

Oracle® Agile

Engineering Data Management

AutoVue Integration Installation and Administration Guide for Agile e6.1.3.0

Part No. E50955-02

March 2014

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Preface

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

Note To read the PDF files, you must use the free Adobe Acrobat Reader™ version 7.0 or later. This program can be downloaded from the Adobe Web site (http://www.adobe.com).

Note Before calling Agile Support about a problem with an Oracle Agile EDM manual, please have the full part number ready, which is located on the title page.

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Readme

Any last-minute information about Oracle Agile EDM can be found in the Release Notes file on the Oracle Technology Network (OTN) Web site (http://www.oracle.com/technology/documentation/agile_eseries.html)

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Go to the Oracle University Web page (http://www.oracle.com/education/chooser/selectcountry_new.html) for more information on Agile Training offerings.

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Chapter 1

Introduction

This guide describes how to install the AutoVue integration for Agile e6 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.

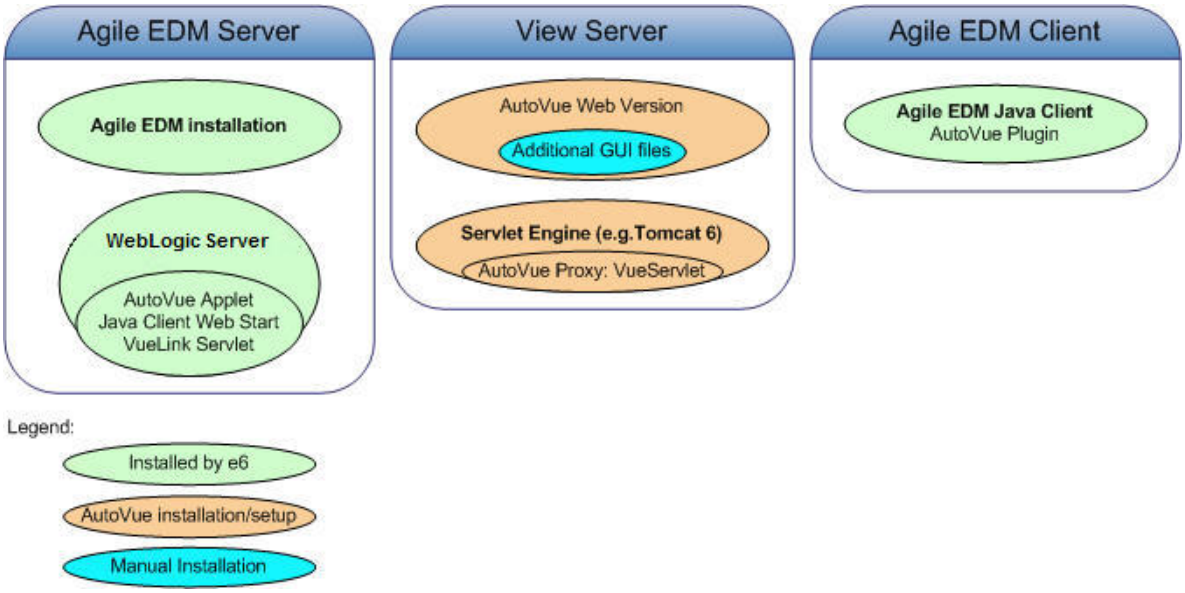
Chapter 2

Preparing the Installation

Installation Setup Overview

The 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 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 20.2.2 must be set up as described in the Oracle AutoVue 20.2.2 Installation and Administration manual from the Oracle Autovue 20.2.2 Client/Server deployment documentation. AutoVue Client components are not needed.

The AutoVue Proxy/VueServlet (see section “Product Architecture” in the Oracle AutoVue 20.2.2 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 EDM Client:

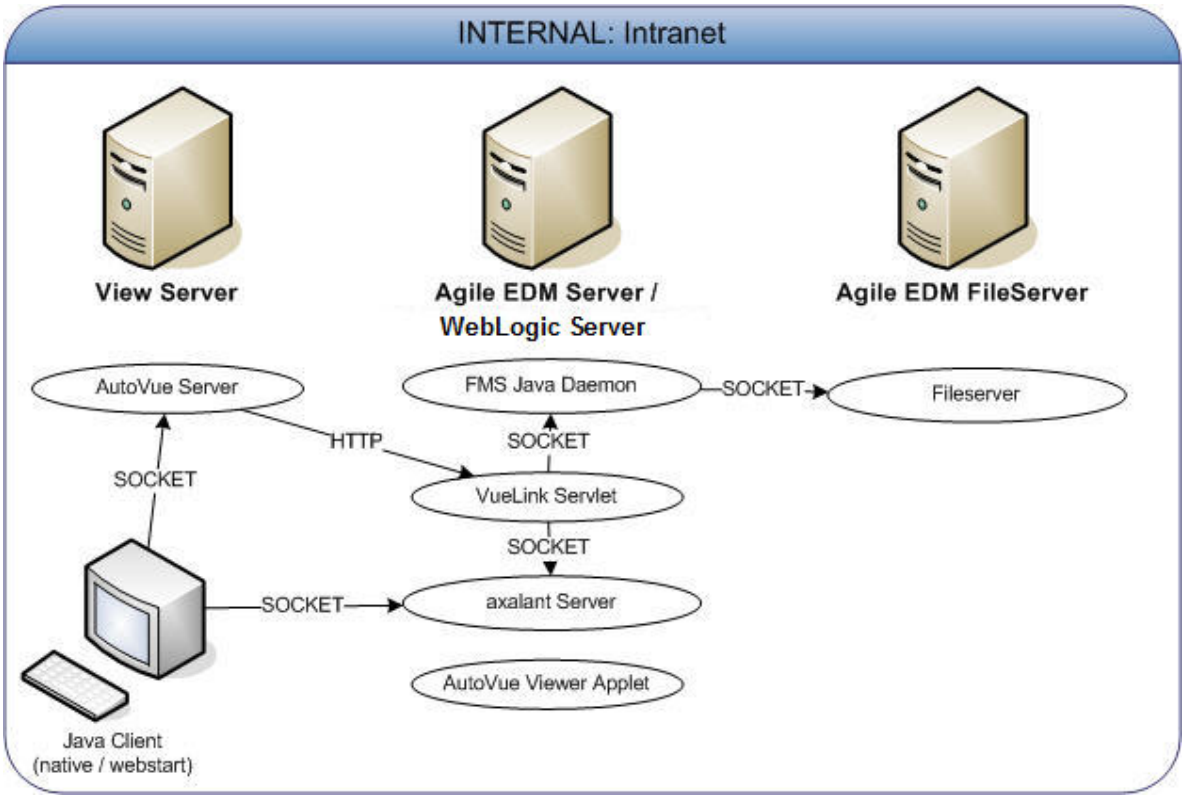
  The native Agile EDM Java Client installation contains the AutoVue plugin.

