

Agile Engineering Data Management

AutoVue Integration Installation and Administration Guide

Release e6.2.0.0

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Agile Engineering Data Management/AutoVueIntegration Installation and Administration Guide, Release e6.2.0.0

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Preface

Agile PLM is a comprehensive enterprise PLM solution for managing your product value chain.

Audience

This document is intended for administrators and users of the Agile PLM products.

Documentation Accessibility

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Related Documents

Oracle's Agile PLM documentation set includes Adobe® Acrobat PDF files. The Oracle Technology Network (OTN) website
<http://www.oracle.com/technetwork/documentation/agile-085940.html> contains the latest versions of the Agile PLM PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Agile PLM Documentation folder available on your network from which you can access the Agile PLM documentation (PDF) files.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Introduction

This guide describes how to install the Agile e6 AutoVue Integration on a Windows operating system.

Where to Go for More Information

For further AutoVue installation instructions not covered in this guide refer to the AutoVue documentation on the Oracle Technology Network (OTN) website located at: <http://www.oracle.com/technology/documentation/autovue.html>

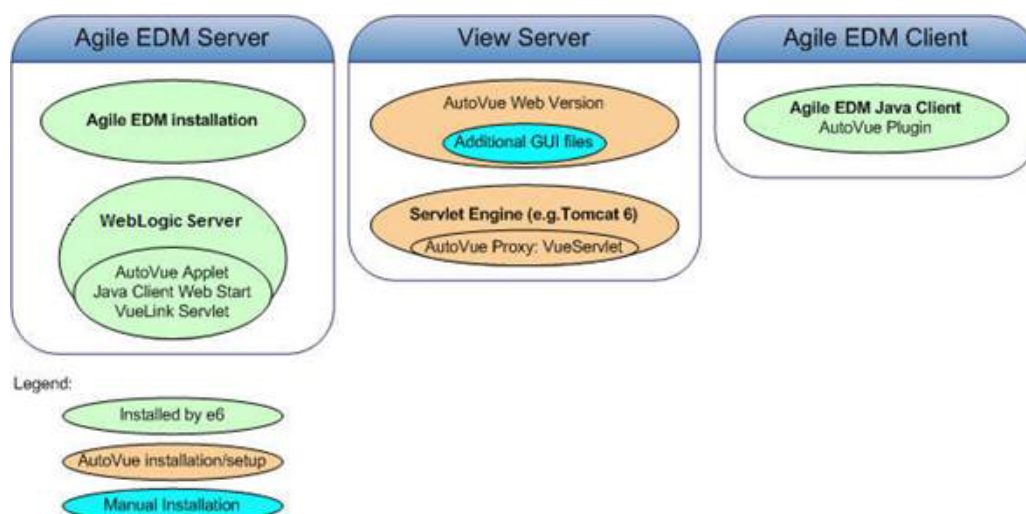
Note: For further information about the Agile e6 AutoVue Integration, please also refer to the Online Help > AutoVue Integration, Online Help > Configuration Parameters, and Online Help > Defaults documentation.

Preparing the Installation

Installation Setup Overview

The Agile e6 AutoVue Integration is part of the standard Agile e6 installation.

The following picture shows the components which must be setup.



- **Agile EDM Server:**

The Agile EDM Server with the Agile e6 AutoVue Integration component. The Java Client WebStart and VueLink Servlet are deployed in WebLogic server used for the Agile EDM installation. There are no manual steps necessary for the installation on the Agile EDM Server to use AutoVue.

- **View Server:**

The AutoVue server and AutoVue Proxy are running on the View Server.

Oracle AutoVue 20.2.3 must be set up as described in the Oracle AutoVue 20.2.3 Installation and Administration manual from the Oracle AutoVue 20.2.3 Client/Server deployment documentation. AutoVue Client components are not needed.

The AutoVue Proxy/VueServlet (see section "Product Architecture" in the Oracle AutoVue 20.2.3 Installation and Administration Manual) is running on a J2EE-enabled application Server/ServletEngines. It allows the AutoVue applet to communicate with the AutoVue server using the standard HTTP(S) protocol.

Note: The View Server needs a fast connection to the Agile EDM File Server, because the files from the vaults will be transmitted from the File Server to the ViewServer.

- Agile e6 Client:

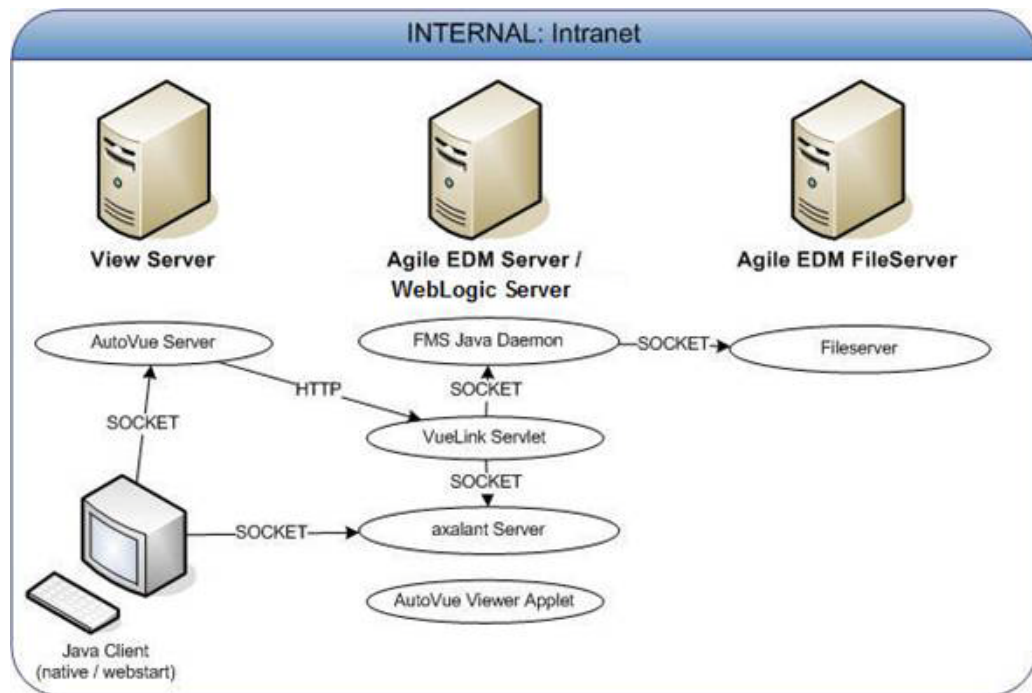
The native Agile e6 Java Client installation contains the AutoVue plugin.

