VueLink for Matrix

An Integration between AutoVue Client-Server Edition and Matrix

System Administrator Manual
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Introduction

The VueLink servlet allows AutoVue Server to communicate with Matrix using the standard HTTP protocol. The block diagram below illustrates a typical configuration of how AutoVue integrates with Matrix.

**Note** VueLink components are shaded.

How VueLink Works

The client logs on to the Document Management System (DMS) through a web browser like Microsoft's Internet Explorer or Netscape Navigator. With DMS Customization in place, a link for the viewer appears next to each file stored in the DMS. When you click this link, AutoVue applet is launched and you can view that file inside the web browser window.
Depending on AutoVue configuration, AutoVue client communicates with AutoVue Server either through servlet tunnelling for HTTP connection or through direct socket connection. Then AutoVue server communicates with the VueLink servlet using standard HTTP connection. With DMS Extension installed on the server, the VueLink servlet can communicate with Matrix to handle any request made by AutoVue server, like file 'fetching.'

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

System Requirements

Note VueLink Installer is supported on Windows 2003, Windows 2000 and Solaris 8 & 9

• AutoVue Client-Server Edition v19 Sp2
• Application Server / Servlet Engine
  Example: BEA Weblogic 8.1, 7.0.2, IBM WebSphere 4.0 or 5.0

One of the following Matrix Server installations:

• **Matrix Server Matrix Server v10.5.2/v10.5.3**
  • Matrix Collaboration Servlet RMI/EJB v10.5.2/v10.5.3
  • Matrix Client Applet XML v10.5.2/v10.5.3 (Optional)
  • Matrix MQL Application v10.5.2/v10.5.3 – required by InstallShield Setup Program for installing schema
  • Matrix Business Application v10.5.2/v10.5.3 – required only if installing schema manually
  • Matrix Application Exchange Framework (AEF) for Matrix v10.5.2/v10.5.3 (Optional)
  • Matrix TeamCentral Application for Matrix v10.5.2/v10.5.3 (Optional)
  • Matrix EngineeringCentral Application for Matrix v10.5.2/v10.5.3 (Optional)
  • Matrix SupplierCentral Application v10.5.2/v10.5.3 (Optional)
  • Matrix DocumentManagementCentral Application v10.5/v10.5.1 (Optional)
  • Matrix RequestCentral Application v10.5.2/v10.5.3 (Optional)
  • Matrix InfoCentral Application v10.5.2/v10.5.3 (Optional)
  • Matrix SourcingCentral Application v10.5.2/v10.5.3 (Optional)
• Matrix enhanced File Collaboration Server (eFCS) v10.5.2/v10.5.3 (Optional)

  or...

• **Matrix Server Matrix Server v10.6.0 or v10.6.1**
  • Matrix Collaboration Servlet **RMI/EJB** v10.6.0 or v10.6.1
  • Matrix Client Applet **XML** v10.6.0 or v10.6.1
  • Matrix **MQL** Application v10.6.0 or v10.6.1 – required by InstallShield Setup Program for installing schema
  • Matrix **Business** Application v10.6.0 or v10.6.1 – required only if installing schema manually
  • Matrix Application Exchange Framework (AEF) for Matrix v10.6.0 or v10.6.1 (Optional)
  • Matrix TeamCentral Application for Matrix v10.6.0 or v10.6.1 (Optional)
  • Matrix EngineeringCentral Application for Matrix v10.6.0 or v10.6.1 (Optional)
  • Matrix SupplierCentral Application v10.6.0 or v10.6.1 (Optional)
  • Matrix DocumentManagementCentral Application v10.6.0 or v10.6.1 (Optional)
  • Matrix RequestCentral Application v10.6.0 or v10.6.1 (Optional)
  • Matrix InfoCentral Application v10.6.0 or v10.6.1 (Optional)
  • Matrix SourcingCentral Application v10.6.0 or v10.6.1 (Optional)
Automatic Installation

In the following section you will find instructions for installing VueLink for Matrix with the help of the InstallShield Wizard.

The VueLink Installer for Matrix installs the VueLink servlet, and customizes and configures Matrix and AutoVue.

**Note**

- If you have a previous copy of VueLink for Matrix installed, please **uninstall** before proceeding with the new installation.
- If you are installing VueLink on a Solaris machine, you must be logged in as root user and have xterm access or have permissions to run mql, to run the installer and to write into the rmi installation directory.
- If you are installing on Solaris, run setupSolarisSparc.bin found on the distribution CD under /matrix/vueLink_setup/solaris.

To install VueLink for Matrix:

1. Run setupwin32.exe found on the distribution CD under \AutoVue_Client_Server_Edition\vueLink_setup\win32. The installer starts installing VueLink for Matrix.

2. Enter the directory where you want VueLink for Matrix installed. The setup copies necessary integration files into this directory.
3. Select the components that need to be installed.

**Note**

- The **WebServer Components** are html, gif and other web resources that belong to AutoVue and VueLink for Matrix.
- The **Application Server Components** installs VueLink components and registers them with the Application Server. The installer supports Weblogic 6.1 and above. Websphere 4.0, 5.0 for J2EE installation of Matrix.
- The **All Components** installs the web server components and the application server components.
4 Specify the version of AutoVue you have installed.
   Select **2D Only** if you have AutoVue Professional.
   Select **2D & 3D** if you have AutoVue SolidModel installed.
5 Enter the J2EE Application context root for Matrix.

6 Enter the AutoVue Server **Host Name** and the **Socket Port** for the AutoVue Server.
7 Enter the Web Server Details. For **J2EE**, select J2EE from the drop-down list, then specify the Web Server **Host Name** and Web Server **Port Number**. Specify the path to Matrix Collaboration Kernel eg.: \C:\Matrix10\rmi.

For **non-J2EE**, select Web Server from the drop-down list, then specify the Web Server **Host Name**, Web Server **Port Number** and Web Server **Doc Root**.
8 Follow the screen's prerequisites. Make sure the machine on which you are running the installer has MQL installed and make sure your application server is shut down.

9 Select the application server that Matrix is deployed with. Specify if your application server is installed as a cluster.
10 Specify the paths to AutoVue server installation files.

11 If you are installing with 10.5.x, specify if you want to update `emxSystem.properties`. 
12 Specify the type of Matrix Collaboration Server in use.

![Matrix Collaboration Kernel Details]

Please specify the type of Matrix Collaboration Kernel being used:
- RMI (Remote Method Invocation)
- EJB

Specify if you want to copy SSL related packages. Select **Yes** if your application server is using JDK1.3 or below.

![Location for Matrix framework properties]

Specify the path to the framework properties file.

![Do you want the installer to copy SSL related packages?]

Specify if you want to copy SSL related packages. Select **Yes** if your application server is using JDK1.3 or below.
14 The installer prompts you to decide if you want to install the metafile caching utility.

15 If you selected Yes in the previous step, the installer prompts for the path to JDK and the Matrix servlet file. For instructions on how to configure and run the offline caching utility, refer to readme.doc in <vuelink install folder>metafile_utility.
16 Specify the Schema type in use.

17 Specify the name and the path to the MQL Application.
18 Specify the Matrix Context and Store Information:

19 Select the formats for which you want AutoVue to be registered as a viewer.
20  If you chose Matrix AEF Schema, the installer brings up the schema details screens.
    If you have a customized AEF schema, specify the schema information.
    If you are using the Default Schema, click Next.
21 If you have Matrix integration with I-DEAS, the following 2 screens appears. If the \texttt{csiTDMAJVueIntegration JPO} is already installed, the next screen that appears is \textbf{Backup csiTDMAJVueIntegration}. You are prompted to replace your program with a new version, select \textbf{Yes}.

The next screen prompts you to specify a \textbf{STORE} for TDMA* policies. The installer sets the \textbf{STORE} only if the policies do not have a \textbf{STORE} set. Specify the name of the \textbf{STORE} in this screen.

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22 Specify the name for the Cimmetry Global Configuration Object.

23 The installer prompts you to decide if you want to install the Global Object at this point, select Yes.

Note See Appendix A for details on the attributes of the Configuration object. The installer also makes entries for these attributes in the vuelink.properties file, see Appendix C.
24 The installer summarizes the installation. The Installer installs all required components. Click **Next**.

![Installer Summary]

25 If you are using EJB or RMI collaboration kernel, make sure that the respective jar file **ematrixServletEJB.jar** or **ematrixServletRMI.jar** required by the VueLink is set in the Application's Server Class Path.

![Installer Notice]

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26 To see the results of the MQL Execution, click the link to the MQL Execution Log.
27 The installer prompts you to run the Matrix WAR utility. Make sure to run the WAR utility and redeploy the WAR/EAR file on your application server.

28 Click **Finish** to complete the installation.

29 For J2EE deployments, run the ematrix war utility to generate a WAR/EAR file. Deploy this WAR/EAR file with your Application Server.
Silent Installation

In the following section you will find instructions for installing VueLink for Matrix silently with the help of the InstallShield Wizard.

The silent installation takes all its installation parameters from a single options file.

You can find example options file under \AutoVue_Client_Server_Edition\vuelink_setup\win32 and \AutoVue_Client_Server_Edition\vuelink_setup\solaris.

Structure of the Options File

The options file is divided in five broad sections. Each section contains a list of options whose value impacts the installation procedure. Each option is carefully identified and documented.

Heading

The heading section explains the organization of the options file and shows an example command line to start the silent installation.

Silent Installation Enabling Options

This section regroups the special options that are not generated by the recording mechanism. If you record options from an interactive installation session, you will need to include the options in this section in order to install VueLink successfully.

Mandatory Editable Options

The options in this section are part of the core information the installer uses to install VueLink on your system. Each value in this section should be changed to reflect your system’s architecture.

This section also lists the options needed when installing on a target J2EE system.
The default values reflect an installation on a Windows system.

<table>
<thead>
<tr>
<th>Title</th>
<th>Option Name</th>
<th>TAG</th>
<th>Default Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install Location</td>
<td>-P install Location</td>
<td><em>installLocation</em></td>
<td>&quot;C:\Cimmetry\VueLinkForMatrix&quot;</td>
</tr>
<tr>
<td>Option Log Output Filename, a copy of the installation log.</td>
<td>-W LogFile.optionalLogOutput</td>
<td><em>LogFile_optionalLogOutput</em></td>
<td>&quot;C:\temp\VuelinkForMatrixInstallLogOpt.txt&quot;</td>
</tr>
<tr>
<td>port</td>
<td>-W asInfo.port</td>
<td><em>asInfo_port</em></td>
<td>&quot;7001&quot;</td>
</tr>
<tr>
<td>Install Components</td>
<td>-W csiSetupType.choice</td>
<td></td>
<td>&quot;11&quot;</td>
</tr>
<tr>
<td>AutoVue Client-Server Edition</td>
<td>-W jvueLicense.type</td>
<td></td>
<td>&quot;jvsnmp&quot;</td>
</tr>
<tr>
<td>J2EE Application name for Matrix</td>
<td>-W servletContext.name</td>
<td><em>servletContext_name</em></td>
<td>&quot;/ematrix&quot;</td>
</tr>
<tr>
<td>J2EE Web Server</td>
<td>-W wsDetails1.selectedWebServer</td>
<td></td>
<td>&quot;J2EE&quot;</td>
</tr>
<tr>
<td>Application Server Cluster</td>
<td>-W pn1AppSrvChoice.isCluster</td>
<td></td>
<td>&quot;true&quot;</td>
</tr>
<tr>
<td>Web Server Host Name</td>
<td>-W wsDetails1.ip</td>
<td><em>wsDetails1_ip</em></td>
<td>&quot;localhost&quot;</td>
</tr>
<tr>
<td>-P asData.webServerHost</td>
<td><em>asData_webServerHost</em></td>
<td></td>
<td>&quot;localhost&quot;</td>
</tr>
<tr>
<td>Web Server Port Number</td>
<td>-W wsDetails1.port</td>
<td><em>wsDetails1_port</em></td>
<td>&quot;:7001&quot;</td>
</tr>
<tr>
<td>-P asData.webServerPort</td>
<td><em>asData_webServerPort</em></td>
<td></td>
<td>&quot;:7001&quot;</td>
</tr>
<tr>
<td>Selected Web Server Type - detail</td>
<td>-W pn1AppSrvChoice.type</td>
<td><em>pn1AppSrvChoice_type</em></td>
<td>&quot;wl_6x&quot;</td>
</tr>
<tr>
<td>Matrix RMI Collaboration Server Installation Directory</td>
<td>-W wsDetails1.doc Root</td>
<td><em>wsDetails1_doc Root</em></td>
<td>&quot;c:\matrix105\rmi&quot;</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>-P asData_2_3. servletEngine Details</td>
<td><em>asData_2_3_servletEngineDetails</em></td>
<td>&quot;c:\matrix105\rmi&quot;</td>
<td></td>
</tr>
<tr>
<td>Matrix Collaboration Server Port</td>
<td>-W mxCollab Server2.port</td>
<td><em>emxFP_matrixServerHost</em></td>
<td>&quot;1099&quot;</td>
</tr>
<tr>
<td>Matrix Host</td>
<td>-W emxFP.matrix ServerHost</td>
<td><em>emxFP_matrixServerHost</em></td>
<td>&quot;//localhost:1099&quot;</td>
</tr>
<tr>
<td>Matrix Collaboration Kernel</td>
<td>-W mxCollab Server.type</td>
<td><em>emxFP_matrixServerHost</em></td>
<td>&quot;RMI&quot;</td>
</tr>
<tr>
<td>Location of Matrix framework. properties</td>
<td>-W emxFP.prop FilePath</td>
<td><em>emxFP_propFilePath</em></td>
<td>&quot;e:\matrix105\rmi\java\properties\framework.properties&quot;</td>
</tr>
<tr>
<td>Java Runtime Environment for Metafile Caching (1.3+)</td>
<td>-W metafileInfo. jdkLoc</td>
<td><em>metafileInfo_jdkLoc</em></td>
<td>&quot;C:\Program Files\JavaSoft\JRE\1.3.1_03&quot;</td>
</tr>
<tr>
<td>Matrix Collaboration Kernel</td>
<td>-W metafileInfo. kernelLoc</td>
<td><em>metafileInfo_kernelLoc</em></td>
<td>&quot;e:\Matrix105\rmi\java\lib\eMatrixServlet RMI.jar&quot;</td>
</tr>
<tr>
<td>Path and File Name for MQL.exe application.</td>
<td>-W mqlExe.file Path</td>
<td><em>mqlExe_filePath</em></td>
<td>&quot;c:\matrix105\bin\winnt\mql.exe&quot;</td>
</tr>
<tr>
<td>Matrix User name</td>
<td>-W mxDB.user</td>
<td><em>mxDB_user</em></td>
<td>&quot;creator&quot;</td>
</tr>
<tr>
<td>Matrix User password</td>
<td>-W mxDB. password</td>
<td><em>mxDB_password</em></td>
<td>&quot;&quot;</td>
</tr>
<tr>
<td>Matrix Vault for GCO (Global Configuration Object)</td>
<td>-W mxDB.vault</td>
<td><em>mxDB_vault</em></td>
<td>&quot;eService Administration&quot;</td>
</tr>
</tbody>
</table>
### Mandatory Read-only Options

