

Oracle AutoVue VueLink for Oracle UCM Release 20.1.0

System Administrator Manual

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Contents

1 Preface	4
1.1 Audience	4
1.2 Related Documents	4
1.3 Conventions	4
2 Introduction	5
3 System Requirements	7
4 Installation Prerequisites	8
5 Manual Installation	9
5.1 Unpacking Oracle AutoVue VueLink for Oracle UCM	9
5.2 Configuring VueLink	9
5.2.1 Updating adapterconfig.xml	9
5.2.2 Updating config.cfg	10
5.2.3 Customizing Oracle WebCenter Content	10
5.2.4 Updating autovue_environment.cfg	15
5.2.5 Updating web.xml	16
5.3 Installing the CIS Client	19
5.4 Deploying the VueLink Web Application	19
5.4.1 Verification	20
5.5 Optional Configurations	21
5.5.1 Working With XRefs	21
5.5.2 Configuring System Locale	28
5.5.3 Modifying view_in_autovue_page.htm	28
5.6 Upgrading to a Newer Version of VueLink	29
5.6.1 Markup Counter Synchronization	29
6 Configuring Intellistamp	30
Appendix A: Creating a CAD Folio Template	31
Appendix B: Supported Search Attributes	37
Appendix C: Troubleshooting	38
Markups Cannot be Saved in Applet	38
Running VueLink in Debug Mode	38
Appendix D: Restricting Access to a VueLink Web Application	40
Appendix E: Controlling Read Functionality of Markups	42
Feedback	43
General Inquiries	43
Sales Inquiries	43
Customer Support	43

1 Preface

The Oracle AutoVue VueLink for Oracle UCM 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 <http://www.oracle.com/technetwork/documentation/autovue-091442.html>.

1.1 Audience

The *Oracle AutoVue VueLink for Oracle UCM System Administrator Manual* is intended for third-party developers 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*
- *Clustering Guide*
- *User Manual*
- *Developer's Guide*
- *Release Notes*

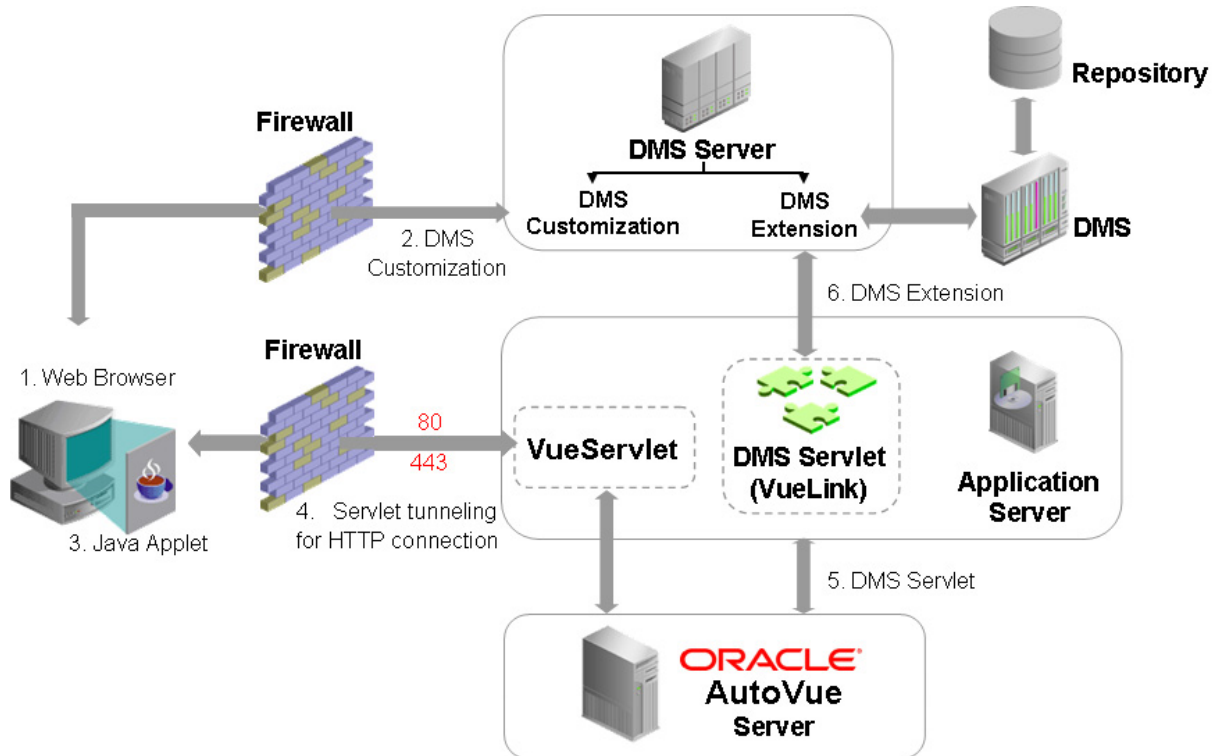
1.3 Conventions

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.
<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.

2 Introduction

The Oracle AutoVue VueLink for Oracle UCM¹ servlet allows AutoVue to communicate with Oracle WebCenter Content² (WCC) 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 the viewer appears next to each file stored in the DMS.
- 3 When you click this link, the AutoVue client is launched and you may view that file inside the Web browser window.
- 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 connection.
- 6 With DMS Extension installed on the server, the DMS Servlet can communicate with the DMS to handle any request made by the AutoVue server such as file "fetching."
For example, a DMS extension consists of the dependent components of the DMS Servlet that act as a bridge between the AutoVue server and the backend DMS.

Note: In addition to using a standard HTTP connection, the AutoVue client and AutoVue server may also use an HTTPS connection.

To display a composite file (a file with external references), the VueLink Servlet retrieves the file along with all its component files from the DMS and makes them available to the AutoVue server. Then AutoVue processes them and

1. In this document, *Oracle AutoVue VueLink for Oracle UCM* is also referred to as *VueLink*.

2. Formerly Oracle Universal Content Management (UCM)

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.

3 System Requirements

- Operating Systems that are certified in this release:

- Windows Server 2008 R2
 - 64-bit
- Oracle Enterprise Linux 5.6 (x86)
 - 32-bit
 - 64-bit

- Oracle AutoVue, Client/Server Deployment
 - Release 20.1.1
 - Release 20.2

Note: For more information, refer to the *Oracle AutoVue, Client/Server Deployment Installation and Configuration Guide* for each respective release.

- Oracle WebCenter Content server 11g R1 (11.1.1.6)

The following versions of WCC server are also certified, but include certain limitations:

- Release 11.1.1.5: Does not work with Managed Attachments. Refer to bug number 13463860.
- Release 11.1.1.3: Does not work with Managed Attachments. Contact Oracle Customer Support for patch 13503047 for bug number 10377938.

Note: If using a clustered deployment of WCC with SSL, you need a patch for AutoVue release 20.1.1. Contact Oracle Customer Support for patch 13355276.

- Oracle Content Integration Suite 11g(11.1.1.6)
- Application Server/Servlet Engine
 - Oracle WebLogic Server 11gR1 (10.3.5.0)

Note: For customers licensing Oracle AutoVue VueLink Integration - Oracle Universal Content Management: Limited use of the Content Integration Suite (CIS) functionality of Oracle WebCenter Content (formally known as Oracle Universal Content Management Enterprise Edition), limited to use with Oracle AutoVue VueLink Integration - Oracle Universal Content Management.

- Certified Adaptors
 - E-Business Suite 12.1.2¹
 - Siebel CRM 8.1¹
 - PeopleSoft Enterprise HRMS 9.1¹
 - Primavera P6
 - Primavera Contract Management

1. VueLink for Oracle UCM does not work for this adaptor when configured with WCC Release 11.1.1.3.

4 Installation Prerequisites

Before integrating AutoVue with Oracle WebCenter Content, ensure WebCenter Content, Oracle AutoVue, Client/Server Deployment, and the application server 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 UCM"](#)
- 2 ["Configuring VueLink"](#)
- 3 ["Installing the CIS Client"](#)
- 4 ["Deploying the VueLink Web Application"](#)
- 5 ["Customizing Oracle WebCenter Content"](#)
- 6 ["Optional Configurations"](#)
- 7 ["Upgrading to a Newer Version of VueLink"](#)

The following sections explain these steps in further detail.

5.1 Unpacking Oracle AutoVue VueLink for Oracle UCM

From the media pack, unzip VLForUCMzip.

5.2 Configuring VueLink

The following sections explain how to configure VueLink.

5.2.1 Updating adapterconfig.xml

This section describes how to edit adapterconfig.xml so that the VueLink is able to connect to WebCenter Content.

- 1 In a text editor such as Notepad, browse to the <VueLink Unzip Folder>\Vuelink_war\vuelink\WEB-INF\lib folder and open adapterconfig.xml.
- 2 Perform a search in adapterconfig.xml for the "host" and replace its property value with the host name where WebCenter Content is installed.

Note: Verify that the port specified matches the one specified on the WebCenter Content server in the *config.cfg* file on the server.

For example:

```
<?xml version="1.0" ?>
<config>
<adapter default="true" name="myadapter">
<config>
<property name="port">4444</property>
<property name="host">localhost</property>
<property name="type">socket</property>
</config>
<beans template="classpath:/META-INF/resources/
adapter/adapter-services-scs.xml"/>
</adapter>
</config>
```

- 3 Save and close the text editor.

5.2.2 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 Add to this list the IP address of the machine where VueLink is installed.

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.

