

Oracle VueLink 19.3.1 for Documentum
System Administrator Manual

***An Integration between Documentum
and AutoVue Web Version***

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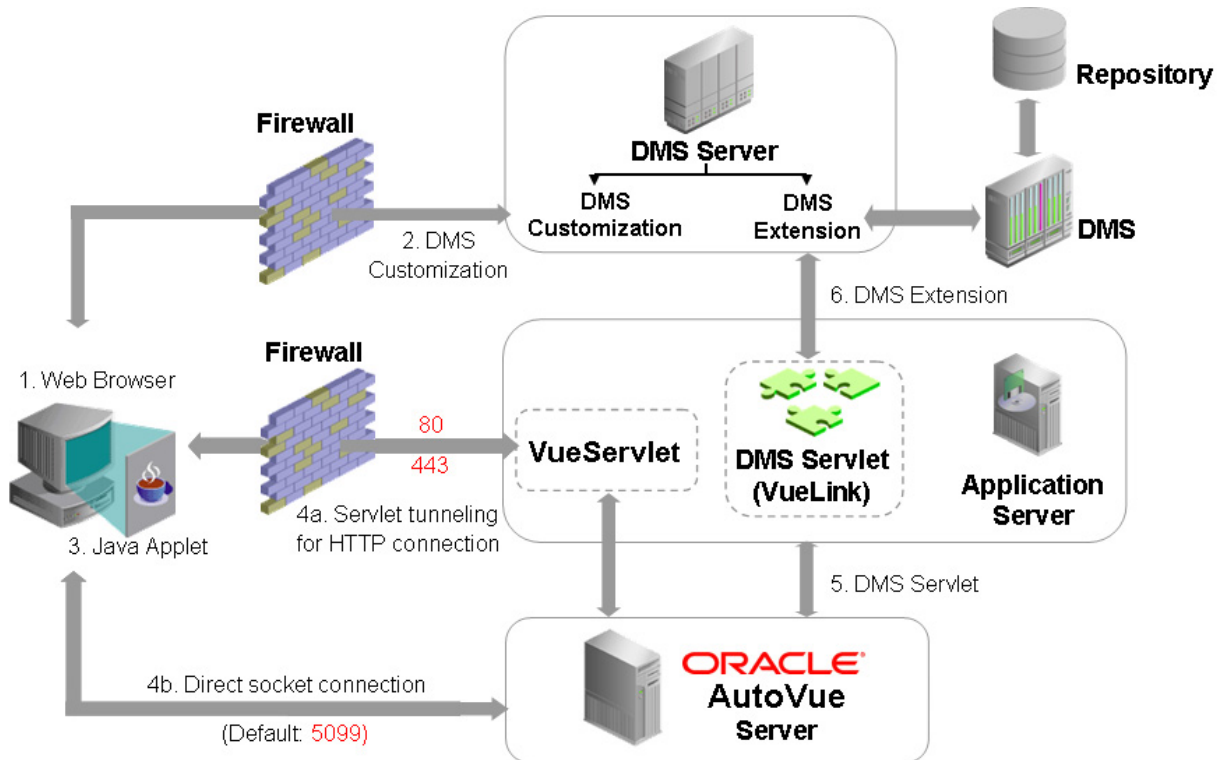
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Introduction

The VueLink servlet allows AutoVue to communicate with Documentum DMS using standard HTTP or HTTPS protocol. The following diagram illustrates a typical configuration of how AutoVue integrates with VueLink.



How VueLink for Documentum Works

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

Depending on AutoVue's configuration, the AutoVue client communicates with AutoVue Server either through servlet tunnelling for HTTP connection or through direct socket connection. The AutoVue Server communicates with the VueLink servlet using standard HTTP connection. With DMS Extension installed on the server, the VueLink servlet can communicate with Documentum Webtop to handle any request made by AutoVue Server such as file fetching.

To display a composite file (a file with external references), the VueLink servlet retrieves the file along with all of its component files from DMS and makes them available to 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 19.3.1 for Documentum Release Notes*.

- AutoVue Web Version 19.3 (and any service packs for release 19.3)
- The server installation for Documentum 6.5 SP1 as shown in the following section.