The mandatory read-only options are by-products of the installation recording mechanism. The values in this section should normally not be changed.

<table>
<thead>
<tr>
<th></th>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matrix Store for GCO</td>
<td>-W mxDB.store <em>mxDB_store</em></td>
<td>&quot;STORE&quot;</td>
</tr>
<tr>
<td>Matrix Store for TDMA</td>
<td>-W tdmaStore.store <em>tdmaStore_store</em></td>
<td>&quot;STORE&quot;</td>
</tr>
<tr>
<td>Matrix Global MQL Execution Flag</td>
<td>-W execMQL._status <em>execMQL_status</em></td>
<td>&quot;1&quot;</td>
</tr>
<tr>
<td>Matrix 10.5x</td>
<td>-W emxSystem.update</td>
<td>&quot;No&quot;</td>
</tr>
<tr>
<td>Matrix AEF Schema</td>
<td>-W aefSchema Details.type</td>
<td>&quot;1&quot;</td>
</tr>
<tr>
<td>SSL Related Packages</td>
<td>-W emxFP.ssl Copy</td>
<td>&quot;true&quot;</td>
</tr>
<tr>
<td>Metafile Utility</td>
<td>-W mfChoice.enable</td>
<td>&quot;yes&quot;</td>
</tr>
</tbody>
</table>

### Optional Options

Depending on your target system’s architecture, the options in this section should be populated. For example, some options are only needed when the target system only configures the application server. Before setting the options manually, it is highly recommended to record an interactive session and observe the contents of the generated options file.

### AEF Related Options

The options in this section should only be changed if your Matrix customization made changes to the standard AEF classes. Otherwise, leave the default values. There are two ways to generate the appropriate options file for your installation procedure. You can generate an options file from an interactive session or duplicate an example options file.
Generate an Options File

The VueLink for Matrix installer allows you to record options from an interactive installation run. To generate an options file, use switch “-options-record <filename>” when invoking setupwin32 and replace <filename> by the name of the options file to be generated. The file is created after the installation successfully completes. Unlike the example options file, this generated options file is not organized in sections.

Once the generated options file is available, it must be modified to be used with the silent installer. Locate the example options file on your distribution CD and add the options from the “Silent installation enabling options”.

Duplicate an Example Options File

The other way to obtain an options file is to duplicate the example file and adjust it to your system’s specifications. This strategy works well when the target system is similar to the system used to generate the options file.

Invoke the Silent Installer

Using an adequate options file, the silent installer can now be invoked. On Windows, run one of the command lines:

```
setupwin32.exe -silent -options <options-filename>
java -Xbootclasspath/p:"setup.jar" -cp setup.jar run -options <options-filename> -silent
```

using the executables found on the distribution CD under

\AutoVue_Client_Server_Edition\vuelink_setup and the options file of your choice.

Example:  setupwin32.exe -silent -options c:\default-options-win32.txt

Note

- Since the installer program returns immediately (on Windows), use a tool such as the Task Manager to detect when the installation has finished.
- The installation runs some basic options validation and aborts if an option is invalid. In this case, an error is logged to the log file and no changes are propagated to the target system.
- The installation procedure records events while performing its tasks. A log file is created under a temporary directory (C:\Temp on Windows, /tmp on Solaris).
• The installer can provide a copy of the installation log using the option -W LogFile.optionalLogOutput.
• Content of the optional log file is controlled using optional options in the options file. See the appropriate section of the options file for more detailed information.

An Example Options File

```
# HEADING SECTION
#############################################################
# InstallShield Options File
# This file contains values that were specified during a recent execution of # Setup. It can be used to configure Setup with the options specified below when # the wizard is run with the "-options" command line option. Read each setting's # documentation for information on how to change its value.
# A common use of an options file is to run the wizard in silent mode. This lets # the options file author specify wizard settings without having to run the # wizard in graphical or console mode. To use this options file for silent mode # execution, use the following command line arguments when running the wizard:
# -options "default-options-win32.txt" -silent
# It is also strongly recommended to turn on logging to enable installation # debugging. Use the options below to log errors and warnings:
# example of a command line:
# setupwin32 -silent -options default-options-win32.txt

# VueLink for Matrix (Java) Silent Installation Options
# The options are divided into two broad categories: mandatory, optional, and # schema related.
# The mandatory options are presented first. Some mandatory options can be
```
# edited by end users. Others are internal values that simply need to be set
# here. They are presented after the editable options.
#
# The optional options are explained after the mandatory options.
# The comments give context information on how the option is optional.
#
# Finally, the schema related options are regrouped at the end of this file.
# Those options do not need to be changed if you haven't modified the
# Application Exchange Framework schema.
#
# Sometimes two options are set after a single comment block. In this case,
# the values of both options must be the same to ensure a proper installation.

VueLink for Matrix (Java) Silent Installation Flags
#
# The silent installation of this product must be enabled using those flags:
# Important Note: they are not produced by the standard options recording beans.
#
- P asData.temp="C:\Temp"
- W Win32TargetLocationOverwrite.active=false
- W silentOptionsCheck.active=true
- W mxDbMqlQueryUnix.active=false
- W LogFileUnderInstallDir.active=false
#
# Enable the Integration JSP files installation on matrix version 10.6+

- W jVueInstallerLocations.active=true

MANDATORY EDITABLE OPTIONS

VueLink for Matrix (Java) Install Location
#
# The install location of the product. Specify a valid directory into which the
# product should be installed. The directory cannot contain spaces.
# This is a mandatory option. This option can be edited.
#
- P installLocation="C:\Cimmetry\VueLinkForMatrix"
# VueLink for Matrix (Java) Log File Location

# The log file is produced at the install location of the product by default.
# Specify a valid filename for the log target.
# This is a mandatory option. This option can be edited.

-W LogFile.optionalLogOutput=_LogFile_optionalLogOutput_

# User Input Field - choice
# Three values are possible: "Web Server Only" should be specified using "10"
# "App Server Only" using "01", and "All Components" using "11" (default value).
# This is a mandatory option. This option can be edited.

-W csiSetupType.choice="11"

# User Input Field - type
# Two values are possible: "2D only" should be specified with "jvp" "2D and 3D"
# should be specified with "jvsmp".
# This is a mandatory option. This option can be edited.

-W jvueLicense.type="jvsmp"

# User Input Field - port
# Port Number used by Application Server.
# This is a mandatory option. This option can be edited.

-W asInfo.port="7001"

# User Input Field - name
# J2EE Application name for Matrix, e.g. "/ematrix". Note: If you have *not*
# deployed Matrix as a J2EE application, this value should be "/servlet".
# This is a mandatory option. This option can be edited.
-W servletContext.name="/ematrix"

# User Input Field - ip
#
# Host Name (or IP address) where AutoVue Server is installed:
# This is a mandatory option. This option can be edited.

-W jvs.ip="localhost"

# User Input Field - port
#
# Socket Port Number used by AutoVue Server (default is 5099):
# This is a mandatory option. This option can be edited.

-W jvs.port="5099"

# Web Server Host Name
#
# Host Name or IP address of the web server.
# This is a mandatory option. This option can be edited.
# This option is used when setup type includes a web server.

-W wsDetails1.ip="localhost"
-P asData.webServerHost="localhost"

# Web Server port number
#
# Web Server port number (examples are 8080 (default) on Tomcat, 7001 on # Weblogic).
# This is a mandatory option. This option can be edited.
# This option is used when setup type includes a web server.

-W wsDetails1.port="$8080"
-P asData.webServerPort="$8080"

# Selected Web Server
#
# Selected Web Server choices are J2EE, Weblogic, IIS, Domino, or Other.
# This is a mandatory option. This option can be edited.
# This option is used when setup type includes a web server.

-W wsDetails1.selectedWebServer="J2EE"

# Document Root Folder
#
# Root folder for documents. In case of a J2EE installation, this is the Matrix
# RMI Collaboration Server installation directory.
# This is a mandatory option. This option can be edited.
# This option is used when setup type includes a web server.

-W wsDetails1.docRoot="c:\matrix105\rmi"
-P asData_2_3.servletEngineDetails="c:\matrix105\rmi"

# User Input Field - type
#
# Supported Application Servers are Weblogic 5.x (value = wl_5x), Weblogic 6.x
# (value = wl_6x), iPlanet (value = iplanet), WebSphere 4.3/5.x (value = ws_4x)
# This is a mandatory option. This option can be edited.

-W pnlAppSrvChoice.type="wl_6x"

# User Input Field - isCluster
#
# Is your application server installed in a cluster? The value of the choice
# will replace string DMS_PRESERVE_COOKIES in file csiApplet.html. Values are
# "true" or "false".
# This is a mandatory option. This option can be edited.

-W pnlAppSrvChoice.isCluster="true"
# Matrix Collaboration Kernel. Suitable values are "RIP", "RMI" or "EJB".
# Defaults to "RMI".
# This is a mandatory option. This option can be edited.

-W mxCollabServer.type="RMI"

################################################################
# User Input Field - port
#
# Matrix Collaboration Kernel RMI Port. Default value is 1099
# This is a mandatory option. This option can be edited.

-W mxCollabServer2.port="1099"

################################################################
# Matrix Host
#
# This is the framework.properties::property ematrix.server.host property value.
# This is a mandatory option. This option can be edited.

-W emxFP.matrixServerHost="//localhost:1099"

################################################################
# Location of Matrix framework.properties file
#
# Location of Matrix framework.properties file (usually under
# matrix\rmi\java\properties)
# This is a mandatory option. This option can be edited.

-W emxFP.propFilePath="c:\matrix105\rmi\java\properties\framework.properties"

################################################################
# Option for copying SSL related packages
#
# This flag indicates to copy SSL related packages. Could be false for JDK1.4+.
# This is a mandatory option. This option can be edited.

-W emxFP.sslCopy="true"

################################################################
# User Input Field - update
#

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Cimmetry Systems Corp.
# This is an optional field to update emxSystem.properties, 
# it is intended to be Yes for Matrix 10.5x only

-W emxSystem.update="No"
################################################################
# User Input Field - enable
#
# Install the Metafile Caching Utility by setting this value to "yes". Use "no"
# to disable metafile caching.
# This is a mandatory option. This option can be edited.

-W mfChoice.enable="yes"
################################################################
# User Input Field - jdkLoc
#
# Location where Sun's JRE is installed (v1.3 +).
# This is a mandatory option. This option can be edited if it doesn't start with a $.

-W metafileInfo.jdkLoc="C:\Program Files\JavaSoft\JRE\1.3.1_03"
################################################################
# User Input Field - kernelLoc
#
# Matrix Collaboration Kernel Library File Location (eMatrixServletRMI.jar).
# This is a mandatory option. This option can be edited if it doesn't start with a $.