Installation Architecture

For the communication between the involved components see the "View Server (AutoVue)" section in the Architecture Guide for Agile e6.2.0.0.

Overview without Firewall (standard)

Following graphic shows the simplified communication.



Note: You have to use a separate server for the View Server because the transformation of the native CAD data uses a lot of memory and CPU resources.

1. Check the prerequisites and perform the installation tasks described in the section "View Server".
2. Perform the tasks described in the section "Agile e6 application configuration" for each application.
3. Test the installation.

Prerequisites

Note: Please check the different lifetime support for AutoVue and Agile e6.2.0.0. The Agile e6 AutoVue Integration is supported according to the Agile e6.2.0.0 lifetime support while the AutoVue Viewer itself might have a different lifetime support.

Please refer to the Oracle website for more information on the Lifetime Support Policy -

<http://www.oracle.com/support/lifetime-support-policy.html>

View Server

- The Oracle AutoVue 20.2.3 Server. For installation instructions refer to the Oracle Autovue 20.2.3 Client/Server deployment documentation.

Note: Currently only Windows 2008 R2-bit is supported for Oracle AutoVue 20.2.3 for usage with the Agile e6 AutoVue integration.

The Oracle AutoVue 20.2.3 Media Pack for Microsoft Windows (32-bit) can be found on the Oracle Software Delivery Cloud website (<http://edelivery.oracle.com>).

When selecting the Oracle AutoVue 20.2.3 Media Pack for Microsoft Windows (32-bit), a list with downloadable components will be displayed. For the Agile e6 AutoVue Integration download the following components:

- Oracle AutoVue Electro-Mechanical Professional 20.2.3 for Microsoft Windows 32-bit

Note: Each of the components listed above contains a desktop deployment and a Client/Server deployment edition. You must install the desktop deployment edition to support AutoVue offline! Only the Client/Server deployment edition is supported with the Agile e6 AutoVue Integration!

- A Servlet engine for the optional AutoVue Proxy/Vueservlet. For a list of valid servlet engines refer to the Oracle Autovue 20.2.3 Client/Server deployment documentation. Optional means, this is only required if you want to use HTTP(s) connection to the AutoVue server.

Agile e6 AutoVue Integration

The Agile e6 AutoVue Integration runs as a WebStart application on Agile e6 and is started by the Java Client.

- A 64bit Java JRE is needed to run the AutoVue integration.

Note: For further information about the Agile e6 AutoVue Integration please refer to the AutoVue Integration Online Help.

View Server

It is a prerequisite that the Oracle AutoVue 20.2.3 Client/Server deployment is already installed. If you want to activate tunneling with the Agile e6 AutoVue Integration, the AutoVue Proxy/Vue servlet (as described in the Oracle AutoVue 20.2.3 Client/Server deployment documentation) must be available.

To set up AutoVue GUI files:

1. Copy/transfer the zip file "AutoVueGuiFiles.zip" with the Agile e6 AutoVue Integration GUI files from the EDM Server to the View server. The file is available on the Agile EDM Server in the folder:

```
<ep_root>/installer/tmp/AutoVueGuiFiles.zip
```

2. To activate the GUI adaptations for the Agile e6 AutoVue Integration, extract the content to a temporary directory and copy the files to the following folder on the View Server:

```
<autovue_root>/bin/profiles
```

Note: To define the GUI file user specific, use the default PVM-GUI-FIL.

The complete list of AutoVue default parameters can be found in the Online Help > Defaults.

Agile EDM Application Configuration

To use the Agile e6 AutoVue Integration, some basic setup steps need to be performed in the dump. More detailed information about the configuration of the Agile e6 AutoVue Integration can be found in the "Manager Information" section of the Online Help for the AutoVue integration module (pvm).

The following values must be changed in order to use the Agile e6 AutoVue Integration.

1. Start a Java Client with a manager user and select "System > AutoVue > Configuration".

The following parameters must be adapted:

Parameter	Value	Description
EDB-PVM-AV-PROXY	e.g.: http://<tomcat_server>:8080/VueServlet/servlet/VueServlet	The URL where you can reach the AutoVue tunneling servlet. Only necessary if EDB-PVM-AV-USE-PROXY is set to "true".
EDB-PVM-AV-USE-PROXY	e.g.: true or false	If you want to use HTTP(S) communication, set this to true.
EDB-PVM-AV-SERVER	e.g.: socket://<AutoVue_server>:5099	The socket where the AutoVue server is waiting for requests.
EDB-PVM-AV-DMS	e.g.: http://<weblogic_server>:<weblogic_port>/VueLink/Vuelink	The Oracle Agile DMS Servlet address.
EDB-PVM-AV-DFM-SITE	<siteId>	The DFM site to use for the AutoVue server.
EDB-PVM-AV-SITE-REF	<siteId>	Link to the EDB-PVM-<siteId> settings which should be used additionally to the settings defined here.

2. To test the configuration you can execute the following links in your browser:

- VueServlet (only if you have set up the AutoVue tunnelling servlet):

e.g.: http://<tomcat_server>:8080/VueServlet/servlet/VueServlet

The tunnelling response page has to be displayed.

- VueLink Servlet:

e.g.: http://<weblogic_server>:7103/VueLink/Vuelink

The Vuelink response page has to be displayed.

