# Oracle VueLink 19.3.2 for Documentum

## System Administrator Manual

### An Integration between Documentum and AutoVue Client/Server Deployment

ORACLE®

# Introduction

The VueLink servlet (VueServlet) allows AutoVue to communicate with Documentum DMS using standard HTTP or HTTPS protocol. The following diagram and steps illustrate a typical configuration of how AutoVue integrates with VueLink.
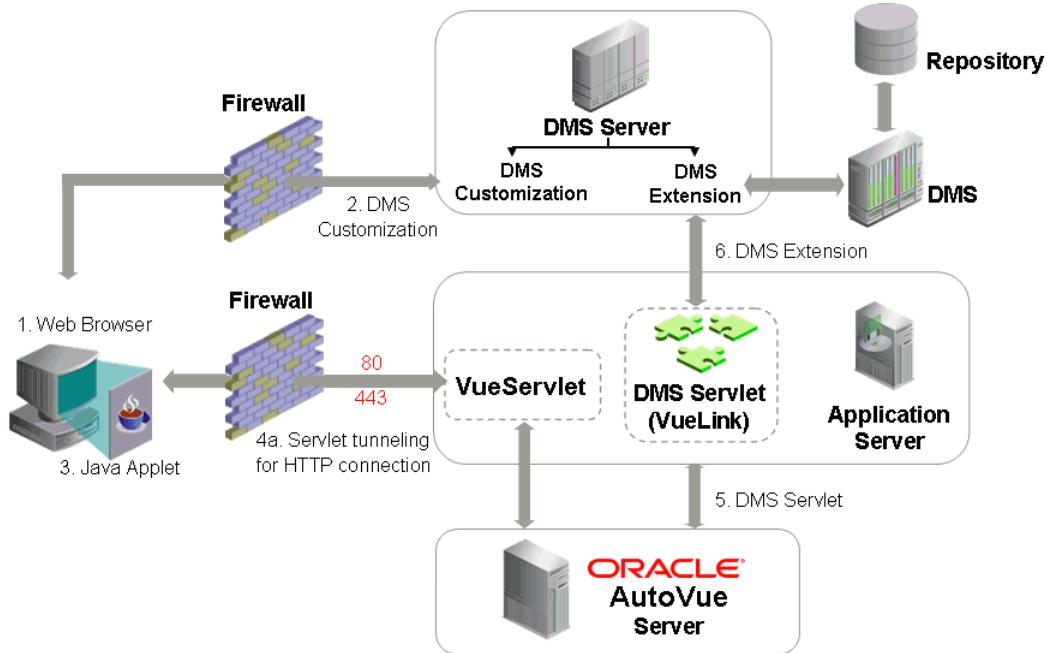


1   The client logs on to the Document Management System (DMS) through a Web browser like Microsoft's Internet Explorer or Mozilla Firefox.

2   With DMS customization in place, you can invoke AutoVue for a file stored in the DMS and then view the file from the AutoVue applet.

3   The AutoVue client communicates with the AutoVue server through servlet tunnelling for HTTP connection.

4   The AutoVue server communicates with the VueServlet using standard HTTP connection. With DMS Extension installed on the server, the VueServlet can communicate with Documentum Webtop to handle any request made by the AutoVue server (such as file fetching).

5   To display a composite file (a file with external references), the VueServlet retrieves the file along with all of its component 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 analyze and collaborate on the file with any document review (markups) being saved back into DMS.

# System Requirements

**Note:** For the most up-to-date list of system requirements and for a list of known issues, refer to the *Oracle VueLink 19.3.2 for Documentum Release Notes.*

•   AutoVue Server 20.2.0
•   Vuelink for Documentum
•   The server installation for Documentum 6.7 as shown in the following section.

# Documentum 6.7

•   Documentum Content Server 6.7 on Windows 2008 SP2 (32 bit)
•   Documentum Webtop 6.7 on Windows 2008 SP2 (32 bit) where Webtop and the application server are installed
•   Application Server / Servlet Engine for Webtop:
    •   Oracle WebLogic Server 11g Release 3 (10.3.3)
•   Documentum Branch Office Caching Services (BOCS) 6.7 on Windows 2008 SP2 (32 bit)
•   Application Server / Servlet Engine for BOCS:
    •   Apache Tomcat 6.0.29

# Automatic Installation

Before AutoVue can work cooperatively with Documentum, the VueLink interface must be installed and configured. In the following section you will find instructions for installing Oracle VueLink for Documentum with the help of the InstallShield wizard. For manual installation instructions instead, refer to **Appendix A: Manual Installation**.

## Running InstallShield for Oracle VueLink for Documentum

Oracle VueLink for Documentum setup programs are located in the \vuelink_setup directory of the media pack.

**Note:** If you are installing Webtop components, delete the application server cache after you install or uninstall Oracle VueLink for Documentum.

To run the InstallShield for Oracle VueLink for Documentum:

1    Verify that Documentum and Oracle AutoVue are properly installed.

2    Undeploy the Webtop application from the application server.

3    Unpack the previously deployed Webtop application WAR file to a folder.

4    To install VueLink, double-click **setupwin32.exe** found in the media pack under the
     \AVCS_VueLink_DCTM\vuelink_setup\win32 directory.
     The InstallShield Wizard for VueLink for Documentum starts.

5    Click **Next** to continue installation.

6    In the **Directory Name** field, enter the directory path where you want Oracle VueLink for Documentum installed.
     **For example:** C:\Program Files\Oracle\VuelinkforDocumentum
     The setup creates a copy of all files installed as part of the installation in this directory.

7    Click **Next** to continue installation.

8    Click **Next** to continue installation.

9    Enter Webtop details:

     a.  Select the version of Webtop you wish to customize.
     b.  Specify the full path of dfc.jar in the Webtop unpack folder.
         For example: <Webtop_Unpack_Folder>\WEB-INF\lib
     c.  Specify the path of the Webtop unpack folder.

10   Click **Next** to continue installation.

11   Select whether you want files to launch in the same AutoVue applet (embedded) or in a new applet (non-embedded).

     **Note:** You can also configure the launch method after the installation.

12   Click **Next** to continue installation.

13   Click **Browse** to specify the Documentum configuration directory where the dfc.properties is located.
     **For example:** <Webtop_Unpack_Folder>\WEB-INF\classes

14   Click **Next** to continue installation.

15   The installer summarizes the installation options.
     The installer indicates if any of the components selected are not compatible with this version of VueLink.

     **Note:** All compatible components are indicated in green.

16   Click **Next** to continue installation, then wait for the Installer to finish creating and updating files.

17  When the installation of VueLink is completed without errors, you must manually register the AutoVue Markup types. Refer to **Registering Markup and Streaming File Formats in Documentum** for more information.

