

Oracle® Agile Engineering Data Management

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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<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit
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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

The Administration Guide describes how to administrate the installed Agile e6.2.0.0 components.

Note: For information about security, please refer to the Security Guide for Agile e6.2.0.0.

About Agile e6.2.0.0 Administration

An Agile e6.2.0.0 application defines a particular hardware and software configuration that allows Agile e6.2.0.0 to work with an Oracle database and Oracle WebLogic Server.

To administer the Agile e6.2.0.0 application, you can create and manage Agile e6.2.0.0 applications. For every created Agile e6.2.0.0 application, information is stored on the EDM Server that specifies how to connect to the database, locate data, and which Oracle WebLogic Server is to be used.

When you install an EDM Server, the installation program automatically creates a default application which is configured during the installation, and the application name is associated with the database.

It is also possible to create additional applications within the same installation thus, it is not necessary to maintain separate installations for different purposes. A single Agile e6.2.0.0 installation often includes separate applications for various purposes, such as testing for testing purposes before creating the actual working applications, development, production, and education.

The applications created for an installation can be associated with the same, or with different databases (e.g. a multi-application system, in which development and test applications, and their respective databases co-exist with a production application and its database). In general, it is required to have a separate production infrastructure to avoid the risk of loss of production by changing something in e.g. the development application.

About Agile e6.2.0.0 Business Services Administration

When you create an Agile e6.2.0.0 application, the Business Services component will be installed/deployed on your Oracle WebLogic Server for each new application. The Business Services comprise of the Workflow Module, Permission Manager, and Product Configurator.

Overview of the Workflow Module

To include Workflow processes in an Agile e6.2.0.0 application, optional configuration parameters can be defined for the processes within the overall Agile e6.2.0.0 application definition. For more information, refer to the chapter Administering Agile e6.2.0.0.

Note: For further information on using the Workflow module, refer to the Agile e6.2.0.0 Online Help > Using Agile e6 > Product Data Management > Workflow.

Modifying Configurations without the Administration Client

Any file or configuration modification made without the Administration Client will be lost when changing the application values with the Administration client again, except when using the component based J2EE installation.

If you want to install/deploy the Agile e6.2.0.0 J2EE components with a separate user, or on a separate server, different from the one used for the "native" Agile e6.2.0.0 installation, it is necessary to also perform a separate Agile e6 installation of the J2EE components with a separate user, or on a separate server.

Administering Agile e6.2.0.0

The Agile e6.2.0.0 Administration client lets you create, configure, and delete Agile e6.2.0.0 applications via the web browser. Agile recommends that you use a supported browser (see Prerequisites Guide for Agile e6.2.0.0) to connect to the Administration client.

Note: If you are getting a security message from your browser, you might have to add the Administration client to the trusted websites in your browser settings.

The Administration Client

The Administration client will be installed automatically with the installer if you install a server component. It can be used to create new, or modify existing applications. The Administration client is a web based application and is deployed in an Apache Tomcat servlet container. For detailed information on Apache Tomcat servlet container refer to:

<http://tomcat.apache.org/>

Currently we are using Apache Tomcat v7.0.32

In the Agile e6 package, you can find Apache Tomcat in:

- Windows: %ALLUSERSPROFILE%\agile\installer\6.2.0\admin
- UNIX: \${HOME}/.agile/installer/6.2.0/admin.

Starting the Administration Client

Windows:

1. Start the service "AgilePLM_AdminClient".
2. Set the startup type to "Automatically".

UNIX:

1. Use the standard Apache Tomcat startup.
2. Stop scripts.

Note: A 32-bit Java 7 version has to be used. On most new UNIX servers, the default Java version is a 64-bit Java.

To set the 32-Bit Java 7 for Tomcat on UNIX:

1. Create the file "setenv.sh" in the `$HOME/.agile/installer/6.2.0/admin/apache-tomcat/bin` directory of Tomcat with a line like:

```
export JAVA_HOME=/usr/local/java/jdk7
```
2. Tomcat will automatically use this Java version which must point to a 32-bit Java.
3. Start Tomcat with "startup.sh".
4. Stop Tomcat with "shutdown.sh".
Tomcat will show the used Java version at startup with something like:
Using JAVA_HOME: /usr/local/java/jdk7

Changing the Password

The Administration client Password has to be defined after the first startup. Login without definition of the password is not possible.

1. Create new encrypted password.

To create a new password, execute:

- Windows:

```
cd %ALLUSERSPROFILE%\agile\installer\6.2.0
tools\bin\epkeytool.bat -encryptpwd -keyStore
file://%ALLUSERSPROFILE%\agile\installer\6.2.0/wallets/adminclient/private/
adminclient/cwallet.sso -keyAlias orakey
```

- UNIX:

```
cd ${HOME}/.agile/installer/6.2.0/tools/bin
./epkeytool.sh -encryptpwd -keyStore
file://${HOME}/.agile/installer/6.2.0/wallets/adminclient/private/adminclie
nt/cwallet.sso -keyAlias orakey
```

The resulting output is your encrypted password.

2. Find encrypted password.

The encrypted password for the Administration client can be found in:

- Windows:

```
%ALLUSERSPROFILE%\agile\installer\6.2.0\admin\apache-tomcat\webapps\AdminCl
ient\metadata\Adminserver_Props.txt
```

- UNIX:

```
$HOME/.agile/installer/6.2.0/admin/apache-tomcat/webapps/AdminClient/metada
ta/Adminserver_Props.txt.
```

3. Copy the newly generated password into the "Adminserver_Props.txt" file at the password property, and restart the Apache Tomcat process.

Changing the Apache Tomcat Configuration

Tomcat is configured with a HTTP connector by default.

Note: The Administration client uses port 8030 for the HTTP connector.

If you want to change this port you have to edit the Apache Tomcat "conf/server.xml" file and restart the Apache Tomcat process.

We recommend enabling HTTPs for the Administration client. Please refer to:

<http://tomcat.apache.org/tomcat-7.0-doc/ssl-howto.html>

for more information.

Administering with the Administration Client

Logging In

1. Access the Administration client via

`http://<servername>:8030/AdminClient`

The login screen is opened.

2. Log in with the following parameters:

- User: plm
- Password: Your newly generated password

The Welcome screen is opened.



The navigation at the left hand side shows under Components all available installations that can be configured.

Under References, the available Database Connection, Database Server Definition, and Application Servers can be found.

Creating/Modifying an Application

1. Under <application name> -> Application, click Create.

The Create new application screen is opened.

References

Application Server:
 Database:

2. Create a new application with the following parameters:

Application Input Form

Setting	Description
Name	The name of the default application you want to create.
Database User	The database user you want to use for the application.
Database Password	The password of the database user.
Verify Password	The password entered above has to be repeated for the verification.
WebLogic Server Admin Port	The listen port for the WebLogic administration server which will contain the WebLogic administration console.
WebLogic Server Admin SSL Port	The SSL listen port for the WebLogic administration server which will contain the WebLogic administration console.
Admin Password Application Domain	The password of the WebLogic user used for the application domain.
Confirm Admin Password Application Domain	The password entered above has to be repeated for verification.
WebLogic Server eSeries Port	The listen port for the WebLogic EDM server. The installer will create a separate managed server with the name "eSeries-01" in addition to the administration server. This server will contain the application specific deployments.

Setting	Description
WebLogic Server eSeries SSL Port	The SSL listen port for the WebLogic EDM server. The installer will create a separate managed server with the name "eSeries-01" in addition to the administration server. This server will contain the application specific deployments.
J2EE Host	The host on which Business and/or Web Services are running. The WebLogic server host name.
Http Host	The host where the Web Client can be reached over HTTP. The WebLogic server host name.
Http Port	The port where the Web Client can be reached over HTTP. The HTTP port of WebLogic server.
Business Service ECI Port	The port where the Business Service will be configured to "wait" for requests.
Web Services ECI Port	The port where the Web Services will be configured to "wait" for requests.
Workflow Admin UIC	The UIC of an Agile e6 user who has administrative rights for the Workflow module. He will receive mails about administrative problems in the Workflow module (1000 - 99999).
Mail Server	The name of your SMTP mail server if you want to send emails via the Business Services. Mailing will be disabled if no host name is set.
Mail Port Number	The port number of your SMTP mail server if you want to send emails via the Business Services. (587 is the submission port for using encryption. 25 is the old standard SMTP port).
Mail with SSL	If enabled, SSL will be used to encrypt the connection to your SMTP mail server if you want to send emails via the Business Services. Note: We strongly recommend using SSL.
Mail with Authentication	If enabled, use the following user/password to authenticate against the mail server if you want to send emails via the Business Services. Note: We strongly recommend enabling this option.
Mail Auth User	User name, if the Mail Authentication for your SMTP mail server is activated.
Mail Auth Password	Password, if the Mail Authentication for your SMTP mail server is activated.
Confirm Mail Auth Password	The password entered above has to be repeated for verification.
Import DB Dump	Select if you want the standard dump to be imported to the above defined database user.
Create DB User	Select if you want the database user to be created automatically.
SYSTEM Password	Password of the Oracle database user. Note: You only have to supply a value here if you want to create a new database user and have selected this in the field above.
PLM Authenticator Password	Password of the WebLogic user PlmAuthenticatorDSUser, which secures the Data Source PlmAuthenticatorDS used by the PLM Authentication provider.
Confirm PLM Authenticator Password	The password entered above has to be repeated for verification.

References

In the References section you can define which database and application server should be used for this application. Normally, you don't have to change these values.

Setting	Description
Application Server	The name of the reference of the Oracle WebLogic Server where Web Services and Business Service will be deployed.
Database	The name of the reference of the database you want to use for the application.

Note: Creating a new application can take up to 20 minutes. If a database user will be created, the database dump for the application has to be imported, the domain created and setup.

Note: In case you receive the error "The connection has timed out", please check if the new application is installed correctly anyway.

1. Open the directory with the installer log files which can be found in the following locations:
 - Windows
%ALLUSERSPROFILE%\agile\installer\6.2.0\log
 - UNIX
\${HOME}/.agile/installer/6.2.0/log
 2. Please check for the file install_error.log in all sub-directories starting with the timestamp approximately of the beginning of your installation.
If the install_error.log cannot be found in these sub-directories, the installation is completed. You can check if the newly created installation can be found in the navigation of the Administration Client.
-

3. Click Create.

Updating an Application

1. To update an application click Application -> Modify <application name>.

The following screen is opened with the application details in the right pane:

AgileInstallation61
pimref

Application Input Form

Name: pimref

Database User: pimref

WebLogic Server Admin Port: 7105

WebLogic Server Admin SSL Port: 7106

WebLogic Server eSeries Port: 7107

WebLogic Server eSeries SSL Port: 7108

J2EE Host: app.example.com

Http Host: app.example.com

Http Port: 7103

Business Service ECI Port: 19997

Web Services ECI Port: 19998

Workflow Admin UIC: 101

Mail Server:

Mail Port Number: 587

Mail with SSL: false

Mail with Authentication: false

Mail Auth User:

References

Application Server: weblogic

Database: oradb

Here you can see the current values of your application.

- Click "Edit" in the upper right corner to be able to change the values for the application.

AgileInstallation61
Edit pimref

Application Input Form

Database User: pimref

Database Password:

Confirm Database Password:

WebLogic Server Admin Port: 7105

WebLogic Server Admin SSL Port: 7106

WebLogic Server eSeries Port: 7107

WebLogic Server eSeries SSL Port: 7108

J2EE Host: app.example.com

Http Host: app.example.com

Http Port: 7103

Business Service ECI Port: 19997

Web Services ECI Port: 19998

Workflow Admin UIC: 101

Mail Server:

Mail Port Number: 587

Mail with SSL: false

Mail with Authentication: false

Mail Auth User:

Mail Auth Password:

Confirm Mail Auth Password:

Import DB Dump: false

Create DB User: false

References

Application Server: weblogic

Database: oradb

3. Change the values.
4. To apply the changes, click "Update" in the upper right corner.

The admin server will redeploy the Web Services and Business Services for this application with the new values.

Note: It is NOT recommended updating a production application that is in use and running.

Deleting an Application

It is possible to delete the application with the "Delete" button in the upper right corner.

Note: Deleting an application will not remove the domain for Web Services/Business Service from the Oracle WebLogic Server. This must be done manually.

Refer to the support note "How to Remove/Delete a Weblogic Server (WLS) Domain (Doc ID 1068323.1)" on My Oracle Support.

Also, the used database schema remains unchanged.

Logging Out

1. To log out click the "Logout" link in the upper left corner.

Note: The Administration client times out after 10 minutes. This requires a re-log in.

Setting and Changing Initial User Passwords in a New Agile e6.2.0.0 Application

Note: The enhanced security module is enabled in each newly created application (with a new dump) by default. You can only log in to this application with the user "manager"!