Installation Architecture

For the communication between the involved components see the “View Server (AutoVue)” section in the Architecture Guide for Agile e6.1.3.0.

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 e6.1.3.0. The Agile e6.1.3.0 integration is supported according to the Agile e6.1.3.0 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 20.2.2 Server. For installation instructions refer to the Oracle Autovue 20.2.2 Client/Server deployment documentation.

  Note Currently only Windows 2008 R2-bit is supported for Oracle AutoVue 20.2.2 for usage with the Agile e6 AutoVue integration.

  The Oracle AutoVue 20.2.2 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 20.2.2 Media Pack for Microsoft Windows (32-bit), a list with downloadable components will be displayed. For the AutoVue integration download the following components:

- Oracle AutoVue Electro-Mechanical Professional 20.2.2 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 Engineering Data Management AutoVue Integration!

- A Servlet engine for the optional AutoVue Proxy/Vueservlet. For a list of valid servlet engines refer to the Oracle Autovue 20.2.2 Client/Server deployment documentation. Optional means, this is only required if you want to use HTTP(s) connection to the AutoVue server.

Chapter 3

Installation

View Server

It is a prerequisite that the Oracle AutoVue 20.2.2 Client/Server deployment is already installed. If you want to activate tunneling with the AutoVue integration, the AutoVue Proxy/Vue servlet (as described in the Oracle Autovue 20.2.2 Client/Server deployment documentation) must be available.

To set up AutoVue GUI files:

1. Copy/transfer the zip file “AutoVueGuiFiles.zip” with the 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 adaptions for the 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.

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

Agile EDM Application Configuration

To use the AutoVue integration, some basic setup steps need to be performed in the dump. More detailed information about the configuration of the 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 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-WRAPPER-BASE-URL	e.g.: http://<weblogic_server>:<weblogic port>/VueLink	The base URL for the AutoVue viewer wrapper.
EDB-PVM-WRAPPER-ARCHIVES	agile-jvue-wrapper.jar	The AutoVue viewer wrapper jar. The value should stay unchanged by default.
EDB-PVM-APPLET-BASE-URL	e.g.: http://<AutoVue_jetty>:<5098>/AutoVue	The base URL for the AutoVue viewer applet.
EDB-PVM-APPLET-ARCHIVES	jvue.jar, jogl.jar, gluegen-rt.jar	The AutoVue Applet jars. The value should stay unchanged by default.
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.

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

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.

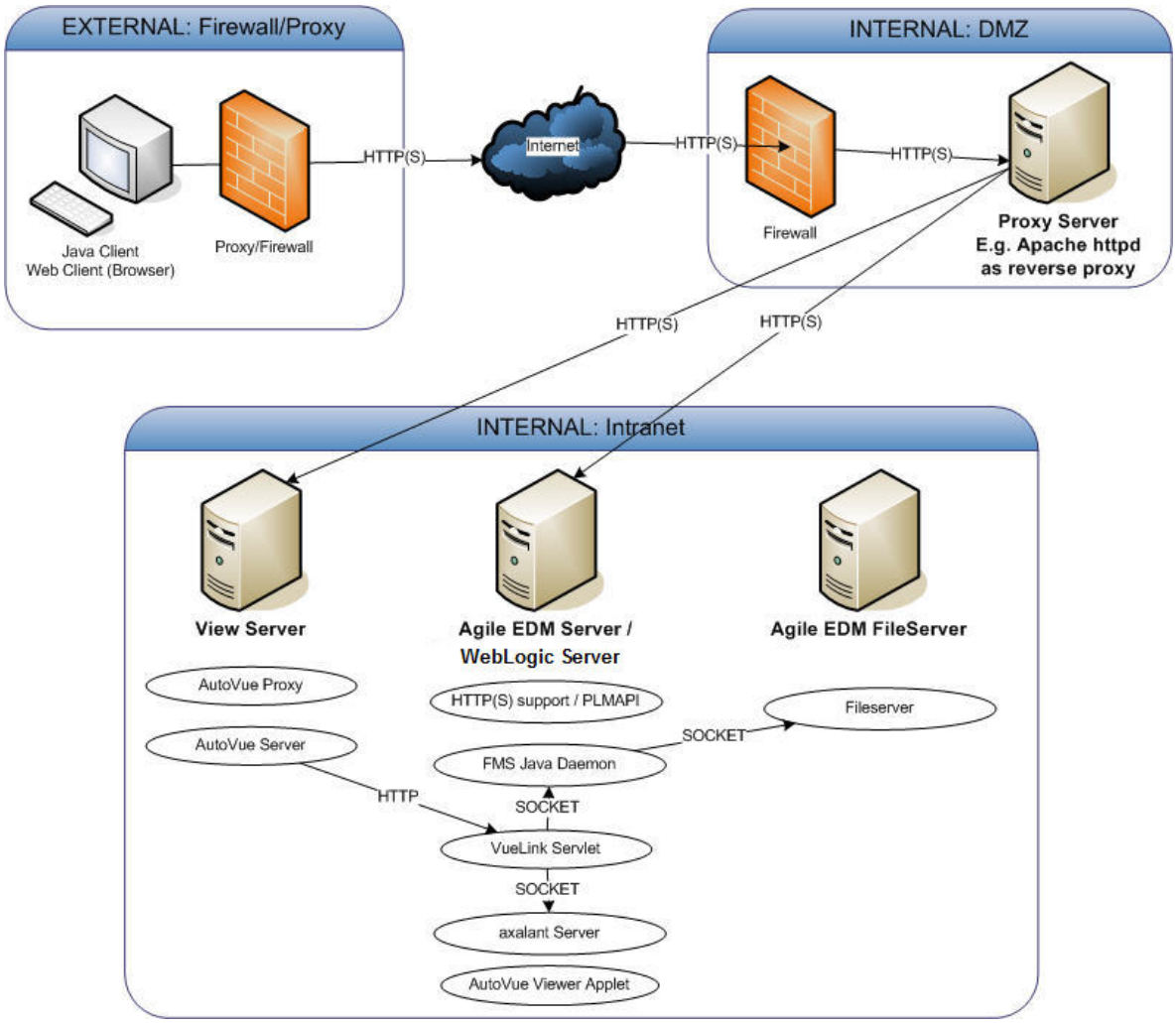
- AutoVue Applet:

  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 20.2.2 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.

Chapter 4

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.

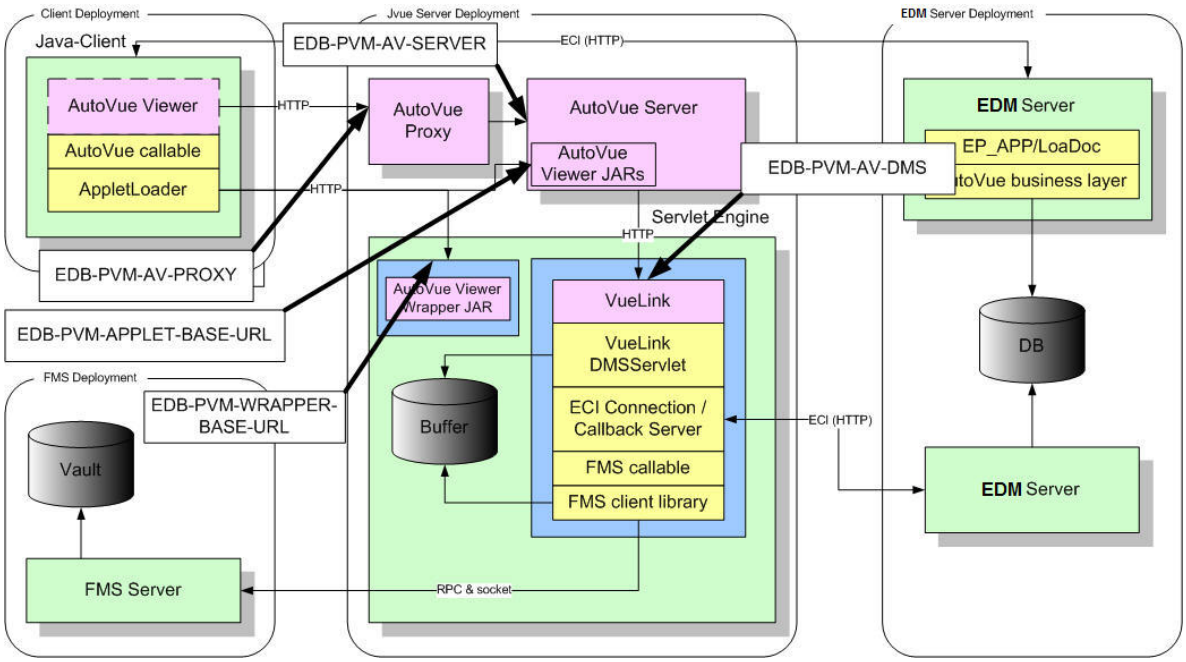
Note For each site that uses an AutoVue server, an Offline Metafile Cache Service is required to be able to replicate files.

Define Configuration Parameter

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

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

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.