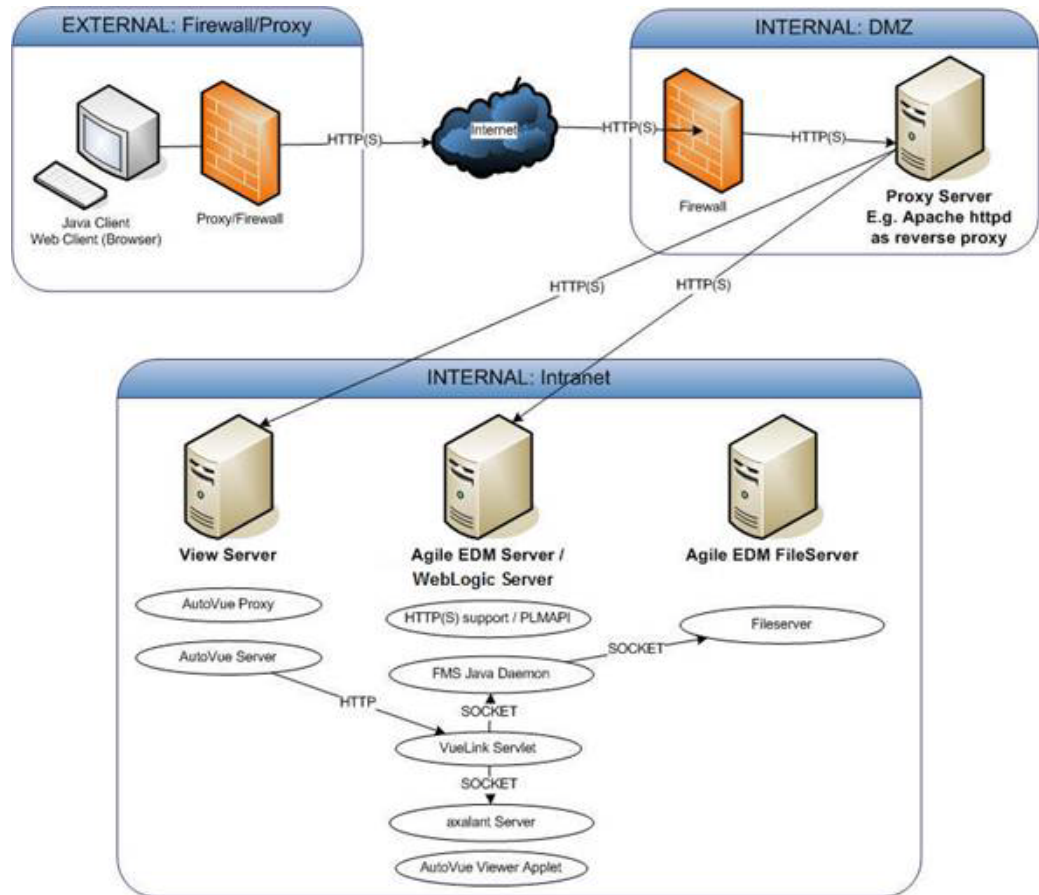
- AutoVue Applet:

e.g.: http://<AutoVue_jetty>:5098/AutoVue/jvue.jar

The download dialog for the jar file has to pop up.

Installation Architecture with Firewall support

This is an extension to the default installation without firewall described at the beginning of this document. Following picture shows the differences to the default installation with simplified communication.



Two additional components are in use. "AutoVue Proxy" and "HTTP(S) support /PLM-API".

For this, installation changes have to be performed on the Agile EDM Server and the View Server. How to setup the proxies outside the intranet is not part of this documentation.

Note: You have to use a separate server for the View Server because the transformation of the native CAD data uses a lot of memory and CPU resources.

1. Set up the installation without firewall in the intranet as described in the section "Installation architecture without firewall".
2. Install the AutoVue Proxy on the View server. The AutoVue Proxy installation is described in the Oracle AutoVue 20.2.3 documentation. Activate HTTPS for tomcat which is running the AutoVue Proxy if you want secure communication.
3. Perform the tasks described in the section "Agile EDM application configuration", for each application.
4. For this configuration set up the "EDB-PVM-AV-PROXY" and "EDB-PVM-AV-USE-PROXY" configuration parameters.
5. Activate HTTP(S) support in the Java Client. For further information on how to set up a secure environment refer to the section "Secure Environment (HTTP(s) Support)" in the Security Guide for Agile e6.

6. Test this configuration without firewall and proxy in DMZ.
7. Set up your firewall and proxy in DMZ. As you can see in the above picture, the HTTP(S) connections to the View Server and WebLogic Server must be open.
8. Test the configuration.

Configuring Multiple Location Support

The Multiple Location Support allows configuring a remote site as a DFM site, but uses a central AutoVue installation, or a local AutoVue installation to view replicated files.

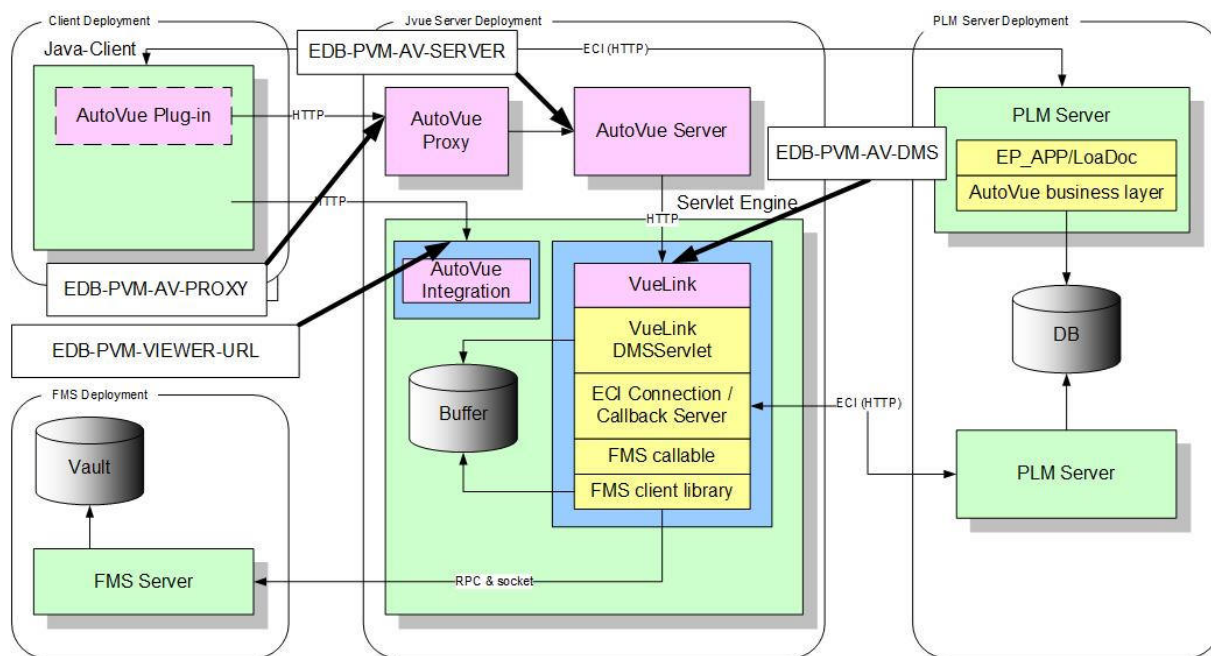
Note: For each site that uses an AutoVue server, an Offline Metafile Cache Service is required to be able to replicate files.