Perform the following steps:

1. Start an Agile e6.2.0.0 client and log in to your application with the user "manager" with password "manager".

Note: At the first log in, you are asked to set a new password for this user. This will be the password for future logins.

2. Set a new password for the user.

All other users are deactivated and have to be activated by setting a new valid password for them.

Set the password for user "EDBCUSTO" and all other standard users:

1. Start Agile e6.

2. Open menu Manager > Permissions > User > Basic Data.
3. To set the password, click Refresh.
4. Select user "EDBCUSTO".
5. Open the context menu and select Set Password.

Note: At the first log in of user "EDBCUSTO" with the initial password, the user will be asked to set a new password. This will be the password for future logins.

6. Repeat these steps for all newly created users and standard users.

Note: Further information about the user management can be found in the Online Help > Customizing Agile e6 > Data View > Data View User's Guide > Users, Groups and Privileges.

Managing References

Adding a New Database for an Application

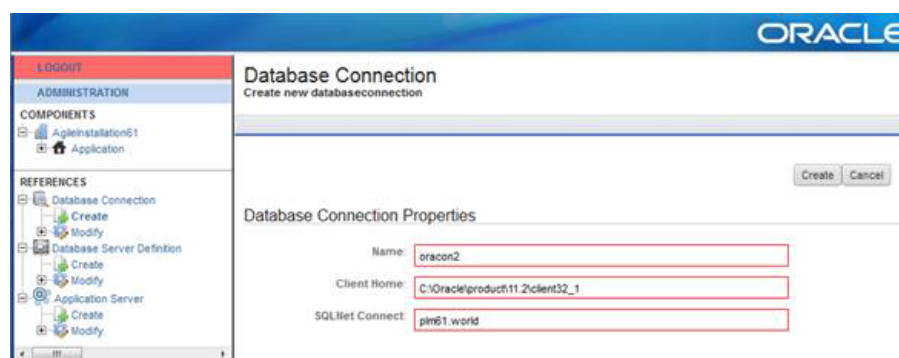
To use a new database for an application, the following components are required:

- Valid database connection string.
- Valid definition of a database used by a database connection.
- Running SQL Net.

To create a new database connection:

1. In the left pane, under References > Database Connection click Create.

The Create new database connection screen is opened:



2. Create a new database connection with the following parameters:

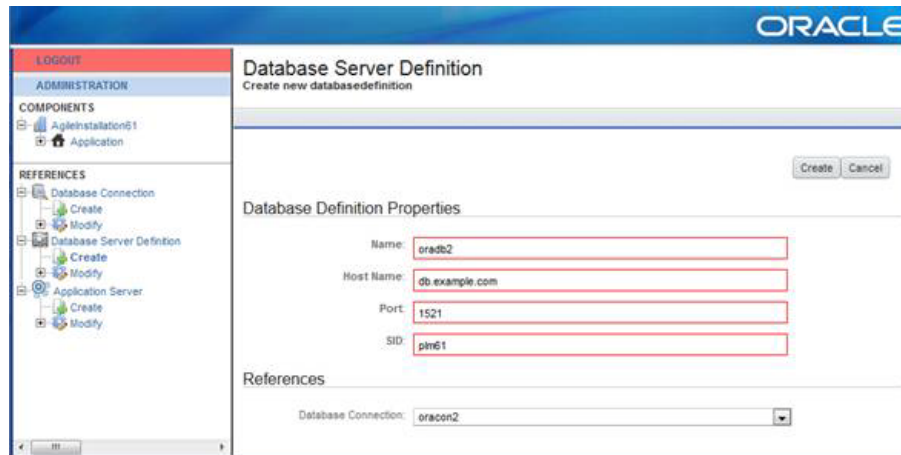
Setting	Description
Name	The new name which identifies the connection.
Client Home	The Oracle Client Home directory.
SQLNet Connect	The SQLNet connect string as defined, e.g. tnsnames.ora.

3. Click Create in the upper right corner.

To define a new database server:

1. In the left pane, under References > Database Connection, click Create.

The Create new database definition screen is opened:



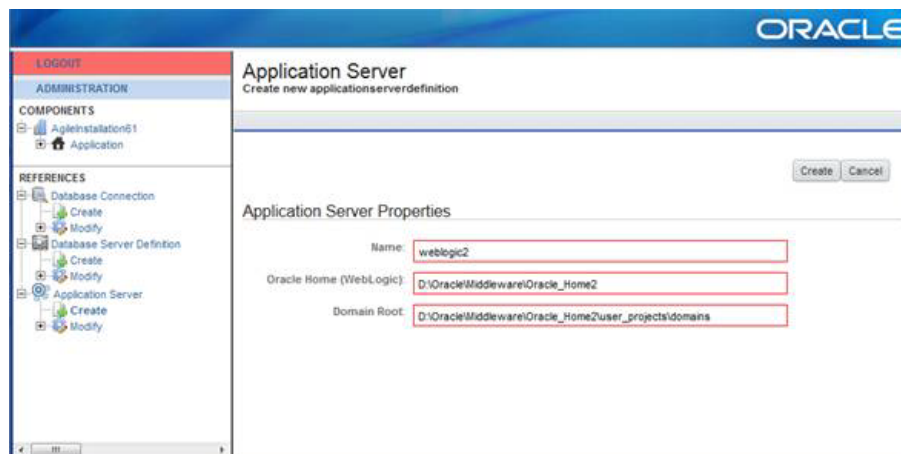
2. 2. Create a new database server with the following parameters:

Setting	Description
Name	The new name which identifies the database definition.
Host Name	The host name of your database server.
SID	The SID of the database you want to connect to.
Port	The port where the listener listens on the database server.

3. Under References, define a database connection.
The database connection, which is used to connect to the database in reference section.
4. Click Create in the upper right corner.

Adding a New Application Server for an Application

1. In the left pane, under References > Application Server click Create.
The Create new application server definition screen is opened:



2. Define a new application server with the following parameters:

Setting	Description
Name	The new name which identifies the Oracle WebLogic server definition.
Oracle Home (WebLogic)	The Oracle Home directory where WebLogic is installed (e.g.: D:\Oracle\Middleware\Oracle_Home).
Domain Root	<p>The root directory where the Agile e6 WebLogic domains should be created (e.g.: D:\Oracle\Middleware\Oracle_Home\user_projects\domains).</p> <p>In this directory the installer will create all domains used by the Agile e6 J2EE components.</p>

3. Click "Create" in the upper right corner.

Deleting a Reference

1. In the left pane, expand the "Modify" node of either:
 - Reference > Database Connection
 - Reference > Database Server Definition
 - Reference > Application Server
2. Select the name of the reference.
3. Click "Delete" in the upper left corner.

Note: This will only delete the reference in the "installation_prop.xml" file if the reference is not in use. If it is in use, an error message is displayed.

Nothing else will be deleted.

Java Application Servers

Oracle WebLogic

The Oracle WebLogic server is mandatory for Agile e6.2.0.0. After the Agile e6.2.0.0 installation, the Web Presentation Service, Java Client WebStart, PLM-API (HTTP support), the Web File Service, Jvue Applet, and DaemonAdminServlet deployment have to be available in one WebLogic domain with the default name "eSeries_domain". Additionally, for each created application the Business Service and Web Services deployment have to be available in one WebLogic domain with default name "eSeries_domain_<application_name>".

The "eSeries_domain" can be accessed over the following link:

<https://app.example.com:7102/console>

The "eSeries_domain_<application_name>" can be accessed over the following link:

<https://app.example.com:7106/console>

To verify the availability of the above deployments, log in to your Oracle WebLogic domains.

The following applications have to be available in the domain "eSeries_domain":

- Daemon Admin Servlet
- HTTP Support
- Java Client
- JVue
- Streaming File Service
- VueLink
- Web Presentation Service
- Web Fileservice

The following context roots of these applications should be in working state:

Note: Use your Oracle WebLogic server name and HTTP port.

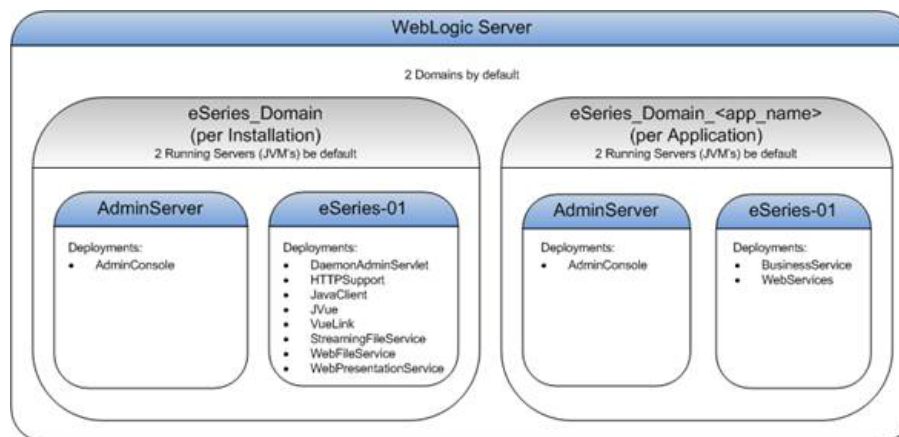
- Daemon Admin Servlet:

- `https://app.example.com:7104/DaemonAdminServlet/`
- HTTP Support:
`https://app.example.com:7104/plm-api-axis/services`
 - Java Client:
`https://app.example.com:7104/Jacc/`
 - JVue:
`http://app.dfm.example.com:8040/JVue/`
 - Streaming Fileservice:
`https://app.example.com:7104/StreamingFileService/`
 - VueLink:
`https://app.example.com:7104/VueLink/Vuelink/`
 - Web Fileservice:
`https://app.example.com:7104/FileService/`
 - Web Presentation Service:
`https://app.example.com:7104/AgilePlmWps/`

These applications have to be available in the domain "eSeries_domain_<application_name>":

- Business Service
- Web Services

The following graphic shows the WebLogic deployment architecture after an Agile e6 installation.



Domains Directory: `<MIDDLEWARE_HOME>/user_projects/domains`

Server Directories: `<DOMAIN_HOME>/servers/AdminServer (eSeries-01)`

Further information about the Oracle WebLogic server administration can be found under Oracle WebLogic Server documentation > Oracle Fusion Middleware Documentation Library:

<http://docs.oracle.com/middleware/1213/wls/index.html>

Apache Tomcat

Tomcat is only supported for a limited set of deployments for a remote DFM site installation.

The following applications are supported:

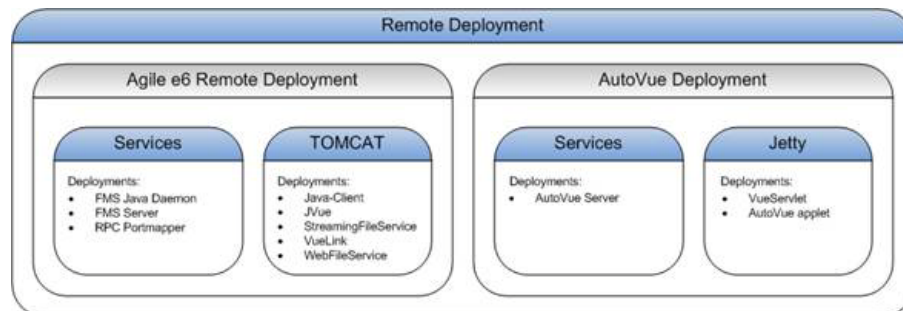
- Java Client
- JVue
- Streaming File Service
- VueLink
- Web Fileservice

The following context roots of these applications should be in working state:

Note: Use your Apache Tomcat server name and HTTP port.

- Java Client:
http://app.dfm.example.com:8040/Jacc/
- JVue:
http://app.dfm.example.com:8040/JVue/agile-jvue-wrapper.jar
- Streaming Fileservice:
http://app.dfm.example.com:8040/StreamingFileService/
- VueLink:
http://app.dfm.example.com:8040/VueLink/Vuelink/
- Web Fileservice:
http://app.dfm.example.com:8040/FileService/

The following graphic shows the Remote Site deployment architecture after an Agile e6 installation.



Advanced Administration Tasks

Deploying Customer Adapted Files

Customer adapted files which are part of a deployment, have to be adapted outside the WebLogic server. The same applies for the Tomcat application server for a DFM remote site installation. These adapted files will be available even after applying a hotfix.

Note: We do not support the changing of Agile e6 files directly in the Oracle WebLogic server deployment.

The same applies for the Tomcat application server for a DFM remote site installation.

The deployment process in Agile e6 will create a "staging" directory in <ep_root> with four subdirectories and is active for all described batch deployment tasks.