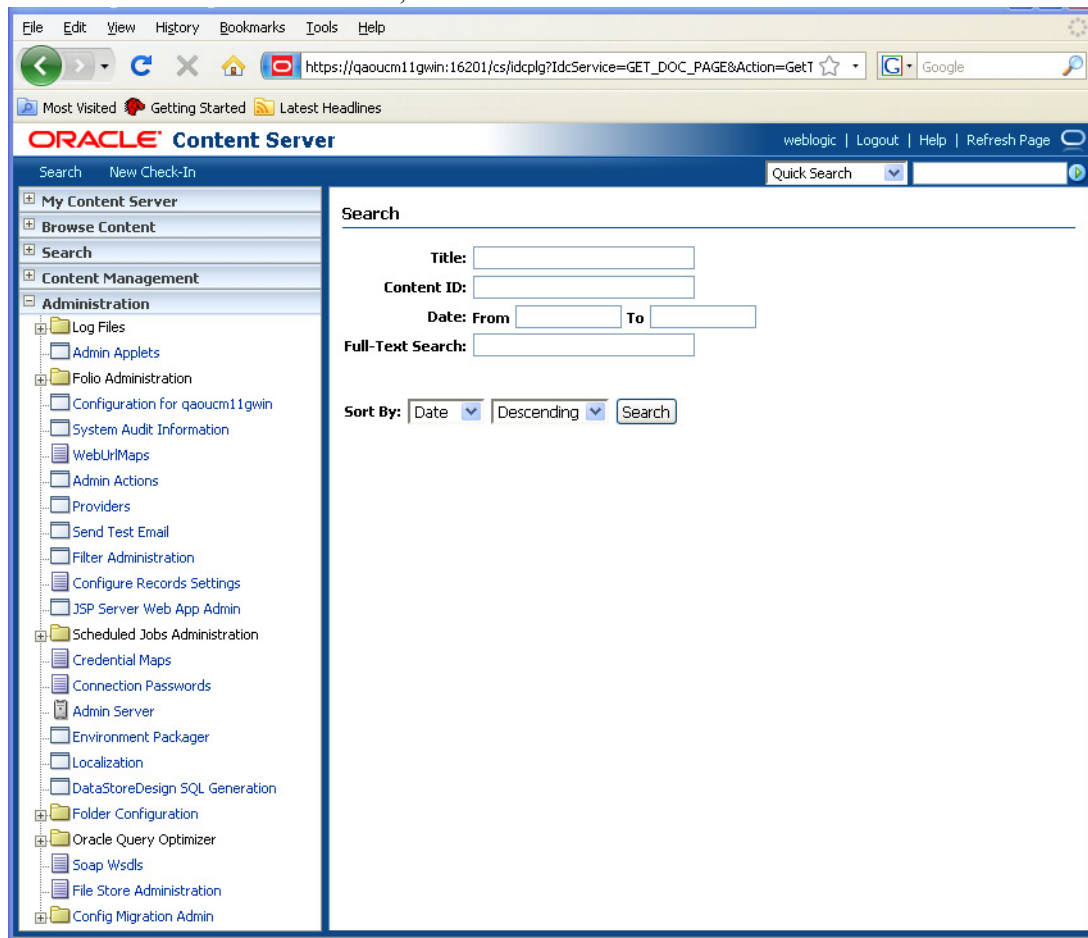
5.2.3 Customizing Oracle WebCenter Content

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.

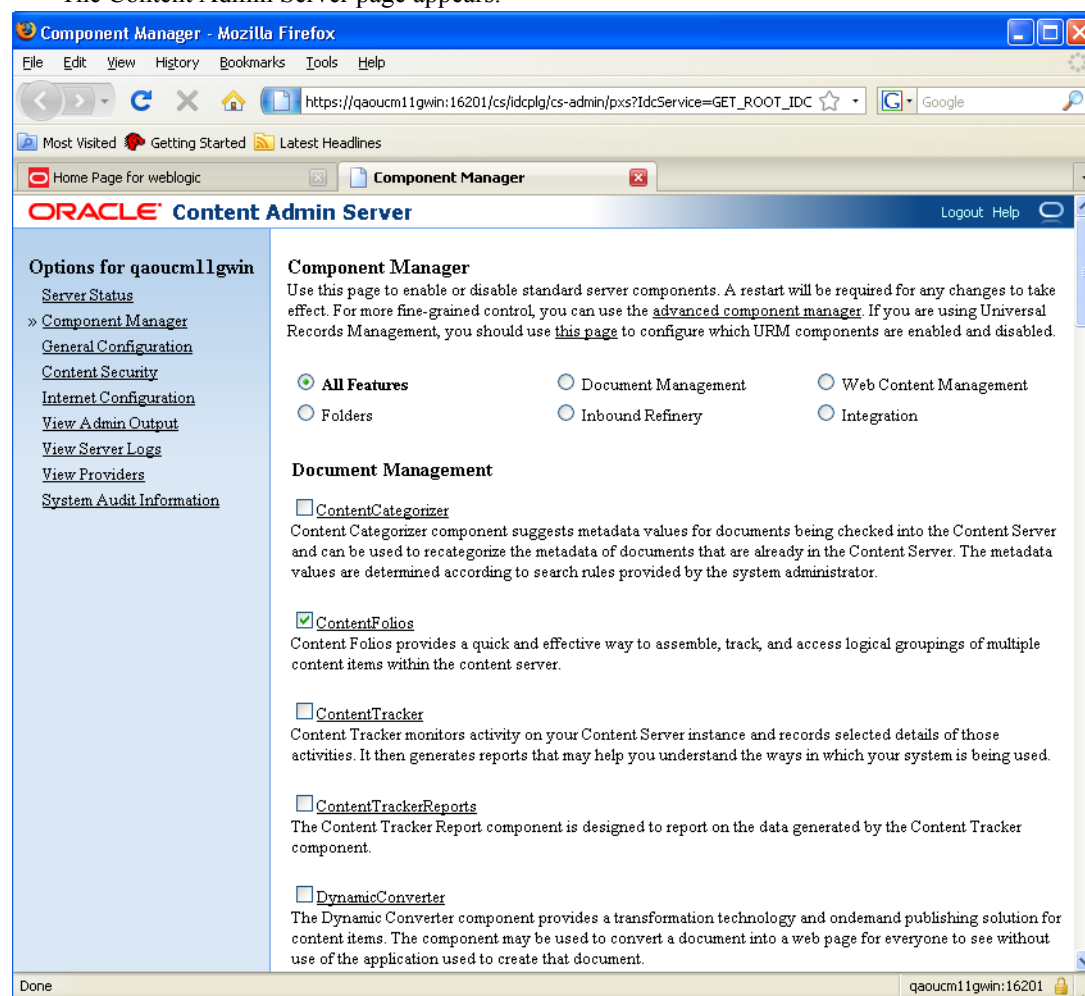
To install the VueLink module (AutoVue component) for WebCenter Content, perform the following:

- 1 Verify that WebCenter Content is installed properly.
- 2 Run a Web browser.
- 3 Login to Oracle WebCenter Content as Administrator.

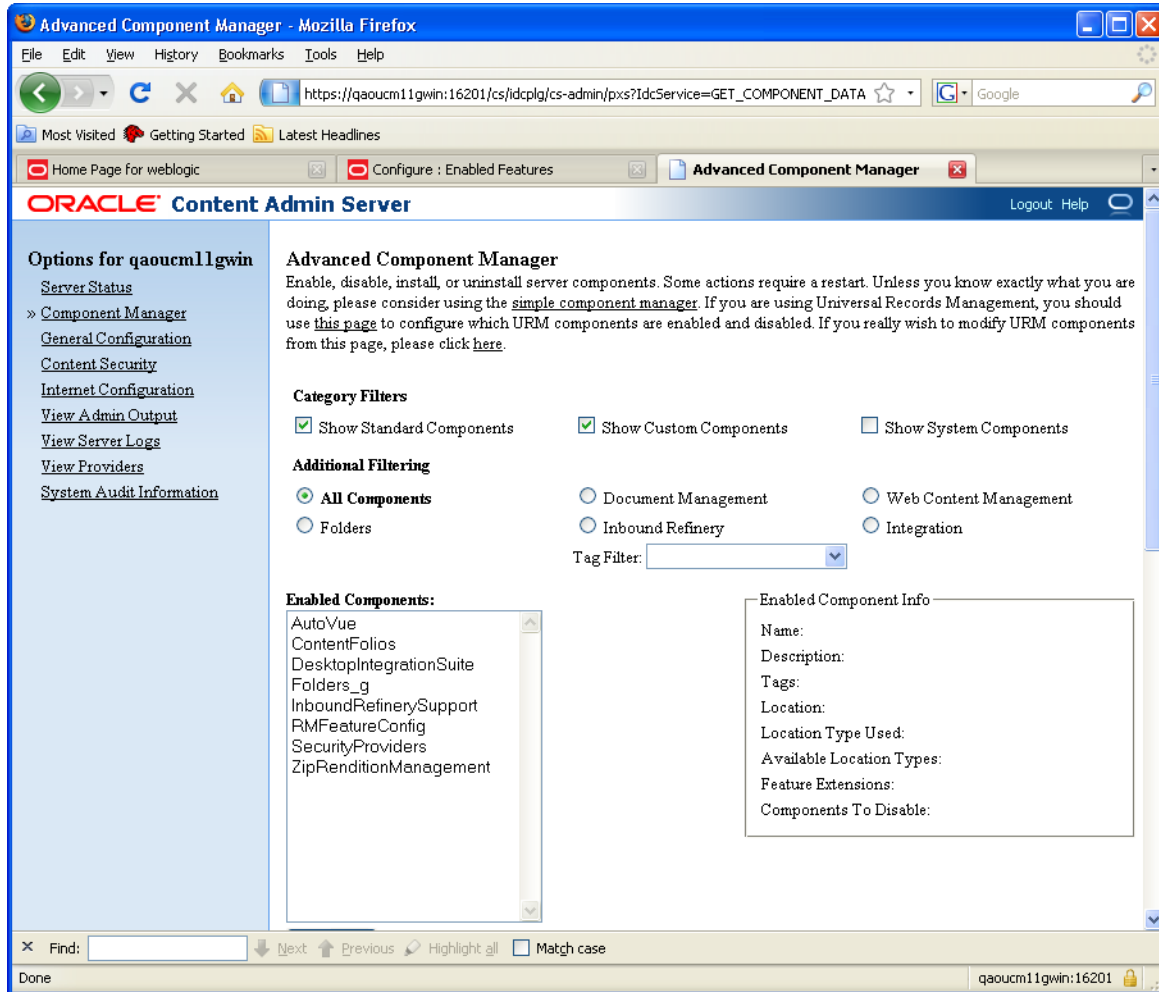
4 From the **Administration** menu, and then select **Admin Server**.