Define Configuration Parameter

Note: For each site, a set of EDB-PVM configuration parameters need to be defined.

The complete list of AutoVue configuration parameters can be found in the Online Help > Configuration Parameters.

The following graphic shows the usage of the AutoVue Configuration Parameter:



Central AutoVue - No DFM

The Central AutoVue integration supports a site specific configuration that uses the environment variable EP_PVM_SITE to choose the configuration of the client location. The stored procedure does not check if the files are available, because DFM is not active.

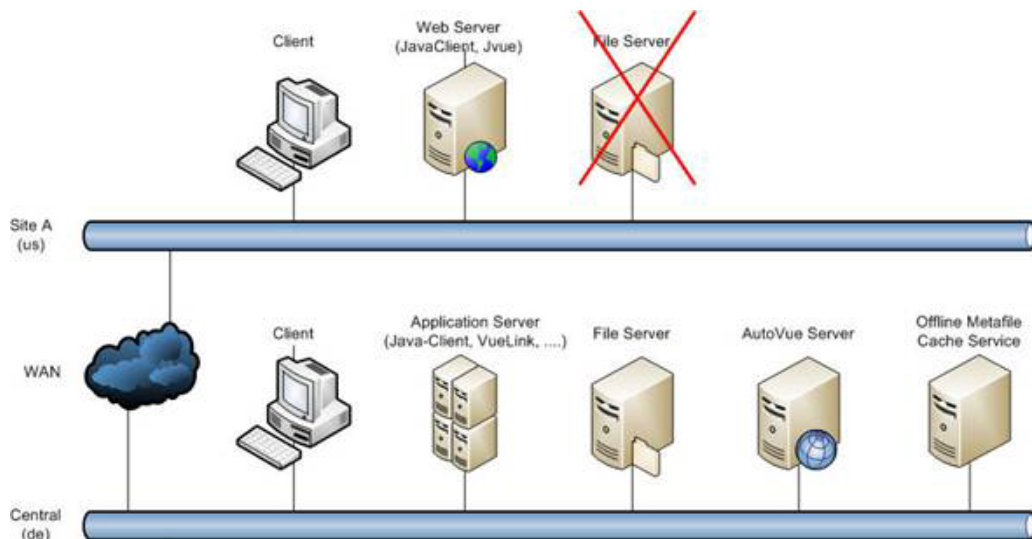
Note: For detailed information on how to configure the environment variable EP_PVM_SITE for remote sites, please refer to the Administration Manual for Agile e6.2.0.0 > Java Client Remote Site Definition.

For the Central site, all AutoVue configuration parameter have to be defined.

When no File Server is used, the configuration parameter EDB-PVM-AV-DFM-SITE has to remain empty.

For the Central site, the configuration parameter EDB-PVM-AV-SITE REF has to remain empty.

Example scenario of network topology:



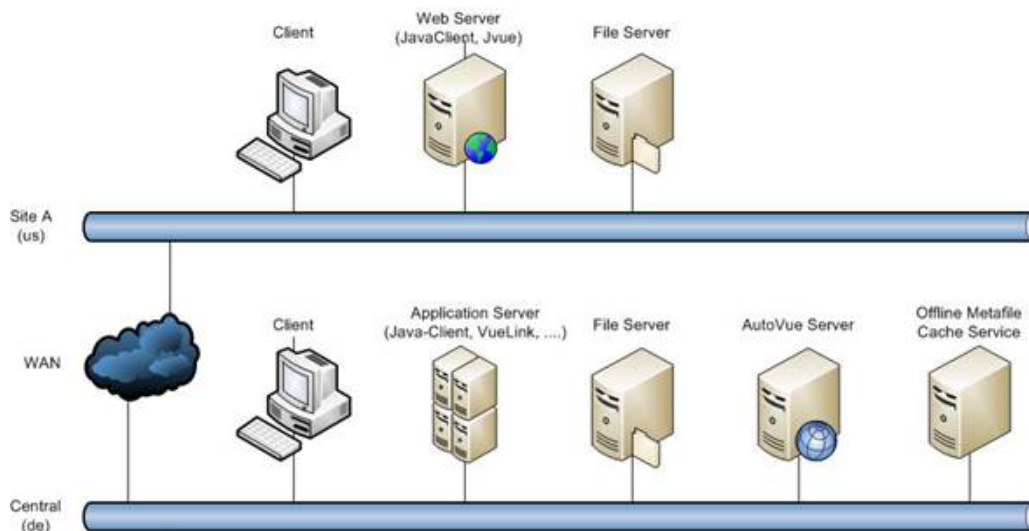
In this example, the Central site is defined as "de" in Agile e6 and no DFM site is defined.

Central AutoVue - With DFM

The central Agile e6 AutoVue Integration supports the configuration of a remote location as a DFM location to replicate e.g. CAD files and is using a central AutoVue installation (see example Site A in the graphic below) to view files/assemblies with the Agile e6 AutoVue Integration. The AutoVue server uses the central file server to view the file. If a user changes a file on the remote site, it has to be replicated to the central site to be able to view it with AutoVue. The DFM configuration of the AutoVue server is configured through the AutoVue configuration parameter EDB-PVM-AV-DFM-SITE.

Note: When a File Server is used, the configuration parameter EDB-PVM-AV-DFM-SITE has to be defined.