All four subdirectories contain an "installation" directory for all application-independent deployments and an "application" directory containing an additional subdirectory for each Agile e6 application. This subdirectory contains the application specific deployments (e.g. the BusinessService).

- product:

This directory contains a subdirectory for every deployed component. Under these subdirectories, the unzipped archives are available. If you want to modify any file in the archive, the file has to be copied to the same directory in the "custom" folder.

Note: When redeploying, changes made in this directory and its subdirectories will be lost.

- custom:

Note: This is the ONLY folder where you should make changes to files and add directories.

This directory contains the same directory structure as the "product" folder without files (except one, see Adapting Business Service Notification Mail

Templates). Copy the files you want to modify from the "product" folder to the corresponding directory in this folder.

Note: Files cannot be deleted from the "product" folder by copying them to the "custom" folder, and deleting them there.

- merged:

This directory contains the merged result of the "product" and "custom" folders. In this directory structure you can check if your adapted files are available in the unzipped archive.

From this directory structure, the final archive will be created in the deploy directory.

Note: When redeploying, changes made in this directory and its subdirectories will be lost.

- deploy:

This directory contains the final archive before it will be deployed.

Note: When redeploying, changes made in this directory and its subdirectories will be lost.

Keeping Customer Adapted Files When Deploying a Hotfix

If you are installing a hotfix, you might get updates for files you have adapted in the past.

To keep the adaptations, do the following:

1. Check for changes in the readme file of the hotfix package.
2. Backup your "product" folder.
3. Install the hotfix.
4. Compare the backup of the "product" folder with the new "product" folder to identify any files which have been changed.
5. If you have modified any of these files in the "custom" folder, then apply the changes to the files in the "product" folder manually.
6. Redeploy the application to activate the changes.

Administrating the Business Service

Business Services are always deployed if a new application is created with the Administration client. Therefore, the availability of the application server is mandatory.

If you want to perform additional changes to the Workflow module, you have to edit the configuration file for the Business Services.

Note: For further information about the Workflow module, please refer to the Workflow Online Help.

To modify the configuration file, you have to perform the steps described in the section Deploying Customer Adapted Files of this document.

Example: Adapt values in "ABS_<application_name>.ini" file of the Business Service.

To modify the configuration file, it can be copied from the "product" directory after the installation. The file is available under: "<ep_root>\staging\product\application\<application_name>\BusinessService\BusinessService.war\WEB-INF\classes".

Save the modified file to the folder:

"<ep_root>\staging\custom\application\<application_name>\BusinessService.war\WEB-INF\classes".

The file that you modified will be used with the next deployment of the Business Service.

The Business Services will connect to the defined database user/schema directly after they are started in the Oracle WebLogic server.

Note: Once this connection is lost, e.g. due to database reboot, due to dropping of the database schema, or due to loss of service, you must restart the Business Service inside the Oracle WebLogic server.

Note: It is also possible to restart the complete Oracle WebLogic server, but all the included services will not be available for that time.

Adapting Business Service Notification Mail Templates

After the first Business Service deployment of a new application, the notification mail templates are unpacked and available under:

<ep_root>\staging\custom\application\<application_name>\BusinessService.war\WEB-INF\lib\abs-notifier-templates\lay\notifier".

All adaptations made to files in this directory, also all new files, will be available after the next deployment of the Business Service. All files and directories below the "abs-notifier-templates" directory will be automatically packed to "abs-notifier-templates-1.0-SNAPSHOT.jar" file, which will be used for the deployment.

Connection Pool for Business Service

For WebLogic, default settings are available for the data source definition and can be customized. To customize them, the following template file has to be edited:

%EP_ROOT%\build\applicationServer\weblogic_121\tpl_app\ear\tpl_eSeriesDataSource-jdbc.xml

Note: For further information about WebLogic, please refer to the respective documentation:

http://docs.oracle.com/middleware/1213/wls/JDBC/ds_annotation.htm

Example for default values for the connection pool:

```
<jdbc-connection-pool-params>
<pinned-to-thread>true</pinned-to-thread>
<initial-capacity>5</initial-capacity>
<max-capacity>150</max-capacity>
<statement-cache-size>100</statement-cache-size>
<statement-cache-type>LRU</statement-cache-type>
<connection-reserve-timeout-seconds>120</connection-reserve-timeout-seconds>
<test-table-name>SQL SELECT 1 FROM DUAL</test-table-name>
</jdbc-connection-pool-params>
```

Note: When configuring the minimum/maximum number of connections (<initial-capacity>), every connection needs a database process. Thus, the database has to have enough processes. Please check the configuration values in file: `tpl_eSeriesDataSource-jdbc.xml` and refer to your database administrator for further details.

Note: Further information about how to increase the performance can be obtained in an Oracle WebLogic training session.

About PLM-API / HTTP(S) Support

Note: Only supported with the Java Client.

PLM-API allows the communication with the Agile e6.2.0.0 application server through firewalls (via HTTP).

For further information on the architecture, refer to the Architecture Guide for Agile e6.2.0.0.

The PLM-API is always deployed if a new Agile e6.2.0.0 server installation is created and can be used for all created applications of the installation. To be able to use the PLM-API, it has to be configured in the Java Client. To use the PLM-API, no changes are required in the configuration of the Oracle WebLogic server.

For further information on how to set up the HTTP(S) support in the Java Client, refer to the section Online Help > Getting Started > Preferences, and the Architecture Guide for Agile e6.2.0.0.

Special Batch Administration Tasks

Prerequisites

Note: Agile e6.2.0.0 has to be installed!

For all batch tasks set the JAVA_HOME environment variable to Java 7 32-bit JDK before you execute setup.cmd/setup.csh in a cmd/csh shell.

Use the installation user of the Agile e6.2.0.0 installation.

Windows	UNIX
Use an administrator cmd shell.	Use a csh shell.
Execute setup.cmd for all batch tasks in: %ALLUSERSPROFILE%\agile\installer\6.2.0	Execute setup.csh for all batch tasks in: \${HOME}/.agile/installer/6.2.0

A properties file ("batch.properties") has to be created in one of the following directories by making a copy of the tpl_installation.properties file and adapting the properties in it:

Windows	UNIX
%ALLUSERSPROFILE%\agile\installer\6.2.0\properties	\${HOME}/.agile/installer/6.2.0/properties

Example:

Windows	UNIX
cd %ALLUSERSPROFILE%\agile\installer\6.2.0 set JAVA_HOME=<java7_home> setup.cmd application.install setup.cmd application.install -propertyfile properties\batch.properties > batch_install.log 2>&1	cd \${HOME}/.agile/installer/6.2.0 setenv JAVA_HOME <java7_home> ./setup.csh application.install -propertyfile properties/batch.properties >& batch_install.log

Note: On UNIX, use different redirector settings for stderr and stdout

Note: After each batch installation task, check the log file.

Create an Application

1. Copy the template properties file installer/properties/tpl_installation.properties to installer/properties/batch.properties.
2. Replace the text in brackets (<CHANGETHIS>) with the values of your application.

You can use different batch properties files for each application.

```
# Defines if the schema will be created (system password also has to be applied
for creating a schema)
plm.application.creschema=true
# Defines if the content of an existing schema will be deleted (Attention: All
objects of the defined schema will be lost)?
plm.application.delschemaobj=false
# Database to import as defined in installation_prop.xml (normally no need to
change this)
plm.application.databasedefinition=oradb
plm.oracle.systempwd=<systempwd>
```

3. After defining the properties, execute (example):

```
setup.cmd application.install -propertyfile properties/batch.properties >
application_install.log 2>&1
```

This will create the application directory and the configuration files in the <ep_root>/init directory. Additionally, if enabled, the schema will be created and the reference dump will be imported.

To deploy the J2EE applications for an Agile e6 application, the following additional steps need to be executed.

1. Create J2EE application domain (example):

```
setup.cmd j2eeappserver.install.domain_app -propertyfile
properties/batch.properties > install_domain_app.log 2>&1
```

2. Deploy J2EE applications (Business Service, Web Services) to domain (example):

```
setup.cmd j2eeappserver.deploy.app -propertyfile properties/batch.properties >
deploy_app.log 2>&1
```

Common Properties for the Redeployment

Each of the following redeployment tasks requires a property file with at least the following content.

1. Create a common Properties file (example):

```
plm.inst.name=<installation_name>
```

Note: Replace <installation_name> with your installation name (e.g. AgileInstallation62).

Note: The following three deployment tasks require additional properties:

- Business Service
 - Web Services
 - Web Development Toolkit
-
-

(Re)Deploying Business Services for an Application

Redeploying a Business Service causes a recreation of the Business Service 'ear' file and the deployment with the configured values as defined in the installation_prop.xml file.

1. Add the following lines to the common properties file (example):

```
plm.application.name=mytest
```

```
j2eeappserver.encryptpwd.encrypted={AES}JoQb6W...
```

Note: The encrypted password

"j2eeappserver.encryptpwd.encrypted" is the database schema password for this application and has to be generated with the WLSencrypt script which is located in the folder: %EP_ROOT%\build\applicationServer\weblogic_121\scripts\

Replace <domain_name>_<application_name> to match your installation, e.g. with eSeries_domain_mytest.

Please be aware that you have to encrypt the password with the correct domain because the password is encrypted with the shared secret of this domain and will not work with another WebLogic domain.

2. Redeploy BusinessService (example):

```
setup.cmd j2eeappserver.deploy.businessservice -propertyfile
properties/batch.properties > deploy_businessservice.log 2>&1
```

(Re)Deploying Web Services for an Application

1. Add the following line to the common properties file (example):

```
plm.application.name=mytest
```

2. Redeploy the Web Service (example):

```
setup.cmd j2eeappserver.deploy.webservices.core -propertyfile
properties/batch.properties > deploy_webservices.log 2>&1
```

(Re)Deploying Web Development Toolkit

Web Development Toolkit is not deployed after default installation. If you want to use it, you have to deploy it first.

Note: This can also be used to redeploy the Web Development Toolkit.

1. Add the following line to the common properties file (example):

```
j2eeappserver.deploy.webdevelopmenttoolkit=true
```

2. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.webdevelopmenttoolkit -propertyfile
properties/batch.properties > deploy_wdt.log 2>&1
```

(Re)Deploying Java Client

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.javaclient -propertyfile
properties/batch.properties > deploy_javaclient.log 2>&1
```

(Re)Deploying Web Presentation Service

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.webpresentationsservice -propertyfile
properties/batch.properties > deploy_wps.log 2>&1
```

(Re)Deploying HTTPSupport (plm-api)

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.httpsupport -propertyfile
properties/batch.properties > deploy_httpsupport.log 2>&1
```

(Re)Deploying Web Fileservice

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.webfileservice -propertyfile
properties/batch.properties > deploy_wfs.log 2>&1
```

(Re)Deploying StreamingFileservices

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.fileservices -propertyfile
properties/batch.properties > deploy_sfs.log 2>&1
```

(Re)Deploying JVue (Agile e6 AutoVue Integration Client Component)

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.jvue -propertyfile properties/batch.properties >
deploy_jvue.log 2>&1
```

(Re)Deploying Vuelink (Agile e6 AutoVue Integration Server Component)

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.vuelink -propertyfile
properties/batch.properties > deploy_vuelink.log 2>&1
```

(Re)Deploying DaemonAdminServlet

1. Redeploy (example):

```
setup.cmd j2eeappserver.deploy.daemonadminservlet -propertyfile
properties/batch.properties > deploy_admsvlt.log 2>&1
```

Cluster Setup for Servers

We support two general ways to deploy Agile e6 software

1. One single J2EE Server on a separate node, hosting the WebLogic and all J2EE components for Agile e6, and an additional set of servers, hosting the native Agile e6 components.
2. A set of servers of which every server hosts a complete set of all Agile e6 server components - J2EE and native components. The nodes are installed in a cluster, e.g. as NLB cluster, and load balancing tools are used to distribute the load to the servers.

Note: For further information, please refer to the Architecture Guide for Agile e6.2.0.0.

One J2EE Server on a Separate Node

The server having the Agile e6 J2EE components installed - the WebLogic server - is separated from the server with the native Agile e6 components - the EDM server.

We highly recommend setting up two WebLogic servers on separate nodes as failover. The server, which will run from beginning, is called the WebLogic node. The second WebLogic node remains inactive as failover server until the main WebLogic server stops working.