-W metafileInfo.kernelLoc="c:\Matrix105\rm\java\lib\eMatrixServletRMI.jar"
################################################################
# User Input Field - type
#
# If the Matrix AEF Schema is installed (even if it is customized), use the
# value "1". Otherwise use the value "2".
# This is a mandatory option. This option can be edited.

-W aefSchemaDetails.type="1"
################################################################
# User Input - FilePath

Cimmetry Systems Corp.
-W mqlExe.filePath="C:\matrix105\bin\winnt\mql.exe"
#
# Matrix User name
#
# Matrix User name to connect with.
# This is a mandatory option. This option can be edited.

-W mxDB.user="creator"
#
# Matrix User password
#
# Password to use with this user name.
# This is a mandatory option. This option can be edited.

-W mxDB.password=""
#
# Matrix Vault
#
# Vault to associate the Global Configuration Object with.
# This is a mandatory option. This option can be edited.

-W mxDB.vault="eService Administration"
#
# Matrix Store
#
# Store to associate the Global Configuration Object with.
# This is a mandatory option. This option can be edited.

-W mxDB.store="STORE"
#
# User Input Field - prefix
#
# Prefix of TDMA policy names to set default store for.
# This is a mandatory option. This option can be edited.

-W tdmaStore.prefix="TDMA"

# User Input Field - store
#
# Store to associate TDMA policy with. The only affected policies have names 
# that begin with prefix.
# This is a mandatory option. This option can be edited.

-W tdmaStore.store="STORE"

# User Input Field - status
#
# Use value "1" to install Cimmetry Global Configuration Object now. Use "2" to 
# skip this step.
# This is a mandatory option. This option can be edited.

-W execMQL.status="1"

#MANDATORY READ-ONLY OPTIONS

# User Input Field - ip
#
# Host Name (or IP address) where Application Server is installed.
# This is a mandatory option.
# This option is used internally and should not be changed.

-W asInfo.ip="$W(wlDetails.localhost)"

# ShowDocRoot
#
# UI control flag to allow the user to change the panel's selected directory.
# This is a mandatory option.
# This option is used internally and should not be changed.
# This option is used when setup type includes a web server.

-W wsDetails1.showDocRoot="yes"

# ShowDocRoot
#
# UI control flag to allow the user to change the panel's selected directory.
# This is a mandatory option.
# This option is only used when setup type is App Server only.
# This option is used internally and should not be changed.

-W wsDetails12.showDocRoot="no"

# User Input Field - path
#
# This option is used internally and should not be changed.

-W emxKernel2.path="$P(asData_2_3.servletEngineDetails)"

# User Input Field - path
#
# This option is used internally and should not be changed.

-W emxKernel.path="$P(asData_2_3.servletEngineDetails)"

# User Input Field - path
#
# This option is used internally and should not be changed.

-W emxTeamCentral.path="$P(eMatrixV10Patch.installLocation)"

# Matrix Formats Selected for VueLink Integration
#
# This attribute should be empty.
# This option is used internally and should not be changed.

-W mxDBFormats.selectedFormats=""
# OPTIONAL OPTIONS

# Matrix Server Name
#
# This is the framework.properties::property ematrix.server.name property value.
# This option can be edited.

-W emxFP.matrixServerName=""

# Matrix Uses External Auth?
#
# This is the framework.properties::property ematrix.auth.check.basic property
# value.
# This option can be edited.

-W emxFP.useExternalAuth="false"

# User Input Field - port
#
# This option is used when weblogic 5.x is the selected web server.

-W asDetails.port="7001"

# Web Server Host Name
#
# Host Name or IP address.
# This option is only used when setup type is App Server only.

-W wsDetails12.ip=""

# Web Server port number
#
# Web Server port number (examples are 8080 (default) on Tomcat, 7001 on Weblogic)
# This option is only used when setup type is App Server only.
-W wsDetails12.rawPort=""

# Selected Web Server
#
# Selected Web Server choices are J2EE, Weblogic, IIS, Domino, or Other.
# This option is only used when setup type is App Server only.

-W wsDetails12.selectedWebServer=""

# Document Root Folder
#
# Root folder for documents. In case of a J2EE installation, this is the Matrix
# RMI Collaboration Server installation directory.
# This option is only used when setup type is App Server only.

-W wsDetails12.docRoot=""

# Weblogic 5.x Application Server Host Name or IP Address
#
# Weblogic 5.x Application Server Host Name or IP Address
# This option is not needed for a J2EE installation.

-W wlDetails.ip=""

# Weblogic 5.x Location of servlet classes (classpath)
#
# Weblogic 5.x Location of servlet classes (classpath)
# This option is not needed for a J2EE installation.

-W wlDetails.servletClasspath=""

# Weblogic 5.x Properties (weblogic.properties) file name
#
# Weblogic 5.x Properties (weblogic.properties) file name
# This option is not needed for a J2EE installation.

-W wlDetails.weblogicPropFileName=""
## Location of Weblogic 5.x doc root

`-W wlDetails.webserverDocRoot="$W(wsDetails1.rawDocRoot)"

# User Input Field - port

`-W wlDetails2.port="$P(asData.webServerPort)"

# This option is not needed for a J2EE installation.

# User Input Field - choice

`-W bakupProgram.choice="true"

# VueLink for Matrix (Java) Install Log

# Specify a log file
# Specify active=true to activate log; active=false to deactivate it.
# One log is produced in the temp directory anyways.
# You can ask the installation procedure to produce a copy of this log file.
# Activate this feature using isOptionalLogOutputEnabled=true.
# Specify a target file for this log copy using optionalLogOutput.
# optionalLogOutput is relative to directory of installation executable file
# Specify events to log using eventsLogged.
# List of event categories: err;wrn;msg1;msg2;dbg
# you can also specify isLogAllEvents=true instead of asking for all event
# categories.
# Recommended settings are:
#-W LogFile.optionalLogOutput= <<-- set in mandatory options!

`-W LogFile.active=true
- W LogFile.isOptionalLogOutputEnabled=true
- W LogFile.eventsLogged="err;wrn"

---

Cimmetry Systems Corp.
-W LogFile.isLogAllEvents=false

################################################################
# AEF RELATED OPTIONS
################################################################
# User Input Field - csiConfigAEFOriginatorAttribute

-W mxDB_1.csiConfigAEFOriginatorAttribute="attribute_Originator"

################################################################
# User Input Field - csiConfigAEFTitleAttribute

-W mxDB_1.csiConfigAEFTitleAttribute="attribute_Title"

################################################################
# User Input Field - csiConfigAEFActiveVersionRelationship

-W mxDB_1.csiConfigAEFActiveVersionRelationship="relationship_ActiveVersion"

################################################################
# User Input Field - csiConfigAEFMoveFileToVersionAttribute

-W mxDB_1.csiConfigAEFMoveFileToVersionAttribute="attribute_MoveFileToVersion"

################################################################
# User Input Field - csiConfigAEFIsVersionObjectAttribute

-W mxDB_1.csiConfigAEFIsVersionObjectAttribute="attribute_IsVersionObject"

################################################################
# User Input Field - csiConfigAEFMxPRO_GlobalConfigType

-W mxDB_1.csiConfigAEFMxPRO_GlobalConfigType="type_MxPRO-GlobalConfig"

################################################################
# User Input Field - csiConfigAEFCADInteg_RelMappingAttribute

-W mxDB_1.csiConfigAEFCADInteg_RelMappingAttribute="attribute_MCADInteg-RelMapping"

################################################################
# User Input Field - csiConfigAEFMarkupToolAttribute

-W mxDB_1.csiConfigAEFMarkupToolAttribute="attribute_MarkupTool"

-------------------------------------------------------------------

Cimmetry Systems Corp.
-W mxDB_1.csiConfigAEFMarkupBaseFormatAttribute="attribute_MarkupBaseFormat"

# User Input Field - csiConfigAEFBaseFilenameAttribute

-W mxDB_1.csiConfigAEFBaseFilenameAttribute="attribute_MarkupBaseFilename"

# User Input Field - csiConfigAEFMarkupAuthorAttribute

-W mxDB_1.csiConfigAEFMarkupAuthorAttribute="attribute_MarkupAuthor"

# User Input Field - csiConfigAEFMarkupPolicy

-W mxDB_1.csiConfigAEFMarkupPolicy="policy_Markup"

# User Input Field - csiConfigAEFMarkupType

-W mxDB_1.csiConfigAEFMarkupType="type_Markup"

# User Input Field - csiConfigAEFMarkupFormat

-W mxDB_1.csiConfigAEFMarkupFormat="format_Markup"

# User Input Field - csiConfigAEFMarkupRelationship

-W mxDB_1.csiConfigAEFMarkupRelationship="relationship_Markup"

# User Input Field - csiConfigAEFViewableBaseFilenameAttribute

-W mxDB_2.csiConfigAEFViewableBaseFilenameAttribute="attribute_ViewableBaseFilename"

# User Input Field - csiConfigAEFViewableBaseFormatAttribute

-W mxDB_2.csiConfigAEFViewableBaseFormatAttribute="attribute_ViewableBaseFormat"

# User Input Field - csiConfigAEFViewingToolAttribute
-W mxDB_2.csiConfigAEFViewingToolAttribute="attribute_ViewingTool"

# User Input Field - csiConfigAEFViewablePolicy

-W mxDB_2.csiConfigAEFViewablePolicy="policy_ViewablePolicy"

# User Input Field - csiConfigAEFViewableStateAttribute

-W mxDB_2.csiConfigAEFViewableStateAttribute="attribute_ViewableState"

# User Input Field - csiConfigAEFCADSubComponentRelationship

-W mxDB_2.csiConfigAEFCADSubComponentRelationship="relationship_CADSubComponent"

# User Input Field - csiConfigAEFViewableRelationship

-W mxDB_2.csiConfigAEFViewableRelationship="relationship_Viewable"

# User Input Field - csiConfigAEFViewableSubComponentRelationship

-W mxDB_2.csiConfigAEFViewableSubComponentRelationship="relationship_ViewableSubComponent"

# User Input Field - csiConfigAEFViewableType

-W mxDB_2.csiConfigAEFViewableType="type_Viewable"

# User Input Field - csiConfigAEF2dViewableType

-W mxDB_2.csiConfigAEF2dViewableType="type_2DViewable"

# User Input Field - csiConfigAEF3dViewableType

-W mxDB_2.csiConfigAEF3dViewableType="type_3DViewable"

# User Input Field - csiConfigAEFCADModelType
-W mxDB_2.csiConfigAEFCADModelType="type_CADModel"

# User Input Field - csiConfigAEFDrawingPrintType

- W mxDB_2.csiConfigAEFDrawingPrintType="type_DrawingPrint"

# User Input Field - csiConfigAEFViewableType

- W mxDB_2.csiConfigAEFViewableType="type_Viewable"

# User Input Field - csiConfigAEFSynchedState

- W mxDB_2.csiConfigAEFSynchedState="Synchronized"

# User Input Field - csiConfigAEFNotSynchedState

- W mxDB_2.csiConfigAEFNotSynchedState="Unsynchronized"

# Name for Cimmetry Global Configuration Business Object

-W csiConfigBOName.csiConfigObjName="csiCimmetryConfigObject"

# User Input Field - csiConfigAEFAssignedMeetingsRelationship

- W rtSchema_1.csiConfigAEFAssignedMeetingsRelationship="relationship_AssignedMeetings"

# User Input Field - csiConfigAEFMeetingContextRelationship

-W rtSchema_1.csiConfigAEFMeetingContextRelationship="relationship_MeetingContext"

# User Input Field - csiConfigAEFProjectMembersRelationship
-W rtSchema_1.csiConfigAEFProjectMembersRelationship="relationship_Project Members"
################################################################
# User Input Field - csiConfigAEFProjectMembershipRelationship

-W rtSchema_1.csiConfigAEFProjectMembersRelationship="relationship_ProjectMembership"
################################################################
# User Input Field - csiConfigAEFVaultedObjectsRelationship

-W rtSchema_1.csiConfigAEFVaultedObjectsRelationship="relationship_Vaulted Documents"
################################################################
# User Input Field - csiConfigAEFWorkspaceVaultsRelationship

-W rtSchema_1.csiConfigAEFWorkspaceVaultsRelationship="relationship_ProjectVaults"
################################################################
# User Input Field - csiConfigAEFVaultAccessAttribute

-W rtSchema_2.csiConfigAEFVaultAccessAttribute="attribute_VaultAccess"
################################################################
# User Input Field - csiConfigAEFMeetingOwnerAttribute

-W rtSchema_2.csiConfigAEFMeetingOwnerAttribute="attribute_MeetingOwner"
################################################################
# User Input Field - csiConfigAEFMeetingStartDateTimeAttribute

-W rtSchema_2.csiConfigAEFMeetingStartDateTimeAttribute="attribute_MeetingStartDateTime"
################################################################
# User Input Field - csiConfigAEFMeetingSiteNameAttribute