The Content Admin Server page appears.

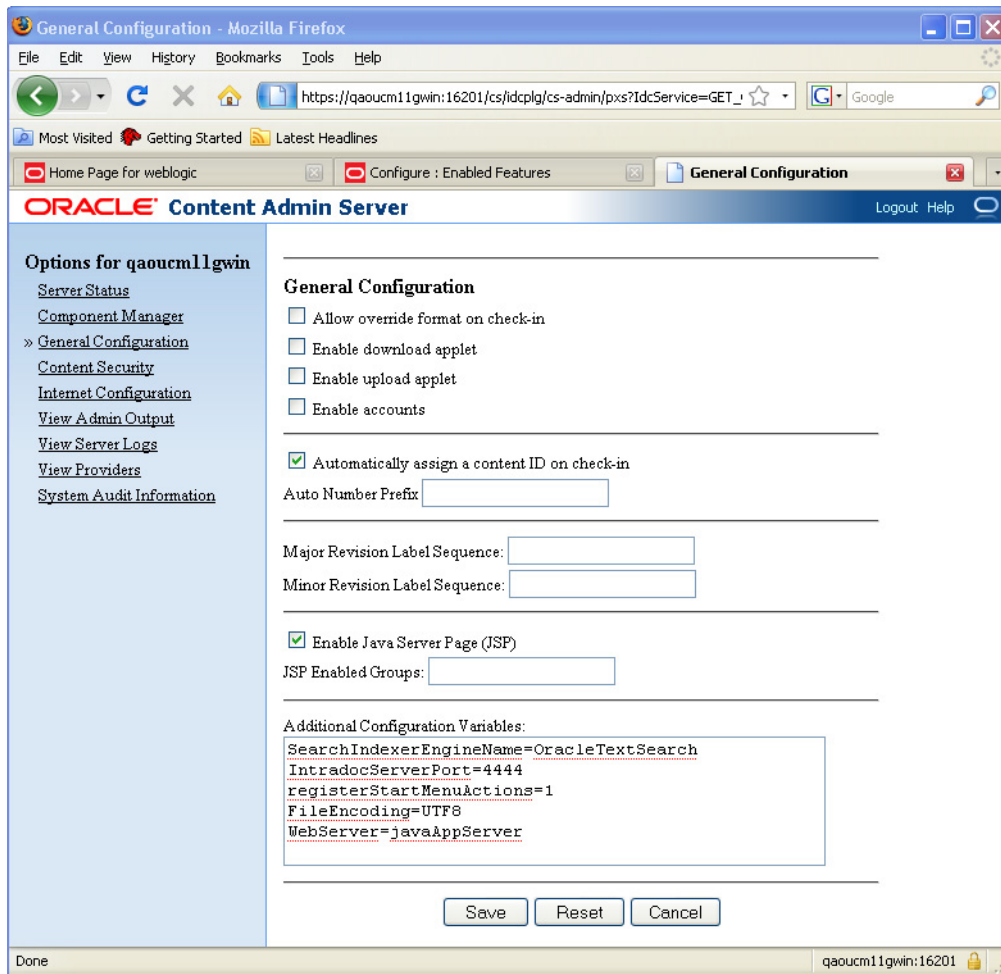


- 5 From the main page, click on the link for **advanced component manager**.
The Advanced Component Manager appears.



- 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 Options panel, click **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 an 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 Updating Version of Oracle AutoVue

In this release of VueLink for UCM, when updating your version of AutoVue, you must copy the new JAR files (gluegen-rt.jar, jogl.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.

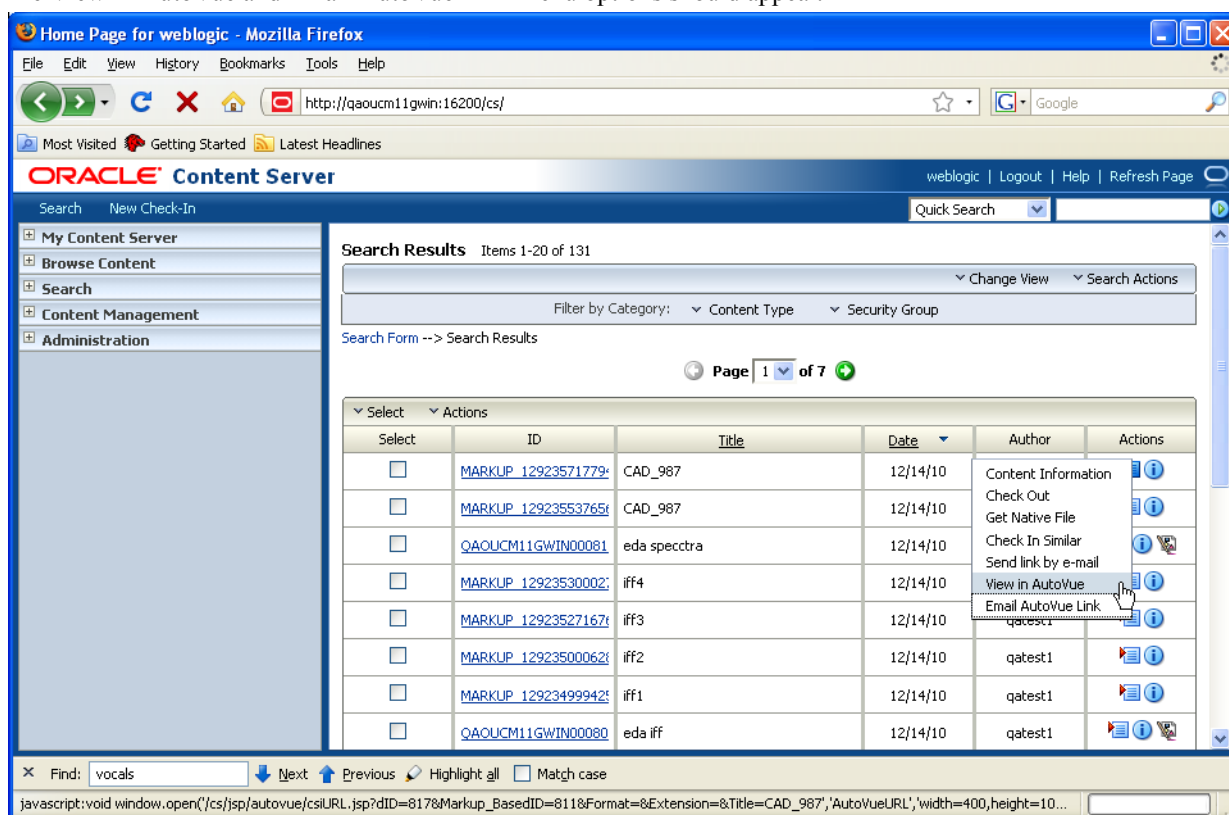
5.2.3.2 Verification

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.

From the actions column click .

The View in AutoVue and Email AutoVue Link menu options should appear.



5.2.4 Updating autovue_environment.cfg

This section describes how to update autovue_environment.cfg so that WebCenter Content is able to communicate with VueLink when it is installed on another machine.

Note: Skip this update if the VueLink is deployed on the same application server as WebCenter Content (recommended).

- 1 In a text editor such as Notepad, browse to the <WebCenter Content installation>\cs\custom\AutoVue folder and open autovue_environment.cfg.
- 2 In autovue_environment.cfg, perform a search for the following:

- **VueLinkHostName**: Set it to the host name where Application is running.
- **VueLinkPort4HTTP**: Set it to the port number of the Managed Server on which the VueLink is deployed.
- **VueLinkPort4HTTPS**: Set it to the HTTPS port number of the Managed Server on which the VueLink is deployed.
- **VueLinkContext**: Set it to the context name that VueLink is deployed.

For example:

```
VueLinkHostName=avserver
VueLinkPort4HTTP=7001
VueLinkPort4HTTPS=7002
VueLinkContext=vuelink
```

3 Save and close the text editor.

Note: As of VueLink 20.0, the AutoVue address (host/port) is stored inside web.xml as part of the VueServlet configuration. AutoVue socket connection entries that were stored inside *autovue_environment.cfg* are no longer supported.

5.2.5 Updating 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\vuelink\WEB-INF directory.
- 2 Locate the JVueServer parameter under the VueServlet initialization parameters section.
- 3 In this section, perform the following 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 *javueserver.socket.port* parameter inside *javueserver.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
----------	-------------	---------

WebCenter Content/CIS Parameters

Note: These parameters should not be changed if you are not changing the packaging of VueLink Web application.

Property	Description	Default
UCPM_Mode	Client connection mode to WebCenter Content. Note: This parameter is used internally by CIS and should not be modified.	Standalone
UCPM_AdapterConfigXml	Path to CIS configuration file to WebCenter Content.	\\WEB-INF\\lib\\adapterconfig.xml
UCPM_InitializationProperties	Optional initialization string for CIS. Currently not used in VueLink.	