Installation

1. Install the WebLogic server nodes.

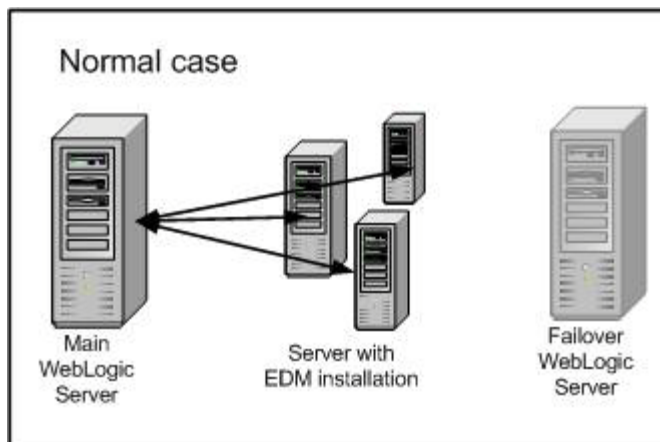
Note: For further information, please refer to chapter Component Based Installation in Server Installation Guide on Windows and UNIX for Agile e6.2.0.0.

2. After completing the installation, stop the failover application server on the failover node.

Note: Make sure it does not start automatically, e.g. by self-customized scripts.

3. After completing the application server installation, install the EDM systems on separate nodes.

4. Configure each of them for the main application server node.



Prepare Failover Configuration in Case of Errors

1. After completing the installation, for each EDM system, copy the application configuration file `<ep_root>/init/<application-name>.xml` and rename it to e.g. `<application-name>-failover.xml`.
2. Edit the renamed file and change the application server entry to mention the failover node with the failover application server.

Example:

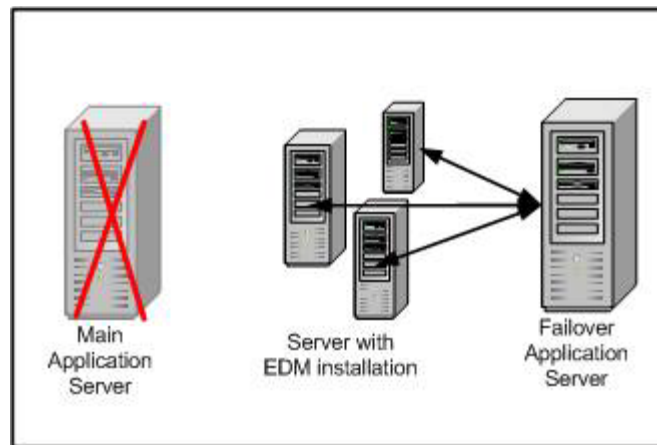
```
<IPC AbsEciUrl="eci://localhost:19997" .... </IPC>
```

In Case of Errors:

1. If the main application server stops and cannot be restarted, start the failover application server on the failover node.
2. Switch to the failover configuration for each EDM system.
 1. Stop the EDM system.
 2. Rename the original configuration file `<ep_root>/init/<application-name>.xml` to e.g. `<application-name>_org.xml`.
 3. Rename the backup configuration file `<application-name>_failover.xml` to `<application-name>.xml`

Note: This file will be used!

4. Start the EDM system.



Note: The switch to the backup application server is done.

Several Application Servers are Active

The 2nd scenario is for a load-balanced cluster with installations of the native Agile e6 components and the WebLogic servers on all nodes. In this case, the Watchdog of the workflow services can only run on one application server. All other Agile e6 J2EE components use the load balancing feature. This includes the cache of the permission managers which will be synchronized over all cluster nodes. After a successful Agile e6 installation, the Watchdog needs to be deactivated on all servers where it is not required, as described below.

Deactivation and Failover for the Workflow Watchdog:

1. Install WebLogic Server and EDM Server on all Nodes.

Note: Further information about the installation can be found in the respective installation manuals for Agile e6.2.0.0.

2. Define the node for the active workflow services.
3. Edit the file "ABS_<application-name>.ini" for all other node(s).
4. Search for:

```
ServiceManager\Nodes\localhost\Threads\K]
className=com.agile.abs.workflow.watchdog.WatchdogService
localThread=true
```

And change it to (comment it):

```
#[ServiceManager\Nodes\localhost\Threads\K]
#className=com.agile.abs.workflow.watchdog.WatchdogService
#localThread=true
```

5. Redeploy all changed applications.

In Case of Errors:

1. If the main application server with the active Workflow service stops and cannot be restarted, remove the commenting in the file "ABS_<application-name>.ini" for one of the other nodes.

2. Redeploy the changed application.

Note: The switch to another application server with an active workflow services is completed.

Manage Synchronization between Permission Manager Instances

In case several permission managers are used, their cache can be automatically synchronized after a defined time period. The synchronization parameters can be configured in "ABS_<application-name>.ini for every node.

- #activate permission manager cache
 - missing entry
 - true = activate caching (default)
 - false = deactivate caching
 - prmCache=true

To enable caching, set prmCache=true (default). In case the prmCache entry is missing in the ABS...ini file, the cache is activated by default.

To disable caching, set prmCache=false.

- #period to check/synchronize the cache of several permission manager
 - null

prmPeriod=0:10

The prmPeriod defines the time between two checks of the prm time stamp on the data base. If something relevant happened for permission manager in that period, the prm time stamp was changed on database. The value is formatted in hours:minutes (Format: hh:mm). The default is 10 minutes.

Note: After the update, the changed application has to be redeployed.

RAC Support

This section describes necessary modifications of an Agile e6.2.0.0 installation, including deployed Business Services, to support a RAC database.

Note: For more information about RAC architecture, please see also the Architecture Guide for Agile e6.2.0.0

We recommend performing the RAC database setup, and Agile e6.2.0.0 adaptations with the help of an Oracle consultant.

Prerequisites

1. RAC database is running.
Oracle consulting has reviewed and approved the RAC database installation.
2. Necessary changes in tnsnames.ora and sqlnet.ora on the Oracle client side, where the EDM server is running, are carried out.
3. Oracle WebLogic server is installed and running.
4. Follow the installation instruction for Agile e6.2.0.0 as described in the Server Installation Guide on Windows and UNIX for Agile e6.2.0.0.
5. For the RAC support, the following needs to be changed:
 - In the "Reference Configuration" mask you have to provide the following entries:
 - As "SQLNet Connect" add the net alias for your RAC database in tnsnames.ora.
 - As SID select the SID of one of the instances of your RAC database.
 - As "Host Name" add the IP address/hostname where this instance is running.

The following screenshot shows an example configuration.

6. Continue the installation instruction for Agile e6.2.0.0 as described in the Server Installation Guide on Windows and UNIX for Agile e6.2.0.0.
7. Please adapt the configuration for the data source definition to benefit from the Fast Connection Failover (FCF) feature.

If an instance is down, the J2EE components will continue to work normally using any other available instance of the RAC database.

Note: Please review the process described in chapter Deploying Customer Adapted Files.

8. Copy the original file from the "product" folder to the related "custom" folder:

```
<ep_root>/staging/product/application/<application_
name>/BusinessService/META-INF/eSeriesDataSource_<application_name>.xml
```

To:

```
<ep_root>/staging/custom/application/<application_
name>/BusinessService/META-INF/eSeriesDataSource_<application_name>.xml
```

9. Change the file as shown in this example.

```
<name>eSeriesDataSource_yin_app</name>
<jdbc-driver-params>
  <url>jdbc:oracle:thin:@rac-scan.example.com:1521/plm62</url>
  <driver-name>oracle.jdbc.pool.OracleDataSource</driver-name>
  <properties>
    <property>
      <name>user</name>
      <value>plm62</value>
    </property>
    <property>
      <name>FastConnectionFailoverEnabled</name>
      <value>true</value>
    </property>
    <property>
      <name>ConnectionCachingEnabled</name>
      <value>true</value>
    </property>
  </properties>
```

```

    </properties>
    <password-encrypted>XXX</password-encrypted>
</jdbc-driver-params>
<jdbc-connection-pool-params>
  <initial-capacity>5</initial-capacity>
  <max-capacity>100</max-capacity>
  <connection-reserve-timeout-seconds>10</connection-reserve-timeout-seconds>

<inactive-connection-timeout-seconds>1800</inactive-connection-timeout-seconds>
  <test-table-name>SQL SELECT 1 FROM DUAL</test-table-name>
</jdbc-connection-pool-params>
<jdbc-data-source-params>
  <jndi-name>eSeriesDataSource_yin_app</jndi-name>
  <global-transactions-protocol>OnePhaseCommit</global-transactions-protocol>
  <scope>Application</scope>
</jdbc-data-source-params>
<jdbc-oracle-params>
  <fan-enabled>true</fan-enabled>
  <ons-node-list>db1.example.com:6200,db2.example.com:6200
  </ons-node-list>
</jdbc-oracle-params>

```

10. Redeploy Business Service.

Limitation

The Agile e6 Configurator application uses a special connection which connects only to the instance provided in the "Reference Configuration" mask. If this instance is down, then the Configurator will not work anymore. If you use the Configurator, you must adapt the connection information for the Configurator to connect to a running database instance.

Note: This limitation is only valid for the Agile e6 Configurator. All other applications (e.g. Workflow, Permission Manager) support the RAC database.

Predefined Java Client Connection Settings

When starting the Agile e6 Client, the following connection settings can be passed:

```
-a <Application Name>
-h <Host Name>
-d <Daemon number>
-p <ECI port>
-u <PLM Username>
-l <logintype>
-f <flag for login dialog>
-t <task>
-home <home directory>
-imageRoot <url>
-imageDir <dir>
-defaults <file|URL>
```

Java Client Native Installation Windows example:

1. Open properties for the shortcut "Agile e6.1 Java Client.lnk" in "C:\Documents and Settings\All Users\Start Menu\Programs\"
2. At the end of the "Target" attribute, add the connection setting you want to use e.g.:
3. It is also possible to edit the "jacc.cmd" file in "C:\Documents and Settings\All Users\Application Data\Oracle\Agile\EDM" and to add the setting there. Search for the line which ends with

```
...com.agile.jacc.e6.Jacc %*"
```

and replace this with e.g.:

```
"...com.agile.jacc.e6.Jacc %* -a < Application Name > -h <Host name>..."
```

Example - Java Client WebStart:

1. If not yet available, copy "<ep_root>\staging\product\installation\JavaClient\jacc.defaults" to "<ep_root>\staging\custom\installation\JavaClient\jacc.defaults".
2. Adapt the properties you need in "<ep_root>\staging\custom\installation\JavaClient\jacc.defaults":

jacc.node, jacc.port, jacc.app

Java Client Remote Site Definition

The client variable EP_DDM_SITE is used to configure the DFM client location. In addition, the system allows configuring the client location for the Agile e6 AutoVue Integration - EP_PVM_SITE.

Note: For more information about EP_PVM_SITE, see the AutoVue Integration Installation and Administration Guide for Agile e6.2.0.0 (Chapter: Configuring Multiple Location Support).

To configure the Java Client to start with a specific DFM/PVM site, you have several options.

Note: The PVM configuration only needs to be performed when using the Agile e6 AutoVue Integration.

Configure Local Installed Java Client

1. Edit the file "jacc.cmd" in "C:\Documents and Settings\All Users\Application Data\Oracle\Agile\EDM" and to add the setting there, search for the line where "javaw" is executed and add e.g.: -DEP_DDM_SITE="ka" (for AutoVue: -DEP_PVM_SITE="ka"). The line looks like:

```
" "%JAVA_HOME%\bin\javaw.exe" %VM_OPTS% -Djacc.home="%APPDATA\e61" -DEP_DDM_SITE="mu" (for AutoVue: -DEP_PVM_SITE="mu" )..."
```

OR

1. Add the following to file jacc.ini in \$APPDATA\Agile\e61\:

- EP_DDM_SITE=de
- For AutoVue: EP_PVM_SITE=de

For example:

"C:\Documents and Settings\<username>\Application Data\Agile\e61\jacc.ini.

The jacc.ini file is available after the first execution of the Java Client.

Note: Do not edit the file while the client is running, or your settings will be overwritten.

OR

1. Set the environment variable EP_DDM_SITE=de (for AutoVue: EP_PVM_SITE=de) on the client machine application.

Note: When using the client environment variable, the variable EP_DDM_SITE=de (for AutoVue: EP_PVM_SITE=de) has to be removed from the file jacc.cmd and jacc.ini.

Configure WebStart Java Client

1. If not yet available, copy "<ep_root>\staging\product\installation\JavaClient\jacc.defaults" to "<ep_root>\staging\custom\installation\JavaClient\jacc.defaults".
2. Open "<ep_root>\staging\custom\installation\JavaClient\jacc.defaults" and change the lines:
 - EP_DDM_SITE=de
 - For AutoVue: EP_PVM_SITE=de
3. Deploy the WebStart Java Client.
OR
4. Set the environment variable EP_DDM_SITE=de (and/or for AutoVue: EP_PVM_SITE=de) on the client machine application.

Note: When using this option, the variable EP_DDM_SITE (and/or for AutoVue: EP_PVM_SITE) has to be removed from the jacc.defaults file.

