ORACLE AGILE ENGINEERING DATA MANAGEMENT - RELEASE NOTES FOR AGILE E6.1.1

September 25, 2009

Part No. E15621-01

Agile e6.1.1 represents mainly a bugfixing release with platforms changes and enhancements. This document outlines the enhancements and additions to the core product as well as the improvements in each of the following areas:

- Java Client Enhancements
- Office Integration
- Multi Organizational Access Rights (MOA)
- Text Management
- File Server
- Loader Tool
- Workflow
- Userexit Framework
- External Communication Interface (ECI)
- AutoVue Integration
- Authentication – LDAP Support
- Enterprise Integration Platform 2.2.1.0
- RAC Support
- Batch Client
- Upgrade Tool

Note – Next to this, some bug fixes have been rolled up in Agile e6.1.1. Please, see document Release Notes - Fixed Bugs. This document contains a list of fixed bugs and a list with Known Issues.

Note – A detailed list of supported platforms can be found in the document Platform Support.

Contents

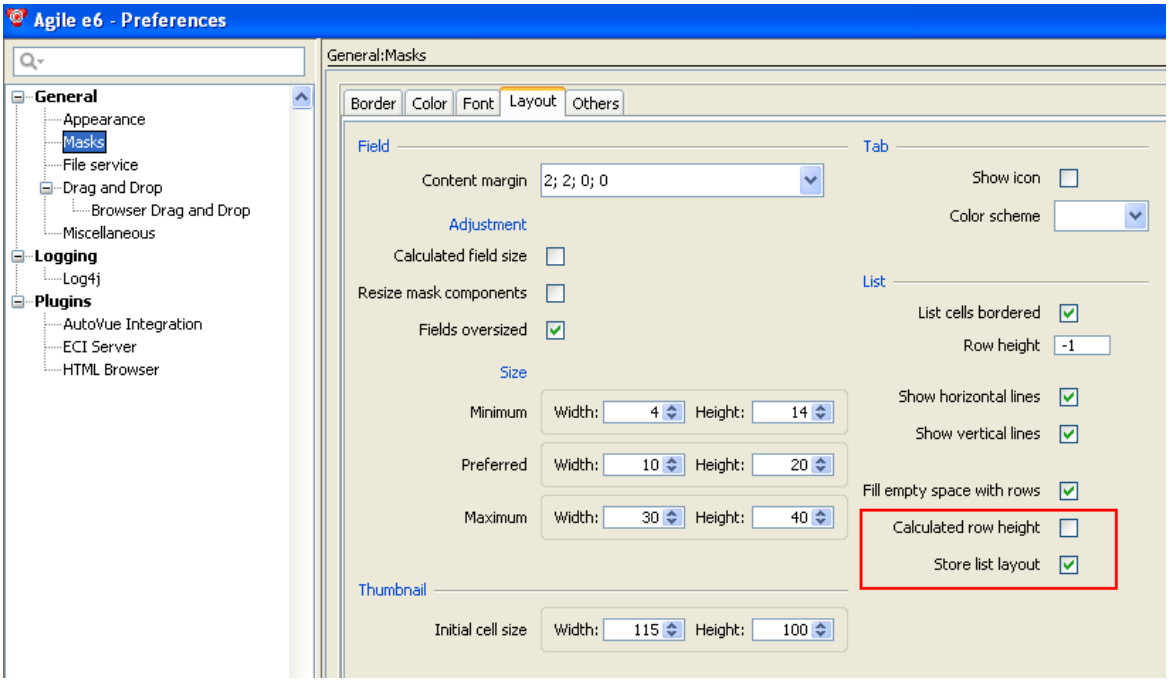
Java Client Enhancements

Layout Changes

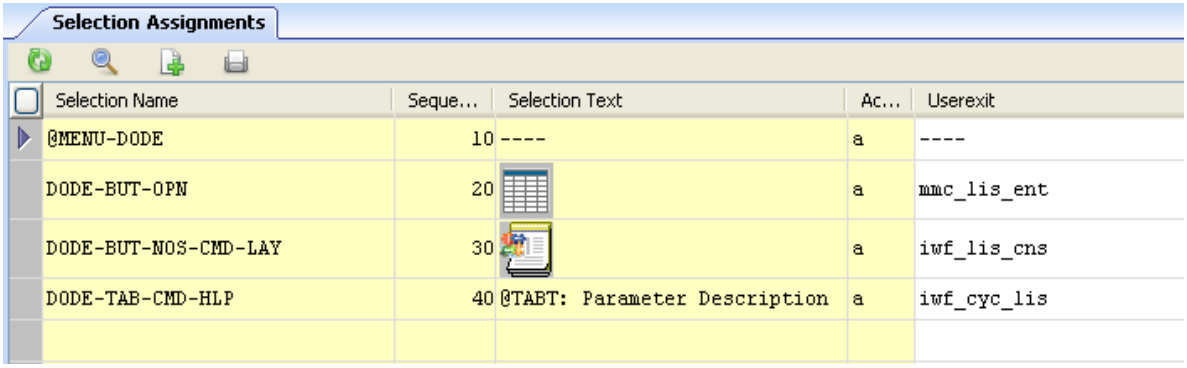
List Features

The look&feel of the Java client was enhanced in order to provide more possibilities to adapt the list layout to a user's individual needs. The look&feel can be changed in the "Preferences" mask (e.g. select General > Appearance).