-W rtSchema_2.csiConfigAEFMeetingSiteNameAttribute="attribute_MeetingSiteName"
################################################################
# User Input Field - csiConfigAEFMeetingKeyAttribute

-W rtSchema_2.csiConfigAEFMeetingKeyAttribute="attribute_MeetingKey"
# User Input Field - csiConfigAEFMeetingIDAttribute
-W rtSchema_2.csiConfigAEFMeetingIDAttribute="attribute_MeetingID"

# User Input Field - csiConfigAEFMeetingDurationAttribute
-W rtSchema_2.csiConfigAEFMeetingDurationAttribute="attribute_Meeting Duration"

# User Input Field - csiConfigAEFTitleAttribute
-W rtSchema_2.csiConfigAEFTitleAttribute="attribute_Title"

# User Input Field - csiConfigAEFFirstNameAttribute
-W rtSchema_2.csiConfigAEFFirstNameAttribute="attribute_FirstName"

# User Input Field - csiConfigAEFLastNameAttribute
-W rtSchema_2.csiConfigAEFLastNameAttribute="attribute_LastName"

# User Input Field - csiConfigAEFMeetingUsernameAttribute
-W rtSchema_2.csiConfigAEFMeetingUsernameAttribute="attribute_MeetingUsername"

# User Input Field - csiConfigAEFMeetingPasswordAttribute
-W rtSchema_2.csiConfigAEFMeetingPasswordAttribute="attribute_MeetingPassword"

# User Input Field - csiConfigAEFMeetingSiteIDAttribute
-W rtSchema_2.csiConfigAEFMeetingSiteIDAttribute="attribute_MeetingSiteID"

# User Input Field - csiConfigAEFMeetingPolicy
-W rtSchema_3.csiConfigAEFMeetingPolicy="policy_Meeting"
# User Input Field - csiConfigAEFCreateState
-W rtSchema_3.csiConfigAEFCreateState="Create"

# User Input Field - csiConfigAEFScheduledState
-W rtSchema_3.csiConfigAEFScheduledState="Scheduled"

# User Input Field - csiConfigAEFInProgressState
-W rtSchema_3.csiConfigAEFInProgressState="In Progress"

# User Input Field - csiConfigAEFCompleteState
-W rtSchema_3.csiConfigAEFCompleteState="Complete"

# User Input Field - csiConfigAEFMeetingType
-W rtSchema_4.csiConfigAEFMeetingType="type_Meeting"

# User Input Field - csiConfigAEFPersonType
-W rtSchema_4.csiConfigAEFPersonType="type_Person"

# User Input Field - csiConfigAEFCompanyType
-W rtSchema_4.csiConfigAEFCompanyType="type_Company"

# User Input Field - csiConfigAEFWorkspaceType
-W rtSchema_4.csiConfigAEFWorkspaceType="type_Project"

# User Input Field - csiConfigAEFWorkspaceVaultType
-W rtSchema_4.csiConfigAEFWorkspaceVaultType="type_ProjectVault"
AutoVue Administration Pages

Once Designer Central and VueLink for Matrix is installed, you will be able to access AutoVue administration pages. Through the administration pages, you can modify viewer registration, change the Global Configuration Object and install AutoVue server on the target machine.

Installing AutoVue Server

1. Logon to Matrix.
2. Select **Tools > AutoVue Administration > AutoVue Installer...**
   The installer for AutoVue is launched.
3. Follow on-screen instructions to complete the installation.

Modifying Viewer Registration

1. Logon to Matrix.
2. Select **Tools > AutoVue Administration > AutoVue Viewer Registration.**
3. Select the formats for which you want to associate AutoVue as the viewer.
4. Click **Done** to complete registration.

Modifying the Global Configuration Object

1. Logon on to Matrix.
2. Select **Tools > AutoVue Administration > Edit GCO Mappings.**
3. If you wish to change the AutoVue Server host name, specify the new host name here.
4. Click **Done** to complete the changes.
Configuration

The configuration listed here is mandatory if you are performing a manual installation of the VueLink. If you are performing an automatic installation, refer to these chapters only if you have to modify any settings.

Note Modification of properties and html files will require you to re-create the war file and re-deploy it with your application server.

In this section we describe the following configuration topics for the VueLink:

- Setting VueLink parameters inside csiLaunch.properties
- Setting VueLink parameters inside csiMatrix.html or csiApplet.html
- Configuring for a Multi-server cluster environment
- Setting parameters inside vuelink.properties
- Configuring for Matrix eFCS
- Customization of Cimmetry Global Configuration Object for Matrix with AEF
- Setting permissions for Markups
- Setting signature metadata in footers, headers or watermarks
- Configuring for RMI In Process [RIP] mode
- Enabling HTTPS/SSL
- Configuring multiple AutoVue applet windows

Setting VueLink Parameters inside csiLaunch.properties

Note Complete the steps described in this section only if you have Matrix AEF installed. Do not edit the parameter DMS. This has a default value of '__SERVLET_HOST__'. This is updated by the VueLink at runtime.

MxAutoVueServlet is responsible for launching the AutoVue applet. You can pass parameters to MxAutoVueServlet by making one of the following file provisions for it:

- a template page called csiApplet.html
- an internal applet page called csiLaunch.properties

By default, both of these files will be located in the application server’s \servlet folder where vuelink.jar and other jar files are also located.
**csiApplet.html Template Page**

When you pass parameters through the HTML template page, the `csiApplet` variable in `csiLaunch.properties` must be updated with the full path to the HTML template page.

1. In a text editor such as Notepad, edit the file `csiLaunch.properties`.
2. Search for the following key and replace it with the values indicated in the following table:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>csiApplet</td>
<td><code>&lt;path&gt;/csiApplet.html</code> where <code>&lt;path&gt;</code> points to the folder where the <code>csiApplet.html</code> file is located. This is normally the folder where <code>vuelink.jar</code> is located.</td>
<td></td>
</tr>
</tbody>
</table>

**Note** For details on updating `csiApplet.html`, see Setting AutoVue applet parameters for `csiMatrix.html` or `csiApplet.html`.

**Internal Applet Page**

Update `csiLaunch.properties` with parameters for AutoVue applet and AutoVue server. VueLink will first try to locate the HTML template page specified in the `csiApplet` variable. If the parameters are not set in this file, VueLink will then try to read the `csiLaunch.properties` file for parameters.

1. In a text editor such as Notepad, edit the file `csiLaunch.properties`.
2. Search for the key settings listed in the table below and replace them with the indicated values:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codebase</td>
<td><code>&lt;http://&lt;WEB-SERVER&gt;/integrations/jVue&gt;</code></td>
<td>This specifies an URL to WEB-SERVER where AutoVue applet files (<code>jvue.cab</code> &amp; <code>jvue.jar</code>) are downloaded to client machine.</td>
</tr>
<tr>
<td>Verbose</td>
<td><code>True</code> &amp; <code>False</code></td>
<td>Set it to <code>true</code> only if AutoVue Client is to be run in debug mode. Otherwise, set it to <code>false</code>.</td>
</tr>
</tbody>
</table>
Here are details of additional parameters present in the file `csiLaunch.properties`:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MatrixServerName</td>
<td>:bos</td>
<td>The value must match the entry for <code>ematrix.server.name</code> in <code>framework.properties</code> file. Default is set to <code>bos</code>.</td>
</tr>
</tbody>
</table>

A semi-colon separated list of connection methods for communicating with AutoVue Server. Client will try a direct socket connection; if it fails, will try to tunnel through the Servlet installed under `http://<APPLICATION-SERVER>/ematrix/VueServlet`. **Note** For additional information, refer to the AutoVue Client-Server Edition Installation and Administration Guide.

VueServlet Setting `http://<APPLICATION-SERVER>/ematrix/VueServlet` where `<APPLICATION-SERVER>` is the application server/servlet engine running VueServlet tunneling servlet.

DMS `http://<APPLICATION-SERVER>/ematrix/com.cimmetry.vueLink.matrix.DMS` where `<APPLICATION-SERVER>` is the name of application server/servlet engine running VueLink DMS servlet.

Socket Setting `Socket://<JVUE-SERVER>:` where `<JVUE-SERVER>` is the server running JVue.

Default `<Socket Port>` is 5099.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MatrixServerHost</td>
<td>//localhost:1099</td>
<td>The value must match the entry for <code>ematrix.server.host</code> in <code>framework.properties</code> file. Default is set to <code>//localhost:1099</code> where 1099 is port number for Matrix RMI Collaboration Kernel.</td>
</tr>
<tr>
<td>UseExternalAuth</td>
<td>False</td>
<td>Default value is <code>false</code>. Set this value to <code>true</code> if Matrix Collaboration Kernel is configured to use <strong>Single Sign On (sso)</strong> with <strong>External Authentication</strong> enabled.</td>
</tr>
<tr>
<td>DebugLevel</td>
<td>0 / 1</td>
<td>Default value is <code>0</code>. To enable debugging of <strong>csiLaunch Servlet</strong>, set <strong>DebugLevel</strong> to <code>1</code>.</td>
</tr>
<tr>
<td>ValidateVueServletURL</td>
<td>True</td>
<td>Set to <code>true</code> if csiLaunch servlet should validate VueServlet URL at FCS. The default is <code>false</code>. If set to <code>true</code>, launch servlet (MxAutoVueServlet) will verify if VueServlet is running at FCS location. If AutoVue server is down or not installed at the FCS location, the launch servlet will default to VueServlet (AutoVue Server) at the MCS location.</td>
</tr>
</tbody>
</table>

**Setting AutoVue Applet Parameters for csiMatrix.html or csiApplet.html**

The parameters shown in the table below can be applied to the csiMatrix.html or csiApplet.html file. Follow step 1 for the file you choose to update before setting the parameters from the table in step 2.
Setting AutoVueApplet Parameters inside csiMatrix.html

**Note** Complete the steps described in this section only if you have Matrix Applet XML installed.

1. Locate the line `var servletHost = __SERVLET_HOST__` and replace the token `__SERVLET_HOST__` with `http://<hostname>:<port>/<app name>` where:
   - `<hostname>` is the name of the application server machine
   - `<port>` is the application server port
   - `<app name>` is 'servlet' for non J2EE deployments
   - `<app name>` is the application name (eg: ematrix) for J2EE deployments.

   **Example:** http://qaemx:7901/servlet for non J2EE and http://qaemx7901:7901/ematrix for J2EE

2. In a text editor such as Notepad, open the file `csiMatrix.html`.
   **Note** This file is normally located in the folder `/integrations/jVue` in the Web Server's HTTP root folder.

3. Modify the settings according to the following table:

Setting AutoVueApplet Parameters inside csiApplet.html

**Note** Complete the following steps only if you have Matrix AEF installed. Do not edit the parameter servletHost. This has a default value of `__SERVLET_HOST__`. This is updated by the VueLink at runtime.

1. In a text editor such as Notepad open `csiApplet.html`.
   This file is normally located in the Application Server's `\servlet` folder where `vuelink.jar` and other jar files are also located.

2. Modify the settings according to the following table:

<table>
<thead>
<tr>
<th>AutoVue Applet Parameters</th>
<th>Setting</th>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
</table>

Cimmetry Systems Corp.
Configuring for a Multi-server Cluster Environment

When Matrix is installed in a multi-server cluster environment, you will need to complete additional configuration for the VueLink.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>jVueHome</td>
<td>&quot;http://&lt;WEB-SERVER&gt;/integrations/jVue&quot; Specifies an URL to WEB-SERVER where AutoVue client files (jvue.cab &amp; jvue.jar) are downloaded to client machine http://&lt;WEB-SERVER&gt;/integrations/jVue.</td>
</tr>
<tr>
<td>jVueHost</td>
<td>&quot;socket://&lt;JVUE-SERVER&gt;:5099;http://&lt;APPLICATION-SERVER&gt;/ematrix/VueServlet&quot; Specifies a semi-colon separated list of connection methods for communicating with AutoVue Server. Above: the client will try a direct socket connection; if it fails, will try to tunnel through the Servlet installed under http://&lt;APPLICATION-SERVER&gt;/Servlet/VueServlet. <strong>Note</strong> For additional information, refer to the AutoVue Client-Server Edition – Installation and Administration Guide. <strong>Note</strong> VueServlet Setting http://&lt;APPLICATION-SERVER&gt;/ematrix/VueServlet where &lt;APPLICATION-SERVER&gt; is the Name of application server/servlet engine running VueServlet tunneling servlet. Socket Setting Socket://&lt;JVUE-SERVER&gt;:&lt;Socket Port&gt;- where &lt;JVUE-SERVER&gt; is Name of the server running AutoVue Server. Default &lt;Socket Port&gt; is 5099.</td>
</tr>
</tbody>
</table>
1. In a text editor such as Notepad, edit `csiApplet.html`.
2. Add below lines to the applet section:
   ```html
   <PARAM NAME="DMSARGS" VALUE="DMS_PRESERVE_COOKIES"/>
   <PARAM NAME="DMS_PRESERVE_COOKIES" VALUE="true"/>
   ```

### Setting Parameters inside `vuelink.properties`

1. In a text editor such as Notepad, open the file `vuelink.properties`. This file is normally located in the Application Server's `servlet` folder where `vuelink.jar` and other jar files are also located.
2. Modify the settings according to the table below.