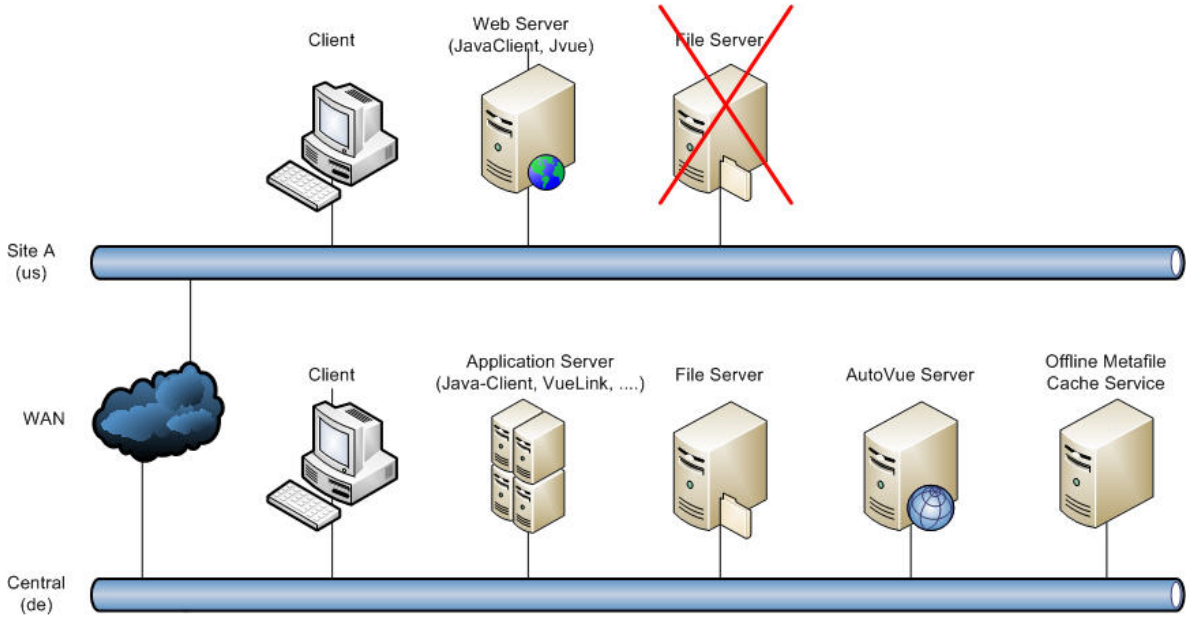
Note For detailed information on how to configure the environment variable EP_PVM_SITE for remote sites, please refer to the Administration Manual for Agile e6.1.3.0 > Java Client Remote Site Definition.

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

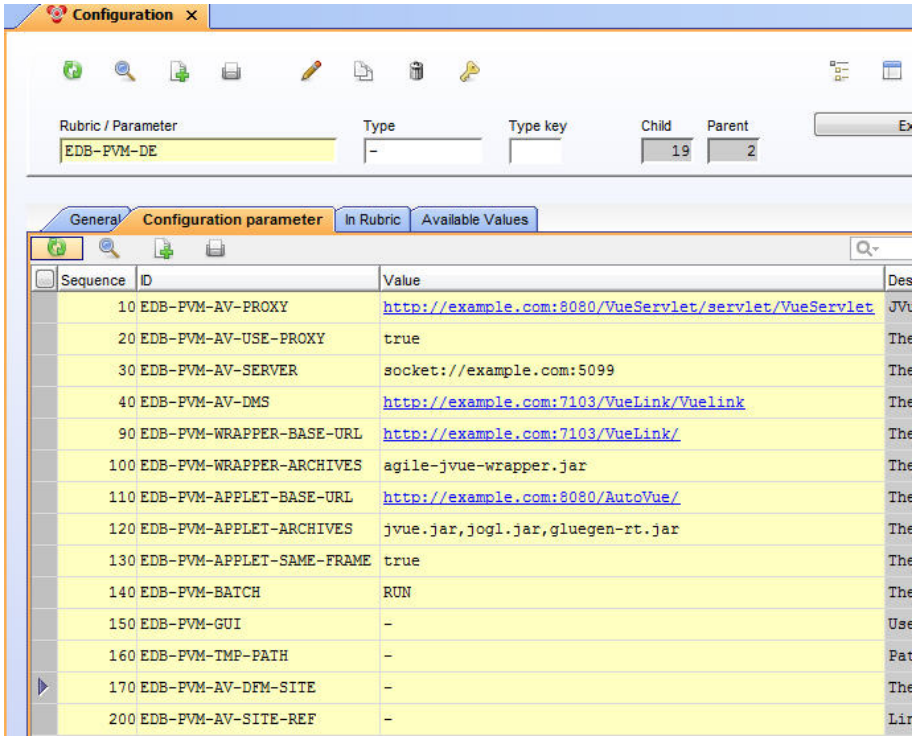
Note When no File Server is used, the configuration parameter EDB-PVM-AV-DFM-SITE has to remain empty.

Note 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.