Documentum 6.5 SP1

- Documentum Content Server 6.5 SP1 on Windows 2003R2 32-bit
- Documentum Webtop 6.5 SP1 on the following operating systems where Webtop and the application server are installed:
 - Windows 2003R2 32-bit
- Documentum Administrator 6.5 SP1 (Optional) - Required for registration of AutoVue Markup formats.
- Application Server / Servlet Engine:
 - Oracle Application Server 10g Release 3 (10.1.3.3.0)
 - Oracle WebLogic Server 10g Release 3
- Optional Component
 - SWORD Cadtop version 2.3.0.0

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 the 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 AutoVue Web Version 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 \AutoVue_Web_Version\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 Enter the AutoVue Server details (AutoVue Server is required for all components):
 - a. Enter the name of the host machine where AutoVue is running.
 - b. Enter the socket port for AutoVue Server.
- 9 Click **Next** to continue installation.
- 10 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.
- 11 Click **Next** to continue installation.
- 12 Select whether you want files to launch in the same AutoVue applet (embedded) or in a applet (non-embedded).
Note: You can also configure the launch method after the installation.
- 13 Click **Next** to continue installation.
- 14 Click **Browse** to specify the Documentum configuration directory where the dfc.properties is located.
For example: <Webtop_Unpack_Folder>\WEB-INF\classes
- 15 Click **Next** to continue installation.
- 16 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.

- 17 Click **Next** to continue installation, then wait for the Installer to finish creating and updating files.
- 18 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.
- 19 Click **Finish** to exit the Installer.
- 20 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.
- 21 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.

- 22 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 Shutdown your application server and clear 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. We have shipped a text file, `vueLink_webtop_configuration.txt`, that contains all the blocks of text for you to copy and paste from when updating your configuration files.

Configuring Webtop

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

Configuring `dm_document_actions.xml` for Webtop

Following instructions are mandatory if you are doing an automatic or manual installation for 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 version="1.0" encoding="UTF-8" ?>
<config version="1.0">
  <scope type="dm_document">
    <action id="submitforcategorization" extends="submitforcategorization:webcomponent/config/actions/
dm_document_actions.xml"/>
    <action id="newrelation" extends="newrelation:webcomponent/config/actions/dm_document_actions.xml"/>
    <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>

    <!-- 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.

Configuring `dmr_content_actions.xml` for Webtop

Following instructions are mandatory if you are doing an automatic or manual installation for 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 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

Following instructions are mandatory if you are doing an automatic or manual installation for 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

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

- 1 In the <Webtop Root>\webtop\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

Following instructions are mandatory if you are doing an automatic or manual installation for 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

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\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

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

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\toolbar* under the <Webtop Root>\custom directory.
- 1 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.

- 2 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
```

- 3 Save and close the file.

Configuring autovue_component.xml for Webtop

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

From the `AutoVue_Web_Version\dms_extension\webtop6.5sp1\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

Following instructions are mandatory if you are doing an automatic or manual installation for 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>
  <description> com.cimmetry.servlet.VueServlet</description>
  <servlet-name>com.cimmetry.servlet.VueServlet</servlet-name>
  <servlet-class>com.cimmetry.servlet.VueServlet</servlet-class>
  <init-param>
    <param-name>JVueServer</param-name>
    <param-value><jVue Server Host>:<port></param-value>
  </init-param>
  <init-param>
    <param-name>Verbose</param-name>
    <param-value>0</param-value>
  </init-param>
  <init-param>
    <param-name>DebugLevel</param-name>
    <param-value>0</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>

<servlet-mapping>
  <servlet-name>com.cimmetry.servlet.VueServlet</servlet-name>
  <url-pattern>/servlet/VueServlet</url-pattern>
</servlet-mapping>

```

Replace `<jVue Server Host>:<port>` with the host name and the port for AutoVue Server.

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|ser  
vlet\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 steps are mandatory if you are installing VueLink for Documentum for Webtop manually. If you are running the installer, these parameters are automatically configured by the installer. 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 `AutoVue_Web_Version\dms_extension\webtop6.5sp1\custom\autovue` directory of the media pack, copy the `csiAutoVue4webtop.jsp` file to the `<Webtop Root>\custom\autovue` directory.
- 3 Using a text editor such as Notepad, open the `csiAutoVue4webtop.jsp` file and locate the following line:

```
String sJVueServer = "<JVUE-SERVER>";
```

Change the string “<JVUE-SERVER>” to the host name and port of the AutoVue server. Use the format of “HostName:port”. For example, if you use the AutoVue server on myjVue on port 5099, the line should be changed to:

```
String sJVueServer = “myjVue:5099”;
```

- 4 Save the changes and close the file.