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MatrixConnection</td>
<td>RMI</td>
<td>Type of Matrix collaboration server being used, either <strong>EJB</strong>, <strong>RMI</strong> or <strong>RIP</strong>.</td>
</tr>
<tr>
<td>MatrixRMIPort</td>
<td>1099</td>
<td>RMI port number if collaboration server being used is RMI.</td>
</tr>
<tr>
<td>CSILaunchServlet</td>
<td>http://<strong>SERVLETHOST</strong>/servlet/MxAutoVueServlet</td>
<td>URL to VueLink Launch Servlet – MxAutoVueServlet. <strong>Note</strong> This parameter is to be set only if AEF is being used.</td>
</tr>
<tr>
<td>UseMatrixAEF Schema</td>
<td>True</td>
<td>Set to <strong>true</strong> if either default or customized AEF schema is being used. Otherwise, set to <strong>false</strong>.</td>
</tr>
<tr>
<td>ShadowUserId</td>
<td>User Agent</td>
<td><strong>Note</strong> Set it to Matrix's Shadow User Id.</td>
</tr>
<tr>
<td>ShadowUser Password</td>
<td>shadowsecret</td>
<td><strong>Note</strong> Refer to Matrix documentation for details on Shadow User.</td>
</tr>
</tbody>
</table>
If you have Matrix AEF installed, you can modify the schema settings listed in Appendix C if you have a customized AEF schema. Otherwise, assign the default values to the settings.

The VueLink servlet reads these values on startup. Any modification would require a restart up of your application server. VueLink servlet reads these values only if it fails to find \texttt{csiCimmetryConfigObject} in Matrix.

### eFCS Support

VueLink supports viewing documents from the Matrix enhanced File Collaboration Server (FCS). In an environment where a user has multiple AutoVue servers installed (one per FCS location), VueLink connects the AutoVue client to the AutoVue server installed at the same location as the user's preferred FCS site. This way, if a user selects a file to view in AutoVue, the file can be replicated if it does not exist at the user's preferred FCS location. Similarly, metafiles are stored by VueLink at the user's preferred FCS location.

In an environment where a user has a single AutoVue server installed on the Matrix Collaboration Server (MCS), VueLink connects the AutoVue client to this AutoVue server. This way, if a user selects a file to view in AutoVue, the file can be replicated if it does not exist at the MCS location. If a user saves a Markup, VueLink stores it at the MCS site. Similarly, metafiles are stored by VueLink at the MCS location.

### Configuring for Matrix eFCS

1. Install AutoVue server at the FCS site (does not have to be on the same machine as the FCS application server, but it should be close by on the network).
2. You need to have the following VueLink files available:
   - \texttt{vuelink.jar}
   - \texttt{vueservlet.jar}
   - \texttt{vuelink.properties}

   \textbf{Note} These files are available with the VueLink distribution.
3 You need to modify `web.xml` for the FCS application server and add the following servlet registrations:

```xml
<servlet id="fcsdms">
  <servlet-name>com.cimmetry.vuelink.matrix.fcs.DMS</servlet-name>
  <servlet-class>com.cimmetry.vuelink.matrix.fcs.DMS</servlet-class>
  <init-param>
    <param-name>properties</param-name>
    <param-value>/WEB-INF/lib/vuelink.properties</param-value>
  </init-param>
  <init-param>
    <param-name>Verbose</param-name>
    <param-value>0</param-value>
  </init-param>
</servlet>
<servlet id="csi_vueservlet">
  <servlet-name>VueServlet</servlet-name>
  <servlet-class>com.cimmetry.servlet.VueServlet</servlet-class>
  <init-param>
    <param-name>JVueServer</param-name>
    <param-value>enter_FCS_jVue_server_machinename_here:5099</param-value>
  </init-param>
</servlet>
<servlet-mapping id="csi_fcsdms">
  <servlet-name>com.cimmetry.vuelink.matrix.fcs.DMS</servlet-name>
  <url-pattern>/com.cimmetry.vuelink.matrix.fcs.DMS</url-pattern>
</servlet-mapping>
<servlet-mapping id="csi_vueservlet">
  <servlet-name>VueServlet</servlet-name>
  <url-pattern>/VueServlet</url-pattern>
</servlet-mapping>
```

**Note** Make sure to enter the name of the FCS AutoVue server in the VueServlet section above.

4 You need to modify the `web.xml` for the FCS application server and add the following servlet mappings:

```xml
<servlet-mapping id="csi_fcsdms">
  <servlet-name>com.cimmetry.vuelink.matrix.fcs.DMS</servlet-name>
  <url-pattern>/com.cimmetry.vuelink.matrix.fcs.DMS</url-pattern>
</servlet-mapping>
<servlet-mapping id="csi_vueservlet">
  <servlet-name>VueServlet</servlet-name>
  <url-pattern>/VueServlet</url-pattern>
</servlet-mapping>
```

5 Copy the following `vuelink` files to the FCS application server’s `WEB-INF/lib` directory.
- vuelink.jar
- vueservlet.jar
- vuelink.properties

6 Make sure that the `vuelink.properties` file on both the MCS and FCS server has the following setting:

   **EnableEFCS=true** (this is the default setting and should not need to be modified)

   **Note** There are some additional steps if you are using a proxy server on the FCS to serve up Matrix static content. If this is the case, log a customerlink incident to obtain help configuring the integration.

**Defining the XRefs Schema in the XML Format**

With VueLink for Matrix, users have the flexibility to define custom XRefs schema within an XML file in a predetermined format. The VueLink tries to extract XRefs based on entries within the XML file, see Appendix F for the syntax of the XML file.

This schema is shipped along with the VueLink in a file called `xrefschema.xml`. This file's location is specified to the VueLink by an entry in `vuelink.properties` called `XrefFileName`. Users can modify this file to meet their needs.

   **Note** When the schema file is modified, the servlet engine has to be restarted.

Previously, if a user tried to view a file of a format, say "generic", VueLink would use this format name to retrieve XRef files. In other words, it would pick up the first file checked into the format "generic" for every XRef business object it found. The limitation of this logic is that it would not take into account files that were checked into a different format or multiple XRef files that were checked into the same format or different formats. With this release, VueLink scans every XRef business object to see what files are currently checked in and then returns a list of all the files found.

   **Note** This new feature only applies to schema definitions that have been defined within the XML file.

**Customizing the Cimmetry Global Configuration Object for Matrix with AEF**

The Cimmetry Global Configuration Object is designed to allow you to customize the schema/data model used by VueLink for Matrix. There are two
ways to create the Cimmetry Global Configuration Object. You can run the InstallShield Setup Program and select Schema Component. Alternatively, you can manually install AutoVue schema into Matrix by running the script in the file schemaCreate.txt.

VueLink first searches for the Cimmetry Global Configuration Object inside Matrix. If it does not find it, VueLink then loads the configuration values from the file vuelink.properties. The default name for the Cimmetry Global Configuration Object is CimmetryConfigType which is referenced by the CsiConfigObject property in the file vuelink.properties. For more information about the Cimmetry Global Configuration Object, see Appendix A.

If you have installed and customized Matrix AEF, you may modify the settings listed in Appendix A. Otherwise, set the default values. The VueLink servlet reads these values on startup.

If you modify any settings, restart your Application Server.

**Setting Permissions for Markups**

By default, Markups are linked to "Viewable object" if Viewable Schema is enabled. To enable Markups to be visible to all users, in policy "Viewable Policy" make sure proper permissions are set for all users.

To change default behaviour and enable Markups to be connected to the base object, set LinkMarkupToViewable to False in vuelink.properties.

**Setting Signature Metadata in Footers, Headers or Watermarks**

With AutoVue, you can print Signature metadata from a business object's history log in the header, footer or watermark of your document. The table below lists some print codes you can place in your document.

<table>
<thead>
<tr>
<th>Print Codes</th>
<th>Description of items retrieved containing signature information</th>
</tr>
</thead>
<tbody>
<tr>
<td>%X&lt;history.signature&gt;</td>
<td>All history items.</td>
</tr>
<tr>
<td>%X&lt;history.signature[0]&gt;</td>
<td>First history item.</td>
</tr>
</tbody>
</table>

Cimmetry Systems Corp.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>history.signature[-1]</td>
<td>Last history item.</td>
</tr>
<tr>
<td>history.signature[-1].user</td>
<td>User name of last history item.</td>
</tr>
<tr>
<td>history.signature[-1].time</td>
<td>Time stamp of last history item.</td>
</tr>
<tr>
<td>history.signature[-1].state</td>
<td>State of last history item.</td>
</tr>
<tr>
<td>history.signature[-1].signature</td>
<td>Signature of last history item.</td>
</tr>
<tr>
<td>history.signature[-1].comment</td>
<td>Comment of last history item.</td>
</tr>
<tr>
<td>history.approve</td>
<td>All approved history items.</td>
</tr>
<tr>
<td>history.approve[0]</td>
<td>First approved history item.</td>
</tr>
<tr>
<td>history.approve[-1]</td>
<td>Last approved history item.</td>
</tr>
<tr>
<td>history.approve[-1].user</td>
<td>User name of last approved history item.</td>
</tr>
<tr>
<td>history.approve[-1].time</td>
<td>Time name of last approved history item.</td>
</tr>
<tr>
<td>history.approve[-1].state</td>
<td>State name of last approved history item.</td>
</tr>
<tr>
<td>history.approve[-1].signature</td>
<td>Signature name of last approved history item.</td>
</tr>
<tr>
<td>history.approve[-1].comment</td>
<td>Comment name of last approved history item.</td>
</tr>
<tr>
<td>history.reject</td>
<td>All rejected history items.</td>
</tr>
<tr>
<td>history.reject[0]</td>
<td>First rejected history item.</td>
</tr>
<tr>
<td>history.reject[-1]</td>
<td>Last rejected history item.</td>
</tr>
<tr>
<td>history.reject[-1].user</td>
<td>User name of last rejected history item.</td>
</tr>
<tr>
<td>history.reject[-1].time</td>
<td>Time name of last rejected history item.</td>
</tr>
<tr>
<td>history.reject[-1].state</td>
<td>State name of last rejected history item.</td>
</tr>
<tr>
<td>history.reject[-1].signature</td>
<td>Signature name of last rejected history item.</td>
</tr>
<tr>
<td>history.reject[-1].comment</td>
<td>Comment name of last rejected history item.</td>
</tr>
<tr>
<td>history.ignore</td>
<td>All ignored history items.</td>
</tr>
</tbody>
</table>
### Configuring for RMI In Process [RIP] Mode

VueLink supports RMI setup in RIP mode. The administrator should modify the "MatrixServerHost" setting in the file `csiLaunch.properties` and set it to a blank value:

```
# eMatrix Settings
MatrixServerHost=
```

### Enabling HTTPS/SSL

The 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` found in the directory `<jre home>\jre\lib\security` where `<jre home>` is the root folder where Sun's Java Runtime Environment (JRE) is installed.