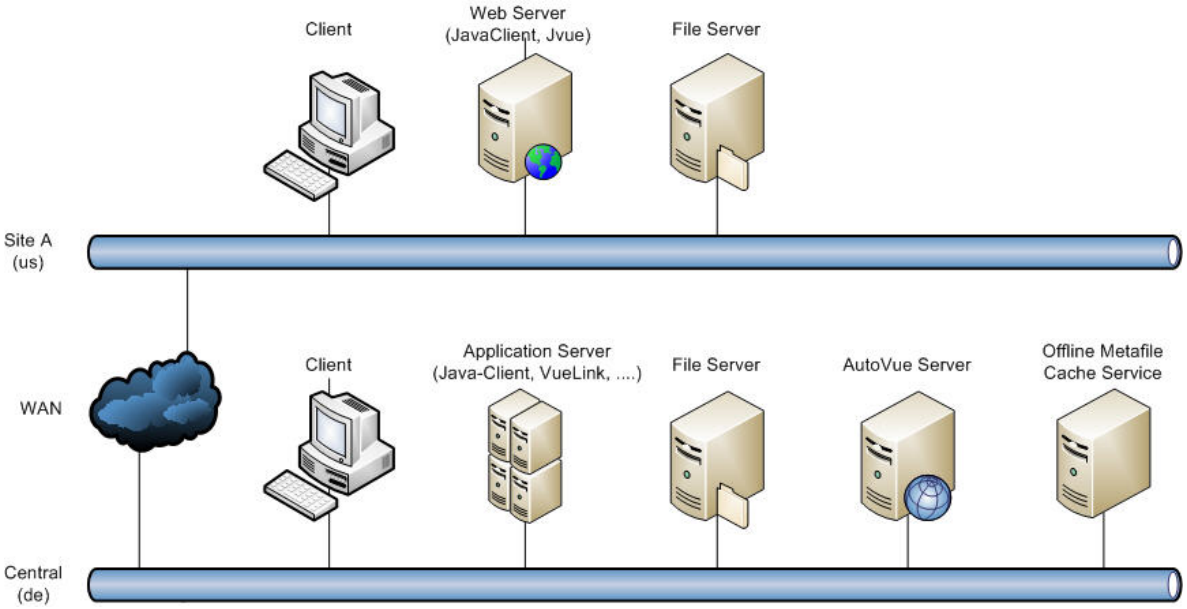


Central AutoVue – With DFM

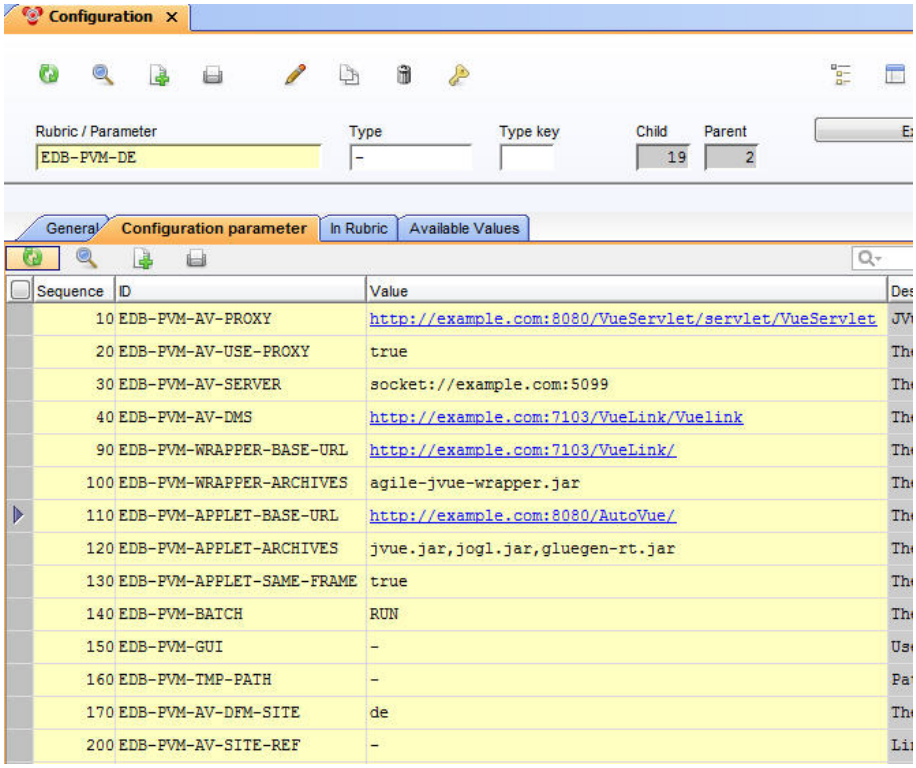
The Central AutoVue integration supports the configuration of a remote location as a DFM location to replicate e.g. CAD files and is using a central AutoVue installation (see example Site A in the graphic below) to view files/assemblies with the integrated AutoVue viewer. The AutoVue server uses the 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:



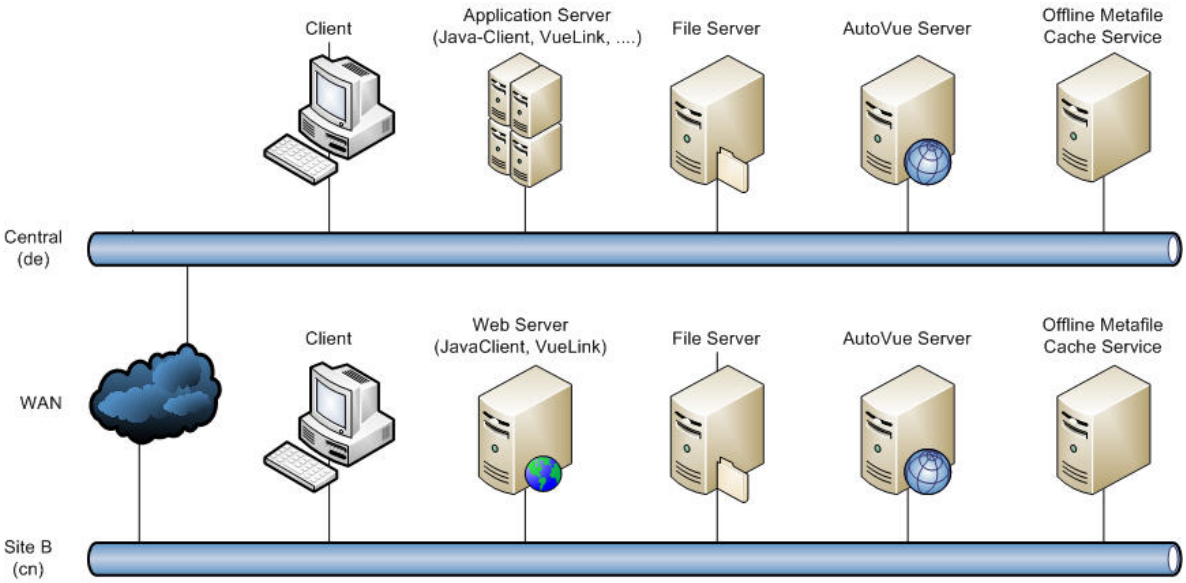
In this example, the Central site is defined as “de” in Agile e6. Although, the DFM site definition can differ from the AutoVue site.