Configure WebStart Java Client for Multiple Remote Locations

As described, it is possible to setup the EP_DDM_SITE, and for AutoVue EP_PVM_SITE, in the jacc.defaults file within the WebStart Java Client deployment. If more locations should use the central WebStart Java Client deployment, a different EP_DDM_SITE (and for AutoVue: EP_PVM_SITE) configuration has to exist in the same deployment.

In the following example, the EP_DDM_SITE (and for AutoVue: EP_PVM_SITE) are "de" and "us".

1. If not yet available, copy "<ep_root>\staging\product\installation\JavaClient\jacc.defaults" to "<ep_root>\staging\custom\installation\JavaClient\jacc_de.defaults".
2. Open "<ep_root>\staging\custom\installation\JavaClient\jacc_de.defaults" and change the EP_DDM_SITE to EP_DDM_SITE=de (and for AutoVue: EP_PVM_SITE to EP_PVM_SITE=de).
3. If not yet available, copy "<ep_root>\staging\product\installation\JavaClient\jacc.jnlp" to "<ep_root>\staging\custom\installation\JavaClient\jacc_de.jnlp".
4. Open "<ep_root>\staging\custom\installation\JavaClient\jacc_de.jnlp" and change the codebase like this:


```
<!--URL to jacc.defaults, standard is to look at the codebase -->
<argument>-defaults</argument><argument>$$codebase/jacc_de.defaults.</argument>
```
5. If not yet available, copy "<ep_root>\staging\product\installation\JavaClient\jacc.defaults" to "<ep_root>\staging\custom\installation\JavaClient\jacc_us.defaults".
6. Open "<ep_root>\staging\custom\installation\JavaClient\jacc_us.defaults" and change the EP_DDM_SITE to EP_DDM_SITE=us (and for AutoVue: EP_PVM_SITE to EP_PVM_SITE=us).

7. If not yet available, copy "<ep_root>\staging\product\installation\JavaClient\jacc.jnlp" to "<ep_root>\staging\custom\installation\JavaClient\jacc_us.jnlp".
8. Open "<ep_root>\staging\custom\installation\JavaClient\jacc_us.jnlp" and change the codebase like this:

```
<!--URL to jacc.defaults, standard is to look at the codebase -->  
<argument>-defaults</argument><argument>$$codebase/jacc_us.defaults.</argument>
```
9. Deploy the WebStart Java Client.

Note: With this configuration, the user at site "de" can now use the central WebStart Java Client with the URL for the jacc_de.jnlp file and the user at site "us" is using the jacc_us.jnlp file.

Example: `http://server:port/Jacc/jacc_de.jnlp`

`http://server:port/Jacc/jacc_us.jnlp`

Verify DFM Configuration

1. To verify the current Java Client EP_DDM_SITE (for AutoVue: EP_PVM_SITE) setting, create a LogiView Procedure with the following line:
 - `put (client_env ("EP_DDM_SITE"))`
 - For AutoVue: `put (client_env ("EP_PVM_SITE"))`
2. Execute the LGV procedure. If the setup is correct you will see the defined site as output in your client message window.

Java Daemon

The Java Daemon has to start and manage EDM Server processes. In case of a client call, it has to start a new server process if no matching server process is already running. If a matching server process is already running, it has to return the server's address. When the client terminates, and if no other client is connected to the same EDM Server process, the Java Daemon has to shutdown the EDM Server process.

The Java Daemon also has to manage all running EDM Server processes, i.e. check if there is still a connection between an EDM Server process and one or more clients. The Java Daemon always has to be able to accept a new client.

Note: The Java Daemon Administration Tool or Plugin is an administrator tool only!

Daemon Configuration File jade.ini

During Agile e6 installation, the Daemon configuration file jade.ini will be installed under <ep_root>/axalant/ini.

During installation, the administrator sets the password for the Daemon Controller. If the password needs to be changed, it has to be changed manually in the configuration file jade.ini.

Note: Password has to be encrypted.

Java Daemon Plugin

Note: The Java Daemon Administration Tool is available in English only!

To be able to use the Java Daemon Administration Tool, it has to be activated first.

Activate Java Daemon Administration Tool

1. Start Agile e6.
2. Click the Change the preferences of the application button.



The Agile e6 - Preferences Mask is opened.

3. Select Plugins.

The Plugins window on the right hand side displays all available plugins.

4. Select the Daemon plugin.
5. In the Load column, select the checkbox for the Daemon plugin.
6. Click Apply.
7. Click OK.

Note: To make the changes operative, restart Agile e6.

After the restart, the Opens the Java Daemon administration tool button is displayed.

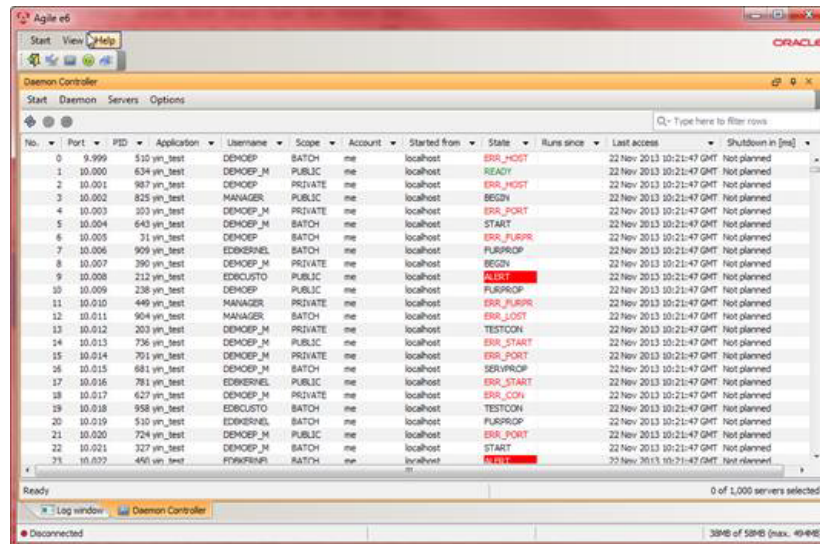
Connect to the Java Daemon

1. In Agile e6, click the button.

The Daemon Controller window opens at the bottom of the screen.
2. In the Daemon Controller window, click Start.
3. Select Connect to daemon...

The Connect to daemon window is opened.
4. Enter your information in the fields:
 - Daemon on host:
 - Port number
 - Daemon password
5. Click Connect.

In the Daemon Controller screen, a list of all servers is displayed.



COLUMN NAME	DESCRIPTION
-------------	-------------

No.	Amount of servers.
Port	Port number between server and client.
PID	PID of the server process started on this machine.
Application	Name of the application used by the server.
Username	Name of the Agile e6 user who is using the server process.
Scope	Three scopes are possible: <ul style="list-style-type: none"> ■ Private Connection between one client and the server. ■ Batch Batch connection between client and server. ■ Public Connection between multiple users and the server.
Account	Account name of the user on the client machine.
Started from	IP address of the client.

COLUMN NAME	DESCRIPTION
State	<ul style="list-style-type: none"> ■ BEGIN Begin of initialization. ■ FREEPORT Reserved a free port. ■ SERVPROP Server Properties set up. ■ START Started Start command. ■ TESTCON Established test connection. ■ FURPROP Set further properties (VIEW, LANGUAGE). ■ READY In ready state. ■ BUSY Busy (blocked by a long running call). ■ CHECK Check (getting number of connections). ■ ERR_HOST Error: Could not get the host address. ■ ERR_STORE Error: Could not store the new AxalantServer. ■ ERR_PORT Error: Could not get a free port. ■ ERR_START Error: Could not execute start command successfully. ■ ERR_CON Error: Could not create connection to server. ■ ERR_FURPR Error: Could not set further properties (VIEW, LANGUAGE). ■ ERR_LOST Error: Server lost. ■ ALERT Alert (may be lost).
Runs since	Time server was started.
Last access	Last time the client and the server connected to each other and exchanged data.
Shutdown [ms]	Shutdown in ms if a public server is no longer in use.

Working with the Daemon Controller

The following functionalities are available:

- Double-clicking the Daemon Controller window banner

By double-clicking the window banner, the Daemon Controller can be extended over the complete Agile e6 window. Or it can be reduced to the bottom of the Agile e6 window.

- Search

- General filter

The general filter allows filtering rows for the entered search term.

- Column filter

Every column in the Daemon Controller has a filter functionality. Each column filter lists all terms available in the respective column.

- Administration of the server

You can administer the servers from:

- Servers menu

- Context menu

- Toolbar buttons

All three options allow to:

- * Refresh

Refreshes the server list.

- * Information

Additional server information can be displayed for one or more selected rows.

When selecting more than one server, the information in the Server Information window is displayed below each other.

Note: The information in the Server Information window is read only!

- * Shutdown server

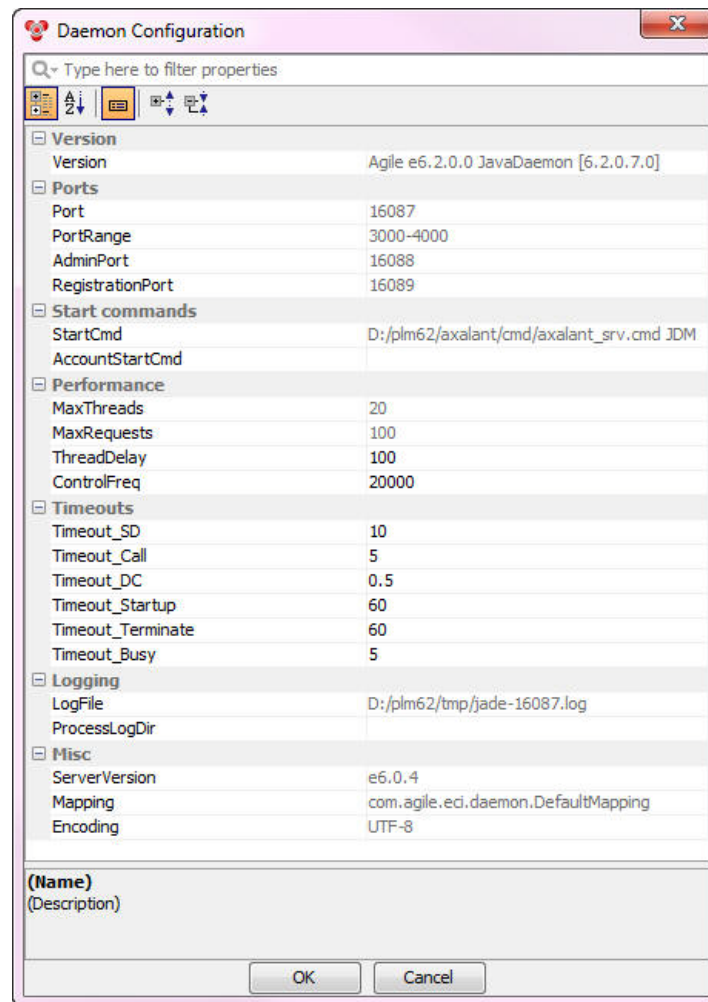
This option shuts down the selected server, but not the Java Daemon.

Configuring the Daemon

1. To open the Daemon Configuration, open the Daemon menu.

2. Select Configuration.

The Daemon Configuration screen is opened.



- The Daemon Configuration window displays the current Java Daemon configuration and allows modifying certain properties.
- By highlighting a property, its description is displayed in the description area.
- The search field at the top of the window offers comprehensive search functionality.
- At the top, the following display buttons are available:
 - Categorized
Displays the properties in categories.
 - Alphabetic
Displays the properties alphabetically.
 - Show /Hide Description Area
Shows or hides the description area at the bottom of the window.
 - Expand
In the Categorized view, expands the categories.
 - Collapse
In the Categorized view, collapses the categories.

- Every property value that is not grayed out, can be changed.
 1. Double-click the respective value.
 2. Enter new value.
 3. Click OK.

Note: Modifications are only valid for the current session and are not stored in the Daemon configuration file jade.ini. After shutting down the Daemon, these changes are lost.

Refresh Frequency Rate

The Daemon Controller allows setting a new time value for refreshing the server list. This value defines after which time interval the server will be refreshed.

Note: The new value is only valid on the used client machine and will be stored in the local Java configuration file jacc.ini. After a restart of the client, the changed value is still valid.

Note: Default refresh frequency rate = 60000

1. Open the Options menu.
2. Select Properties.

The Set daemon controller properties screen is opened.
3. Select Server list refresh frequency (milliseconds).
4. Enter a value.
5. Click Set property.

Disabling and Enabling the Daemon

The administrator can disable the Java Daemon, so no new server can access the Daemon. Requests from clients to access the respective server are denied, and the user receives an error message.