---

**Note**

- You may use a valid index in any of the above print codes. For example, to retrieve the **Signature** name of the second approved history item containing signature information, select: `%X<history.approve[1].signature>`.
- An index is zero based. The first item is referenced by the index `[0]`, the second by `[1]`, the third by `[2]`, etc.
- In AutoVue Client-Server Edition v16.0 or lower, printing signature metadata in footers, headers or watermarks is limited to one line. Support for multiple lines is available in AutoVue Client-Server Edition v16.1 or higher.
2 Locate the line **security.provider.2** under the "# List of Providers" section.
3 Below this line add the following lines that appear in **bold**:  
   
   **Note** If you already have an entry with **security.provider.3**, replace the 3 with the next available number.

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

---

**Enabling HTTPS/SSL Support with Application Server/Servlet Engine**

If you obtained a Trial SSL id from VeriSign (CA), then 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 id's. 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 export it in Base-64 encoded format X.509.
   **Note** The SSL id should be the same id that is 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:\ssl3.cer -trustcacerts
-C -keystore C:\jdk1.3.1\jre\lib\security\cacerts
```

password: changeit
Serial number: 257bc618dbdcbf7be8c81c2f8739a8a
Valid from: Wed Apr 10 20:00:00 EDT 2002 until: Thu Apr 25 19:59:59
EDT 2002
Certificate fingerprints:
Trust this certificate? [no]: yes
Certificate was added to keystore
[Saving C:\jdk1.3.1\jre\lib\security\cacerts]

**IMPORTANT:** 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 `<Install_Dir>\jre\1.3\lib\security\cacerts` where `<Install_Dir>` is the directory where AutoVue Server is installed.

**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.

**Note** When HTTPS is enabled, make sure the file csiApplet.html is updated with the right web port for jVueHome. Open the file csiApplet.html and locate the string var jVueHome. Specify a valid port after the web server. For WebLogic, the default port number is 7002.

**Example:** var jVueHome = 'http://mx9601:7002/integrations/jVue';

**Configuring Multiple AutoVue Applet Windows**

The VueLink supports multiple AutoVue applet windows. You can launch multiple windows to view different files at the same time.

1 In a text editor such as Notepad, edit the file csiApplet.html.
2 Locate the line `appletWnd = window.open("", ",_JVUEWINDOW_",
   "resizable=1,width=700, height=600");` and change to `appletWnd = window.open("", ",
   "resizable=1,width=700, height=600");`;
Verification

Running VueLink Servlet in Debug Mode

In order to run the VueLink servlet [com.cimmetry.vuelink.matrix.DMS] in debug mode, you need to pass Verbose=1 to the Servlet Init Arguments. The VueLink servlet outputs debug messages to the event log.

Verifying that the VueLink Servlet is Running Properly

In order to verify that the VueLink servlet is running properly, launch your Web browser and enter the URL pointing to the servlet alias name. To verify the VueLink servlet, launch your web browser and type the following url:

http://<appserver>:<port>/<matrix context>/com.cimmetry.vuelink.matrix.DMS

Example:

http://qamx1061:7001/ematrix/com.cimmetry.vuelink.matrix.DMS
To verify the FCS servlet, launch your web browser and type the following url:
http://<appserver>:<port>/<matrix context>/com.cimmetry.vuelink.matrix.fcs.DMS

Example:
http://qamx1061:7001/ematrix/com.cimmetry.vuelink.matrix.fcs.DMS
To verify the VueServlet, launch your web browser and type the following url:
http://<appserver>:<port>/<matrix context>/VueServlet

**Example:**
http://qamx1061:7001/ematrix/VueServlet

---

### DMS Servlet

**Version:** '19.0.0'
**Build:** 5742
**Build Date:** 2005-09-22

**URL:** http://qamx1061.ppq2.7001/ematrix/com.cimmetry.vueLink.matrix.fix.DMS
**RemoteUser:** null
**QueryString:** null
**ServletPath:** com.cimmetry.vueLink.matrix.fix.DMS
**SessionID:** null
**AuthorizationType:** null
**RequestContentLength:** -1
**ServletEngine:** WebLogic Server 8.1 SP4 Mon Nov 29 16:21:29 PST 2004 471647

**Servlet Init Parameters:**
- **Parameter:** Verboses=1
- **Parameter:** properties=WEE-INF/classes/vueLink.properties
To verify the `csiLaunch` servlet, launch your web browser and type the following url:
http://<appserver>:<port>/<matrix context>/servlet/MxAutoVueServlet?action=debug

**Example:**
http://qamx1061:7001/ematrix/servlet/MxAutoVueServlet?action=debug
VueLink for eMatrix
csiLaunch Servlet

Servlet Init Parameters:
  Parameter: properties=/WEB-INF/classes/csiLaunch.properties

Settings from properties file
  MatrixServerHost=localhost
  MatrixServerName=boa
  UseExternalAuth=false
  csiApplet=Web/integration/Servlet/boa/CSIApplet.html
  Codebase=http://localhost:7001/emsit/integration/Servlet/boa
  JVMServer=socket://localhost:5000
  Verboser=false
  Guidel=ENTITY
  DMS_SERVLET_HOST__
  DebugLevel=0
  CDSS.Enabled=true
  CDSS.Attribute=CDSS_Art_DocTyp
Appendix A

Cimmetry Global Configuration Object

VueLink stores schema names in Matrix in a special object called the Cimmetry Global Configuration Object. This object is designed to allow customization of schema names. It is automatically created by VueLink’s Installer. VueLink reads the values stored in this configuration object upon startup. If VueLink does not find the object in Matrix, it uses the file `vuelink.properties` by default.

AutoVue Default Schema

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>csiConfigAutoVueMarkups</code></td>
<td>AutoVueMarkups</td>
<td>Markup Business Object Type for storing markup files</td>
</tr>
<tr>
<td><code>csiConfigAutoVueInt</code></td>
<td>AutoVueInt</td>
<td>Relationship from base business object to markup business object</td>
</tr>
<tr>
<td><code>csiConfigBaseAndMarkup</code></td>
<td>BaseAndMarkup</td>
<td>String Attribute representing base file name and format of the base document that markup is attached to.</td>
</tr>
<tr>
<td><code>csiConfigMarkups</code></td>
<td>Markups</td>
<td>Markup policy</td>
</tr>
<tr>
<td><code>csiConfigAutoVueMarkup</code></td>
<td>AutoVueMarkup</td>
<td>Markup format – Normal</td>
</tr>
<tr>
<td><code>csiConfigAutoVueMarkupMaster</code></td>
<td>AutoVueMarkupMaster</td>
<td>Markup format – Master</td>
</tr>
<tr>
<td><code>csiConfigAutoVueMarkupConsolidated</code></td>
<td>AutoVueMarkupConsolidated</td>
<td>Markup format – Consolidated</td>
</tr>
</tbody>
</table>
Details of AutoVue Schema

### Attribute Window

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BaseAndMarkup</td>
<td>String</td>
<td>Represents name and format of base file that markup is attached to.</td>
</tr>
</tbody>
</table>

### Format Window

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoVueMarkup</td>
<td>Markup format – Normal</td>
</tr>
<tr>
<td>AutoVueMarkupMaster</td>
<td>Markup format – Master</td>
</tr>
<tr>
<td>AutoVueMarkupConsolidated</td>
<td>Markup format – Consolidated</td>
</tr>
</tbody>
</table>

### Type Window

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Attributes Tab</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoVueMarkups</td>
<td>Markup Business Object Type for storing Markup files</td>
<td>BaseAndMarkup</td>
</tr>
</tbody>
</table>

### Relation Window

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>From Type</th>
<th>To Type</th>
<th>Cardinality (radio button)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoVueInt</td>
<td>Relates base business object to Markup business object</td>
<td>all</td>
<td>AutoVueMarkups</td>
<td>one to many</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
<td>Governed Types</td>
<td>Governed Formats</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>-------------------</td>
<td>----------------------</td>
<td>--------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Markups</td>
<td>Markup policy</td>
<td>AutoVueMarkups</td>
<td>AutoVueMarkup</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>AutoVueMarkupMaster</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>AutoVueMarkupConsolidated</td>
<td></td>
</tr>
</tbody>
</table>
### AEF Markup Schema

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Default value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>csiConfigAEFOriginator Attribute</td>
<td>attribute_Originator</td>
<td>Attribute holding the name of the user who created the Markup.</td>
</tr>
<tr>
<td>csiConfigAEFMarkup ToolAttribute</td>
<td>attribute_MarkupTool</td>
<td>Attribute holding the tool used to create the Markup – <strong>AutoVue</strong>.</td>
</tr>
<tr>
<td>csiConfigAEFMarkup BaseFormatAttribute</td>
<td>attribute_MarkupBaseFormat</td>
<td>Attribute holding the format of the base document the Markup is attached to.</td>
</tr>
<tr>
<td>csiConfigAEFMarkup BaseFilenameAttribute</td>
<td>attribute_MarkupBaseFilename</td>
<td>Attribute holding the name of the base document the Markup is attached to.</td>
</tr>
<tr>
<td>csiConfigAEFMarkup AuthorAttribute</td>
<td>attribute_MarkupAuthor</td>
<td>Attribute holding the name of the last user who modified the Markup.</td>
</tr>
<tr>
<td>csiConfigAEFMarkup Policy</td>
<td>policy_Markup</td>
<td>Markup Policy</td>
</tr>
<tr>
<td>csiConfigAEFMarkup Type</td>
<td>Type_Markup</td>
<td>Markup Type</td>
</tr>
<tr>
<td>csiConfigAEFMarkup Format</td>
<td>format_Markup</td>
<td>Markup Format</td>
</tr>
<tr>
<td>csiConfigAEFMarkup Relationship</td>
<td>relationship_Markup</td>
<td>Relationship connecting the drawing to the Markup.</td>
</tr>
<tr>
<td>csiConfigAutoVue</td>
<td>AutoVue</td>
<td>Markup Tool</td>
</tr>
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</table>
## AEF Viewable Schema

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Default value</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>csiConfigAEFViewableBaseFilename</td>
<td>attribute_ViewableBaseFilename</td>
<td>Attribute holding base filename.</td>
</tr>
<tr>
<td>BaseFilenameAttribute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFViewableBaseFormat</td>
<td>attribute_ViewableBaseFormat</td>
<td>Attribute holding base format.</td>
</tr>
<tr>
<td>BaseFormatAttribute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFViewableState</td>
<td>attribute_ViewableState</td>
<td>Attribute holding name of Viewing Tool that created the Viewable – AutoVue.</td>
</tr>
<tr>
<td>StateAttribute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFViewingTool</td>
<td>attribute_ViewingTool</td>
<td></td>
</tr>
<tr>
<td>ToolAttribute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFViewablePolicy</td>
<td>policy_ViewablePolicy</td>
<td>Policy for Viewables.</td>
</tr>
<tr>
<td>Policy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFCADSubComponent</td>
<td>relationship_CADSubComponent</td>
<td>Relationship connecting CAD Model components.</td>
</tr>
<tr>
<td>Relationship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFViewableRelationship</td>
<td>relationship_Viewable</td>
<td>Relationship connecting a CAD Model to the Viewable.</td>
</tr>
<tr>
<td>Relationship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFViewableSubComponent</td>
<td>relationship_ViewableSubComponent</td>
<td>Relationship connecting Viewable components.</td>
</tr>
<tr>
<td>SubComponentRelationship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEF2dViewableType</td>
<td>type_2dViewable</td>
<td>Type for 2D Viewables.</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEF3dViewableType</td>
<td>type_3dViewable</td>
<td>Type for 3D Viewables.</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFCADModelType</td>
<td>type_CADModel</td>
<td>Type for CAD Model.</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFDrawingPrintType</td>
<td>type_DrawingPrint</td>
<td>Type for Drawing.</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>csiConfigAEFViewableType</td>
<td>type_Viewable</td>
<td>Type for Viewables.</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cimmetry Systems Corp.
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>csiConfigAEFSynched State</td>
<td>Synched</td>
<td>State indicating Viewable is synchronized with CAD Model.</td>
</tr>
<tr>
<td>csiConfigAEFNotynched State</td>
<td>Not Synched</td>
<td>State indicating Viewable is not synchronized with CAD Model.</td>
</tr>
<tr>
<td>csiConfigAEFjVue ViewableType</td>
<td>jVueViewable</td>
<td>Type for Cimmetry Viewables for AutoVue metafiles.</td>
</tr>
<tr>
<td>csiConfigAEFMetaFile Format</td>
<td>csiMetaFile</td>
<td>Format for Cimmetry AutoVue metafiles.</td>
</tr>
<tr>
<td>csiConfigAEFMetaFile Suffix</td>