Example scenario of network topology:

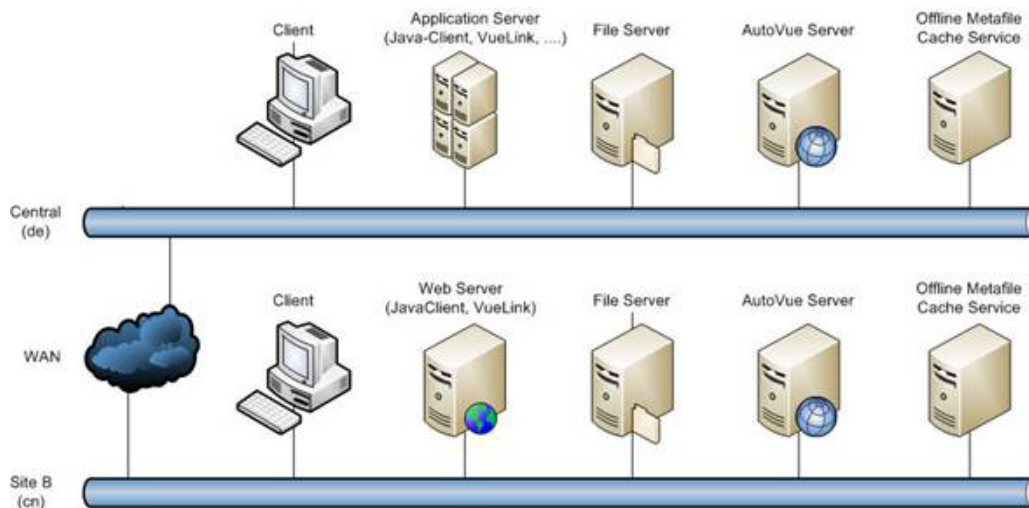


In this example, the Central site is defined as "de" in Agile e6. Although, the DFM site definition can differ from the AutoVue site.

Decentral AutoVue - With DFM

The decentral Agile e6 AutoVue Integration supports the configuration of a remote location as a DFM location to replicate e.g. CAD files and is using a local AutoVue server installation (see example Site B in the graphic below).

Example scenario of network topology:



In this example, the Decentral site is defined as "cn" in Agile e6. The site reference is defined to point to the Central site.

Note: If any configuration parameter is not defined for the Decentral site, the respective configuration parameter of the Central site will be used.

If this configuration parameter is also not defined for the Central site, an error message will be displayed.

The following table explains the components that are installed at the different sites:

Installation	Installed Components
Central	<ul style="list-style-type: none">- EDM Workstation to work with Agile EDM- Application Server with WebLogic and the database, and the EDM server- AutoVue server with the integration backbone (VueLink DMS)- File Server to store file based data, e.g. CAD files
Site A	<ul style="list-style-type: none">- EDM Workstation to work with Agile EDM- File Server to store file based data, e.g. CAD files
Site B	<ul style="list-style-type: none">- EDM Workstation to work with Agile EDM- AutoVue server with the integration backbone (VueLink DMS)- File Server to store file based data like CAD files

Installing Offline Metafile Cache Service

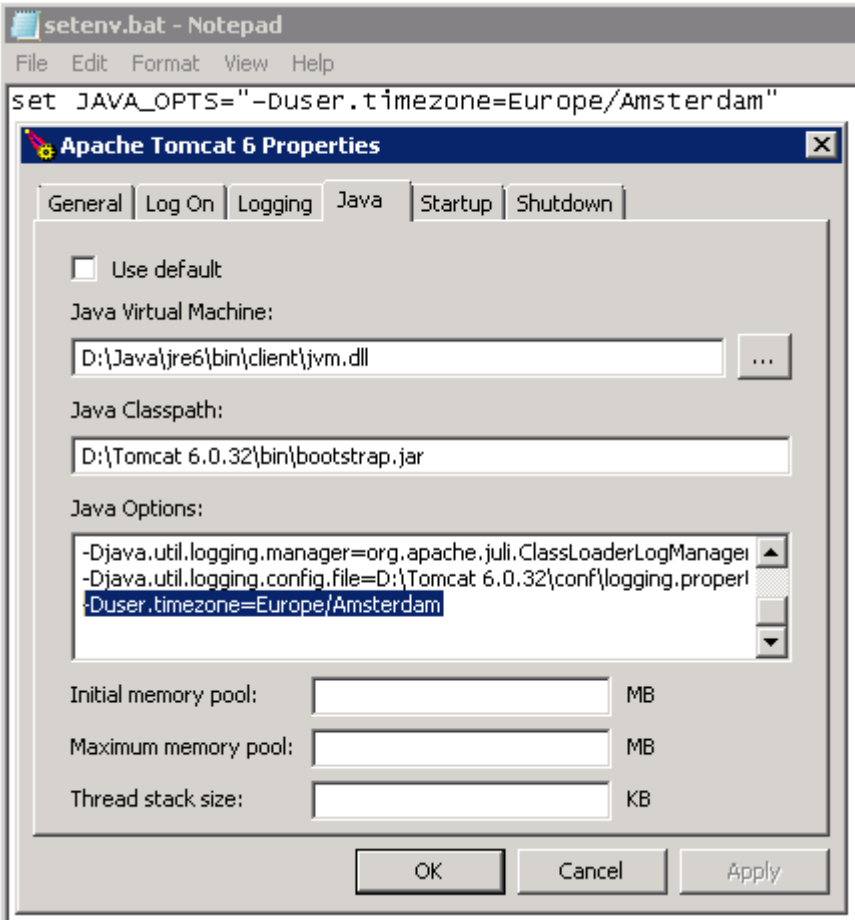
This section describes the manual installation of the Offline Metafile Cache Service.

Note: Further information about Metafile Cache Service can also be found in the latest AutoVue Client/Server Deployment Installation and Configuration Guide on OTN (<http://www.oracle.com/technetwork/documentation/autovue-091442.html>).

Requirements and Assumptions

- Batch Client has to run as service
- JVue bean as control interface of the AutoVue server
- VueLink DMS as data source and used to check-in the metafile
- AutoVue batch engine implemented in Java (JVue bean control)
- Timezone settings for remote AutoVue locations

Note: On remote locations with a different timezone than the central location, the tomcat must be configured with the timezone setting of the central location. That is necessary for AutoVue in order for the Metafile Caching to work correctly.