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 Intellistamp definition file which is either the relative path to the Web application or absolute path to a local file. For more information on Intellistamp configuration, refer to the Intellistamp section. Syntax: CSI_IntellistampDefLocation =/WEB-INF/lib/dmstamps.ini or c:/temp/dmstamps.ini For more information on configuring Intellistamp, refer to "Configuring Intellistamp" .	
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 when creating a Mobile Pack. For more information Mobile Pack policy, refer to the <i>Oracle AutoVue Installation and Administration Manual</i> .	/WEB-INF/lib/MarkupPolicy.xml
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 =/custom/jvue/BlankMarkup.mrk or c:/temp/BlankMarkup.mrk Blank markup is used internally by VueLink for OEVA use cases.	/WEB-INF/lib/BlankMarkup.mrk

WebCenter Content Search Parameters

Note: These parameters should not be changed if you are not changing the packaging of VueLink Web application.

MaxSearchResults	Specify the maximum number of result display on VL for WebCenter Content search page. Syntax: MaxSearchResults=100
------------------	---

Property	Description	Default
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

Oracle Enterprise Visualization Applications (OEVA) Parameters

OEVFAssetID	For Enterprise Application, corresponding name of asset in WebCenter Content and the separator of asset values. Semi-colon separates the WebCenter Content asset attribute name and values separator. This attribute is used to support Oracle Enterprise Visual Applications (OEVA). If it is not used, please comment out this line. For more information about OEVA, refer to the <i>Oracle Enterprise Visual Applications Developer's Guide</i> . Syntax: OEVFAssetID=xsiebelAsset,;	xOEVFAssetID
OEVFWorkflowID	For Enterprise Application, corresponding name of workflow in WebCenter Content and the separator of workflow values. Semi-colon separates the WebCenter Content workflow attribute name and values separator. This attribute is used to support Oracle Enterprise Visual Applications. If it is not used, please comment out this line. For more information about OEVA, see <i>Oracle Enterprise Visual Applications Developer's Guide</i> . Syntax: OEVFWorkflowID=xsiebelSvcReq,;	xOEVFWorkflowID

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	
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Property	Description	Default
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 Installing the CIS Client

VueLink uses the Content Integration Suite (CIS) to communicate with the backend WebCenter Content system. CIS has a built-in initial default pool size of 40 and a default max pool size of 200. The initial pool and max pool sizes can be increased to accommodate a higher number of AutoVue users. These settings are modified in the adapterconfig.xml file in the VueLink deployment folder: /vuelink/WEB-INF/lib.

For more information on CIS initial and max pool sizes, refer to the *CIS Administration Guide* that is available on the Oracle Technology Network at <http://www.oracle.com/technetwork/indexes/documentation/index.html>.

The following steps describe how to install the CIS client.

- 1 Locate the cis-client-11g.jar file in the WebCenter Content distribution directory.
For example: <WebCenter Content-home>\Distribution\CIS
- 2 Copy the cis-client-11g.jar file to the <VueLink Unzip folder>Vuelink_war\vuelink\WEB-INF\lib directory.

5.4 Deploying the VueLink Web Application

This release of VueLink introduces OWASP Enterprise Security API (ESAPI) Java Edition and related ESAPI resource files to enhance security.

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

ESAPI 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 -Dorg.owasp.esapi.resources JAVA_OPTIONS in the WebLogic application server's startup or setDomainEnv script. For example, to do so:

- Copy the content inside ESAPI_resources folder to a safe location. For example, C:\mysafe_esapi_resources_location.
- Edit the server startup batch/script file and add a new JAVA option.
For example, Set JAVA_OPTIONS= ... -Dorg.owasp.esapi.resources=C:\mysafe_esapi_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 'org.owasp.esapi.resources' directory:
C:\mysafe_esapi_resources_location\ESAPI.properties

Note: You must safeguard your ESAPI 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 application server that hosts the WebCenter Content Web application (for example, WebLogic) 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 UCM 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"](#).

5.4.1 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.

5.4.1.1 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>/vuelink/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.



5.4.1.2 Verifying that VueLink is Running Properly

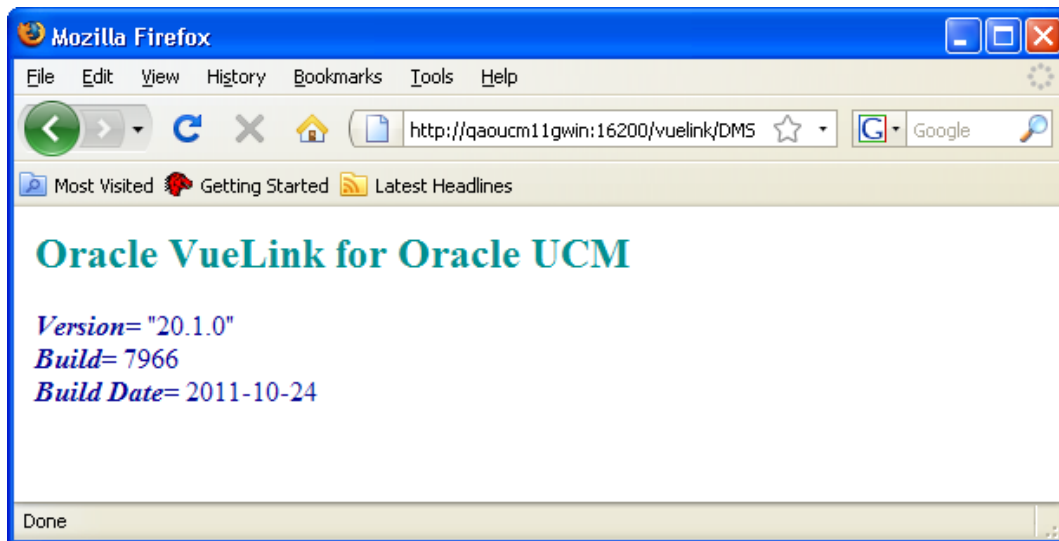
To verify that the VueLink Servlet (com.cimmetry.vuelink.ucm.DMS) is running properly, from the AutoVue server, launch your Web browser and enter the URL pointing to the Servlet alias name, which you assigned when installing VueLink.war into the application server.