<td>.meta</td>
<td>File suffix or extension for Cimmetry Viewables for AutoVue metafiles.</td>
</tr>
<tr>
<td>csiConfigAEFViewable TypeFormat</td>
<td></td>
<td>Association of a Type with a Format. Syntax is Type1;Format1&gt;Type2;Format2</td>
</tr>
</tbody>
</table>
# Real Time Collaboration Schema

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>csiConfigAEFVault AccessAttribute</td>
<td>attribute_VaultAccess</td>
<td>ACL to a vault.</td>
</tr>
<tr>
<td>csiConfigAEFMeeting OwnerAttribute</td>
<td>attribute_MeetingOwner</td>
<td>Owner of a meeting.</td>
</tr>
<tr>
<td>csiConfigAEFMeeting StartDateTimeAttribute</td>
<td>attribute_MeetingStartDateTime</td>
<td>Meeting Start Date and Time.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingSite NameAttribute</td>
<td>attribute_MeetingSiteName</td>
<td>The name of the web site (company-based URL) where all meetings are hosted for a company.</td>
</tr>
<tr>
<td>csiConfigAEFMeeting KeyAttribute</td>
<td>attribute_MeetingKey</td>
<td>The Meeting Key.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingID Attribute</td>
<td>attribute_MeetingID</td>
<td>The Meeting ID.</td>
</tr>
<tr>
<td>csiConfigAEFMeeting DurationAttribute</td>
<td>attribute_MeetingDuration</td>
<td>The Meeting Duration.</td>
</tr>
<tr>
<td>csiConfigAEFTitle Attribute</td>
<td>attribute_Title</td>
<td>The meeting title.</td>
</tr>
<tr>
<td>csiConfigAEFFFirstName Attribute</td>
<td>attribute_FirstName</td>
<td>The First Name for a “Person”.</td>
</tr>
<tr>
<td>csiConfigAEFLastName Attribute</td>
<td>attribute_LastName</td>
<td>The Last Name for a “Person”.</td>
</tr>
<tr>
<td>csiConfigAEFMeeting UsernameAttribute</td>
<td>attribute_MeetingUsername</td>
<td>Userid for initiating meetings.</td>
</tr>
<tr>
<td>csiConfigAEFMeeting PasswordAttribute</td>
<td>attribute_MeetingPassword</td>
<td>Password to a meeting.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingSite IDAttribute</td>
<td>attribute_MeetingSiteID</td>
<td>ID associated with the Meeting Site Name - Company-based ID.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMeeting Policy</strong></td>
<td><strong>policy_Meeting</strong></td>
<td><strong>Policy that governs “Meeting” objects.</strong></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td><strong>csiConfigAEFCreateState</strong></td>
<td>Create</td>
<td><strong>State for a newly created “Meeting” Object.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFScheduled State</strong></td>
<td>Scheduled</td>
<td><strong>The state for a scheduled “Meeting” Object.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFInProgressState</strong></td>
<td>In Progress</td>
<td><strong>State for a Meeting that is in progress.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFCompleteState</strong></td>
<td>Complete</td>
<td><strong>State for a completed Meeting.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFMeetingType</strong></td>
<td>type_Meeting</td>
<td><strong>Type to Manage Meeting Objects.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFPersonType</strong></td>
<td>type_Person</td>
<td><strong>“Person” Object type.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFCompanyType</strong></td>
<td>type_Company</td>
<td><strong>Supplier Company Object Type.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFWorkspaceType</strong></td>
<td>type_Project</td>
<td><strong>Project Object Type.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFWorkspaceVaultType</strong></td>
<td>type_ProjectVault</td>
<td><strong>Project Vault Object Type.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFProjectMemberType</strong></td>
<td>type_ProjectMember</td>
<td><strong>Project Member Object Type.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFAssignedMeetingRelationship</strong></td>
<td>relationship_AssignedMeetings</td>
<td><strong>Relationship that connects “Person” to a “Meeting”</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFMeetingContextRelationship</strong></td>
<td>relationship_MeetingContext</td>
<td><strong>Relationship that stores Meeting Context Attributes.</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFProjectMembershipRelationship</strong></td>
<td>relationship_ProjectMembers</td>
<td><strong>Relationship that connects a “Project member” to a “WorkSpace”</strong></td>
</tr>
<tr>
<td><strong>csiConfigAEFVaultedObjectsRelationship</strong></td>
<td>relationship_VaultedDocuments</td>
<td><strong>Relationship that connects a “WorkSpace Vault” to a “Document”</strong></td>
</tr>
</tbody>
</table>
Note  For more details, refer to Interface specification for 2D View and Markup tools to the AEF and Matrix JSP/HTML apps.
Appendix B

Setting Parameters within schemaCreate.txt

The configuration section for `schemaCreate.txt` is found at the beginning of the file.

See the following table to set the correct values to the parameters in the file:

<table>
<thead>
<tr>
<th>Tag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>STORE</em></td>
<td>Name of the Matrix Store to be used.</td>
</tr>
<tr>
<td><em>USER</em></td>
<td>User name with administrative privileges in the store.</td>
</tr>
<tr>
<td><em>PASSWORD</em></td>
<td>Password for the user specified above. If user has no password, delete this key.</td>
</tr>
<tr>
<td><em>VAULT</em></td>
<td>Name of the Vault to contain Files, Markups etc.</td>
</tr>
<tr>
<td><em>CONFIGOBJECT</em></td>
<td>Unique Name for the global business object containing meta-data for VueLink for Matrix. Default = CimmetryConfigType</td>
</tr>
<tr>
<td><em>SELECTEDFORMATS</em></td>
<td>List of format names separated by &quot;#&quot;. These are the formats to have AutoVue associated as a viewer; eg. generic#acad#hpgl.</td>
</tr>
<tr>
<td><em>SCHEMATYPE</em></td>
<td>Represents a numeric value. Replace this with: 1 - if Default AEF schema is being used 2 - if Customized AEF schema is being used 3 - if neither is being used; i.e., NO AEF is used</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tag</th>
<th>Default Value</th>
<th>Name for…</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>&quot;attribute_Originator&quot;</td>
<td>OriginatorAttribute</td>
</tr>
<tr>
<td>2</td>
<td>&quot;attribute_MarkupTool&quot;</td>
<td>MarkupToolAttribute</td>
</tr>
<tr>
<td></td>
<td>Property Name</td>
<td>Attribute Type</td>
</tr>
<tr>
<td>---</td>
<td>----------------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>3</td>
<td>&quot;attribute_MarkupBaseFormat&quot;</td>
<td>MarkupBaseFormatAttribute</td>
</tr>
<tr>
<td>4</td>
<td>&quot;attribute_MarkupBaseFilename&quot;</td>
<td>MarkupBaseFilenameAttribute</td>
</tr>
<tr>
<td>5</td>
<td>&quot;attribute_MarkupAuthor&quot;</td>
<td>MarkupAuthorAttribute</td>
</tr>
<tr>
<td>6</td>
<td>&quot;policy_Markup&quot;</td>
<td>MarkupPolicy</td>
</tr>
<tr>
<td>7</td>
<td>&quot;type_Markup&quot;</td>
<td>MarkupType</td>
</tr>
<tr>
<td>8</td>
<td>&quot;format_Markup&quot;</td>
<td>MarkupFormat</td>
</tr>
<tr>
<td>9</td>
<td>&quot;relationship_Markup&quot;</td>
<td>MarkupRelationship</td>
</tr>
<tr>
<td>10</td>
<td>&quot;attribute_ViewableBaseFilename&quot;</td>
<td>ViewableBaseFilenameAttribute</td>
</tr>
<tr>
<td>11</td>
<td>&quot;attribute_ViewableBaseFormat&quot;</td>
<td>ViewableBaseFormatAttribute</td>
</tr>
<tr>
<td>12</td>
<td>&quot;attribute_ViewableState&quot;</td>
<td>ViewableStateAttribute</td>
</tr>
<tr>
<td>13</td>
<td>&quot;attribute_ViewingTool&quot;</td>
<td>ViewingToolAttribute</td>
</tr>
<tr>
<td>14</td>
<td>&quot;policy_ViewablePolicy&quot;</td>
<td>ViewablePolicy</td>
</tr>
<tr>
<td>15</td>
<td>&quot;relationship_CADSubComponent&quot;</td>
<td>CADSubComponentRelationship</td>
</tr>
<tr>
<td>16</td>
<td>&quot;relationship_Viewable&quot;</td>
<td>ViewableRelationship</td>
</tr>
<tr>
<td>17</td>
<td>&quot;relationship_ViewableSubComponent&quot;</td>
<td>ViewableSubComponentRelationship</td>
</tr>
<tr>
<td>18</td>
<td>&quot;type_2DViewable&quot;</td>
<td>2DViewableType</td>
</tr>
<tr>
<td>19</td>
<td>&quot;type_3DViewable&quot;</td>
<td>3DViewableType</td>
</tr>
<tr>
<td>20</td>
<td>&quot;type_CADModel&quot;</td>
<td>CADModelType</td>
</tr>
<tr>
<td>21</td>
<td>&quot;type_DrawingPrint&quot;</td>
<td>DrawingPrintType</td>
</tr>
<tr>
<td>22</td>
<td>&quot;type_Viewable&quot;</td>
<td>ViewableType</td>
</tr>
<tr>
<td>23</td>
<td>&quot;Synchronized&quot;</td>
<td>SynchronizedState</td>
</tr>
<tr>
<td>24</td>
<td>&quot;UnSynchronized&quot;</td>
<td>UnSynchronizedState</td>
</tr>
<tr>
<td>25</td>
<td>relationship_AssignedMeetings</td>
<td>AssignedMeetings</td>
</tr>
<tr>
<td>26</td>
<td>relationship_MeetingContext</td>
<td>Meeting Context</td>
</tr>
<tr>
<td>27</td>
<td>relationship_ProjectMembers</td>
<td>Project Members</td>
</tr>
<tr>
<td></td>
<td>relationship_ProjectMembership</td>
<td>Project Membership</td>
</tr>
<tr>
<td>--</td>
<td>--------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>28</td>
<td>relationship_VaultedDocuments</td>
<td>Vaulted Documents</td>
</tr>
<tr>
<td>29</td>
<td>relationship_ProjectVaults</td>
<td>Project Vaults</td>
</tr>
<tr>
<td>30</td>
<td>attribute_VaultAccess</td>
<td>Vault Access</td>
</tr>
<tr>
<td>31</td>
<td>attribute_MeetingOwner</td>
<td>Meeting Owner</td>
</tr>
<tr>
<td>32</td>
<td>attribute_MeetingStartDateTime</td>
<td>Meeting Start Date Time</td>
</tr>
<tr>
<td>33</td>
<td>attribute_MeetingSiteName</td>
<td>Meeting Site Name</td>
</tr>
<tr>
<td>34</td>
<td>attribute_MeetingKey</td>
<td>Meeting Key</td>
</tr>
<tr>
<td>35</td>
<td>attribute_MeetingID</td>
<td>Meeting ID</td>
</tr>
<tr>
<td>36</td>
<td>attribute_MeetingDuration</td>
<td>Meeting Duration</td>
</tr>
<tr>
<td>37</td>
<td>attribute_Title</td>
<td>Title</td>
</tr>
<tr>
<td>38</td>
<td>attribute_FirstName</td>
<td>First Name</td>
</tr>
<tr>
<td>39</td>
<td>attribute_LastName</td>
<td>Last Name</td>
</tr>
<tr>
<td>40</td>
<td>attribute_MeetingUsername</td>
<td>Meeting Username</td>
</tr>
<tr>
<td>41</td>
<td>attribute_MeetingPassword</td>
<td>Meeting Password</td>
</tr>
<tr>
<td>42</td>
<td>attribute_MeetingSiteID</td>
<td>Meeting Site ID</td>
</tr>
<tr>
<td>43</td>
<td>policy_Meeting</td>
<td>Meeting</td>
</tr>
<tr>
<td>44</td>
<td>Create</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Scheduled</td>
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</tr>
<tr>
<td>46</td>
<td>In Progress</td>
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</tr>
<tr>
<td>47</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>type_Meeting</td>
<td>Meeting</td>
</tr>
<tr>
<td>49</td>
<td>type_Person</td>
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<td>50</td>
<td>type_Company</td>
<td>Company</td>
</tr>
<tr>
<td>51</td>
<td>type_Project</td>
<td>Project</td>
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</tbody>
</table>

Cimmetry Systems Corp.
<table>
<thead>
<tr>
<th>ID</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
<td>type_ProjectVault</td>
<td>Project Vault</td>
</tr>
<tr>
<td>55</td>
<td>type_ProjectMember</td>
<td>Project Member</td>
</tr>
</tbody>
</table>
## Appendix C

### Setting Parameters within vuelink.properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ValidateMetafile</td>
<td>true</td>
<td>When set to <code>true</code>, VueLink checks out both the base drawing and the associated metafile. AutoVue Server validates the metafile. If metafile is invalid, AutoVue regenerates the metafile and VueLink checks in the updated metafile into the Matrix repository. When set to <code>false</code>, VueLink always checks out the metafile.</td>
</tr>
<tr>
<td>MatrixConnection</td>
<td>RMI</td>
<td>Type of Matrix collaboration server used, either EJB, RMI or RIP.</td>
</tr>
<tr>
<td>MatrixRMIPort</td>
<td>1099</td>
<td>RMI port number if collaboration server being used is RMI.</td>
</tr>
<tr>
<td>MatrixRMIHost</td>
<td>&lt;HostName&gt;</td>
<td>The Host Name entered in this field should match the Host Name in <code>framework.properties</code>.</td>
</tr>
<tr>
<td>CSILaunchServlet</td>
<td>http://<strong>SERVLETHOST</strong>/servlet/MxAutoVueServlet</td>
<td>URL to VueLink Launch Servlet – MxAutoVue Servlet. Note: To be set only if AEF is used.</td>
</tr>
<tr>
<td><strong>UseMatrixAEFSchema</strong></td>
<td><strong>true</strong></td>
<td>Set to ‘<strong>true</strong>’ if either default or customized AEF schema is used. Otherwise, set to ‘<strong>false</strong>’.</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>CsiConfigObject</strong></td>
<td><strong>csiCimmetry ConfigObject</strong></td>
<td>Name for Cimmetry Global Configuration Object containing metadata for VueLink for Matrix.</td>
</tr>
<tr>
<td><strong>csiConfigAEFOriginator Attribute</strong></td>