Note: The Offline Metafile Cache Service uses a 64 bit JVM.

Note: DFM replication is not supported; all files have to be replicated with the standard replication feature before the file can be cached on remote locations. The system checks if all files are replicated and sets an error code if not all files are available on the remote location.

Extract the Installation Package

The installation package of the Offline Metafile Cache Service is located on the package directory and named AutoVueBatch.zip.

Note: The JAR files are provided within in the ZIP package.

1. Extract the package to your installation directory.

In this installation example, the installation path is (the AutoVueBatch path is the base path in the package):

Windows	Oracle Linux
C:\Program Files\Agile_e6\AutoVueBatch	/home/plm/Agile_e6/ AutoVueBatch

2. Unzip.

Windows	Oracle Linux
..\package\AutoVueBatch.zip -d "c:\Program Files\Agile_e6"	../package/AutoVueBatch.zip -d "/home/plm /Agile_e6"

The installation package contains the following directories:

- AutoVue Service Root (C:\Program Files (x86)\Agile_e6\AutoVueBatch)
 - axalant
 - bin
 - intel-ms-nt6.1 (Windows FMS Client binaries)
 - i686-linux-ol6 (Oracle Linux FMS Client binaries)
 - java (Java archives)
 - cmd (Windows scripts)
 - ini (Configuration files)
 - batch (Batch service files)
 - scripts (Oracle Linux scripts)
 - ext
 - bin
 - intel-ms-nt6.1 (external Windows binaries)
 - i686-linux-ol6 (external Oracle Linux binaries)
 - java (external Java archives)
 - tmp (Logging directory)

Adapting the Installation

You need to adapt the start-up script to setup the 64-bit Java Runtime (JRE) and the installation path of the Offline Metafile Cache Service.

Windows	Oracle Linux
The scripts are located in the axalant/cmd sub directory of the installation.	The scripts are located in the axalant/scripts sub directory of the installation.
The vuelink_batch.bat script contains the following basic configuration settings: set JAVA_HOME=<JAVA_HOME> set ep_root=<ROOT DIRECTORY OF THE OFFLINE METAFI LE CACHE SERVICE>	The vuelink_batch script contains the following basic configuration settings: JAVA_HOME=<JAVA_HOME> export JAVA_HOME
Example: set JAVA_HOME=C:\Program Files\Java\jre7	Example: set JAVA_HOME=/usr/local/java/jre7
set ep_root=C:\Program Files\Agile_e6\AutoVueBatch	

Adapting the Service Settings

The vuelink.properties file is located at the axalant/batch sub directory of the installation.

These files set the environment variables needed by the Offline Metafile Cache Service.

Note: The Offline Metafile Cache Service needs both parameters.

- EP_DDM_SITE=<DFM SITE>

Checks in the metafile that was downloaded from the AutoVue server.

- EP_PVM_SITE=<PVM SITE>

Defines the AutoVue server.

The following properties must be adapted. The other properties should not be changed:

```
#
# ECI connection
#
host=<HOSTNAME OF THE ECI DAEMON>
port=<PORT OF THE ECI DAEMON>
env=<PLM APPLICATION ENVIRONMENT>
scope=BATCH
#
# Directories
#
varenv.ep_root=<ROOT DIRECTORY OF THE AUTOVUE SERVICE>
varenv.axalant_root=<AXALANT DIRECTORY OF THE AUTOVUE SERVICE>
varenv.$TMP=<PDF WORK DIRECTORY OF THE PDF SERVICE>
#
# Platform
#
varenv.EP_MACH=<EP_MACH>
#
# Environment
#
varenv.EP_DDM_SITE=<DFM SITE>
varenv.EP_PVM_SITE=<PVM SITE>
#
# PLM Client
#
client1=<PLM USER_with_manager_
privilege>,<encryptedPASSWORD>,com.agile.AutoVue.VueLinkBatch
```

Note: The password has to be encrypted with the batchkeytool. For further information please refer to the Security Guide for Agile e6.2.0.0.

Windows Example (Extract from vuelink.properties)	Oracle Linux Example (Extract from vuelink.properties)
<pre># # ECI connection # host=khe-plm port=20001 env=plm_ref scope=BATCH # # Directories # varenv.ep_root=C:/Program Files/Agile_ e6/AutoVueBatch varenv.axalant_root=C:/Program Files/Agile_e6/AutoVueBatch/axalant varenv.\$TMP=C:/Program Files/Agile_ e6/AutoVueBatch/tmp # # Platform # varenv.EP_MACH=intel-ms-nt6.1 # # Environment # varenv.EP_DDM_SITE=ep varenv.EP_PVM_SITE=ep # # PLM Client # client1=USER_NAME_ MGR, {AES-128}L8zdgjaiHx6RczOA+grCgVnNnpA dc=,com.agile.AutoVue.VueLinkBatch</pre>	<pre># # ECI connection # host=khe-plm port=20001 env=plm_ref scope=BATCH # # Directories # varenv.ep_root=/home/plm/Agile_ e6/AutoVueBatch varenv.axalant_root=/home/plm//Agile_ e6/AutoVueBatch/axalant varenv.\$TMP=/home/plm//Agile_ e6/AutoVueBatch/tmp # # Platform # varenv.EP_MACH=i686-linux-ol6 # # Environment # varenv.EP_DDM_SITE=ep varenv.EP_PVM_SITE=ep # # PLM Client # client1=USER_NAME_ MGR, {AES-128}L8zdgjaiHx6RczOA+grCgVnNnpA dc=,com.agile.AutoVue.VueLinkBatch</pre>

Runtime

The Offline Metafile Cache service uses the same mechanism as the Java Daemon to install, remove, start, and stop the service.