The following is an example of a URL:

```
http://<VueLink Host Machine>:<VueLink port>/vuelink/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.



5.5 Optional Configurations

This section provides information on optional configurations.

5.5.1 Working With XRefs

VueLink supports External Reference Files (XRefs) that are associated with a document with the use of **Folios**. Before WebCenter Content users can view CAD files with XRefs, the administrator must first create a Folio template as outlined below.

Note: Only folios based on this template are interpreted as XRefs by VueLink.

For more information on how the XRef folios are created using the template, refer to the “Creating XRefs Based on CAD Folio Template” appendix of the *VueLink for Oracle WebCenter Content User Guide*.

5.5.1.1 Importing a CAD Folio Template

The CAD Folio Template is included as part of VueLink. It is recommended that you import the template into your WebCenter Content. The following steps explain how to import and edit a template.

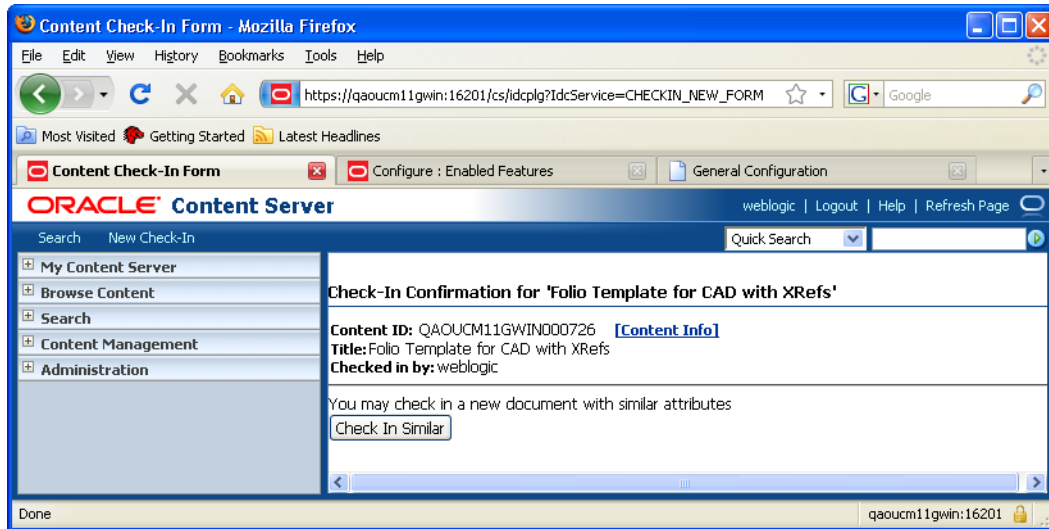
Note: In the event you run into problems importing the template, you can create it by following the steps outlined in the ["Creating a CAD Folio Template"](#).

- 1 Run a Web browser.
- 2 Login to Oracle WebCenter Content as Administrator.

- 3 Click **New Check-In**. The Content Check In Form page appears.

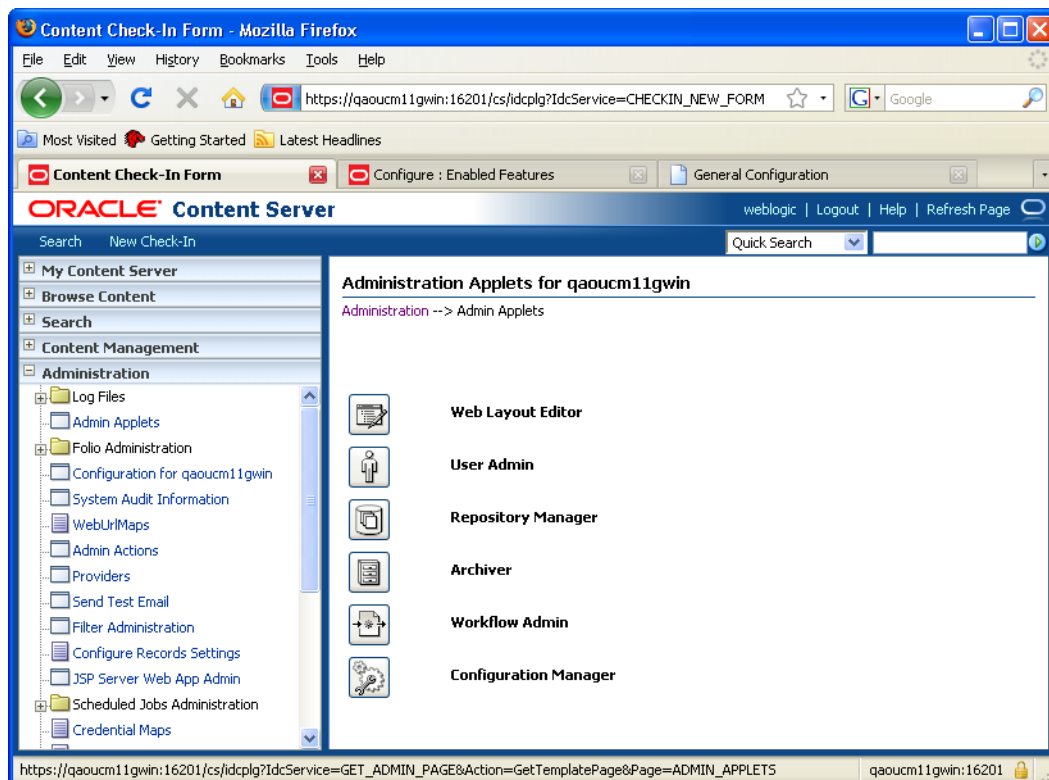
- 4 From the Type list, select a type.
- 5 Enter *Folio Template for CAD with XRefs* in the **Title** field.
- 6 From the Security Group list, select **Public** or **Secure**.
Note: The security group defines the user read/write permissions. The administrator should select a security group that allows only users with administrative privileges to modify the template.
- 7 To the right of the **Primary File** field, click **Browse**.
The Choose File dialog appears.
- 8 Browse to the dms_extension folder on the VueLink media pack and select the **XRefsFolioTemplate.xcst** file.

- 9 Scroll to the bottom of the page and click **Check In**.
The Check In Confirmation page appears. The CAD Folio template is imported into your WebCenter Content.
Note the Content ID of the CAD Folio template.



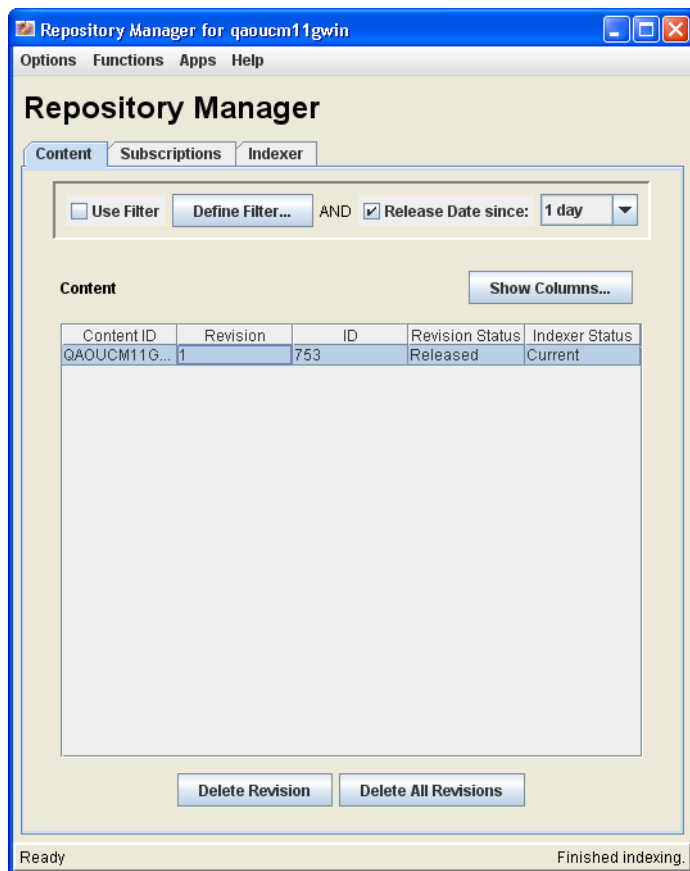
- 10 From the **Administration** menu, select **Admin Applets**.

The Administration Applets page appears.



- 11 Click **Repository Manager** .

The Repository Manager dialog appears.



- 12 Scroll down to the Content ID of your CAD Folio template.
- 13 Right-click the template, and select **Update**.

The Update Content Info dialog appears.


14 Enter */* in the **Is Template Enabled** field.

15 Click **OK**.

The Update Content Info dialog closes.

16 From the **Options** menu of the Repository Manager, click **Exit**.

The Repository Manager dialog closes.

17 At the top right of the page, click on the arrow  to the right of the Quick Search field.

The Search Results page appears.

18 Click on the content ID for the folio template.

The Edit Folio template page appears.

19 From the Action menu, select **Save Changes**.

Note: When the template is checked in to WebCenter Content, it should have the format *text/xcst*.

Users can now create folios based on this template.

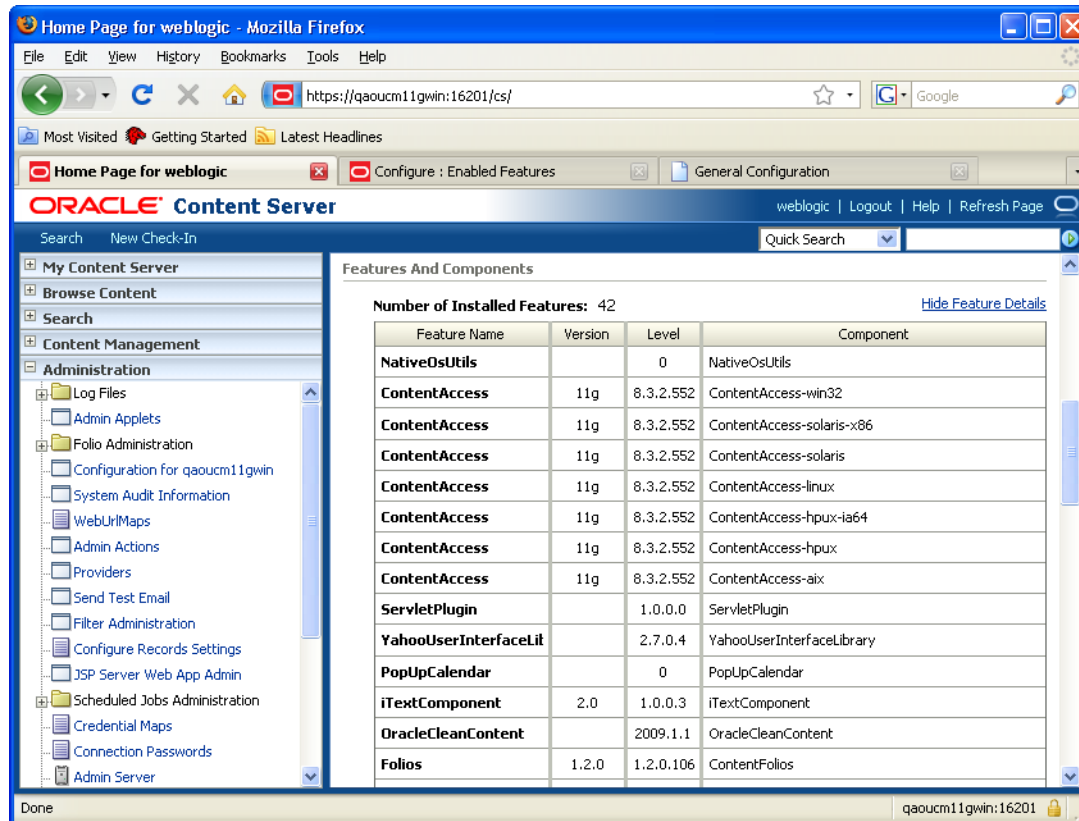
5.5.1.2 Configuring XRefs using Folios

Before proceeding with steps outlined below, ensure that your WebCenter Content installation has the Folios component (ContentFolios) deployed.

1 Launch a Web browser.

- 2 Login to Oracle WebCenter Content as Administrator.
- 3 From the **Administration** menu, select **Configuration for <server name>**.
The Server Configuration Information page appears.
- 4 Click the **Feature Details** link to expand the Features and Components table.
- 5 Under the Feature Name column, verify that *Folios* is listed.