Decentral AutoVue – With DFM

The Decentral 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).

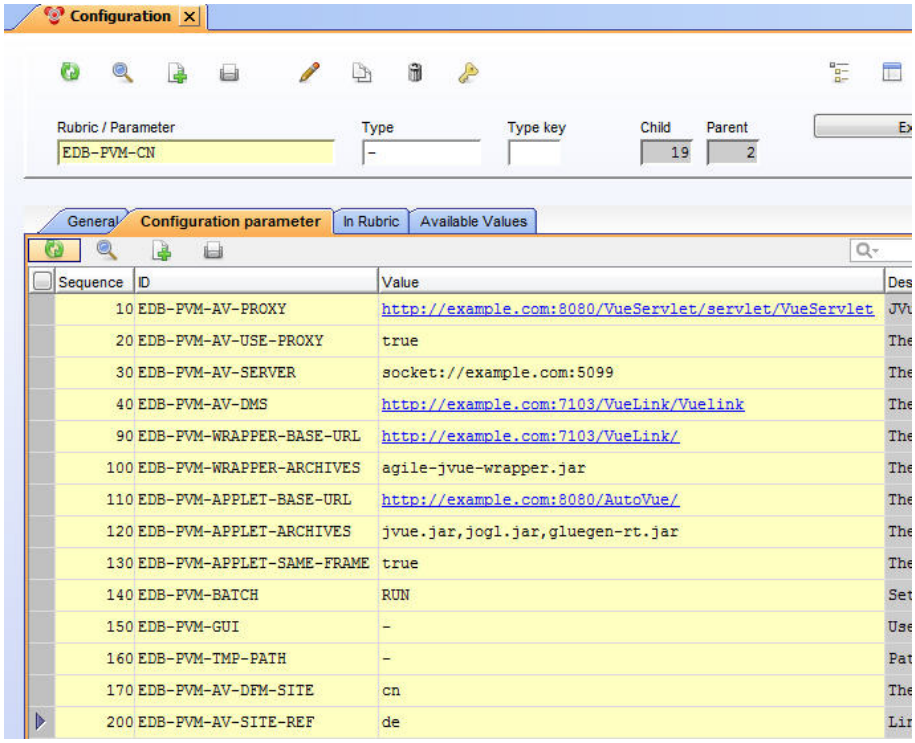
Example scenario of network topology:



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	▫ 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	▫ EDM Workstation to work with Agile EDM ▫ File Server to store file based data, e.g. CAD files
Site B	▫ 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

Chapter 5

Installing Offline Metafile Cache Service

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

Extract the Installation Package

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

1. Extract the package to your installation directory.

   In this installation example the installation path is "C:\Program Files\Agile_e6\AutoVueBatch" (the AutoVueBatch path is the base path in the package).

2. Unzip ..\package\AutoVueBatch.zip -d "c:\Program Files\Agile_e6"

   The installation package contains the following directories:

```
-> PDF Service Root        (C:\Program Files\Agile_e6\AutoVueBatch)
 -> axalant
    -> cmd                 (scripts directory)
    -> batch               (Batch service files)
    -> bin
      -> intel-ms-nt5.1    (binaries like the FMS-Client)
      -> java              (e6 Java archives)
 -> ext
    -> bin
      -> intel-ms-nt5.1    (external binaries)
      -> java              (external Java archives)
 -> tmp                    (Logging directory)
```

Adapting the Installation

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

The script is located at the axalant/cmd 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 METAFILE CACHE SERVICE>
```

Example:

```
set JAVA_HOME=C:\Program Files\Java\jdk7
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.

This file sets 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 PDF SERVICE>
varenv.axalant_root=<AXALANT DIRECTORY OF THE PDF SERVICE>
varenv.$TMP=<PDF WORK DIRECTORY OF THE PDF SERVICE>
#
# Environment
#
varenv.EP_DDM_SITE=<DFM SITE>
varenv.EP_PVM_SITE=<PVM SITE>
#
# PLM Client
#
client1=<PLM USER>,<PASSWORD>,com.agile.AutoVue.VueLinkBatch
```

Example:

```
#
# 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
#
# Environment
#
varenv.EP_DDM_SITE=ep
varenv.EP_PVM_SITE=ep
#
# PLM Client
#
client1=<manager_user>,<password>,com.agile.AutoVue.VueLinkBatch
```

Runtime

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

Install as Service

The configuration of the Windows service registration can be found in the vuelink_wrapper.conf file which is located in the axalant/pdf 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.name=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 1
wrapper.ntservice.dependency.1=

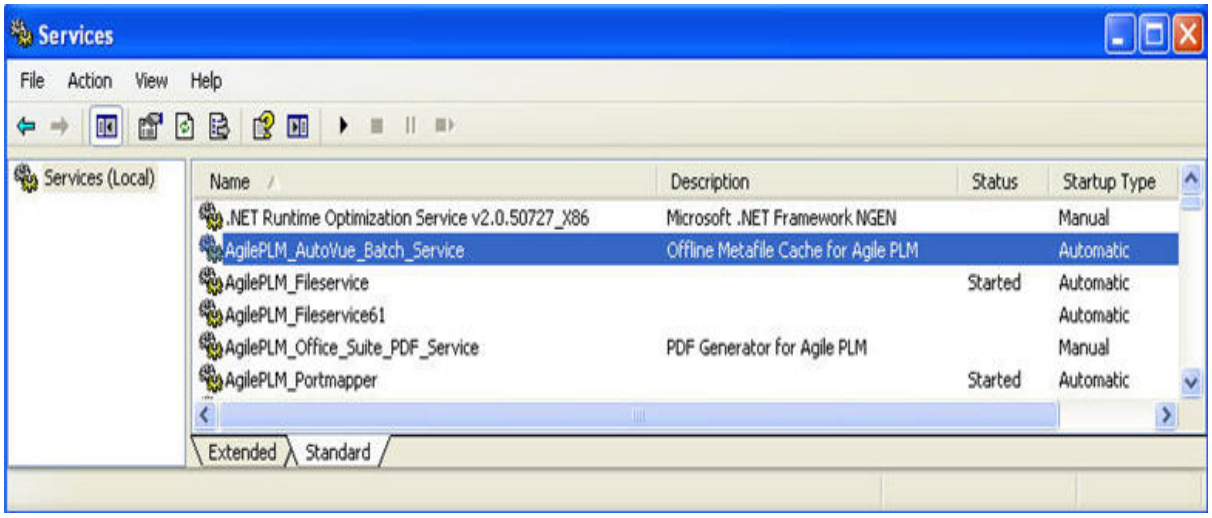
# Mode in which the service is installed.  AUTO_START or DEMAND_START
wrapper.ntservice.starttype=AUTO_START

# 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 the vuelink_batch.bat command script located in the axalant\cmd sub directory of the installation.