To disable the Daemon:

1. Open the Daemon menu.
2. Select Disable.

To enable the Daemon:

1. Open the Daemon menu.
2. Select Enable.

Shutdown Daemon

1. Open the Daemon menu.
2. Select Shutdown.

The Shutdown daemon window is opened.

There are two options how to shutdown the Daemon:

- Shutdown all servers

The Daemon and all EDM server processes, that are managed by the Daemon, will be shutdown.

- Keep all EDM servers running

Only the Daemon will be shutdown. The EDM server processes continue running.

3. Select a shutdown option.
4. Click Shutdown.

Displaying Images with the WebStart Java Client

In case you want to display your own images in the WebStart Java Client, make sure the images or icon file names are all written in lower case as otherwise, they won't be displayed correctly. The WebStart Java Client gets the images from the Web server in which the files are case sensitive.

Agile e6 AutoVue Integration - Memory Settings

In some cases it is necessary to increase the available memory for the Agile e6 AutoVue Integration. By default, 512 MB are assigned.

Local Installation (MSI)

To change the memory settings for the locally installed deployment (JVue.msi) for the Agile e6 AutoVue Integration, perform the following:

1. Edit the file `jvue.cmd` in "C:\Documents and Settings\All Users\Application Data\Oracle\Agile EDM" and change the following line:

```
set VM_OPTS=-Xmx512M
```

Note: Default size is 512 MB. Because the Agile e6 AutoVue Integration uses a 64-bit JVM, you can provide several GB to the Agile e6 AutoVue Integration.

If you request more memory than the system can provide, the Agile e6 AutoVue Integration will not work!

Example to provide 4GB to the Agile e6 AutoVue Integration:

```
set VM_OPTS=-Xmx4096M
```

WebStart

To change the memory settings for the WebStart deployment (JVue.war) for the Agile e6 AutoVue Integration, perform the following:

1. Copy the original file `jvue.jnlp` from the directory: `%EP_ROOT%\staging\product\installation\JVue` to `%EP_ROOT%\staging\custom\installation\JVue`
2. Edit the following line in the file `jvue.jnlp` to change the available memory:

```
<j2se version="1.7" max-heap-size="512m"/>
```

Office Suite - PDF Generator Installation

Note: Further information about how to install the Office Suite can be found in the Client Installation Guide on Windows for Agile e6.2.0.0.

One main feature of the Office Suite is the PDF generation from a MS Office file. The Office Suite supports a PDF printer to convert Office documents into PDF files.

The Office Suite PDF Service is a MS Windows Service and does not need any GUI.

Installation

Note: The installation package of the Office Suite PDF Service is located in the packages directory and named officesuitepdf.zip.

The zip file is contained in the officesuitepdf.zip installation package, located in the packages folder of the installation medium.

1. Copy the Office Suite PDF Generator installation package (officesuitepdf.zip) from the packages folder of the installation medium into a temporary directory.

Example:

```
copy y:\packages\officesuitepdf.zip c:\temp
```

2. Extract the installation package.

This unpacks the Agile e6.2.0.0 Office Suite PDF Generator ZIP archive into the axalant\bin\java subdirectory of your temporary directory.

Example:

```
unzip c:\temp\officesuitepdf.zip -d c:\temp
```

3. Extract the Agile e6.2.0.0 Office Suite PDF Generator package into the installation directory.

Example:

```
unzip c:\temp\axalant\bin\java\officesuitepdf.zip -d"c:\Program Files (x86)\Agile e6".
```

The installation package contains the following directories:

- PDF Service Root (C:\Program Files (x86)\Agile_e6\Office-Suite-PDF)
 - axalant

- bin
 - intel-ms-nt6.1 (FMS Client binaries)
 - java (Java archives)
 - cmd (Windows scripts directory)
 - ini (Configuration files)
 - pdf (PDF service files)
 - scripts (UNIX scripts)
- ext
 - bin
 - intel-ms-nt6.1 (external binaries)
 - java (external Java archives)
 - tmp (Logging directory)

4. Adapt the installation.

You need to adapt the startup script to setup the 32bit Java Runtime and the installation path of the Office Suite PDF Service. The script is located at the ... \axalant\cmd subdirectory of the installation.

The pdf.bat script contains the following basic configuration settings:

```
set JAVA_HOME=<JAVA_HOME>
set ep_root=<ROOT DIRECTORY OF THE OFFICE SUITE PDF SERVICE>
```

Example:

```
set JAVA_HOME=C:\Program Files (x86)\Java\jre
set ep_root=C:\Program Files (x86)\Agile_e6\Office-Suite-PDF
```

5. Adapt the service settings.

The OfsPdf.properties file is located at the axalant/pdf subdirectory of the installation. The file sets the environment variables needed to start and stop the Office Suite PDF Service.

The following properties have to be adapted.

Note: The other properties should not be changed.

```
#
# ECI connection
#
host=<PLM host>
port=<PLM port>
env=<PLM env>
scope=BATCH
#
# Client modes to define widget behaviours on client side.
# the valid values are: BATCH, TEST
#
# BATCH: no widgets will be opened on client side.
# TEST: widgets will be opened on client side virtually.
#
mode=BATCH
```

```
#
# Directories
# <ROOT DIRECTORY OF THE PDF SERVICE> e.g. C:/Program Files (x86)/Agile_
e6/Office-Suite-PDF
# <PDF WORK DIRECTORY OF THE PDF SERVICE> e.g. C:/officesuite/PDF
#
varenv.DATAVIEW_CROO=<ROOT DIRECTORY OF THE PDF SERVICE>/axalant/bin/${e6_
windows_client_ep_mach}
varenv.ep_root=<ROOT DIRECTORY OF THE PDF SERVICE>
varenv.axalant_root=<ROOT DIRECTORY OF THE PDF SERVICE>/axalant
varenv.$TMP=<PDF WORK DIRECTORY OF THE PDF SERVICE>
#
# Host names
#
varenv.CLI_HST=pdfsrv
varenv.CLI_SRV=<PLM host>
#
# machine ID
#
varenv.EP_MACH=${e6_windows_client_ep_mach}
varenv.CLI_HWS=${e6_windows_client_ep_mach}
#
# Security settings
#
Security.KeyStoreFile=file://<ROOT DIRECTORY OF THE PDF
SERVICE>/init/wallet/private/batch/cwallet.sso
Security.KeyAlias=orakey
#
# PLM Client
#
client1=<PLM user>,<PLM password>,office.pdf.OfsPdf
```

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.

Note: The PDF work directory has to be created and entered in the EDM Server configuration, PDF Service, and the PDF printer.

Office Suite PDF Service

Note: Please refer to the Security Guide chapter Manual Creation of Wallets for adding a wallet.

The Office Suite PDF Service uses the same mechanism as the Java Daemon to install, remove, start, and stop the service.

It can be either installed as a Windows service or run as a console application.

Installing Office Suite PDF Service as a Windows Service

Note: The PDF Generator can be installed with the Agile e6 Installer tool for Windows. After the PDF Generator is installed, an extra service is added to the services list. Agile EDM Office Suite PDF (Control Panel > Administrative Tools > Services).

The Agile EDM Office Suite PDF service is a MS Windows service and does not need any GUI.

The configuration of the Windows service registration can be found in the pdf_wrapper.conf file which is located in the ...\\axalant\\pdf subdirectory 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=Agile EDM Office Suite PDF Service

# Display name of the service
wrapper.ntservice.displayname=Agile EDM Office Suite PDF Service

# Description of the service
wrapper.ntservice.description=PDF Generator for Agile EDM

# 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 Office Suite PDF service as Windows service use the pdf.bat command script located in the ...\\axalant\\cmd subdirectory of the installation.

```
pdf.bat -i
```

Remove the Service

To uninstall the Office Suite PDF service as Windows service, use the pdf.bat command script located in the ...\\axalant\\cmd subdirectory of the installation.

```
pdf.bat -r
```

Run as Console Application

To run the Office Suite PDF service as console application, use the pdf.bat command script located in the ...\\axalant\\cmd subdirectory of the installation.

```
pdf.bat -c
```

Configuration

The Office Suite needs some information to access the PDF printer and to exchange the files.

Printer Setup

The PDF printer has to fulfill the following prerequisites:

- Generate PDF file without user interaction (pure batch printing).
- Configurable PDF output folder.
- Possibility to create a <PDF-Filename>.log file in the PDF output folder, after PDF file creation.

Note: The PDF output folder is the exchange folder between the PDF printer and Agile e6.

Note: Any folder can be used, but the configuration of the PDF printer has to match the configuration of the Agile EDM Office Suite PDF service.

Post PDF Creation Script

Prerequisite for PDF printer is the <PDF-filename>.log file creation (see above) in the PDF output folder. This file is the "Ready" file for the batch client to trigger the PDF file check in.

If your PDF printer does not create a <PDF-filename>.log file per default, there often exists the possibility to execute an application after printing. This could be used to create the <PDF-filename>.log file. It must be possible to set the filename "<PDF-filename>.log" as a parameter. The following steps describe the general setup of such a mechanism.

1. Create a file "createlog.bat" in the PDF output folder which looks like this:

```
set FILENAME=%~n1
set FILEPATH=%~dp0%
echo Done > "%FILEPATH%/%FILENAME%.log"
```

2. Configure your PDF printer to execute the Windows cmd shell (e.g.: C:\\WINDOWS\\system32\\cmd.exe) with the following parameters (e.g %f is the file name parameter) :

```
/c C:\\officesuite\\pdf\\createlog.bat %f
```

Setting up the PDF Printer

To setup the PDF printer

1. Start Agile e6.
2. Open menu Manager > Office Suite > PDF Printer.
3. Select the PDF printer from the printer list.
4. When you select the PDF printer, the following Office Suite configuration parameters are added to the Office Suite configuration table (System > OfficeSuite > Configuration table):

- GDM_PDF_BATCH
- GDM_PDF_DIRECTORY

The value of this configuration parameter has to be the same as the value for TEMP in the OfsPdf.properties file. Add "\"*.pdf" at the end of it.

- GDM_PRINTER
- GDM_PRINTER_DRIVER
- GDM_PRINT_PORT

Note: GDM_PRINTER, GDM_PRINT_DRIVER, GDM_PRINT_PORT are set automatically.

Note: This is a section of the OfsPdf.properties file:

```
host=<PLM host name>
port0=<PLM eci port>
env=<PLM environment name>
varenv.ep_root=<PDF service root>
varenv.axalant_root=<PDF service binary root>
varenv.EP_MACH=intel-ms-nt6.1
varenv.CLI_HWS=intel-ms-nt6.1
varenv.CLI_HST=<Client host name>
varenv.CLI_SRV=<PLM host name>
varenv.$TMP=<PDF file exchange folder>
client1=<Connect information>
```

5. The value for the Office Suite configuration parameter GDM_ARC_NOD has to be the same as the value for varenv.CLI_HST in the OfsPdf.properties file.
6. In the OfsPdf.properties file, the following has to be set:
 - host (e.g. edmhost)
 - port (e.g. 20001)
 - env (e.g. edmref)
7. In the OfsPdf.properties file, the correct user has to be entered under "client1".
8. Link the PDF Generator to a lifecycle:

The PDF Generator has to be linked to the respective transition states for the STD-DOC lifecycle. The Office Suite provides a LogiView procedure

(GdmBatch/Archiv) to add a job into the PDF job list. This LogiView procedure is a transition procedure for the usage within the lifecycle of the Office document.

The following transition settings can be used:

Field	With change management	Without change management
From	220	120
State (From)	Approved	In Approval
To	230	230
State (To)	Release	Released
System	X	
For Change Management	X	
Pre-Action	xedbusr_tor_rr_vr	xedbusr_chk_no_obj_ews & xedbusr_tor_rr_vr & sig_cre_sgn
Post-Action	xedbusr_tor_sa_uv & xchg_prd_unt_poa & GdmBatch/Archiv	xedbusr_tor_sa_uv & xedbusr_rst_prd(260) & GdmBatch/Archiv

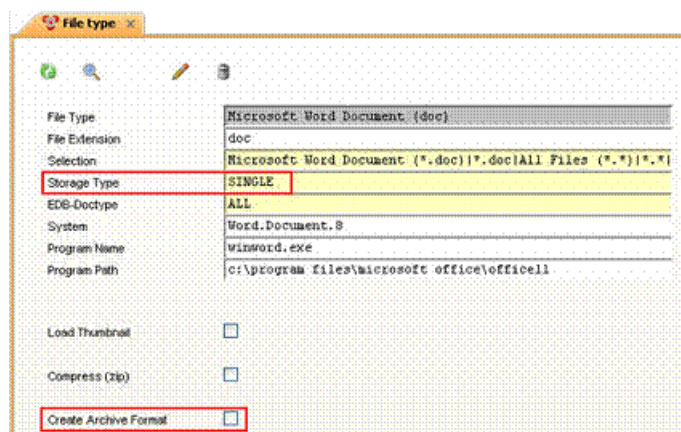
Thus, when an Office Suite document reaches this state, a PDF is created automatically.