Note: If Folios is not listed, please verify your Folios installation.

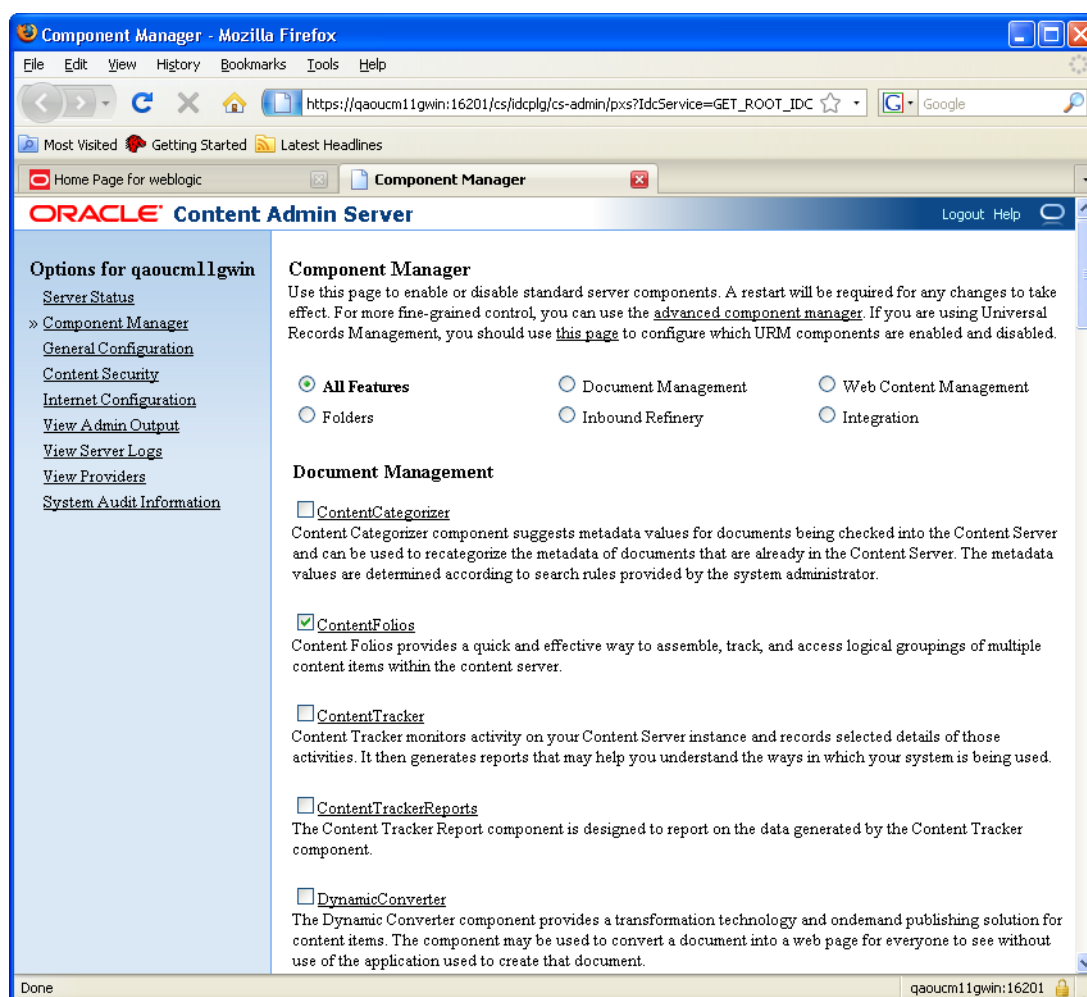


5.5.1.3 Allowing Users with Read Permission to View a File

To allow users with a read permission to view a file, do the following:

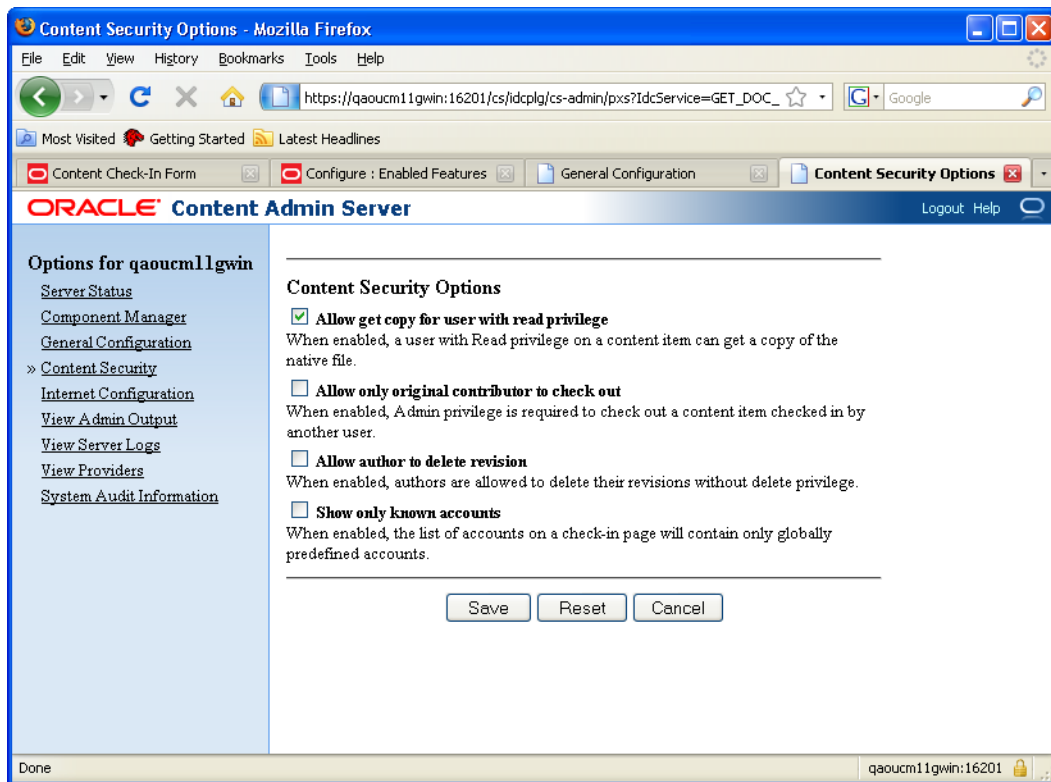
- 1 From the **Administration** menu, select **Admin Server**.

The Administration for Servers page appears.



- 2 Under Option, click **Content Security**.

The Content Security Options page appears.



- 3 Select the **Allow get copy for user with read privilege** check box.
- 4 Click **Save**.

5.5.2 Configuring System Locale

If the WebCenter Content server uses a locale other than English-US, the English-US locale must be enabled in order to view a file in AutoVue. This is due to the following limitation in Content Integration Suite (CIS) of WebCenter Content:

- When a non English-US formatted date is sent to Content Sever via CIS, an error is thrown. By default, CIS forces communication with Content Server in English-US locale.

To resolve this issue, English-US locale must be enabled on the Content Server:

- 1 From the **Start** menu of the WebCenter Content server machine, select **All Programs**, select **Oracle Content Server**, select **idc**, select **Utilities**, and then select **System Properties**.
- 2 Select the **Localization** tab and then enable English-US.
- 3 Restart the WebCenter Content server.

5.5.3 Modifying view_in_autovue_page.htm

Note: As of this release of VueLink for UCM, JSP dependencies have been removed. As a result, the csiApplet.jsp file from previous releases has been replaced by view_in_autovue_page.htm.

In order to change AutoVue client applet 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.

5.6 Upgrading to a Newer Version of VueLink

This section describes how to migrate settings from previous versions of Oracle AutoVue VueLink for Oracle UCM to the newest version.

5.6.1 Markup Counter Synchronization

The MarkupCounter field keeps count of the number of markups related to a document, and automatically updates when adding or deleting markups. If you have upgraded Oracle AutoVue VueLink for Oracle UCM from an earlier version and have markups saved in the backend WebCenter Content system, then a Markup Counter synchronization is required. To perform the synchronization, you must run the runMarkupCounterSync tool.

5.6.1.1 Executing the runMarkupCounterSync Tool

After installing VueLink and completing the required manual configurations (for example, adding the MarkupCounter field, updating the SCS Adapter file, and copying the CIS client package), from the command line, execute runMarkupCounterSync.bat (or runMarkupCounterSynch.sh for Linux) that is located in the VueLink installation folder.

Note: The relative path inside the script is based on the default folder structure in the VueLink installation folder. This batch file runs an internal code that relies on certain libraries (for example, cis client) and configuration files (for example, adapterconfig.xml) to be available and configured properly. As a result, if any change has been made in the folder structure, or a file is missing, the batch file must be updated by updating the classpath of the libraries and/or the path to the xml configuration file (if needed). Note that the content of the batch file is a one-line JAVA command.

- 1 Open the batch/script file under the bin folder in a text editor.
- 2 Replace <<WEBLOGIC_INSTALL>> with the real path of WebLogic installation path (for example, C:/Oracle/Middleware).
- 3 Replace the <<VUELINKFORUCM_UNZIP_FOLDER>> with the real path of VueLink for UCM unzipped folder.
- 4 From the command line, execute the runMarkupCounterSync tool.
- 5 Enter the WebCenter Content Administrator username and password and click **OK**.