```
vuelink_batch.bat –c
```

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*

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)

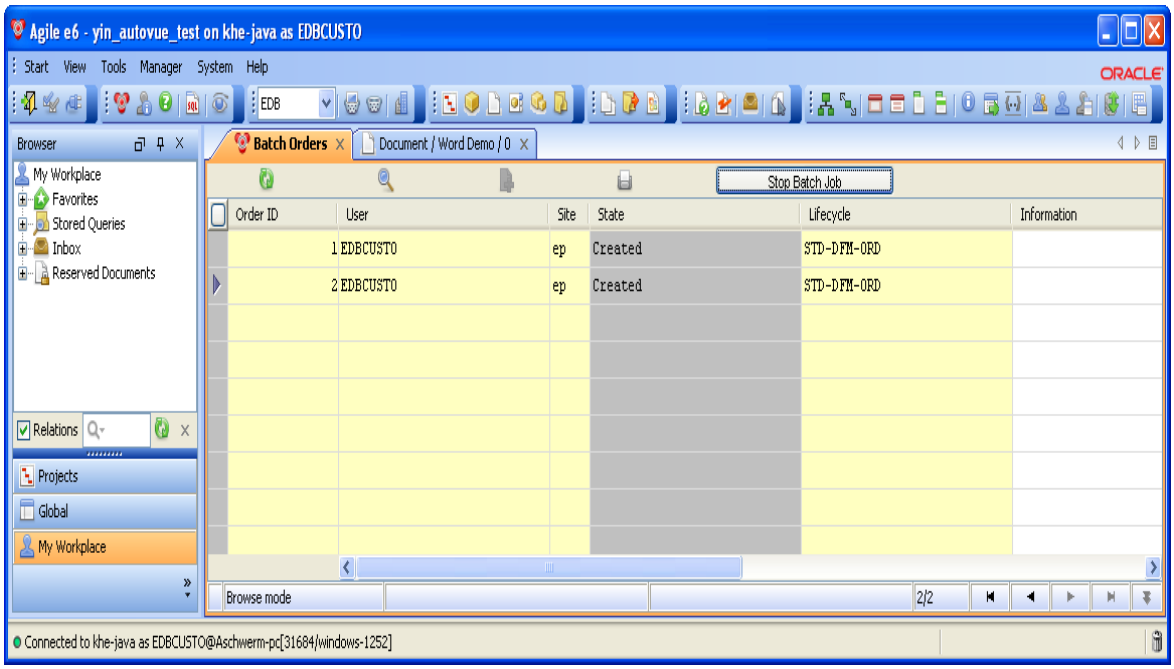
Note DFM replication is not supported; all files have to be replicated with the standard replication feature before the file can be cached on remote locations. The system checks if all files are replicated and sets an error code if not all files are available on the remote location.

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.

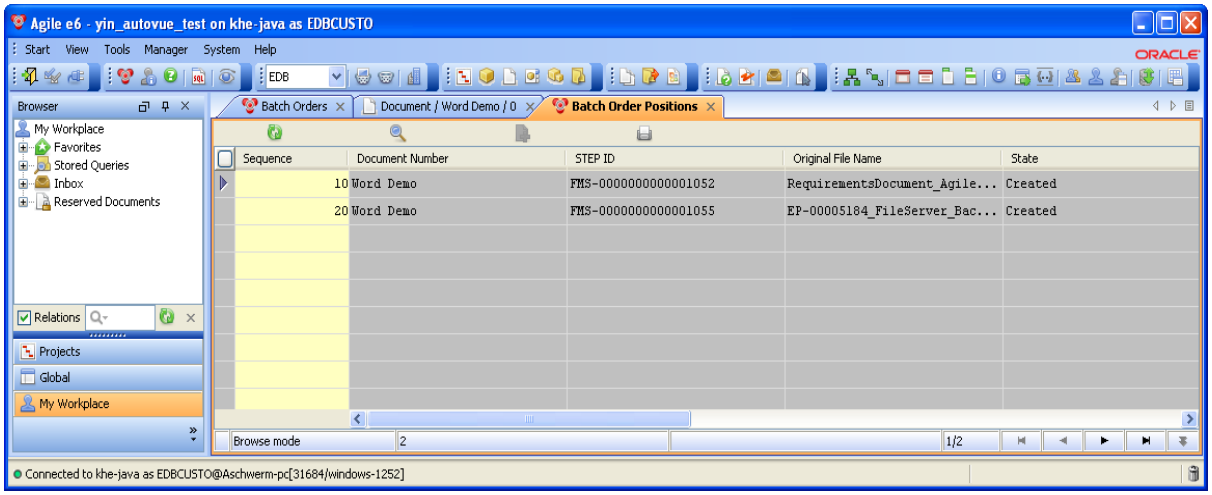


Order Positions