<td><strong>attribute_Originator</strong></td>
<td>Name for OriginatorAttribute.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupTool Attribute</strong></td>
<td><strong>attribute_MarkupTool</strong></td>
<td>Name for MarkupToolAttribute.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupBase FormatAttribute</strong></td>
<td><strong>attribute_MarkupBase Format</strong></td>
<td>Name for MarkupBaseFormat Attribute.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupBaseFilenameAttribute</strong></td>
<td><strong>attribute_MarkupBase Filename</strong></td>
<td>Name for MarkupBaseFilename Attribute.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupAuthor Attribute</strong></td>
<td><strong>attribute_Markup Author</strong></td>
<td>Name for MarkupAuthorAttribute.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupPolicy</strong></td>
<td><strong>policy_Markup</strong></td>
<td>Name for MarkupPolicy.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupType</strong></td>
<td><strong>type_Markup</strong></td>
<td>Name for MarkupType.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupFormat</strong></td>
<td><strong>format_Markup</strong></td>
<td>Name for MarkupFormat.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMarkupRelationship</strong></td>
<td><strong>relationship_Markup</strong></td>
<td>Name for MarkupRelationship.</td>
</tr>
<tr>
<td><strong>csiConfigAEFViewableBase FilenameAttribute</strong></td>
<td><strong>attribute_Viewable BaseFilename</strong></td>
<td>Name for ViewableBaseFilename Attribute.</td>
</tr>
<tr>
<td><strong>csiConfigAEFViewableBase FormatAttribute</strong></td>
<td><strong>attribute_Viewable BaseFormat</strong></td>
<td>Name for ViewableBaseFormat Attribute.</td>
</tr>
<tr>
<td>CSIConfigAEFViewableState Attribute</td>
<td>attribute_Viewable State</td>
<td>Name for ViewableStateAttribute.</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>--------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>CSIConfigAEFViewingTool Attribute</td>
<td>attribute_ViewingTool</td>
<td>Name for ViewingToolAttribute.</td>
</tr>
<tr>
<td>CSIConfigAEFViewablePolicy</td>
<td>policy_Viewable Policy</td>
<td>Name for ViewablePolicy.</td>
</tr>
<tr>
<td>CSIConfigAEFCADSub Component</td>
<td>relationship_CADSub Component</td>
<td>Name for CADSubComponent Relationship.</td>
</tr>
<tr>
<td>CSIConfigAEFViewable Relationship</td>
<td>relationship_Viewable</td>
<td>Name for ViewableRelationship.</td>
</tr>
<tr>
<td>CSIConfigAEFViewableSub Component</td>
<td>relationship_Viewable SubComponent</td>
<td>Name for ViewableSubComponent Relationship.</td>
</tr>
<tr>
<td>CSIConfigAEF2dViewableType</td>
<td>type_2DViewable</td>
<td>Name for 2DViewableType.</td>
</tr>
<tr>
<td>CSIConfigAEF3dViewableType</td>
<td>type_3DViewable</td>
<td>Name for 3DViewableType.</td>
</tr>
<tr>
<td>CSIConfigAEFCADModelType</td>
<td>type_CADModel</td>
<td>Name for CADModelType.</td>
</tr>
<tr>
<td>CSIConfigAEFDrawingPrint Type</td>
<td>type_DrawingPrint</td>
<td>Name for DrawingPrintType.</td>
</tr>
<tr>
<td>CSIConfigAEFViewableType</td>
<td>type_Viewable</td>
<td>Name for ViewableType.</td>
</tr>
<tr>
<td>CSIConfigAEFSynchedState</td>
<td>Synchronized</td>
<td>Name for SynchronizedState.</td>
</tr>
<tr>
<td>CSIConfigAEFNotSynched State</td>
<td>UnSynchronized</td>
<td>Name for UnSynchronizedState.</td>
</tr>
<tr>
<td>CSIConfigAEFVaultAccess Attribute</td>
<td>attribute_VaultAccess</td>
<td>ACL to a vault.</td>
</tr>
<tr>
<td>CSIConfigAEFMeetingOwner Attribute</td>
<td>attribute_Meeting Owner</td>
<td>Owner of a meeting.</td>
</tr>
</tbody>
</table>

Cimmetry Systems Corp.
<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>csiConfigAEFMeetingStartDateTimeAttribute</td>
<td>attribute_MeetingStartDateTime</td>
<td>Meeting Start Date and Time.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingSiteNameAttribute</td>
<td>attribute_MeetingSiteName</td>
<td>The name of the web site (company-based URL) where all meetings are hosted for a company.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingKeyAttribute</td>
<td>attribute_MeetingKey</td>
<td>The Meeting Key.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingIDAttribute</td>
<td>attribute_MeetingID</td>
<td>The Meeting ID.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingDurationAttribute</td>
<td>attribute_MeetingDuration</td>
<td>The Meeting Duration.</td>
</tr>
<tr>
<td>csiConfigAEFTitleAttribute</td>
<td>attribute_Title</td>
<td>The meeting title.</td>
</tr>
<tr>
<td>csiConfigAEFFirstNameAttribute</td>
<td>attribute_FirstName</td>
<td>The First Name for a &quot;Person&quot;.</td>
</tr>
<tr>
<td>csiConfigAEFLastNameAttribute</td>
<td>attribute_LastName</td>
<td>The Last Name for a &quot;Person&quot;.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingUserAttribute</td>
<td>attribute_MeetingUserName</td>
<td>Userid for initiating meetings.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingPasswordAttribute</td>
<td>attribute_MeetingPassword</td>
<td>Password to a meeting.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingSiteIDAttribute</td>
<td>attribute_MeetingSiteID</td>
<td>ID associated with the Meeting Site Name - Company-based ID.</td>
</tr>
<tr>
<td>csiConfigAEFMeetingPolicy</td>
<td>policy_Meeting</td>
<td>Policy that governs &quot;Meeting&quot; objects.</td>
</tr>
<tr>
<td>csiConfigAEFCreateState</td>
<td>Create</td>
<td>State for a newly created &quot;Meeting&quot; Object.</td>
</tr>
<tr>
<td>csiConfigAEFScheduledState</td>
<td>Scheduled</td>
<td>The state for a scheduled &quot;Meeting&quot; Object.</td>
</tr>
<tr>
<td>csiConfigAEFInProgressState</td>
<td>In Progress</td>
<td>State for a Meeting that is in progress.</td>
</tr>
<tr>
<td><strong>csiConfigAEFCOMPLETESTATE</strong></td>
<td>Complete</td>
<td>State for a completed Meeting.</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td><strong>csiConfigAEFMEETINGTYPE</strong></td>
<td>type_Meet</td>
<td>Type to Manage Meeting Objects.</td>
</tr>
<tr>
<td><strong>csiConfigAEFPERSONTYPE</strong></td>
<td>type_Person</td>
<td>“Person” Object type.</td>
</tr>
<tr>
<td><strong>csiConfigAEFCOMPANYTYPE</strong></td>
<td>type_Company</td>
<td>Supplier Company Object Type.</td>
</tr>
<tr>
<td><strong>csiConfigAEFWORKSPACETYPE</strong></td>
<td>type_Project</td>
<td>Project Object Type.</td>
</tr>
<tr>
<td><strong>csiConfigAEFWORKSPACEVAULTTYPE</strong></td>
<td>type_ProjectVault</td>
<td>Project Vault Object Type.</td>
</tr>
<tr>
<td><strong>csiConfigAEFPROJECTMEMBERTYPE</strong></td>
<td>type_ProjectMember</td>
<td>Project Member Object Type.</td>
</tr>
<tr>
<td><strong>csiConfigAEFASSIGNEDMEETINGRELATIONSHIP</strong></td>
<td>relationship_AssignedMeetings</td>
<td>Relationship that connects “Person” to a “Meeting”.</td>
</tr>
<tr>
<td><strong>csiConfigAEFMETEETINGCONTEXTRELATIONSHIP</strong></td>
<td>relationship_MeetingContext</td>
<td>Relationship that stores Meeting Context Attributes.</td>
</tr>
<tr>
<td><strong>csiConfigAEFPROJECTMEMBERSHIPRELATIONSHIP</strong></td>
<td>relationship_ProjectMembers</td>
<td>Relationship that connects a “Project member” to a &quot;WorkSpace&quot;.</td>
</tr>
<tr>
<td><strong>csiConfigAEFVAULTEDOBJECTSRELATIONSHIP</strong></td>
<td>relationship_VaultedDocuments</td>
<td>Relationship that connects a &quot;WorkSpace Vault&quot; to a &quot;Document&quot;.</td>
</tr>
<tr>
<td><strong>csiConfigAEFWORKSPACEVAULTSRELATIONSHIP</strong></td>
<td>relationship_Project Vaults</td>
<td></td>
</tr>
<tr>
<td><strong>LinkMarkupToViewable</strong></td>
<td>True</td>
<td>Specify if Markups should be attached to the Viewable object. Set to <strong>False</strong> to attach Markups to the base file object.</td>
</tr>
<tr>
<td>XrefFileName</td>
<td><strong>PATH</strong>/xrefschema.xml</td>
<td>Specify the path to the xref schema definition file.</td>
</tr>
</tbody>
</table>
Appendix D

Manually Registering AutoVue as the Viewer for Matrix Collaboration Server with AEF/JSP

1. Run Matrix's thick client application.
2. Log on as the Administration User, but do not enter a password.
3. From the drop-down list, select **Administration Manager**.

4. From the toolbar, click **eService Register Viewer** to start the viewer registration wizard.

5. Enter the following information:
   - **Viewer Servlet** = MxAutoVueServlet
   - **Viewer Tip** = AutoVue
6 Click **Create Viewer**.
7 From the **Formats** drop-down box, select the format you want to associate MxAutoVueServlet viewer with.
8 Click **Assign**.
9 Repeat steps 7 and 8 to select other formats.
10 Click **Finish** when you are done.
## Appendix E

**Manual Registration of AutoVue Markup Formats in Matrix without AEF**

**Details of AutoVue Schema**

### Attribute window

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BaseAndMarkup</td>
<td>String</td>
<td>Represents name and format of base file that Markup is attached to.</td>
</tr>
</tbody>
</table>

### Format window

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoVueMarkup</td>
<td>Markup format – Normal</td>
</tr>
<tr>
<td>AutoVueMarkupMaster</td>
<td>Markup format – Master</td>
</tr>
<tr>
<td>AutoVueMarkupConsolidated</td>
<td>Markup format – Consolidated</td>
</tr>
</tbody>
</table>

### Type window

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Attributes Tab</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoVueMarkups</td>
<td>Markup Business Object Type for storing markup files</td>
<td>BaseAndMarkup</td>
</tr>
</tbody>
</table>
For the States field, ask your Matrix Administrator for more information or follow these steps:

1. Click **Add**.
The **Edit State** dialog appears.
2. Double-click **Owner Access**.
3. The **Edit Access** dialog appears.
4. Select the rights to grant the owner.
5. Click **OK**.
6. Double-click **Public Access**.
7. Select the rights to grant other users.
8. Click **OK**.
9. Complete the **Store** field.

**Note** For additional information, ask your Matrix Administrator.

---

This page contains tables and text explaining the **Relation window** and **Policy window**.

### Relation window

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>From Type</th>
<th>To Type</th>
<th>Cardinality (radio button)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoVueInt</td>
<td>Relates base business object to Markup business object</td>
<td>all</td>
<td>AutoVueMarkups</td>
<td>one to many</td>
</tr>
</tbody>
</table>

### Policy window

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Governed Types</th>
<th>Governed Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Markups</td>
<td>Markup policy</td>
<td>AutoVueMarkups</td>
<td>AutoVueMarkup, AutoVueMarkupMaster, AutoVueMarkupConsolidated</td>
</tr>
</tbody>
</table>

**Note** For additional information, ask your Matrix Administrator.
Appendix F

xrefschema.xml

With the VueLink for Matrix, users shall be given the flexibility of defining custom Xref schema within an XML file in a predetermined format. The VueLink shall then try to extract Xrefs based entries within the xml file.

Note This is an enhancement, and not a replacement, to the existing Xref retrieval logic.

The entire schema definition is enclosed within: `<XRef></XRef>`

The xml file should have only one such entry.

The child tag allowed for `<Xref>` is `<Relationship>`. This tag is synonymous to the Relationship admin object within Matrix. It allows the following sub tags:

- `<Name></Name>`: This tag should contain the relationship name. e.g. `<Name>Cad SubComponent</Name>` Each `<Relationship>` tag should have exactly one such element

- `<From></From>`: This part allows for the definition of BusinessObject types that can appear in the "From" part of a Relationship. There should be exactly one such tag under the `<Relationship>` tag.

- `<To></To>`: This part allows for the definition of BusinessObject types that can appear in the "To" part of a Relationship. There should be exactly one such tag under the `<Relationship>` tag.

- `<Component></Component>` This tag appears under the `<From>` and `<To>` tags. It should appear at least once. E.g.: `<Component>CAD Drawing</Component>` `<Component>MCAD Assembly</Component>`

Here's a sample schema definition:

```xml
<XRef>
  <Relationship>
    <Name>Finalized</Name>
    <From>
      <Component>SW Versioned Assembly</Component>
  </From>
</XRef>
```
Feedback

Cimmetry Systems products are designed according to your needs. We would appreciate you feedback, comments or suggestions. Contact us by fax, e-mail or telephone. We added a feedback button to our Web page that activates an easy-to-use feedback form. Let us know what you think!

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