9. Add "GdmBatch/Archiv" to the respective states in the Lifecycle mask.

Note: After updating the lifecycle states, the client needs to be restarted.

10. For every file type, for which a PDF should be created, the 'Create Archive Format' checkbox has to be selected in the File type mask (System > Office Suite > File Types).

Note: The PDF generation can only be used for file types of the storage type Single.



Configure the Agile EDM Office Suite PDF Service

The Agile EDM Office Suite PDF Service does require some information about the local application, e.g. the exchange file between the PDF printer and Agile e6.

The configuration file of the Agile EDM Office Suite PDF Service has corresponding settings within the Agile e6 Office Suite configuration (System > Office Suite > Configuration).

The configuration table describes the settings of the configuration file of the Agile EDM Office PDF Service and the configuration settings of the EDM Office Suite configuration.

Office Suite configuration for the PDF service:

Variable	Value	Description
GDM_ARC_NOD	Hostname of the PDF Service machine (e.g. pdfsrv)	Host on which the PDF files are created (PDF batch client)
GDM_PDF_BATCH	RUN	Control parameter of the job 'PDF Generation'
GDM_PDF_DIRECTORY	PDF exchange directory (e.g. C:\officsuite\PDF_generation*.pdf)	Working file of the PDF generator (including absolute path and generic file name)

Runtime

The Agile EDM Office Suite PDF Service can be started via the Windows service manager. The service connects to an EDM Server and starts the LogiView procedure GdmBatch/Spooler to process the PDF job list.

Printing Configuration

Lightweight Reporting

Note: For further information regarding Lightweight Reporting please refer to the Online Help > Getting Started documentation.

Userexit pri_wdg

Note: For further information regarding the userexit pri_wdg please refer to the Online Help > DataView documentation.

Setting Up the Online Help

To make the Online Help available in the Java and Web Client, complete the following steps:

Note: The following configuration parameters are not supported by standard help, but could still be used for customer specific help:

- EDB-HLP-MASK
 - EDB-HLP-MASK-MSH
 - EDB-HLP-PATH
 - EDB-HLP-PATH-EDBKERNEL
-

1. In your Agile e6 installation folder, create the directory structure ".\axalant\htd\htdocs\axalant\doc_ep\eng".
2. Download the Online Help for Java and Web Client from the Oracle Technology Network website:
<http://www.oracle.com/technetwork/documentation/agile-eseries-098047.html>
 1. For Agile e6.2.0.0, click on the link HTML.
 2. Download the documentation package Online Help for Agile e6.2.0.0 (Java/Web Client).
 3. Save the zip file into the directory ".\axalant\htd\htdocs\axalant\doc_ep\eng".
3. Extract the zip file into the ... \eng directory.

On UNIX use unzip, and on Windows use Winzip or 7zip to extract the file.

Note: The zip file is only available in English. If the dump language is set to German, create a directory structure ..\doc_ep\ger and extract the zip file in the "ger" directory. If the dump language is set to French, create a directory structure ..\doc_ep\fr and extract the zip file in the "fr" directory.

4. Copy the "axalant" folder, which is located under the htdocs folder, to a Web Server of your choice. Copy the axalant folder directly below your document root of your Web Server.

Example:

1. Use the HTTP server of your Admin Server installation (Apache Tomcat) located under:

Windows:

%ALLUSERSPROFILE%\agile\installer\6.2.0\admin

UNIX:

\$HOME/.agile/installer/6.2.0/admin.

2. Navigate to the directory "webapps".
3. Create a new directory "help".
4. Copy the "axalant" folder, which is located under the htdocs folder, to the "help" folder.
5. Log in to Agile e6 as a manager user (e.g. edbcusto, demoep_m).
6. Select System > Other Parameters.
7. In the configuration mask, search for rubric EDB-HLP and select the folder Configuration parameter.
8. Set the documentation root EDB-HLP-ROOT to:

`http://<http server name>:<http port>/help/axalant/`

The program adds /doc_ep/eng/ or /doc_ep/ger/, depending on which language is active, followed by the index file name index.html.

■ English:

`http://<http server name>:<admin http port>/help/axalant/doc_ep/eng/index.html`

■ German:

`http://<http server name>:<admin http port>/help/axalant/doc_ep/ger/index.html`

On UNIX Systems, Agile e6.2.0.0 starts Mozilla as a default. If the browser is not defined, follow the steps below:

1. Select Manager > External Applications to specify different browsers on different operating systems and client nodes.

This is where the default browsers for each available UNIX System are defined. For Microsoft Windows the default system HTML browser is used.

2. Copy the line for your hardware architecture and insert the hostname and browser name.

Note: Make sure that all of the following are true:

- File type is equal to HTML
- Mode is equal to H (help)
- "-" is a wildcard and means every possible value (like *)

Using WebLogic Server

The WebLogic Server can be used to provide the Online Help. In WebLogic you can develop a simple Web application to display static HTML content.

1. Download the Online Help for Java and Web Client from the Oracle Technology Network website:

<http://www.oracle.com/technetwork/documentation/agile-eseries-098047.html>

- a. For Agile e6.2.0.0, click on the link HTML.
- b. Download the documentation package Online Help for Agile e6.2.0.0 (Java/Web Client)

2. Save the zip file into a new directory, e.g. online_help.

3. Extract the zip file in this directory.

On UNIX use unzip, and on Windows use Winzip or 7zip to extract the file.

4. Login to the WebLogic Console and deploy the online_help directory as an application.

5. Click Deployments.

6. Click Lock & Edit.

7. Click Install and set the path to the directory created in step 2.

8. Click Next.

9. Select a Managed Server to deploy to and click Next.

10. Accept the defaults and click Finish.

The deployment completes successfully.

11. Click Activate Changes.

DFM Web Service Configuration

DFM is supported with the Web Service interface. The DFM Web Service configuration is performed in the database, thus the web deployment of the DFM Web Service is simplified. The configuration has to be performed before starting the Document Management Web Service.

In Agile e6 on the FMS-Vault mask, configuration information for the FMS Java Daemon can be added:

- FMS Daemon Host
- FMS Daemon Port.

The DFM Web Service configuration for the different DFM sites, including the main Web Logic server(s), are managed by using site specific configuration parameter.

Note: Please be aware that these configuration parameter need to be created by an Administrator first.

- EDB-WSI

EDB-WSI is the main rubric for the DFM Web Service configuration, and it contains the default Web Service URLs for the Web Logic server and the default DFM sites.

- EDB-WSI-URL

URL of the CoreServices deployed in the application domain of the Web Logic Server.

If necessary, the configuration parameter EDB-WSI-URL can be adapted site specific. It usually points to the central Web Logic installation for all DFM locations.

- EDB-WSI-DFM-URL

URL of the StreamingFileService which is deployed in the installation domain of the Web Logic Server.

The configuration parameter EDB-WSI-DFM-URL can be adapted site specific for the different DFM location.

Environment Configuration Parameters

Each EDM Server process has an environment, which is set on startup. An Agile e6 application consists of environment variables which are set through shell scripts and additional configuration values read by the EDM Server process at startup from XML configuration files. Information about EDM Server environment variables can be found in the Agile e6 Online Help.

Note: The next two sections describe the internal Agile e6 startup of an EDM Server process.

Startup Process on Windows

- Invoking EDM Server startup through Java Daemon
- %ep_root%\axalant\cmd\axalant_srv.cmd
 - %ep_root%\axalant\cmd\plm_env.cmd
Read for all applications.
 - %ep_root%\axalant\cmd\plm_env_dev.cmd
If exists, read for all applications, not available in standard installation.
 - %ep_root%\axalant\cmd\plm_env_cust.cmd
If exists, read for all applications, not available in standard installation, customers should add their modifications for all applications here.
 - %ep_root%\init%\env_name%.cmd
Read for specified application only.
 - %ep_root%\init%\env_name%_cust.cmd
 - If exists, not available in standard installation, read for specified application only, customers should add their modifications for all applications here.

Startup of EDM Server process which reads:

- %ep_root%\init\axalant.xml
Read for all applications which are defined in "%ep_root%\init%\env_name%.xml", which is the default.

- %ep_root%\init\%env_name%.xml

Startup Process on UNIX

- Invoking EDM Server startup thru Java Daemon
- \${ep_root}\axalant\scripts\axalant_srv
 - \${ep_root}\axalant\scripts\plm_env.sh
Read for all applications.
 - \${ep_root}\axalant\scripts\plm_env_dev.sh
If exists, read for all applications, not available in standard installation.
 - \${ep_root}\axalant\scripts\plm_env_cust.sh
If exists, read for all applications, not available in standard installation, customers should add their modifications for all applications here.
 - \${ep_root}\init\\${env_name}.sh
Read for specified application only.
 - \${ep_root}\init\\${env_name}_cust.sh
If exists, not available in standard installation, read for specified application only, customers should add their modifications for all applications here.

Startup of EDM server process which reads

- \${ep_root}\init\axalant.xml
Read for all applications which have defined it in "\${ep_root}\init\\${env_name}.xml", which is the default.
- \${ep_root}\init\\${env_name}.xml

Startup Shell Scripts

This section describes the environment variables which can be modified by the customer.

- If the environment variable should be set for all applications, use "plm_env_cust.<extension>".
- If the environment variable is application specific then use "%env_name%_cust.<extension>".
- If the files do not exist, they must be created.

Environment Variable	Description	Values	Optional	Example
axalant_tmp	Path to the EDM Server log files.	\$ep_root/tmp	no	\$ep_root/tmp or %ep_root%\tmp
axalant_data	Path to the EDM root	\$ep_root	Not used in code! Maybe obsolete	\$ep_root or %ep_root
ORACLE_HOME	Path to the Oracle client home directory.	-	no	D:\oracle\product\12.2\db_1

Environment Variable	Description	Values	Optional	Example
NLS_LANG	National language set for the Oracle client to use for the EDM Server process.	-	no	AMERICAN_AMERICA.AL32UTF8
TNS_ADMIN	Path to the tnsnames.ora for the Oracle client to use for the EDM Server process.	-	no	%ORACLE_HOME%/network/admin
EP_DEBUG	<p>A comma separated list containing the modules that should generate debug output. Special entries are <code>_all_</code> to debug all modules, <code>Main</code> for the main routine and <code>0</code> to turn off debug output.</p> <p>If debug output is enabled, each Agile e6 process creates an <code>axalant-<hostname>-<pid>.err</code> and <code>.out</code> file to capture <code>stderr</code> and <code>stdout</code>.</p> <p>Be aware that using the value <code>_all_</code> will have a negative performance impact on the EDM Server, and it will generate huge log files.</p>	<code>_all_</code> , <code>0</code> , or a comma separated list of module IDs (as defined in <code>axalant.xml</code> or <code>ebd_mid.h</code>).	Yes	Main,Mod,Epq,Lgv
EDB_LOGDIR	Directory for the log files created by the EP_DEBUG setting. Default is <code>\$(ep_root)/tmp</code> .	Directory with path	Yes	/my/log/dir

Environment Variable	Description	Values	Optional	Example
EDB_LOGSIZEBUFFER	Buffer size in bytes for stderr output. If 0 is specified, the output will be unbuffered. A value of 0 should only be used if crashes occur and the log buffer is not flushed to disk. Maximum size used is currently 1024. Values greater than 1024 are ignored.	0 to 1024	Yes	1024
EDB_TRC_ALL	Deprecated. Use EP_DEBUG with Epq instead.			
EDB_TRC_DEBUG	Deprecated. Use EP_DEBUG with Epq instead.			
PATH	PATH to use for the EDM Server process.	-	no	PATH=%ORACLE_HOME%/bin;%PATH%

Startup Configuration Files

In Agile e6, the application configuration files are in XML format and can be found in the <ep_root>/init directory (e.g. <application>.xml and axalant.xml). They replace the former *.edb files in the same directory. Some basic attributes in the application specific <application>.xml file can be modified over the Administration client web interface. If you need to change the enhanced attributes, the files can be edited manually with an editor.

All changes not performed over the Administration client web interface will be lost if you use the Administration client web interface again to change the values of the application.

<application>.xml

The following section describes the attributes of the XML nodes that can be defined in the XML file.

In a standard installation not all attributes are defined in the XML file and default values are used.