Install as Windows Service

The configuration of the Windows service registration can be found in the vuelink_wrapper.conf file which is located in the axalant/batch sub-directory of the installation.

```
*****
# Wrapper NT Service Properties
*****
# WARNING - Do not modify any of these properties when an application
# using this configuration file has been installed as a service.
# Please uninstall the service before modifying this section. The
# service can then be reinstalled.

# Name of the service
wrapper.ntservice.displayname=AgilePLM_AutoVue_Batch_Service

# Display name of the service
```

```
wrapper.ntservice.displayname=AgilePLM_AutoVue_Batch_Service

# Description of the service
wrapper.ntservice.description=Offline Metafile Cache for Agile PLM

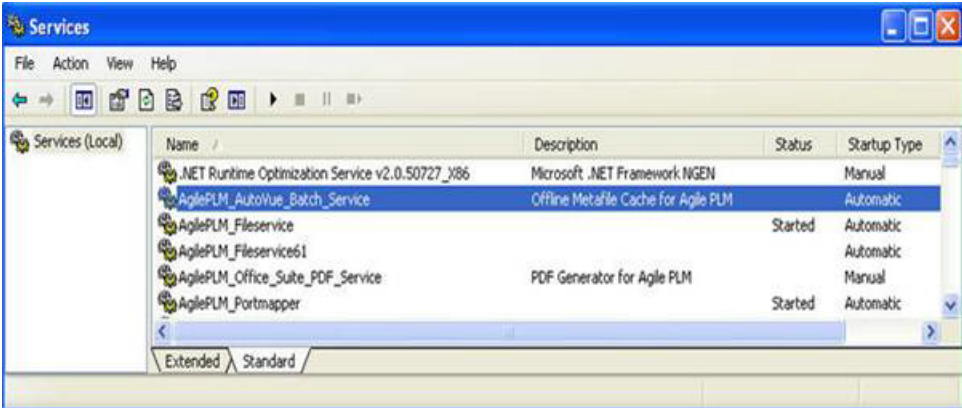
# Service dependencies. Add dependencies as needed starting from
wrapper.ntservice.dependency.1=
# Mode in which the service is installed. AUTO_START or DEMAND_START
wrapper.ntservice.starttype=AUTO_START

# Allow the service to interact with the desktop.
wrapper.ntservice.interactive=false

wrapper.ntservice.account=. \axalantrt
wrapper.ntservice.password=*****
```

To install the Offline Metafile Cache service as a Windows service use the vuelink_batch.bat command script located in the axalant\cmd sub directory of the installation.

```
vuelink_batch.bat -i
```



Remove Service

To install the Offline Metafile Cache service as Windows service use the vuelink_batch.bat command script located in the axalant\cmd sub directory of the installation.

```
vuelink_batch.bat -r
```

Run as Console Application

To run the Offline Metafile Cache service as console application use:

Windows	Oracle Linux
The vuelink_batch.bat command script located in the axalant\cmd sub directory of the installation.	The vuelink_batch.bat command script located in the axalant\cmd sub directory of the installation.
vuelink_batch.bat -c	./vuelink_batch console
Parameters list for vuelink_batch.bat:	Parameters list for vuelink_batch:
-c / -t / -p / -i / -r	console / start / stop / restart / dump
(console, start, stop, install, remove)	

Why to Check-in a Metafile into the Vault?

The local cache on the AutoVue server may be cleaned or crashed. In this case, the AutoVue server can download all native files and the metafile from the EDM system and does not need to create a new metafile.

Note: The conversion process from the native format to the AutoVue metafile format is a time consuming process.

In Which Vault will the Metafile be Checked-In?

The system uses the DFM feature to specify the target vault for metafiles.

The integration sets the following properties:

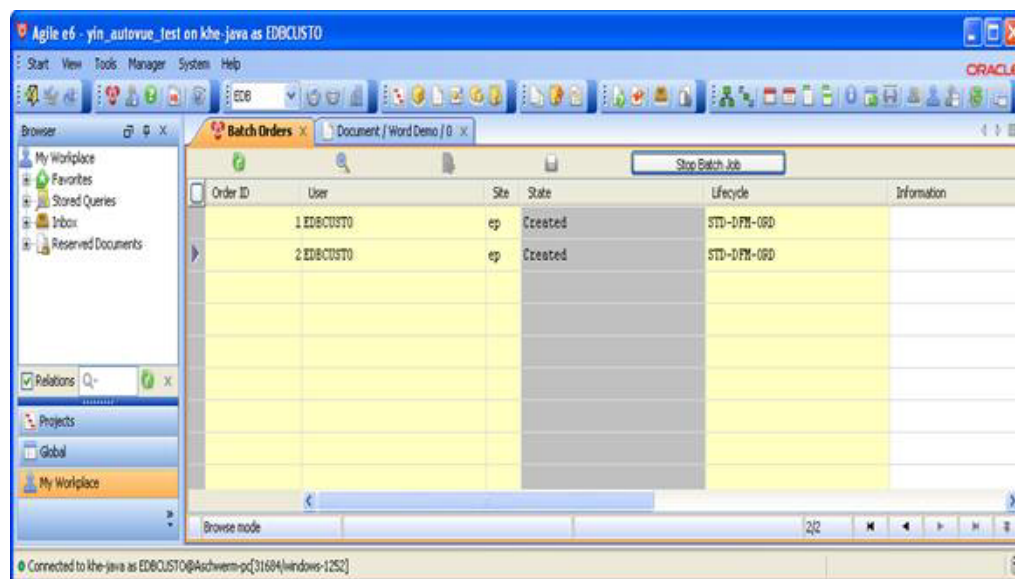
- File Type: *META*
- File Format: Same as the base file or *NAT* if not set
- Creation System: *AUTOVUE*

Order Queue

The Offline Metafile Cache feature uses an order queue to send the native files and the checked-in metafile (if available) to the AutoVue server (System->AutoVue->Batch Orders).

An order has one or more order elements, or order positions, which contain the necessary document and file data.

The state shows the current working state of the order.