18  Click **Finish** to exit the Installer.

19  The automatic installation is complete. However, in order to use the VueLink, some manual configuration must be performed. Refer to **Configuring Webtop** for more information.

   •  If you are using Documentum's BOCS, you need to manually perform the steps outlined in **Configuring BOCS**.

   •  If you wish to configure multi-file view, you need to manually perform the steps outlined in **Configuring Multi-file View Feature**.

20  Re-archive the Webtop application WAR file:
   **Re-archive command on Windows:**

```
%JAVA_HOME%\bin\jar.exe -cvf webtop.war -C <webtop_unpack_folder> .
```

   **Note:** You must include a space followed by a period (.) at the end of the command.

   Where JAVA_HOME is an environment variable that points to the directory where Java Virtual Machine is installed on your machine, and webtop_unpack_folder points to the staging folder where Documentum Webtop is installed.

21  Deploy the WAR file according to the deployment instructions in your application server documentation.

# Uninstallation

**Note:** After running the uninstaller, you are required to carry out some manual steps to remove customization files in order to complete the uninstallation.

To uninstall the VueLink, run **uninstaller.exe** from the _uninst subfolder of the VueLink installation directory. To complete the uninstallation, you must perform additional manual steps:

1  Delete **web.xml** under <Webtop Root>\WEB-INF. Rename previous backup **web.xml** to **web.xml** under <Webtop Root>\WEB-INF.

2  Delete all files and folders manually created during configuration of VueLink for Documentum.

3  Revert the changes to the files you manually updated during configuration of VueLink for Documentum.

4  Shutdown your application server and clear the application server cache.

# Configuration

The following sections describe how to configure VueLink for Documentum.

**Note:** The following sections require you to update Webtop configuration files with blocks of text that are included in this PDF. Do not copy and paste from this PDF as it will result in formatting errors. A text file, vuelink_webtop_configuration.txt, that contains all the blocks of text ships with VueLink for you to copy and paste from when updating your configuration files.

## Deploying the VueServlet Application

Deploy the VueServlet application on the same server where Webtop is deployed. Ensure that you deploy the VueServlet in a different context (e.g. /VueServlet).

1    Copy the VueServlet folder to a temporary folder.

2    Open web.xml in the <VueServlet>\WEB-INF\ folder in a text editor.

3    Replace localhost:5099 with the host name and the port for AutoVue Server.

4    Archive the VueServlet folder to an application war file and deploy it on the application server.

## Configuring Webtop

After running the installer, complete the configuration for the files listed in this section.

### Configuring dm_document_actions.xml for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1    In the <Webtop Root>\custom\config\ directory, create a new file named **"**dm_document_actions.xml**"**.

2    Open the **dm_document_actions.xml** file in a text editor.

3    You can either manually enter the following block of text or copy and paste the text from the "[configuration: dm_document_actions.xml]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory.

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.0">
  <scope type="dm_sysobject">
<actionlist modifies="default:webcomponent/config/actions/dm_sysobject_actions.xml">
      <insertbefore path="action[id=checkout]">
    <action id="autovue" nlsid="MSG_AUTOVUE"/>
      </insertbefore>

      <insertbefore path="moreactionsmenu.menu[id=file].action[id=saveasxforms]">
          <action id="autovue" nlsid="MSG_AUTOVUE"/>
        </insertbefore>
    </actionlist>

    <menuconfig modifies="context-menu:webcomponent/config/actions/dm_sysobject_actions.xml">
      <insertbefore path="actionmenuitem[action=checkout]">
           <actionmenuitem dynamic="singleselect" action="autovue" nlsid="MSG_AUTOVUE" showifdisabled="false"
showifinvalid="false"/>
      </insertbefore>
    </menuconfig>
  </scope>

 <scope type="dm_document">
    <!-- action definitions -->
    <action id="autovue">
     <params>
         <param name="objectId" required="true"/>
         <param name="contentType" required="false"/>
     </params>
     <preconditions>
      <precondition
class="com.documentum.webcomponent.library.actions.ViewAction"/>
     </preconditions>
     <execution
class="com.documentum.web.formext.action.LaunchComponentWithPermitCheck">
      <permit>read_permit</permit>
      <component>autovue</component>
     </execution>
    </action>
  </scope>
</config>
```

4    Save the changes made and close the file.

**Oracle Corp.**

# Configuring dmr_content_actions.xml for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1   In the <Webtop Root>\custom\config\ directory, create a new file named "dmr_content_actions.xml".

2   Open the **dmr_content_actions.xml** file in a text editor.

3   You can either manually enter the following block of text or copy and paste the text from the "[configuration: dmr_content_actions.xml]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory.

```xml
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<config version="1.0">
  <scope type="dmr_content">
    <actionlist modifies="default:/webcomponent/config/actions/dmr_content_actions.xml">
      <insertbefore path="action[id=delete]">
<action id="autovue" nlsid="MSG_AUTOVUE"/>
      </insertbefore>
    </actionlist>

    <menuconfig modifies="context-menu:/webcomponent/config/actions/dmr_content_actions.xml">
      <insertbefore path="actionmenuitem[action=exportrendition]">
        <actionmenuitem dynamic="singleselect" action="autovue" nlsid="MSG_AUTOVUE" showifdisabled="false"
showifinvalid="false"/>
      </insertbefore>
    </menuconfig>

    <!-- AutoVue action -->
    <action id="autovue">
      <params>
        <param name="objectId" required="true"></param>
        <param name="contentType" required="true"></param>
      </params>
      <preconditions>
        <precondition class="com.documentum.webcomponent.library.actions.ViewAction">
        </precondition>
      </preconditions>
      <execution class="com.documentum.web.formext.action.LaunchComponent">
        <component>autovue</component>
      </execution>
    </action>
  </scope>
</config>
```

4   Save the changes made and close the file.

# Configuring menubar_component.xml for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1   In the <Webtop Root>\custom\config\ directory, create a new file named **"**menubar_component.xml**"**.

2   Open the file with a text editor.

3   You can either manually enter the following block of text or copy and paste the text from the "[configuration: menubar_component.xml]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<config version="1.0">
  <scope>
    <component modifies="menubar:/webtop/config/menubar_component.xml">
       <replace path="nlsbundle">
<nlsbundle>com.documentum.webtop.webcomponent.menubar.MenuBarNlsProp</nlsbundle>
       </replace>
    </component>
        <menuconfig modifies="menubar_file_menu:/webcomponent/config/library/menubar/menubar_component.xml">
      <insertafter path = "menu[name=file_menu].actionmenuitem[id=file_view]">
        <actionmenuitem dynamic="singleselect" id="file_view_as_autovue" name="file_view_as_autovue"
nlsid="MSG_AUTOVUE" action="autovue" showifinvalid="true"/>
      </insertafter>
    </menuconfig>
  </scope>
</config>
```

4   Save and close the file.

# Configuring toolbar_component.xml for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1    In the <Webtop Root>\custom\config\ directory, create a new file named "toolbar_component.xml".