General Node

```
<General SignalFlag="1" ModuleConfig="axalant.xml" TraceConfig=""
UseCommonTraceFile="1"/>
DbBlobLocation="edb_lob"
```

Attribute	Description	Values	Optional	Example
SignalFlag	<p>If the entry is 1, Agile e6 catches runtime errors and stops the server process in a controlled manner.</p> <p>For instance, all database connections are disconnected. This might cause hanging server processes and is therefore deactivated by default.</p>	0 or 1	Yes	1
ModuleConfig	<p>Contains the name of the configuration source which is used as the primary source for the Agile e6 module definitions.</p> <p>All modules of this source are registered. From the original configuration source, only the modules entered in [Modules\Custom] will be registered.</p> <p>The module IDs must be unique over all sources.</p>	<p>File name of the primary module source:</p> <p>[X:][path]filename.xml</p> <p>[F:][path]filename.edb</p> <p>If specified without type F or X, the same type as the original source is assumed. If specified without path, \${ep-root}/init is used.</p>	Yes	axalant.xml
TraceConfig	The Path to the C++ trace configuration file.	F:<path to trace config file>	Yes	F:D:\oracle\plm61\axalant\ini\trace.edb
UseCommonTraceFile	If the entry is 1, the EDM Server writes all common traces (SQL, C/C++ and LogiView) into the standard server trace.	0 or 1	Yes	1

Database Node

```

<Database Library="epq10c_oral12" Vendor="Oracle" Version="112"
User="plmref@plm61" Pwd="plmref"
ParallelConnect="ON_DEMAND_CONNECT"
ParallelConnectTimeout="10"
DbWuqSP="Static"
BindMode="All"
Wildcards="?"
Querymode="MIXED">
</Database>

```

Attribute	Description	Values	Optional	Example
User	The schema name and the SQLnet connect string of the database to which the application should connect to.	e.g. plmref@plm61	n	-
Pwd	The password of the database schema to which the application should connect to. Can be encrypted, but also clear text passwords are possible.	e.g.: plmref or encrypted e.g: {PLM-AES-128}JoMHOs.....NpMCDcytN+DJI	n	-
DbBlobLocation	Table space for the database Blob fields	edb_lob		

Attribute	Description	Values	Optional	Example
ParallelConnect	<p>This setting manages the Oracle database connection behavior when a data record is going to be updated with the function "epqupdpar()". The major use case for this functionality is the number server so that pulling a new number from a number cycle is done in a parallel connection. The concurrency of the requested data modification is vastly improved by enabling a parallel connection.</p> <p>Important: This setting does not influence the standard behavior of any database transaction, it is only important for a very small number of functions explicitly using "epqupdpar()" instead of "epqupd()"</p>	<p>NO_PARALLEL_CONNECT - Update of the data record via "epqupdpar()" will be executed within the current transaction. The concurrency of an application transaction is low and this setting should be used only for small installation size and/or small number of statements in a transaction.</p> <p>PERMANENT_CONNECT - A permanent parallel database connection will be opened when an update of a data record via "epqupdpar()" is requested. This connection will require additional memory resources in favor of a fast response time for an update. The concurrency of an application transaction is high.</p> <p>ON_DEMAND_CONNECT - A temporary parallel database connection will be opened when an update of a data record via "epqupdpar()" is requested. This connection will require temporarily additional memory resources and will also take more time for execution due to the time required to open and close a parallel connection. Closing the parallel connection is influenced by the "ParallelConnectTimeout". The concurrency of an application transaction is high. This setting is the best one if the memory resources are very limited.</p>	<p>Y, Default in EPQ: 'NO_PARALLEL_CONNECT' Default in Installation: 'ON_DEMAND_CONNECT'</p>	-

Attribute	Description	Values	Optional	Example
ParallelConnect Timeout	Determines when the parallel connection in mode "ON_DEMAND_CONNECT" will be closed after <ParallelConnectTimeout> seconds due to inactivity. After each read-only statement, a check occurs when an update in the last parallel connection has happened, and if the timeout has been exceeded, the parallel connection is closed.	Value in seconds e.g. 10 for 10 seconds inactivity A value of 0 immediately closes the parallel connections after it has been used.	Y, Default in EPQ: 0 Default in Installation: 10	-
DbWuqSP	Defines which algorithm will be used for a "Where Used Query" or "Structure Explosion". There is a "dynamic" version available which created a temporarily stored procedure during runtime, which is suited to the requested query for a specific table. The other version uses a stored procedure which is static and part of the standard database dump. Note: This is an internal parameter, please change it only after being advised by a support engineer.	Static - Static stored procedure in database dump Dynamic - Stored procedure which will be created during runtime	Y, Default is: 'Static'	
BindMode	Manages the usage of place holders in the dynamic SQL statements. Using place holders is important to avoid the need to parse SQL statements if many SQL statements have the same structure but different values for variables. Not using place holders will add the parsing time on database server side to the execution time for each SQL statement. Note: This is an internal parameter, please change it only after being advised by a support engineer.	Value is an integer handled as a bit mask; each value is specific for a condition value in a WHERE-clause. The value in a clause is the SQL keyword: Interval (between): 1 Equal (=): 2 Like (like): 4 Less than, or greater than: (<,>):8 Less equal, or greater equal: (<=,>=): 16	Y, Default is 31, for Oracle 8 Database s it has been only Equal(2)	Using place holders for all conditions:31 Using place holders only for an Interval and Equal conditions:3

Attribute	Description	Values	Optional	Example
Wildcards	<p>Sets the characters to define the single and the multi wildcard in the database. A single wildcard is a placeholder in a query for exactly one character; a multi wildcard is a placeholder for zero to many characters.</p> <p>There are many places in the application to define wildcards, it is important to understand in which order the wildcard definitions are evaluated. Please see here the order of evaluation (first line is also first evaluated):</p> <p>Configuration parameter (this entry here) Wildcards</p> <p>Command line parameter: -w</p> <p>DataView Defaults SYSTEM parameter: WILDCARD</p> <p>DataView Defaults USER parameter: WILDCARD</p> <p>To simplify the wildcard definition it is strongly recommended to use the WILDCARD parameter in the DataView defaults only.</p>	Any combination of 2 ANSI characters, special characters are recommended	Y, Default: '?'	Setting an asterisk for multi wildcard like on a Windows or UNIX shell: '*'

Attribute	Description	Values	Optional	Example
Querymode	<p>Defines the mode how a query for data will be handled. Queries for exact matches and wildcard matches are distinguished. An exact match is containing no wildcard e.g. 'abcdef' while a wildcard match contains any combination of wildcards e.g. 'a?cd%f'. There are many places in the application to define the query mode, it is important to understand in which order the query mode definitions are evaluated. Please see here the order of evaluation (first line is also first evaluated):</p> <p>Configuration parameter (this entry here) Querymode</p> <p>Command line parameter: -q</p> <p>DataView Defaults SYSTEM parameter: QUERYMODE</p> <p>DataView Defaults USER parameter: QUERYMODE</p> <p>To simplify the query mode definition it is strongly recommended to use the QUERYMODE parameter in the DataView defaults only.</p>	<p>SENSITIVE - Queries will distinguish upper and lowercase character. This will provide the best database performance.</p> <p>INSENSITIVE - Queries will not distinguish between upper and lower case characters.</p> <p>MIXED - Queries will use 'SENSITIVE' for exact matches and 'INSENSITIVE' for wildcard matches. This provides the best balance between performance and usability of a query</p>	<p>Y, Default: MIXED'</p>	<p>A query for 'abc' match in SENSITIVE: only 'abc'</p> <p>INSENSITIVE: 'abc', 'Abc', 'ABC', 'aBc', ...</p> <p>MIXED: for exact matches only 'abc', for wildcard matches 'abc', 'Abc', 'ABC', 'aBc', ...</p>

Security

```

<Security>
  <Default KeyStoreFile="file:///D:/oracle/plm61/init/wallet/private/server/" />
  <ws_sso KeyStoreFile="file:///D:/oracle/plm61/init/wallet/private/ws/" />
  <abs_sso KeyStoreFile="file:///D:/oracle/plm61/init/wallet/private/sso/" />
</Security>

```

Attribute	Description	Values	Optional	Example
KeyStoreFile	The location of the Oracle Wallet file used by the EDM Server.	file: // %ep_ root% / init / wallet / private / <wallet-type> /	no	file: // %ep_ root% / init / wallet / private / server /

IPC Node

```
<IPC AbsEciUrl="eci://www.example.com:19997" SecurityLevel="process"
TicketLifeTime="600"
    Node = "www.example.com">
</IPC>
```

Attribute	Description	Values	Optional	Example
AbsEciUrl	The URL where the business service can be reached on the Oracle WebLogic Server. The port must match the "Port" entry in the ABS_<env>.ini file on the Oracle WebLogic Server.	eci://www.example.com:19997	-	-
Protocol	Also configurable in the command line. If the configuration file or command line contains both entries and if the command line also contains the resource to be used, Agile e6 is started in ECI Server mode and can be contacted by ECI clients via the specified parameters (see ECI Manual).	<ECI Protocol ID>	Yes	1
Node	The host name of the EDM Server when running as an ECI server.	Fully qualified host name	Yes	www.example.com
SecurityLevel	This entry specifies the security level to be used for IPC connections. The default value of connection should be used whenever possible, to ensure that no unauthorized access is possible. Use the other values only if a legacy integration is not capable of passing credentials during an ECI connect. An Agile e6 application using a value other than connection should be secured by firewalls, so that only the legacy system has remote access to the Agile e6 server.	One of: unrestricted: no authorization required to establish the connection. process: first IPC connection needs to authorize by passing credentials. connection: each IPC connection needs to authorize by passing credentials. [default]	Yes	process
TicketLifeTime	The life time value of EDM tickets for multiple ECI connections.	Expire value in seconds	Yes	21600 (default)

Note: In case of long processes, as e.g. batch processes, it is recommended to set the time value for the TicketLifeTime to "0", thus defining an indefinite timeout.

Modules Node

```
<Modules>
<Core>
    <Class Name="Classification" Library="epsrv_edb" Type="embedded"
Startup="immediately" />
</Core>
<Custom>
    <Sample Name="Sample Custom module" Library="sample" />
</Custom>
</Modules>
```

The Modules element contains two child elements called Core and Custom. Each of these child elements may contain any number of module definitions, where the element name is used as Module ID.

The attributes of each element are as follows:

Attribute	Description	Values	Optional	Example
Name	A short description of the module. This is displayed in the library list of Agile e6.	A human readable name	No	Sample Module
Library	The name of the library to be loaded, if possible without path and operating-system-specific suffix	Library name	No	epsrv_sample
Entry	The name of the entry function of the module. This information is provided by the supplier of the respective module. If the entry does not exist, it is derived from the module ID as follows: <mod-id>_Entry	Function name	Yes	Sample_Entry
Startup	Controls the automatic start-up of a module. If the entry does not exist, the module is only loaded, initialized and started on demand.	One of immediately: Starts the module immediately during server startup. onDemand: Starts if a userexit requests the module [default] disabled: Does not start the module.	Yes	onDemand

Attribute	Description	Values	Optional	Example
Type	Specifies the module type, standard is dynamic.	One of: Static embedded: Only used for internal Agile e6 modules. dynamic: Standard value for external modules. [default]	Yes	dynamic

LogFileMgr/CpsVerify Node

```
<LogFileMgr>
<CpsVerify Mode="append" Prefix="CpsVerify">
  </CpsVerify>
</LogFileMgr>
```

Attribute	Description	Values	Optional	Example
Mode	Logfile mode. For CpsVerify the value is overwritten by user specific default "CPS_LOG_FIL_MOD". So adapt the default instead of changing value here.	trunc = truncate log message file before writing log messages append = append log messages to file	yes	Mode="append"
Prefix	Prefix for logfile. Not evaluated yet for CpsVerify, prefix is always set to value "CpsVerify".	CpsVerify	yes	Prefix="CpsVerify"

PLMPresentationServices Node

```
<PLMPresentationServices Report_Service_
URL="http://www.example.com:7103/AgilePlmWps/reporter/report"/>
<Windows DATAVIEW_TBSP="edb" DATAVIEW_IXSP="edb_idx" ... DATAVIEW_DUMP="<EP_
ROOT>\axalant\dmp" ...>
```

Attribute	Description	Values	Optional	Example
Report_Service_URL	Lightweight reporting URL, generated automatically. URL on the configured Oracle WebLogic Server.	http://www.example.com:7103/AgilePlmWps/reporter/report		

Environment Node

```
Environment>
  <intel-ms-nt6.1/>
</Windows>
<Unix ... >
  <i686-linux-ol6/>
  <rs6000-ibm-aix7.1/>
  <sparc-sun-solaris11/>
```

```
<ia64-hp-hpux11.31/>
</Unix>
</Environment>
```

Environment variables for the EDM Server process can be set here, or in the startup scripts defined above.

These values will overwrite all previously defined values from e.g. startup scripts.