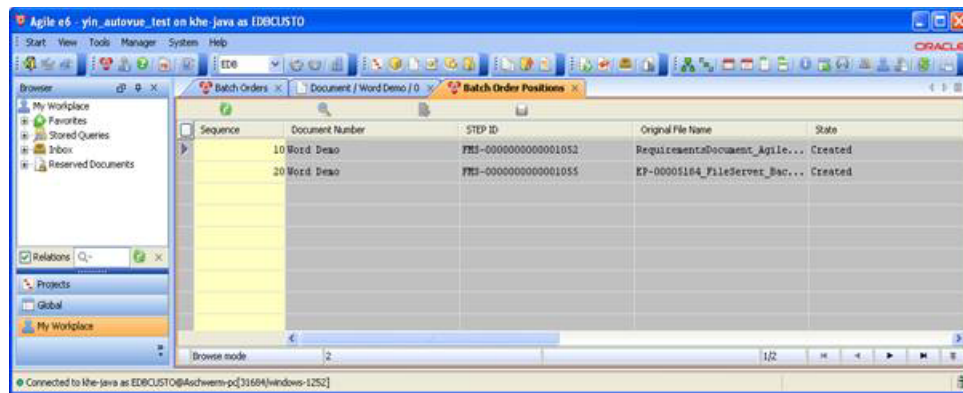


Order Positions

The order positions are assigned to the order and specify which files should be cached on the AutoVue server.

It is only necessary to add the base file of a 3D assembly. The batch job caches all related native files on the AutoVue server to pre-cache the assembly.

The state shows the current working state of the order position.



Creating an Offline Metafile Cache Order

The system provides two userexits to add documents and files to the Offline Metafile Cache:

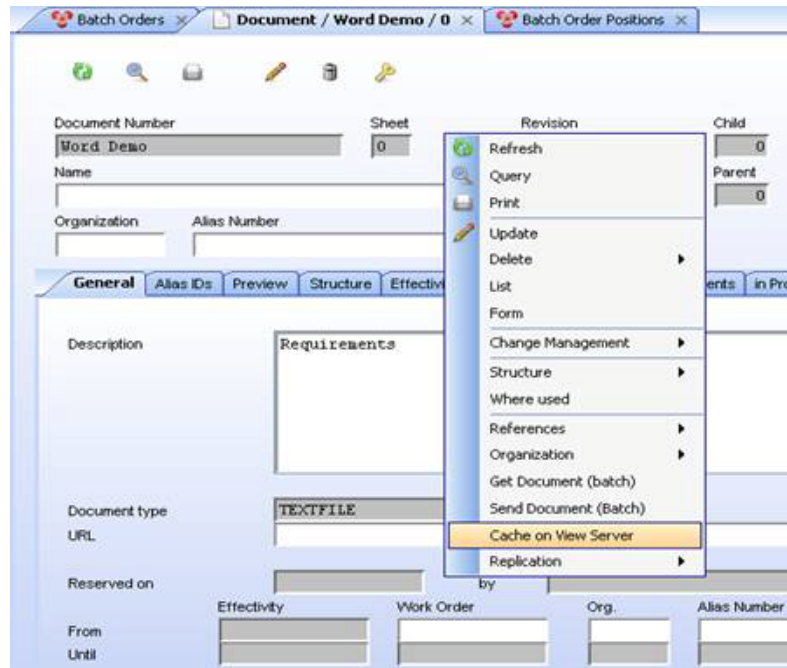
- `xpvm_bat_doc`
Creates a new order and adds all assigned files which are viewable with AutoVue to an order position.
This userexit is used for document masks.
- `xpvm_bat_fil`
Creates a new order and adds the specified file to an order position.
This userexit is used for Document - File relation masks.

Note: Both userexits are select-menu userexits.

It is also possible to create orders and elements via LogiView by creating records in the order and order position masks.

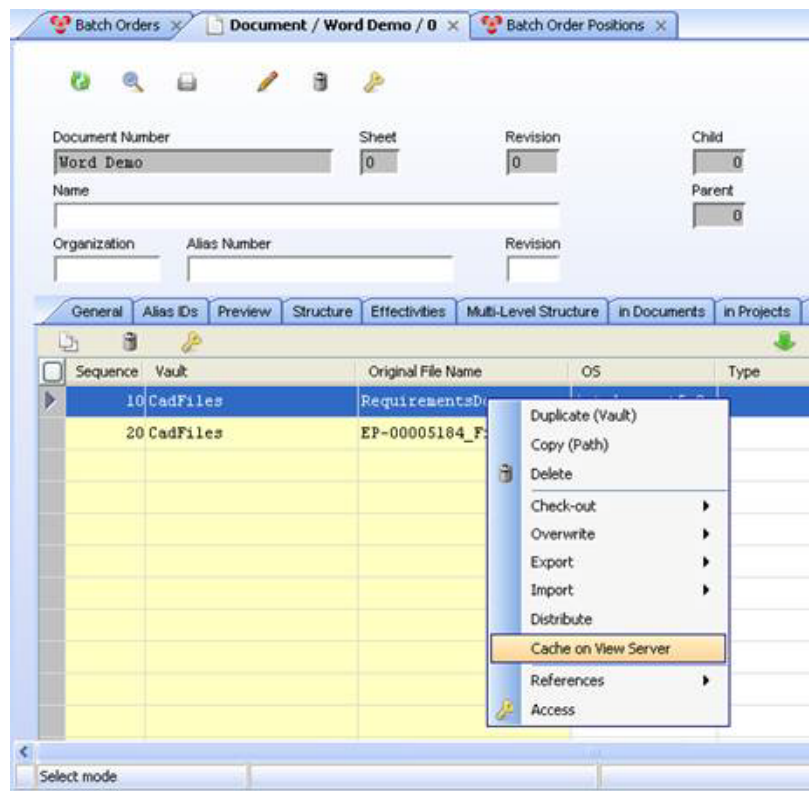
Adding All Files of a Document

In the standard installation, the userexit `xpvm_bat_doc` is available on the document master form.



Adding a Specific File

In the standard installation, the userexit xpvbm_bat_fil is available on the document file sub list.



Batch Process

- The Offline Metafile Cache feature uses the Batch Client to control the caching process.
- The main loop is implemented on the Batch Client to reduce the load on the EDM server machine.
- The sleep interval length can be configured in the Batch Client settings.

Note: The batch process is available on Windows and Oracle Linux only and should be installed on a machine near to the AutoVue server to reduce the network traffic.

The batch process can be installed as a Windows Service or run as a console program.

Further information about the Batch Client can be found in the Batch Client Guide for Agile e6.