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
cm Markup	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	DefMarkupOwnerPerms=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.
DefMarkupGroupPerms	DefMarkupGroupPerms=n	
DefMarkupWorldPerms	DefMarkupWorldPerms=n	
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_ DocDateCre- ate;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_IntellistampDefLocation	CSI_IntellistampDefLocation= C:/temp/dmstamps.ini or CSI_IntellistampDefLocation= /System/dmstamps.ini	Specify the location of intellistamp 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 <i>Blank-Markup.mrk</i> , then copy BlankMarkup.mrk from /custom/jvue folder to the new location.
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.

Configuring Markup Policy for Mobile Packs

This configuration is optional. Markup policy defines a set of rules to determine certain restrictions and privileges for users of the Mobile Pack. When creating the Mobile Pack, you can define your own policy file or use the sample markup policy file that is shipped with Oracle VueLink for Documentum. The sample markup policy is located in the <VueLink Installation folder>\bin directory and provides the following functions for markups:

- The master markups appear automatically.
- Offline master markups can only be deleted and saved by their owner. Other users can modify the offline master markups and save them with a different name by using the **Save As** action.

To specify a markup policy for the Mobile Pack, do the following:

- 1 Open the vuelink.properties file in a text editor.
- 2 Specify the location of the markup policy 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 markup policy file, you must check-in the file to all the repositories that you want to customize.

For detailed information on how to create a markup policy file, refer to the *AutoVue Web Version Installation and Administration Manual*.

Specifying Intellistamp Definition

This configuration is optional. The Intellistamp 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 Intellistamp definition file, refer to *AutoVue Web Version User's Manual*.

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

- 1 Open the vuelink.properties file in a text editor.
- 2 Specify the location of the Intellistamp 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 Intellistamp 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 Intellistamp 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

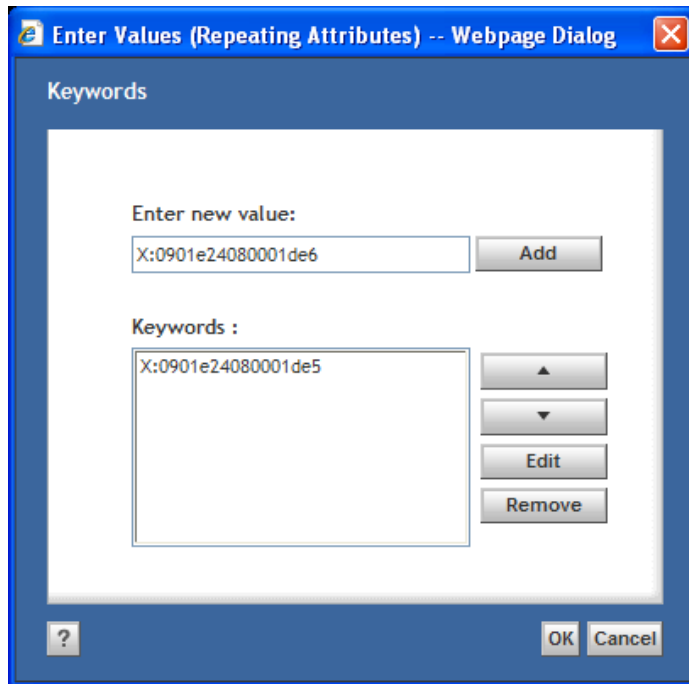
Some Computer Aided Design (CAD) packages, such as AutoCAD and Microstation, have implemented the concept of composite or hybrid drawings. These drawings consist of multiple files, usually called External Reference Files (XRefs).