2    Open the file with a text editor.

3    You can either manually enter the following block of text or copy and paste the text from the "[configuration: toolbar_component.xml]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<config version="1.0">
  <scope>
    <component  modifies="toolbar:/webtop/config/toolbar_component.xml">
      <replace path="pages.start">
         <start>/custom/toolbar/toolbar.jsp</start>
      </replace>
      <replace path="nlsbundle">
<nlsbundle>com.documentum.webtop.webcomponent.toolbar.ToolBarNlsProp</nlsbundle>
</replace>
    </component>
  </scope>
</config>
```

4    Save and close the file.

# Configuring toolbar.jsp for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1   Create a sub folder 'toolbar' under the <Webtop Root>\custom directory.

2   Copy the **toolbar.jsp** file from the <Webtop Root>\webtop\classic\toolbar\ directory to the <Webtop Root>\custom\toolbar\ directory.

3   Open the copied file with a text editor and locate the following text:

```
<td nowrap>
<dmfx:actionlink cssclass='toolbaractions' dynamic="multiselect" name='checkin' action='checkin' nlsid='MSG_CHECKIN'
tooltipnlsid='MSG_CHECKIN' src="icons/toolbar/icon_checkin_16.gif" srcdisabled="icons/toolbar/
icon_checkin_disabled_16.gif" linkspacer="10" showifdisabled="true" showifinvalid='true'/>
</td>
```

Before the above text, you can either manually enter the following block of text or copy and paste the following text from the "[configuration: toolbar.jsp]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory.

```
<td nowrap><dmfx:actionlink cssclass='toolbaractions' dynamic="singleselect" name="autovue" action="autovue"
nlsid="MSG_AUTOVUE" tooltipnlsid="MSG_AUTOVUE" src="icons/toolbar/icon_checkin_16.gif" srcdisabled="icons/
toolbar/icon_checkin_disabled_16.gif" linkspacer="10" showifdisabled="true" showifinvalid='true'/></td>
```

4   Save the changes made and close the file.

# Configuring GenericActionNlsProp.properties for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1   Create the following folders *strings\com\documentum\webcomponent* under the <Webtop Root>\custom directory.

2   Copy the **GenericActionNlsProp.properties** file from the <Webtop Root>\webcomponent\strings\com\documentum\webcomponent directory to the <Webtop Root>\custom\strings\com\documentum\webcomponent directory.

3   Using a text editor, open the copied file and locate the following line:

MSG_CANCEL_REQUEST=Cancel Request

Manually enter the following line after it:

*MSG_AUTOVUE=AutoVue*

4   Save the changes made to the file, and close the file.

# Configuring MenuBarNlsProp.properties for Webtop

The following instructions are mandatory if you are doing an automatic or manual installation for Oracle VueLink for Documentum for Webtop:

1   Create the following folders *strings\com\documentum\webtop\webcomponent\menubar* under the <Webtop Root>\custom directory.

2   Copy the file **MenuBarNlsProp.properties** from <Webtop Root>\webtop\strings\com\documentum\webtop\webcomponent\menubar\ directory to <Webtop Root>\custom\strings\com\documentum\webtop\webcomponent\menubar\ directory.

3   Open the copied file with a text editor and locate the line:

NLS_INCLUDES=com.documentum.webcomponent.library.menubar.MenuBarNlsProp

Manually enter the following line after it:

MSG_AUTOVUE=AutoVue

4   Save the changes made and close the file.

# Configuring ToolBarNlsProp.properties for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1   Create the following folders *strings\com\documentum\webtop\webcomponent\toolbar* under the <Webtop Root>\custom directory.

2   Copy the file **ToolBarNlsProp.properties** from <Webtop Root>\webtop\strings\com\documentum\webtop\webcomponent\toolbar\ directory to <Webtop Root>\custom\strings\com\documentum\webtop\webcomponent\toolbar\ directory.

3    Open the copied file with a text editor and locate the line:

---

MSG_CHECKOUT=Check Out

---

Manually enter the following line just before it:

---

MSG_AUTOVUE=AutoVue

---

4    Save and close the file.

# Configuring autovue_component.xml for Webtop

The following step is only mandatory for a manual installation of Oracle VueLink for Documentum for Webtop.

From the AVCS_VueLink_DCTM\dms_extension\webtop6.7\custom\config directory of the media pack, copy the *autovue_component.xml* file to the <Webtop Root>\custom\config directory.

# Configuring web.xml for Webtop

The following instructions are mandatory for automatic and manual installations of Oracle VueLink for Documentum for Webtop:

1    Backup web.xml under the <Webtop Root>\WEB-INF directory.

2    Using a text editor, open the **web.xml** file found under the <Webtop Root>\WEB-INF directory.

3    Locate the position that marks the end of servlet blocks and the beginning of servlet-mapping servlets.

You can either manually enter the following block of text or copy and paste the text from the "[configuration: web.xml Part 1]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory.

```
<servlet>
    <description>com.cimmetry.vuelink.documentum.DMS</description>
    <servlet-name>com.cimmetry.vuelink.documentum.DMS</servlet-name>
    <servlet-class>com.cimmetry.vuelink.documentum.DMS</servlet-class>
    <init-param>
        <param-name>Verbose</param-name>
        <param-value>0</param-value>
    </init-param>
    <init-param>
        <param-name>properties</param-name>
        <param-value>\custom\jvue\vuelink.properties</param-value>
    </init-param>
    <init-param>
         <param-name>LogFile</param-name>
         <param-value><LogFileFullPath></param-value>
     </init-param>
</servlet>

<servlet-mapping>
<servlet-name>com.cimmetry.vuelink.documentum.DMS</servlet-
name>
<url-pattern>/com.cimmetry.vuelink.documentum.DMS</url-
pattern>
</servlet-mapping>
```

Replace <LogFileFullPath> with the full path of the log file.

4    Locate the following block:

```
<param-value>
<![CDATA[(\.bmp|\.css|\.htm|\.html|\.gif|\.jar|\.jpeg|\.jpg|\.js|\.properties|\.xml)$]]>
</param-value>
```

The above text must be replaced by either manually entering the following block of text or copy and paste the following text from the "[configuration: web.xml Part 2]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory.

