jar, oracle.ucm.ridc-11.1.1.jar, log4j-api.jar, and log4j-core.jar libraries in the classpath. The class file must then be placed under the WEB-INF/classes directory and be registered in web.xml by replacing `com.cimmetry.vuelink.ucm.propactions.Markup` with the actual class name.

Oracle AutoVue Vuelink for Oracle WCC provides sample code bundled with this release under the SampleCode folder in order to demonstrate the implementation. In the sample code, method `preAction()` adds one more attribute, `dDocName`, to be displayed in the Markup Open dialog. Method `postAction()` places the logic to manipulate the markup list based on the user role (that is, if the user is the adminstrator or has an administrator role, all the markups are editable). Otherwise, the user can only edit markups created by the user, while other markups are read-only.

Note: Oracle AutoVue Vuelink for Oracle WCC application must be redeployed for the changes to take effect.

Appendix E: Feedback

If you have any questions or require support for AutoVue please contact your system administrator. If at any time you have questions or concerns regarding AutoVue, please contact us.

General AutoVue Information

Web Site	https://www.oracle.com/us/products/applications/autovue/index.html
Blog	https://blogs.oracle.com/enterprisevisualization/

Oracle Customer Support

Web Site	https://www.oracle.com/support/index.html

My Oracle Support AutoVue Community

Web Site	https://communities.oracle.com/portal/server.pt

Sales Inquiries

Web Site	https://www.oracle.com/corporate/contact/global.html