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.

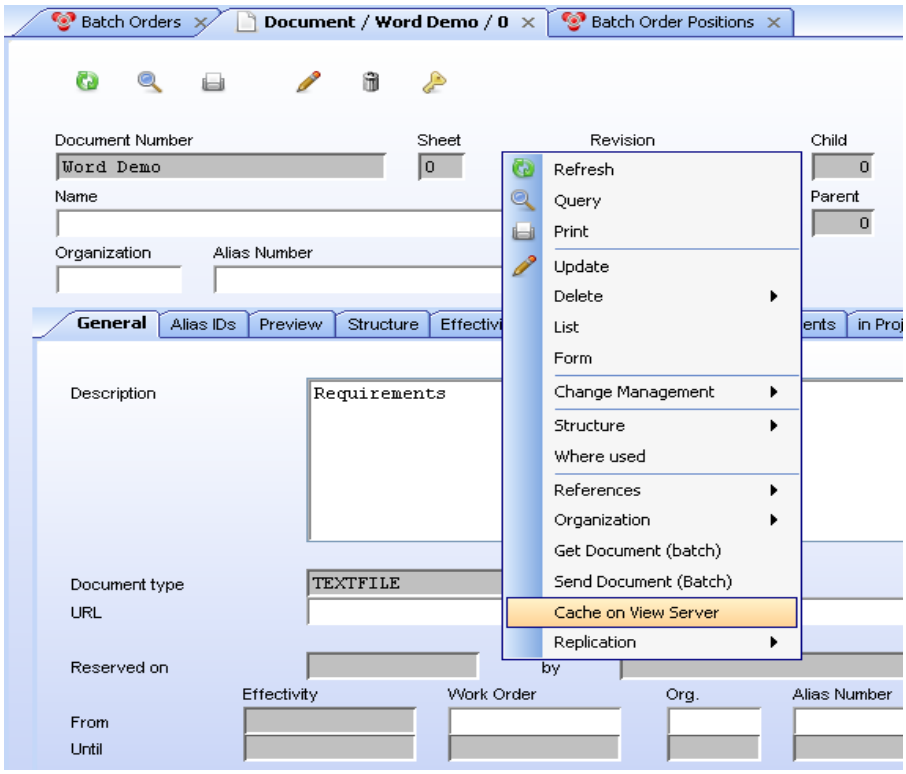
  This userexit is used for Document – File relation masks.

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.

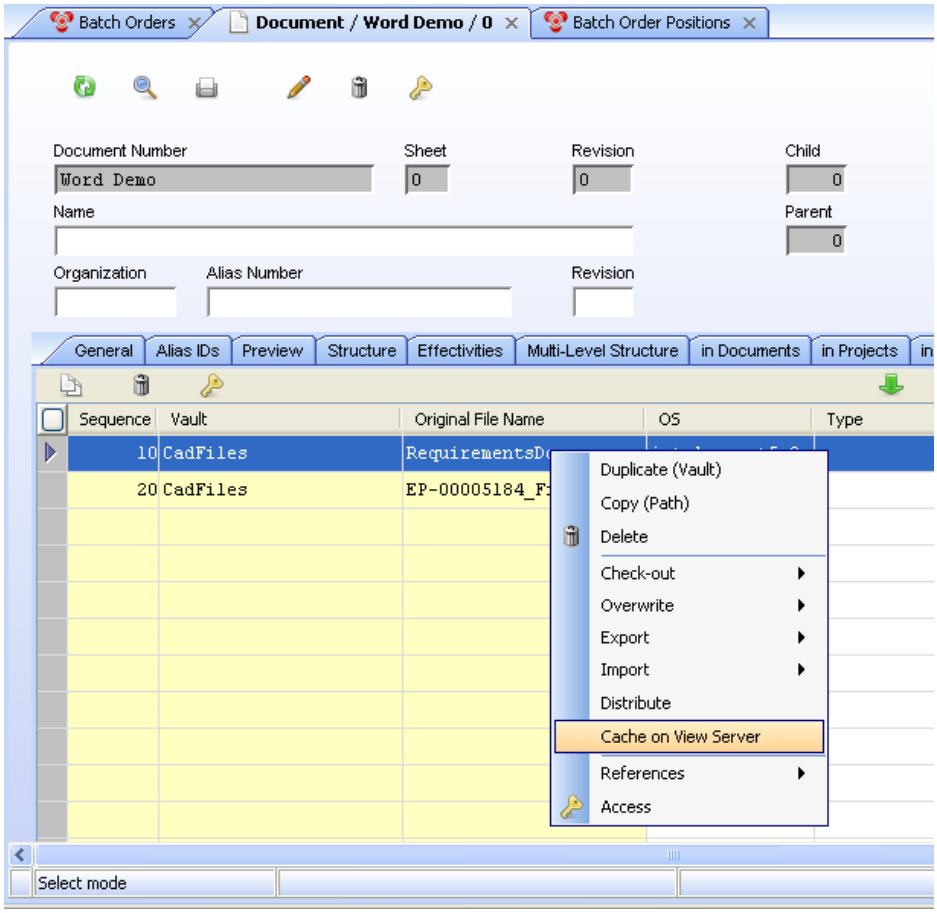
Adding All Files of a Document

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 xpvm_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 only and should be installed on a machine near to the AutoVue server to reduce the network traffic.

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

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