```
<param-value>
<![CDATA[(\.bmp|\.css|\.htm|\.html|\.gif|\.jar|\.jpeg|\.jpg|\.js|\.properties|\.xml|com\.cimmetry\.vuelink\.documentum\.DMS|servlet\/VueServlet)$]]>
</param-value>
```

5    Save the changes and restart the application server.

**Note:** If you wish to enable verbosity for the VueLink servlet, set init parameter Verbose to 1 for com.cimmetry.vuelink.documentum.DMS. The VueLink servlet outputs the debug messages to the log.

# Configuring csiAutoVue4webtop.jsp for Webtop

The following four steps are mandatory if you are installing VueLink for Documentum for Webtop manually. If you are running the installer, steps one and two are done by the installer, and steps three and four have to be done manually. These parameters can also be changed at any point after the installation.

To specify AutoVue Server and Client parameters and the URL to the VueLink servlet for Webtop, take the following steps:

1    Create the *autovue* folder under the folder <Webtop Root>\custom\ directory.

2    From the AVCS_VueLink_DCTM\dms_extension\webtop6.7\custom\autovue directory of the media pack, copy the **csiAutoVue4webtop.jsp** file to the <Webtop Root>\custom\autovue directory.

3    Locate the <VueServlet-Context>, replace it with the context that you specified when you deployed VueServlet in section Deploying the VueServlet Application (e.g. /VueServlet).

4    Save the changes and close the file.

# Configuring csiAutoVueBatchView4webtop.jsp for Webtop

The following steps are mandatory if you are installing VueLink for Documentum for Webtop manually and want to configure multi-file view feature.

To specify AutoVue Server and Client parameters and the URL to the VueLink servlet for Webtop, take the following steps:

1    Create the autovue folder under the folder <Webtop Root>\custom\ directory.

2    From the AVCS_VueLink_DCTM\dms_extension\webtop6.7\custom\autovue directory of the media pack, copy the csiAutoVue4webtop.jsp file to the <Webtop Root>\custom\autovue directory.

# Configuring Multi-file View Feature

**Note:** This section is only mandatory if you want to enable AutoVue button when more than one file is selected.

To configure multi-file view in AutoVue do the following steps:

- Configure dm_document_actions.xml for Webtop
- Configure dmr_content_actions.xml for Webtop
- Configure menubar_component.xml for Webtop
- Configure toolbar.jsp for Webtop
- Configure container_component.xml for Webtop

## Configure dm_document_actions.xml for Webtop

To configure dm_document_actions.xml for Webtop, do the following:

1   Open the file "dm_document_actions.xml" under <Webtop Root>\custom\config\ directory in a text editor.

2   You can either manually enter the following block of text or copy and paste the text from the [Multi-View function Configuration: dm_document_actions.xml & dmr_content_actions.xml]"  section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory:

```
<!-- action AutoVue Batch View definition -->
<action id="autovue_batch_view">
        <params>
                <param name="objectId" required="true" />
                <param name="contentType" required="false" />
        </params>
        <preconditions>
                <precondition class="com.documentum.webcomponent.library.actions.ViewAction" />
        </preconditions>
        <execution class="com.documentum.web.formext.action.LaunchComponentWithPermitCheck">
                <permit>read_permit</permit>
                <component>autovue_batch_view</component>
                <container>autovue_customcontainer</container>
        </execution>
</action>
```

3   Locate the line

```
<action id="autovue" nlsid="MSG_AUTOVUE"/>
```

Replace with the following line:

```
<action id="autovue_batch_view" nlsid="MSG_AUTOVUE"/>
```

**Note:** The above replacement has to be made in two places of the code.

4   Locate the line

```
<actionmenuitem dynamic="singleselect" action="autovue" nlsid="MSG_AUTOVUE" showifdisabled="false" showifin-
valid="false"/>
```

In the code provided above replace the following:

      dynamic="singleselect" to dynamic="multiselect"
      action="autovue" to action="autovue_batch_view"

5    Save the file.

# Configure dmr_content_actions.xml for Webtop

To configure dmr_content_actions.xml for Webtop, do the following:

1    Open the file "dmr_content_actions.xml" under <Webtop Root>\custom\config\ directory in a text editor.

2    You can either manually enter the following block of text or copy and paste the text from the [Multi-View function Configuration: dm_document_actions.xml & dmr_content_actions.xml]" section of the vuelink_webtop_configuration.txt file in the <VueLink Installation folder>\vuelink_documentation directory:

```
<!-- AutoVue Batch View action  -->
<action id="autovue_batch_view">
        <params>
                <param name="objectId" required="true" />
                <param name="contentType" required="false" />
        </params>
        <preconditions>
            <precondition class="com.documentum.webcomponent.library.actions.ViewAction" />
        </preconditions>
        <execution class="com.documentum.web.formext.action.LaunchComponentWithPermitCheck">
            <permit>read_permit</permit>
            <component>autovue_batch_view</component>
            <container>autovue_customcontainer</container>
        </execution>
</action>
```

3    Locate the line

```
<action id="autovue" nlsid="MSG_AUTOVUE"/>
```

    Replace with the following line:

```
<action id="autovue_batch_view" nlsid="MSG_AUTOVUE"/>
```

4    Locate the line

```
<actionmenuitem dynamic="singleselect" action="autovue" nlsid="MSG_AUTOVUE" showifdisabled="false" showifin-
valid="false"/>
```

    In the code provided above replace the following:

      dynamic="singleselect" to dynamic="multiselect"
      action="autovue" to action="autovue_batch_view"

5    Save the file.

# Configure menubar_component.xml for Webtop

1    Open the file menubar_component.xml under <Webtop Root>\custom\config\ directory in a text editor.

2    Locate the line

```
<insertafter path = "menu[name=file_menu].actionmenuitem[id=file_view]">
        <actionmenuitem dynamic="singleselect" id="file_view_as_autovue" name="file_view_as_autovue"
nlsid="MSG_AUTOVUE" action="autovue" showifinvalid="true"/>
      </insertafter>
```

In the code provided above, replace the following:

dynamic="singleselect" to dynamic="multiselect"

action="autovue" to action="autovue_batch_view"

3    Save the file.

# Configure toolbar.jsp for Webtop

1    Open the file "toolbar.jsp" under <Webtop Root>\custom\toolbar directory in a text editor.

2    Locate the line

```
<td nowrap><dmfx:actionlink cssclass='toolbaractions' dynamic="singleselect" name="autovue" action="autovue"
nlsid="MSG_AUTOVUE" tooltipnlsid="MSG_AUTOVUE" src="icons/toolbar/icon_checkin_16.gif" srcdisabled="icons/
toolbar/icon_checkin_disabled_16.gif" linkspacer="10" showifdisabled="true" showifinvalid='true'/></td>
```

In the code provided above replace the following:
dynamic="singleselect" to dynamic="multiselect"
action="autovue" to action="autovue_batch_view"

3    Save the file.

# Configure container_component.xml for Webtop

1    In the <Webtop Root>\custom\config directory, create a new file named "container_component.xml".

2    Open the container_component.xml file in a text editor.

3    You can either manually enter the following block of text or copy and paste the text from the [Multi-View
     function Configuration: container_component.xml]  section of the vuelink_webtop_configuration.txt file in the
     <VueLink Installation folder>\vuelink_documentation directory:

```
<config version='1.0'>
<scope>
        <component id="autovue_customcontainer" extends="container:wdk/config/container_component.xml">
                <params>
                        <param name='component' required='true'></param>
                        <param name='componentArgs' required='true'></param>
                </params>
                <class>com.cimmetry.vuelink.documentum.AutoVueCustomContainer</class>
        </component>
</scope>
</config>
```

4    Save the file.

# Configuring BOCS

Configuring BOCS includes the following steps:

1  Deploying VueLink on BOCS site
2  Deploying VueServlet on BOCS site
3  Configuring csiAutoVue4webtop.jsp for BOCS

**Note:** This section is mandatory only if you are using Documentum's BOCS capabilities.

## Deploying VueLink on BOCS site

To deploy VueLink on the BOCS site, do the following:

1  Copy the vuelink folder from the VueLink installation directory (on the webtop machine) to a temporary folder 'vuelink' on the BOCS machine.
2  Open web.xml in the <vuelink>\WEB-INF\ folder in a text editor.
3  Replace <LogFileFullPath> to the path and name of the log file where you want log messages to be written.
4  Archive vuelink folder to an application war file and deploy it on the application server.

## Deploying VueServlet on BOCS site

To deploy VueServlet on the BOCS site, do the following:

1  Copy the VueServlet folder from the VueLink installation directory (on the webtop machine) to a temporary folder 'VueServlet' on the BOCS machine.
2  Open web.xml in the <VueServlet>\WEB-INF\ folder in a text editor.
3  Replace localhost:5099 with the host name and the socket port for AutoVue Server.
4  Archive the VueServlet folder to an application war file and deploy it on the application server.

## Configuring csiAutoVue4webtop.jsp for BOCS

This configuration has to be done on the webtop machine.

To configure csiAutoVue4webtop.jsp for Webtop, do the following:

1  Open the csiAutoVue4webtop.jsp in the <Webtop_Root>\custom\autovue folder in a text editor.

   • Locate the line

```
boolean isBOCSEnabled = false;
```

   • Change the value to "true".
   • Configuring the network location with VueLink on BOCS site:
      • Locate the BOCS mapping section

```
if( networkLocationID != null && networkLocationID.equals("<BOCS-ID>"))
{
sJVueHost = "<Protocol>://<APP-Server>:<APP-Port>" + "<BOCS-VueServlet-Context>"+ "/servlet/VueServlet";
sRedirectURL = "<Protocol>://<APP-Server>:<APP-Port>" + "<BOCS-VueLink-Context>" + "/com.cimmetry.vuelink.docu-
mentum.bocs.DMS";
}
```

- Replace <BOCS-ID> with the real network location ID.
- Replace <Protocol> with http or https.
- Replace <APP-Server>:<APP-Port> with host name and port number for application server.
- Replace <BOCS-VueServlet-Context> with the context that you specified when you deployed VueServlet on BOCS site (e.g. /VueServlet).
- Replace <BOCS-VueLink-Context> with the context that you specified when you deployed vuelink on BOCS site (e.g. /vuelink)

**Note:**

- If you have a network location mapping to other BOCS servers, you should duplicate the BOCS mapping section mentioned in subsection Configuring the network location with VueLink on BOCS site in csiAutoVue4webtop.jsp
- *if* clause can be extended to include more than one network location if needed. An example follows:

```
if( networkLocationID != null &&
(networkLocationID.equals("BOCS_1") ||
networkLocationID.equals("BOCS_2")) )
```

- The modified jsp does not require you to restart the application server, but may require you to update the Webtop application.
- When a user from a remote BOCS site opens any documents that require preprocessing, such as: Encrypted content, compressed content or XML documents in Documentum Content Server, the file will be downloaded from main content server instead of remote BOCS site. The reason is that ACS servers cannot directly access any documents that require preprocessing.

# Registering Markup and Streaming File Formats in Documentum

The Documentum Docbase must be configured to allow creation of different types of Markup files. Otherwise, the default file type — binary — is used, and all markup files are treated as "Normal" Markups.

For AutoVue and Oracle VueLink for Documentum to check-in streaming files into the Docbase, you must register the streaming file format.

A Documentum user with administrative rights can register these file formats with the following steps.

**Note:** If you already registered the Markup and streaming file formats in Documentum, you must change the description of the *csiMetafile* format manually. Refer to **Updating Description for csiMetafile Format**.

## Utility to Register Markup and Streaming File Formats

The installer for Oracle VueLink for Documentum for Documentum creates a utility to register Markup and streaming file formats. To run the utility, follow these steps:

1    Go to <Oracle VueLink for Documentum Install folder>\bin.

2    Run runsetter2.bat, using the following syntax:

```
runsetter2.bat <options> <docbroker> <docbase> <username>
```

**Note:**
- **<options>** can be:
  - **-d** - delete Markup and streaming file formats if already created
  - **-cmmf** - register Markup and streaming file formats.
- **<docbroker>** is the name of the docbroker
- **<docbase>** is the name of the docbase where you want to register Markup and metafile formats
- **<username>** is the name of the Documentum user; user should have Administrative privileges

3    Type your password, and then press **Enter**.

Repeat steps 1 and 2 for all docbases you wish to customize.

# Manually Registering Markup and Streaming File Formats

Refer to the instructions in this section if you want to manually register Markup and streaming file formats.

1  Open the Documentum Administrator home page in a Web browser.

2  Connect to the Docbase to which you want to add AutoVue Markup formats.

3  Enter the user name, password and domain for the Administrator account.

4  Click **Formats** in the left frame.

   The list of formats appears.

5  For each file format, click **New** to create a new format.

6  Enter the **Format Name** and **Format Description**.

| Format Name | Format Description |
| --- | --- |
| markup | Regular markups |
| mmarkup | Master markups |
| cmarkup | Consolidated markups |
| csiMetafile | Streaming File |

7  Click **Create**.

   There are now four newly registered file formats.

# Updating Description for csiMetafile Format

1  Launch your Web browser and go to the Documentum Administrator home page.

2  Connect to the Docbase to which you need to update the description for the csiMetafile format.

3  Enter your username, password, and domain for the Administrator account.

4  From the left frame, click **Formats.**
   The list of formats appears.

5  Search for the **csiMetafile** format.

6  Right-click the format **csiMetafile** and then select **Properties.**

7  Change the **Description** to "Streaming File".

8  Click **OK.**

# Configuring VueLink Properties

1    Open the file vuelink.properties that you copied to the Servlets folder of your Application Server/Servlet Engine.

2    Modify any of the following settings as required:

| Setting | Syntax | Description |
|---------|--------|-------------|
| DisableCache | DisableCache=false | Set to **true** if you want to force file download every time the file is viewed. |
| MarkupFolder | MarkupFolder= /Temp/CSIMarkups; /Temp/Redlines | To define a list of folders in which Markups can be stored, set **MarkupFolder** as a semicolon-separated list of folder names. The folder to which a Markup file is saved depends on the folder selected from the **Save** dialog. Make sure the folder exists and users have write access to it. **Note:** The folders are relative to the Webtop root directory. |
| DefMarkupOwnerPerms DefMarkupGroupPerms DefMarkupWorldPerms | DefMarkupOwnerPerms=n DefMarkupGroupPerms=n DefMarkupWorldPerms=n | Where n is a value 1 through 7 indicating the following Documentum permissions: DM_PERM_NONE      1 DM_PERM_BROWSE  2 DM_PERM_READ       3 DM_PERM_RELATE     4 DM_PERM_VERSION  5 DM_PERM_WRITE      6 DM_PERM_DELETE    7 **Note:** This option is used to control the permission on Markup folder. The permission is set on newly created Markup folder. Does not overwrite any existing Markup folder permission. |
| AllMarkupsReadOnly | AllMarkupsReadOnly=0 | Set to 1 if all existing Markups are to be treated as ReadOnly. Even owners cannot modify/save his existing Markup. |
| AllowDuplicateMarkups | AllowDuplicateMarkups=1 | Set to **0** if you do not wish to allow markups with the same name. Default: 1 |
| ATTRIBUTE LIST | ATTRIBUTE LIST=CSI_DocSize; CSI_DocAuthor; CSI_DocDateLastModified;CSI_ DocDateCreate;CSI_Version;CSI_UserName | The properties file defines by default the list of the attribute names. To define additional attributes, append to the list the attribute names using a semicolon as a separator. These attributes are read for Webtop. |
| AllowRenditions | AllowRenditions = CSI_META; PCRS_TIF; PCVC_PDF; PCRS_BMP | Semi-colon separated list of allowed formats used as renditions. The list should include valid Documentum formats: PCRS_TIF is mapped to the TIFF format, PCVC_PDF is mapped to the PDF format, PCRS_BMP is mapped to the BMP format, and CSI_META is mapped to the streaming file format. |
| DEF_ACL | DEF_ACL=ACL_CSI | Specify the name of the ACL to set permission on newly created Markups. |

| Setting | Syntax | Description |
|---------|--------|-------------|
| DEF_ACLDOMAIN | DEF_ACLDOMAIN = doc42test_01 | Specify the name of the ACL owner. |
| CustomFolders | CustomFolders= csc_folder; csc_cabinets | By default, VueLink ignores any folder type other than dm_cabinet and dm_folder. If you have custom folders, specify a list of custom folders. VueLink will list all specified folder types. |
| CSI_StampDefLocation | CSI_StampDefLocation= C:/temp/dmstamps.ini or CSI_StampDefLocation= /System/dmstamps.ini | Specify the location of stamp definition file which is either the full path to a local file or a DMS location. |
| CSI_MarkupPolicyDefLocation | CSI_MarkupPolicyDefLocation= C:/temp/MarkupPolicy.xml or CSI_MarkupPolicyDefLocation= /System/MarkupPolicy.xml | Specify the location of markup policy file which is either the full path to a local file or a DMS location. |
| CSI_BlankMarkupLocation | /custom/jvue/BlankMarkup.mrk | Specify the relative path to the Web application for default blank markup. **Default value:** /custom/jvue/BlankMarkup.mrk. If you change the default location of *Blank-Markup.mrk*, then copy BlankMarkup.mrk from /custom/jvue folder to the new location. |
| ConsolidateOwnerOnly | ConsolidateOwnerOnly = 1 | When set to 1, user with Relate permission to the base file can only save a normal markup, and cannot consolidate any markups (either his/her own markups or other user's markups). In order to save consolidate markup, user must have Write permission to the base file. When set to 0, user with Relate permission to the base file can save both normal and consolidate markup. |
| Extensions | Extensions= pdf;doc | This setting is useful when end user checks in a document to DMS without specifying file extension. VueLink for Documentum will return the filename along with extension to AutoVue Server if the extension is specified in vuelink.properties. **Note:** While checking in a file to Documentum with Format field set to "Unknown", VueLink will not append an extension even if set in vuelink.properties. **Note:** In order for VueLink to resolve external references, extensions of the external references must be specified in vuelink.properties. |
| Language | en | **Default value**: en (English) If the Web browser cannot find Language, the default value is used. |
| Country | US | **Default value**: US If the Web browser cannot find Country, the default value is used. |

# Specifying Stamp Definition

This configuration is optional.The Stamp markup entity lets you create a stamp that includes document and user information (metadata) pulled directly from the backend DMS system.

For detailed information on how to create an Stamp definition file, refer to *Oracle AutoVue, Client/Server Deployment User's Manual.*

After creating the Stamp definition file, you must do the following:

1   Open the vuelink.properties file in a text editor.

2   Specify the location of the Stamp definition file.
    This file can either be checked into Documentum or it can be on the local file system of the application server machine.

3   Save and close the vuelink.properties file.

If you specify a DMS location for the Stamp definition file, you must check in the file to all the repositories that you want to customize. Additionally, ensure that the images referenced in the Stamp definition file are checked into the same folder in DMS.

# Configuring Launch Mode for AutoVue Client

After installing Oracle VueLink for Documentum for Webtop, follow the instructions in this section to modify the file launch mode to open a file in AutoVue in a new window or in the same window.

1   Go to <Webtop Root>\custom\autovue.

2   Using a text editor such as Notepad, open the **csiAutoVue4webtop.jsp** file for Webtop.

3   Locate the following section of code:

```
<script language="JavaScript">
<!-- hide script from old browsers

    var PROG = "separated";

  if (PROG == "EMBEDDED") {
     CreateEmbeddedApplet();
  } else {
     CreateApplet();
  }
```

4   To launch a file in the same window, change the value **PROG** to **EMBEDDED**.

5   To launch a file in a separate window, change the value **PROG** to **SEPARATED**.

6   Save and close the file.

# Completing the Configuration for XRefs

Some Computer Aided Design (CAD) packages, such as AutoCAD and Microstation, have implemented the concept of composite or hybrid drawings. These drawings consist of multiple files, usually called External Reference Files (XRefs).

If AutoCAD is integrated with Documentum using SWORD Cadtop, VueLink can fetch and display the latest version of XRefs from Documentum DMS if the reference type is set to "Dynamic" in Cadtop. If the reference type is set to

"Static," VueLink can fetch and display a specific version of XRefs. If SWORD Cadtop is not used, before VueLink can fetch XRefs from Documentum, a relationship between XRef files and their base drawings must be established.

To establish a relationship between XRefs and their base files, take the following steps:

1    Check in the file and its associated XRefs into Documentum

2    Obtain the document ID for all XRef files:

    a.  Click **Properties** for each XRef file.

    b.  Select **Show all properties**.

    c.  Obtain the document ID from this page (r_object_id).

3    Go to the **Properties** for the base file.

    a.  Click **Edit** for the **Keywords**.

    b.  Enter the XRef definition here.
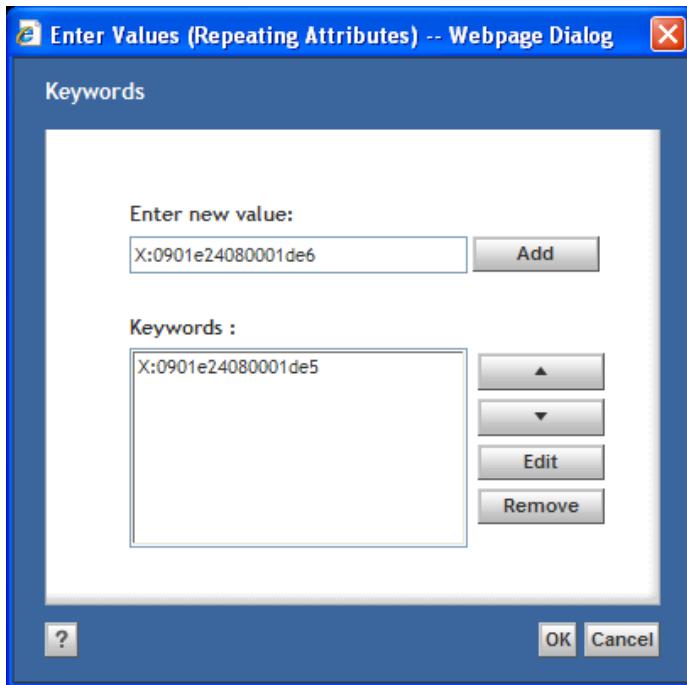


    c.  Click **OK** to accept the changes.

For the definition, follow the syntax indicated in the following table:

| Syntax | Description |
|---|---|
| X:nnnnnnnnnnnnnnnn:\<filename\> <br> **Or...** <br><br> X:nnnnnnnnnnnnnnnn | • **X:** communicates to Documentum that you are about to specify a link to an external reference file. <br> • **nnnnnnnnnnnnnnnn**: the object-id Documentum associates with the external reference document <br> • **\<filename\>:** the file name of the external reference document. Optional. |

# Enabling HTTPS/SSL

## Updating or enabling HTTPS/SSL

VueLink supports connections to HTTPS (Secure HyperText Transfer Protocol) using SSL (Secure Socket Layer).

1   In a text editor such as Notepad, open the file java.security under the <JRE Home>\jre\lib\security directory. <JRE Home> is the root folder where Sun's Java Runtime Environment (JRE) is installed.

2   Look for the line containing "security.provider.2" under the **# List of Providers** section.

Manually enter the following line that appears in bold:

```
#
# List of Providers and their preference orders (see above):
#
security.provider.1=sun.security.provider.Sun
security.provider.2=com.rsajca.Provider
security.provider.3=com.sun.net.ssl.internal.ssl.Provider
```

3   If you already have an entry with "security.provider.3", replace "3" with the next available number.

## Enabling HTTPS/SSL support with Application Server/Servlet Engine

If you obtained a Trial SSL ID from VeriSign (CA), you must install Test CA Root into the JRE used by your Application Server/Servlet Engine. VeriSign has implemented this step to prevent fraudulent use of Test Server IDs. When you purchase a regular Secure Server ID, you will not have to perform this step. For example, if you have obtained Trial SSL ID for Microsoft IIS Web server, then do the following:

1   Import the SSL ID you obtained from CA into Internet Explorer and then export it in Base-64 encoded format X.509.

**Note:** The SSL ID should be the ID installed on the Web Server.

2   Import the Base-64 SSL ID to cacerts file using keytool.exe.

**Example:**

```
C:\jdk1.3.1\bin>keytool -import -alias otserver -file c:\ss13.cer -trustcacerts
-v -keystore C:\jdk1.3.1\jre\lib\security\cacerts


password: changeit


Serial number: 257bc618dbdcbf7befc81c2fce739a8a
Valid from: Wed Apr 10 20:00:00 EDT 2002 until: Thu Apr 25 19:59:59 EDT 2002
Certificate fingerprints:
     MD5:   E5:0B:A7:36:B7:B9:76:71:72:D8:D7:EB:57:5D:13
     SHA1: E9:CE:9C:7F:28:68:7D:6D:1C:0B:4D:18:26:87:63:0C:54:05:98
Trust this certificate? [no]: yes
Certificate was added to keystore
[Saving C:\jdk1.3.1\jre\lib\security\cacerts
```

**Note:** You need to repeat step 2 to import the SSL ID into cacerts file for JRE used by AutoVue Server. The location for cacerts file is <AutoVue Install Directory>\jre\lib\security\cacerts.

**Example:**

```
C:\Program Files\jVue\jre\1.3\bin>keytool -import -alias otserver -file c:\ssl3.cer -trustcacerts -v -keystore
C:\Program Files\jVue\jre\1.3\lib\security\cacerts
```

3   Restart your application server (servlet engine) for the changes to take effect.
4   To verify that the SSL ID was successfully imported into cacerts, use the keytool utility.

**Example:**

```
C:\jdk1.3.1\bin>keytool -list -keystore C:\jdk1.3.1\jre\lib\security\cacerts
```

**Note:** When HTTPS is enabled, make sure the file csijVue.html is updated with the right web port for sCODEBASE. Open the file csijVue.html and locate the string sCODEBASE. Specify a valid port after the web server. For IIS, the default port number is 443.

**Example:**