The script performs a query on all records and their revisions inside the backend WebCenter Content system and then displays whether each record has either been verified or updated.

At the end of the query, the script exits to the command line. Synchronization of the MarkupCounter fields for all records is complete.

Take note of the following:

- If the tool is executed again, it should only display a verification for each record.
- If the MarkupCounter field does not exist, the tool displays a notification and exits. There is a similar occurrence if the path to adapterconfig.xml is broken or an incorrect WebCenter Content Administrator username/password is entered.
- Make sure to run this tool only after all manual configuration steps are completed.

6 Configuring Intellistamp

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

You can create a new Intellistamp with the Stamp Designer tool 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 Intellistamp 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 Intellistamp 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 ["Updating 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.

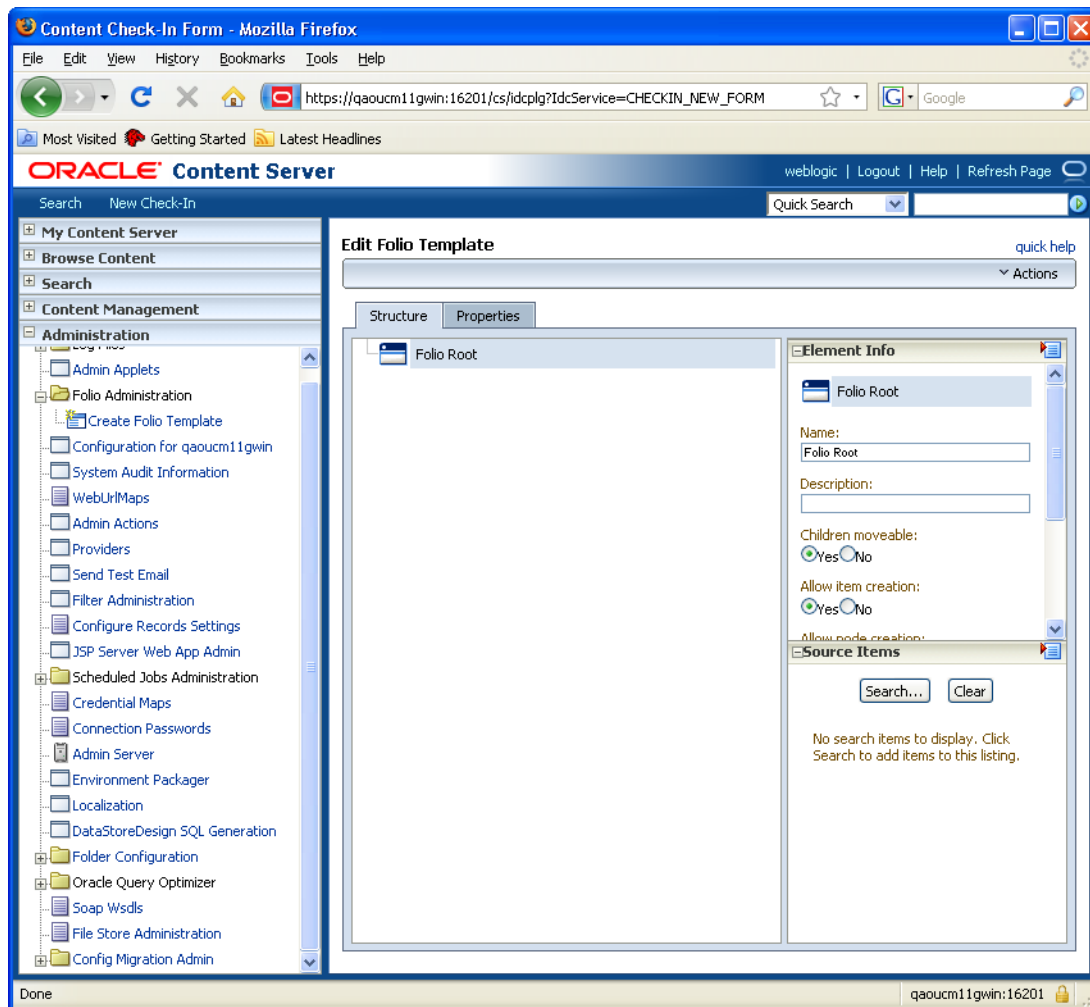
For more information on designing Intellistamps, refer to the Oracle AutoVue, Client/Server Deployment

Appendix A: Creating a CAD Folio Template

If you run into problems importing the CAD Folio template shipped with VueLink, you can create the template with the following steps:

- 1 Verify that your WebCenter Content is installed properly.
- 2 Run a Web browser.
- 3 Login to Oracle WebCenter Content as Administrator.
- 4 From the **Administration** menu, select **Folio Administration**, and then select **Create Folio Template**.

The Edit Folio Template page appears.

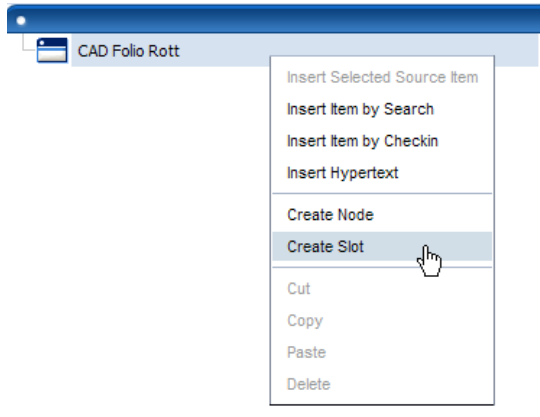


- 5 Under the **Element Info** table on the right-section of the page, do the following:
 - a. Enter *CAD Folio Root* in the **Name** field.
 - b. Enter *Template for CAD with XRefs* in the **Description** field.
 - c. For the Children Moveable option, select **No**.
 - d. For the Allow Item Creation option, select **No**.
 - e. For the Allow Node Creation option, select **No**.

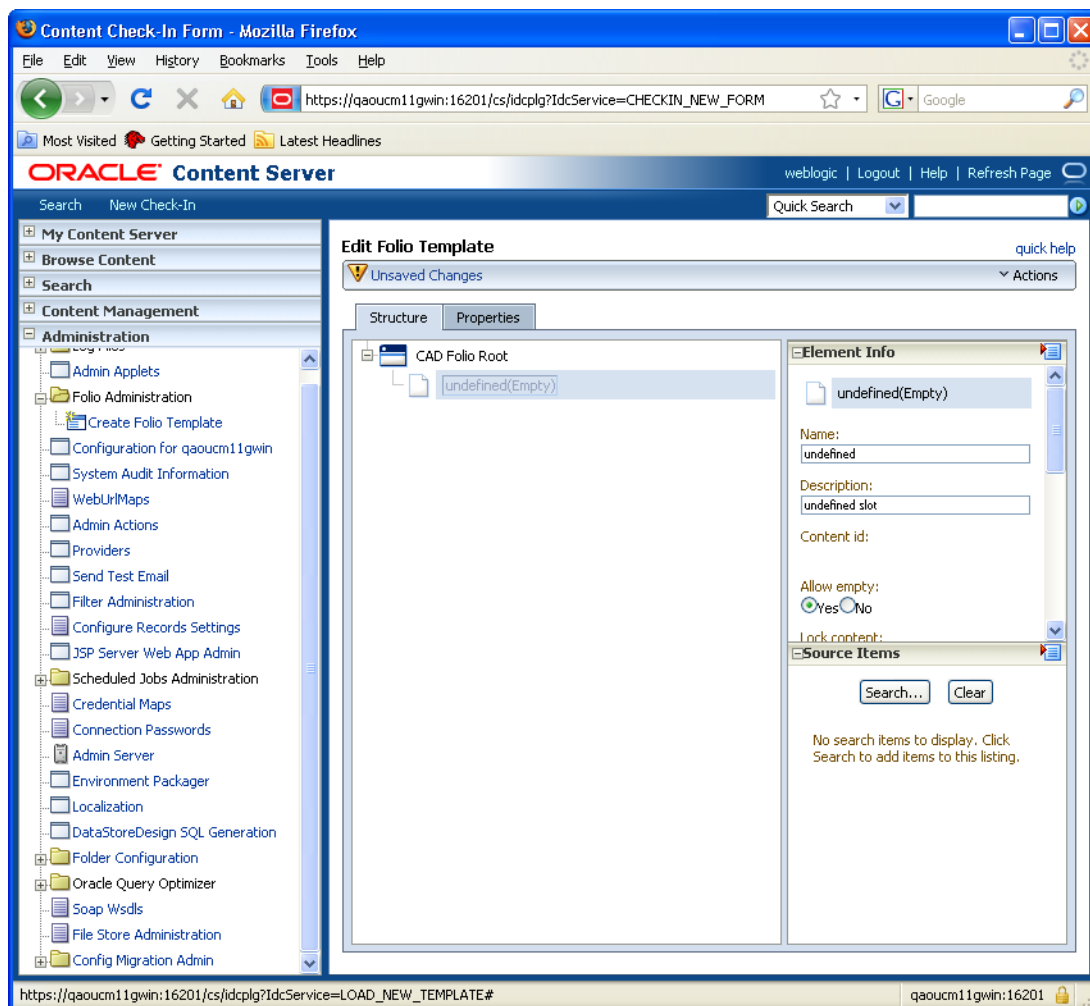
- f. Enter *100* in the **Maximum Items** field.
- g. Enter *100* in the **Maximum Nodes** field.

The CAD Folio Root tree appears in the left section of the Structure tab and is assigned the new values.

- 6 Right-click the CAD Folio Root node, and select **Create Slot**.



An new slot appears as a child of the tree.



- 7 Under the **Element Info** table on the right-section of the page, do the following:

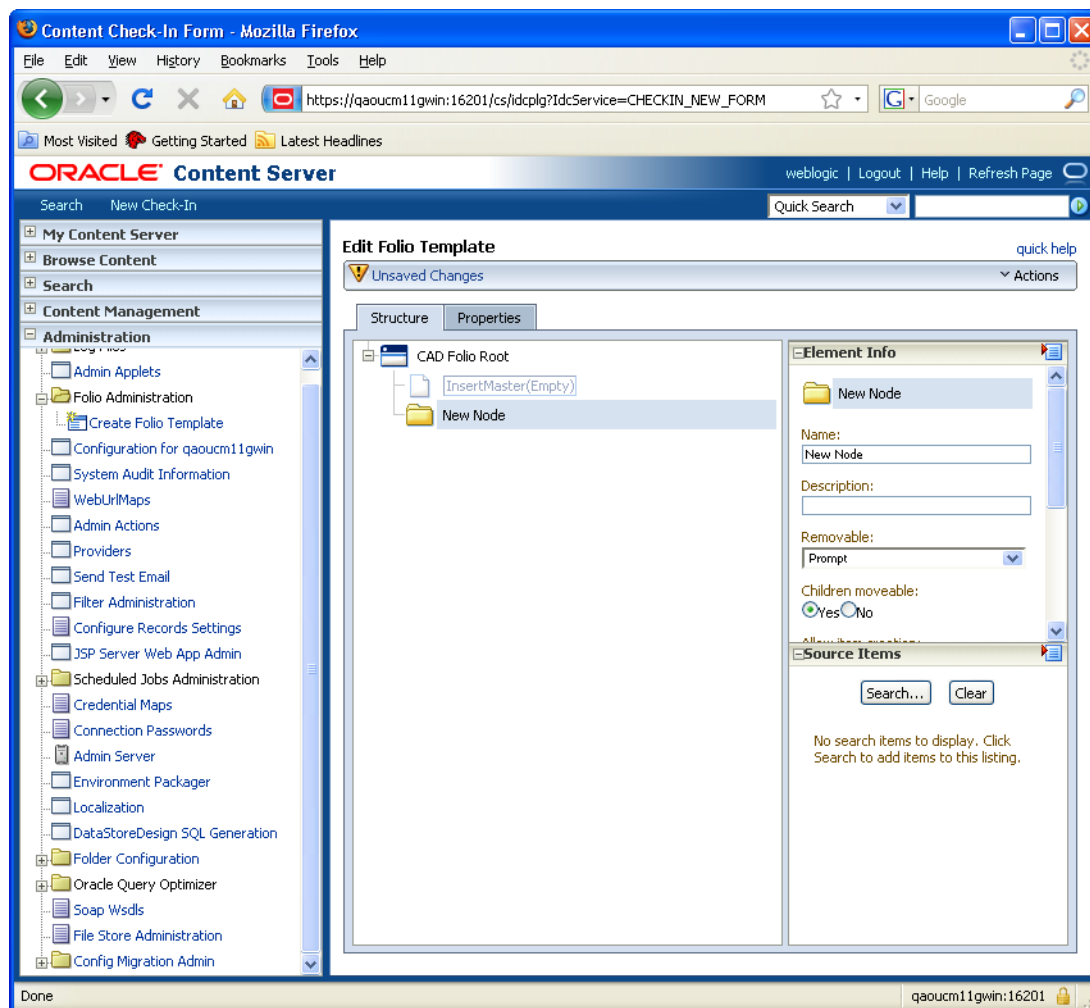
- a. Enter *Insert Master* in the **Name** field.
- b. Enter *Master File* in the **Description** field.
- c. For the Allow Empty option, select **No**.
- d. For the Lock Content option, select **No**.
- e. For the Removable option, select **No**.
- f. For the Allow External option, select **No**.
- g. For the Allow Folio option, select **No**.
- h. For the Clone Item option, select **No**.

The slot is renamed to Insert Master and is assigned the new values.

In a CAD structure, this slot will hold information about the top level file (for example, the master file for 2D or assembly file for 3D).

- 8 Right-click CAD Folio Root node, and select **Create Node**.

A new child node appears.



- 9 Under the **Element Info** table on the right-section of the page, do the following:

- a. Enter *Insert XRefs* in the **Name** field.
- b. Enter *XRefs* in the **Description** field.

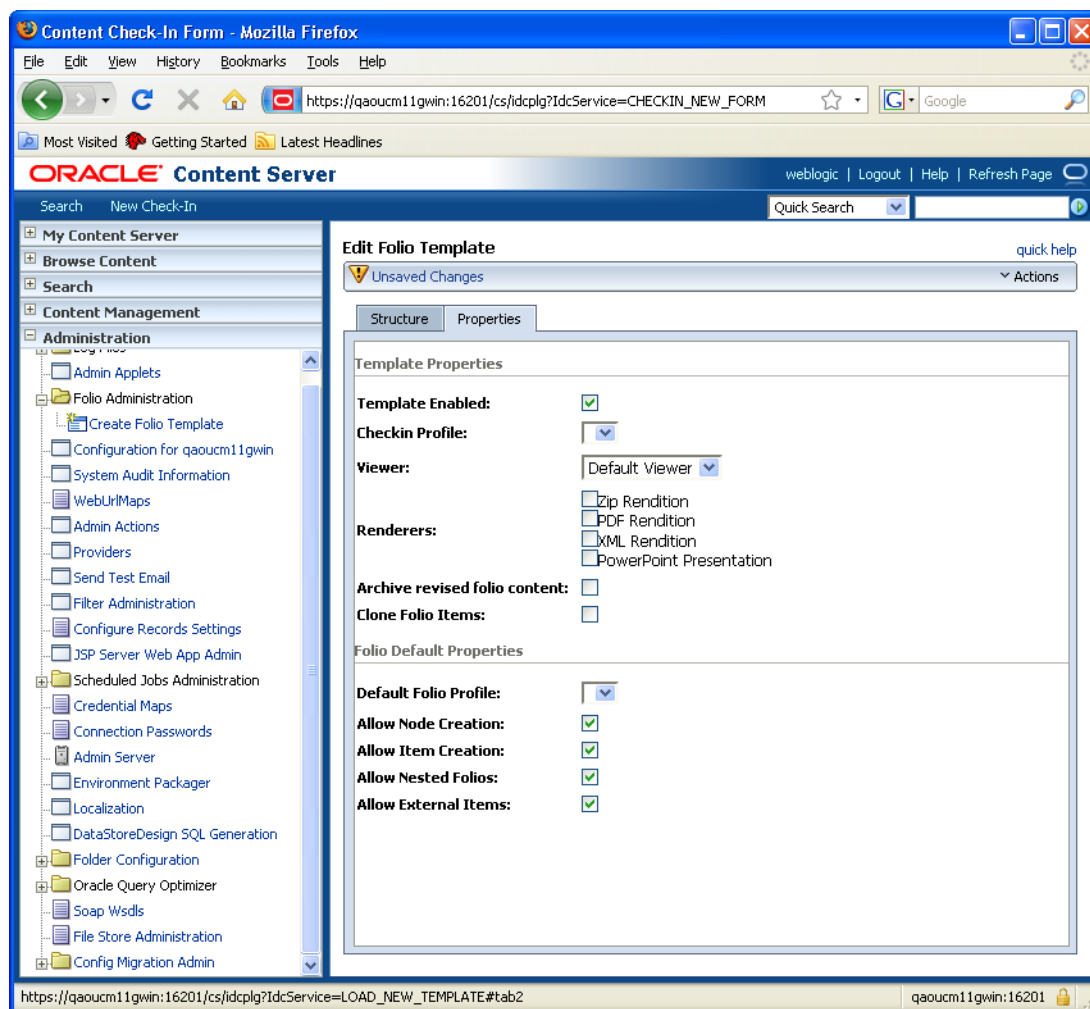
- c. From the Removable list, select **Prompt**.
- d. For the Children Moveable option, select **No**.
- e. For the Allow Item Creation option, select **Yes**.
- f. For the Allow Node Creation option, select **No**.
- g. Enter *100* in the **Maximum Items** field.
- h. Enter *100* in the **Maximum Nodes** field.