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:nnnnnnnnnnnnnnnnnnnn:<filename>	<ul style="list-style-type: none"> X: communicates to Documentum that you are about to specify a link to an external reference file.
<i>Or...</i>	<ul style="list-style-type: none"> nnnnnnnnnnnnnnnnnnnn: the object-id Documentum associates with the external reference document
X:nnnnnnnnnnnnnnnnnnnn	<ul style="list-style-type: none"> <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: 257bc618dbdcfb7befc81c2fce739a8a  
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\1.3\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 csjVue.html is updated with the right web port for sCODEBASE. Open the file csjVue.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
```


Internationalization (i18n)

VueLink supports internationalization of the VueLink-related dialogs through the Java resource bundle. VueLink supports english, but if you wish to add support for additional languages you can add new resource bundles to the VueLink deployment location.

Note: For a list of string keys/value pairs that are used in VueLink internationalization, refer to “Appendix B: String Keys/Value Pairs for VueLink Internationalization (i18n)” on page 31.

To add an additional language, perform the following steps:

- 1 Copy the english resource bundle file, **vueLinkResourceBundle_en.properties**, from the `<vueLink_servlet>` folder to a file named **vueLinkResourceBundle_<language_code>.properties**.
Note: `<language_code>` is a two-letter ISO code for language names (for example, **en** for English, **fr** for French, **de** for German, and so on).
- 2 Add your translations to this new resource file.
- 3 Copy the new resource file into the following directory inside the Web application:
`<VueLink application deployment root>/WEB-INF/classes/com/cimmetry/vueLink/documentum/messages/`
Note: Create the above file path if it does not already exist.
- 4 Restart the application server to load the resource file.

To test the new resources, change the language setting of your Web browser to the new language, log on to the system, and then view document in AutoVue. All VueLink-related messages and dialogs should appear in the selected language.

Hard Coding the Locale

By default, VueLink customization retrieves the locale from the request header. If you want to set the locale to a fixed value, you must customize the VueLink as follows:

- 1 From the `custom\autovue` directory inside `webtop`, open the **csiAutoVue4webtop.jsp** in a text editor.
- 2 Locate the following line:

```
String acceptLanguage = request.getHeader("Accept-Language"); //i18n
```
- 3 Set the `acceptLanguage` variable to a set value (for example, `acceptLanguage="fr"`).

As a result, the AutoVue applet and VueLink set their locale to the value defined in step 3. You should make sure that the correct resource bundle for the defined language is copied into the VueLink folder as described in [Internationalization \(i18n\)](#). Otherwise, if the resource bundle is not found, the default resource bundle (English) will be used.

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 \AutoVue_Web_Version\dms_extension\webtop6.0sp1\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 Create a subfolder called **javue** under the <Webtop Root>\custom directory.
- 18 Copy the AutoVue client files javue.jar, jogl.jar, and gluegen-rt.jar from <AutoVue Install Directory>\bin to the <Webtop Root>\custom\javue directory.
- 19 From the \AutoVue_Web_Version\vueLink_servlet directory of the Media Pack, copy all files, except vueLink.properties, to the <Webtop Root>\WEB-INF\lib directory.
- 20 From the \AutoVue_Web_Version\vueLink_servlet directory of the Media Pack, copy the vueLink.properties file to the <Webtop Root>\custom\javue 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.
- 21 To verify that Oracle VueLink for Documentum servlet works properly see [Verification](#).
- 22 Perform other optional configuration for the Oracle VueLink for Documentum. Refer to section [Configuration](#).
- 23 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.

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

Appendix B: String Keys/Value Pairs for VueLink Internationalization (i18n)

The following are string keys/value pairs for the english resource file (vuelinkResourceBundle_en.properties). If you wish to add support for additional languages, you must copy the following contents to a new resource bundle and then modify it accordingly. For complete information on creating a new resource bundle, refer to “Internationalization (i18n)” on page 28.

i18n=english_Canada

Greeting=Welcome

Search=Search

Title=Title

Author=Author

Name=Name

Browse=Browse

No_Doc_Found=No document was found for the search criteria.

ModifiedBy=Modified by

Comment=Comment

MarkupType=Markup Type

KeepPermanent=Keep Permanent

Asset=Asset

Cannot_Set_Property=Can not set value to property:

Pls_Connect=Please connect to:

To_Save_Markup=to save markup to DMS.

Cannot_Get_Docbase_Failed_To_Save=Can not get current connected docbase and failed to save the markup.

Read_Only_Markup=Markup is Read Only.

Markup_Promote_Notice=You are promoting markup file. Please use 'Save As' to provide proper info.

Markup_RaceCondition_Notice=Cannot modify the markup that has been updated by another user! You can conduct Save As action.

Workflow_Markup_Save_Error=Cannot create the workflow markup with workflow ID as name.

Markup_Update_Failure=Failed to update markup file.

Rendition_Add_Failure=Failed to add rendition.

Markup_Add_Failure=Fail to create new markup.

Markup_SetPermission_Failure=Fail to set markup permission.

SetFile_Failure=Failed to set file!

Rendition_Fail_File_Checkout=The file is checked out, you cannot save Rendition

FileAccessPermission_Error=You don't have permission to access the file.

BaseFileWriteAccess_Error=You need at least 'WRITE' access to the base file to proceed with the operation.

RenditionFormat_ErrorMessage=Rendition Format must be different from original format.

StreamingRendition_Limit=Streamingfile Rendition can only be created for the top base file.

Markup_DeletePermission_Error=You need 'Delete' access to the markup to proceed with the operation.

Markup_WriteAccess_Error=You need at least 'WRITE' access to the markup to proceed with the operation.

MarkupSaveError_BaseFileMissing=The base file has already been deleted in DMS, Cannot save the markup to DMS!

DeleteAccess_SaveMarkup_ErrorMessage=You need 'Delete' access to the base file to create/save Master Markups.

BaseFile_RelatedAccess_Error=You need 'RELATE' access to the base file to create/save normal/consolidated markup.

Markup_NotExist=The markup does not exist. It might be already deleted.

MasterMarkupDelete_OwnerOnlyLimit=Non-owner of base file is not allowed to delete master markup.

MasterMarkupSave_OwnerOnlyLimit=Only the owner is authorized to create/save master markup.

MasterMarkupUpdate_OwnerOnlyLimit=Non-owner of base file is not allowed to modify master markup.

MarkupName_UnsupportedCharacters=The name or title contains unsupported character(s). Please correct it.

MarkupName_Too_Long=The markup name is too long. Please use shorter name.

MarkupTitle_Too_Long=The markup title is too long. Please use a shorter one.

MarkupName_Exist=A Markup already exists with the name

Provide_DifferentName=Please provide a different name.

URL_Parameters_Missing=URL does not belong to this DMS due to lack of parameters.

Malformed_URL_Error=URL does not belong to this DMS due to Malformed URL.

URL_IOException_Error=URL does not belong to this DMS due to IOException.

File_Not_Exist=The file doesn't exist in docbase

IntelliStamp_Definition_Missing=Cannot find IntelliStamp design definition file. Please ask Administrator to check in the configuration file.

Markup_Policy_Missing=Cannot find Markup Policy file.Please ask Administrator to check in the configuration file.

No_Valid_Session=Could not get valid session from Docbase.

Access_Denied_No_UserPass=Access denied. No user and password are provided.

Pls_Login=Please login to the docbase:

ERROR_MSG_DMS_OPEN=URL does not belong to this DMS.

ERROR_MSG_DMS_DOWNLOAD=Access denied. Download operation requires Authorization.

ERROR_MSG_DMS_GETPROPERTIES=Access denied. Get Properties operation requires Authorization.

ERROR_MSG_DMS_SETPROPERTIES=Access denied. Set Properties operation requires Authorization.

ERROR_MSG_DMS_SAVE=Access denied. Save operation requires Authorization.

ERROR_MSG_DMS_DELETE=Access denied. Delete operation requires Authorization.

ERROR_MSG_DMS_DELETE_OEVF=Default OEVF markup cannot be deleted.

ERROR_MSG_DMS_NOID=Could not find Doc ID property.

ERROR_MSG_DMS_NOPROPS=Could not find any Property to set

ERROR_MSG_DMS_NOREQUEST=No Request !!!

ERROR_MSG_DMS_UNKNOWNREQUEST=Unknown command request !

ERROR_MSG_DMS_NULLREQUEST=Encountered null command request!

ERROR_MSG_DMS_NOFILE=File Name is missing !

ERROR_MSG_DMS_NOBASEDOCID=Base Doc ID is missing !

ERROR_MSG_DMS_CREATINGNEWDOC=Failed to create new document !

ERROR_MSG_DMS_NODOCID=Doc ID is missing !

ERROR_MSG_DMS_SAVEPROPS=Failed to set properties while saving document !

ERROR_MSG_DMS_SETFILE=Failed to set file content while saving document !

ERROR_MSG_DMS_CONTACTINGSERVER=Error occurred while contacting server.

ERROR_MSG_DMS_AUTHORIZATIONFAILURE=Error: Password required.

OEVF_ASSETID_MISSING=Cannot find AssetID in the keywords.

OEVF_ASSET_NO_MATCH=No match found for assetID.

OEVF_ASSET_MORE_MATCH=More than one match found for assetID

OEVF_NO_PERMISSION=No permission for the file.

OEVF_NO_DOC_FOUND=No document found.

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.

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