```
;String sCODEBASE = sServerProtocol + otserver:443/jVue
```

# Verification

To verify that the VueLink servlet (com.cimmetry.vuelink.documentum.DMS) is working properly, launch your Web browser and enter the URL pointing to the servlet alias name which you assigned when you installed the vuelink.jar into the application server.

**Example of an URL:**

> http://127.0.0.1:7005/webtop/com.cimmetry.vuelink.documentum.DMS

The following screen represents a sample response indicating that Oracle VueLink for Documentum is running properly. If you do not receive a similar response, refer to the installation instructions.
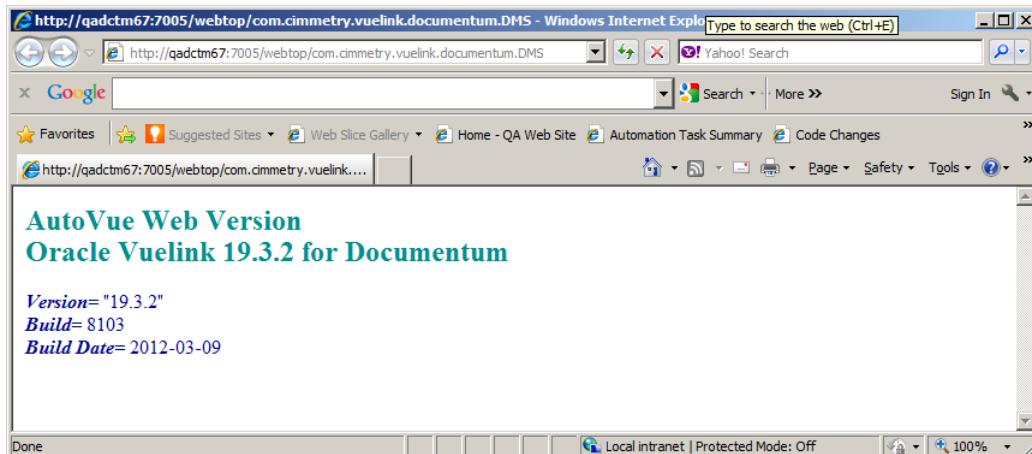


**Note: Build number** and **Build Date** are also shown in the response.

# Appendix A: Manual Installation

The installation of Oracle VueLink for Documentum requires the following:

•     Copying files that customize Documentum and enable launching AutoVue from within Documentum
•     Configuring the installation
•     Installing the VueLink Servlet
•     Verifying the Servlet

## Manually Installing Oracle VueLink for Documentum

**Note:**

•     <Webtop Root> is the location where Webtop is unpacked.
•     Delete the Application Server cache after you install/uninstall the VueLink.

The following steps describe how to manually install Oracle VueLink for Documentum and Webtop:

1     Verify that Documentum and Webtop are installed properly.

2     Undeploy the Webtop application from the application server.

3     Unpack the successfully deployed Webtop application WAR file to a folder.

4     From <Webtop Root>\custom directory open the **app.xml** file and verify that it contains the following line of code:

```
<application extends="webtop/app.xml" >
</application>
```

5     Configure the **dm_document_actions.xml** file.
Refer to the steps described in **Configuring dm_document_actions.xml for Webtop.**

6     Configure the **dmr_content_actions.xml** file.
Refer to the steps described in **Configuring dmr_content_actions.xml for Webtop.**

7     Configure the **menubar_component.xml** file.
Refer to the steps described in **Configuring menubar_component.xml for Webtop.**

8     Configure the **toolbar_component.xml** file.
Refer to the steps described in **Configuring toolbar_component.xml for Webtop.**

9     Configure the **toolbar.jsp** file.
Refer to the steps described in **Configuring toolbar.jsp for Webtop.**

10     Configure the **GenericActionNlsProp.properties** file.
Refer to the steps described in **Configuring GenericActionNlsProp.properties for Webtop.**

11     Configure the **MenuBarNlsProp.properties** file.
Refer to the steps described in **Configuring MenuBarNlsProp.properties for Webtop.**

12     Configure the **ToolBarNlsProp.properties** file.
Refer to the steps described in **Configuring ToolBarNlsProp.properties for Webtop.**

13     Configure the **autovue_component.xml** file.
Refer to the steps described in **Configuring autovue_component.xml for Webtop.**

14     Configure the **web.xml** file.
Refer to the steps described in **Configuring web.xml for Webtop.**

15     Create a subfolder called **autovue** under <Webtop Root>\custom directory.

16  From the \AVCS_VueLink_DCTM\dms_extension\webtop6.7\custom\autovue directory of the media pack, copy the csiAutoVue4webtop.jsp file to the *autovue* folder you created in the previous step. Edit this file as described in **Configuring csiAutoVue4webtop.jsp for Webtop.**

17  From the \AVCS_VueLink_DCTM\dms_extension\webtop6.7\custom\autovue directory of the media pack, copy the csiAutoVueBatchView4top.jsp file to the *autovue* folder you created in the previous step. Edit this file as described in **Configuring csiAutoVueBatchView4webtop.jsp for Webtop**.

18  Create a subfolder called **jvue** under the <Webtop Root>\custom directory.

19  Copy the AutoVue client files jvue.jar, jogl.jar, and gluegen-rt.jar from <AutoVue Install Directory>\bin to the <Webtop Root>\custom\jvue directory.

20  From the \AVCS_VueLink_DCTM\vuelink_servlet directory of the Media Pack, copy all files, except vuelink.properties, to the <Webtop Root>\WEB-INF\lib directory.

21  From the \AVCS_VueLink_DCTM\vuelink_servlet directory of the Media Pack, copy the vuelink.properties file to the <Webtop Root>\custom\jvue directory.

**Note:** The vuelink.properties file can be copied to any location under the <Webtop Root> directory. If you choose to save vuelink.properties in another location, the file path must be updated in web.xml.

22  To verify that Oracle VueLink for Documentum servlet works properly see **Verification**.

23  Perform other optional configuration for the Oracle VueLink for Documentum. Refer to section **Configuration**.

24  Re-archive the Webtop application WAR file.

**Re-archive command on Windows:**

```
%JAVA_HOME%\bin\jar.exe -cvf webtop.war -C <webtop_unpack_folder> .
```

**Note:** You must include a space followed by a period (.) at the end of the command.

Where JAVA_HOME is an environment variable that points to the directory where Java Virtual Machine is installed on your machine, and webtop_unpack_folder points to the staging folder where Documentum Webtop is installed.

25  Deploy the WAR file according to the deployment instructions in your application server documentation.

Following are the optional steps:

1  To configure the multi-file view feature, refer to the steps described in **Configuring Multi-file View Feature**.

2  To configure the VueLink for Documentum BOCS, refer to the steps described in **Configuring BOCS**.

**Oracle Corp.**

# 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 Documentum, call or email us. Your input is an important part of the information used for revision.

## General Inquiries

**Telephone:** +1 514-735-3219

**Fax:** (514) 735-6440

**E-mail:** **autovuesales_ww@oracle.com**

**Web Site:** **http://www.oracle.com/applications/autovue/index.html**

## Sales Inquiries

**Telephone:** +1 514-735-3219 or 1-800-361-1904

**Fax:** (514) 735-6440

**E-mail:** **autovuesales_ww@oracle.com**

## Customer Support

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