The node is renamed to Insert XRefs and is assigned the new values.

In a CAD structure, this node will hold information about files associated with the top level file (for example, parts for 3D).

Note: This node cannot contain other nodes or other Folios.

- 10 Click the **Properties** tab.



- 11 Enter the following information:
 - a. Select the **Template Enable** check box.
 - b. From the Viewer list, select **Default Viewer**.
 - c. For the Renderers option, select **zip rendition**, **pdf rendition**, and **XML rendition**.
 - d. Select the **Allow Node Creation**, **Allow Item Creation**, and **Allow Nested Folios** check boxes.
 - e. Make sure the Archive Revised Folio Content, Cone Folio Items, and Allow External Items check boxes are not selected.
- 12 From the **Actions** menu, select **Save Template**.

The Content Check in Form dialog appears.

- 13 From the Profile list, select **None**, and then click **Next**.

The Folio Template Check In page appears.

- 14 Enter the following information:
 - a. From the Type list, select a type.
 - b. Enter *Folio Template for CAD with XRefs* in the **Title** field.

- c. Optionally, in the **Author** field, enter *sysadmin*, and from the Author list, select **sysadmin**.
- d. From the Security Group list, select **Secure** or **Public**.

15 Click **Check in**.

Once the template is created, users will be able to create folios based on this template.

Appendix B: 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 C: Troubleshooting

Markups Cannot be Saved in Applet

When working in a file from WebCenter Content, you can add and save Markups. However, in the event a Markup file cannot be saved in the applet (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 dialog appears.
- 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 configuration file located in the WEB-INF\lib folder of the VueLink application. You can change the level and location of the output by modifying this file.

The following table shows the different levels of logging available.

Will Output Messages Of Level		DEBUG	INFO	WARN	ERROR	FATAL
Logger Level	DEBUG					
	INFO					
	WARN					
	ERROR					
	FATAL					
		ALL	OFF			

 : 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 `log4j.logger.com.cimmetry.vuelink=DEBUG` inside the log4j.properties file.

VueLink messages are logged inside the file pointed to by the `log4j.appender.R.File` entry in `log4j.properties`.

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

Appendix D: 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
- An HTTP server (for example, Apache, IIS, and so on)
- A mechanism provided by the 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 E: Controlling Read Functionality of Markups

Oracle AutoVue VueLink for Oracle UCM 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`, `cis-client-11g.jar` and `log4j-1.2.15.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 UCM 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 administrator 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 UCM application must be redeployed for the changes to take effect.

## **Feedback**

Oracle products are designed according to your needs. We would appreciate your feedback, comments or suggestions. If at any time you have questions or concerns regarding Oracle VueLink for Oracle WebCenter Content, call or email us. Your input is an important part of the information used for revision.

## **General Inquiries**

**Telephone:** +1.514.905.8400

**E-mail:** [autovuesales\\_ww@oracle.com](mailto:autovuesales_ww@oracle.com)

**Web Site:** <http://www.oracle.com/us/products/applications/autoVue/index.html>

## **Sales Inquiries**

**Telephone:** +1.514.905.8400

**E-mail:** [autovuesales\\_ww@oracle.com](mailto:autovuesales_ww@oracle.com)

## **Customer Support**

**Web Site:** <http://www.oracle.com/support/index.html>