- ❑ Automatically adjust row height in lists



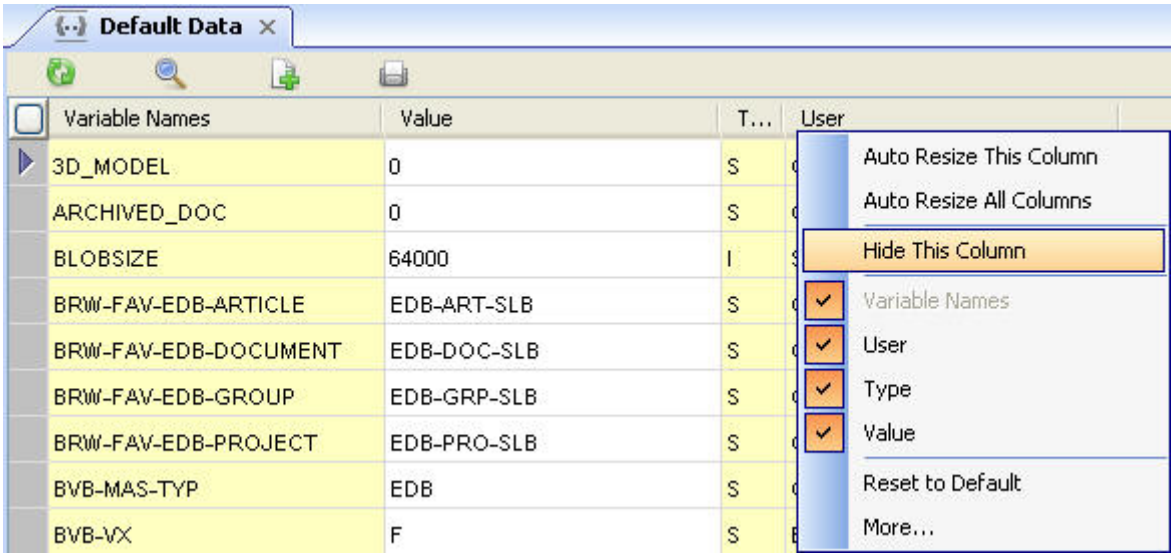
With the checkbox "Calculated row height" activated, the height of rows in a list will be automatically adjusted according to the size of the content that is displayed. This feature in particularly enables the appropriate display of icons and thumbnails in lists as can be seen in the graphic below.



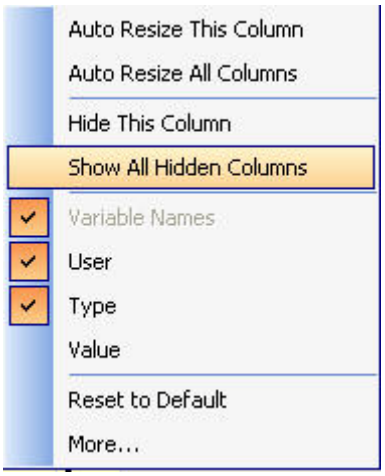
With the "Store list layout" checkbox activated, the calculated row height will be saved for the next session.

- ❑ Arrange the display of columns

The order of columns in a list can now be changed by simply moving a column to the desired position using the drag&drop function. Also, it is possible to hide columns if they are not needed for your current session, thus providing a better visual clarity.



Hidden columns can be restored by selecting the «Show All Hidden Columns» order from the context menu.



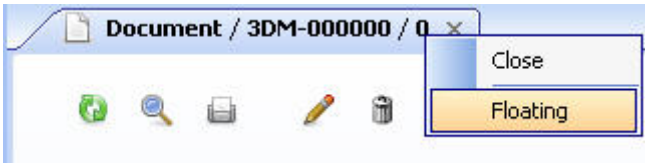
- ❑ Store and restore list layout

Basically, any modification to the layout of a list can be reset to display the default settings. In case you want to permanently store the modified list layout for the next session, the «Store list layout» checkbox in the Preferences Settings of the Java Client (see “Preferences” screenshot above) needs to be activated.

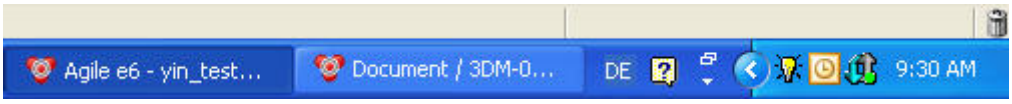
Undock Feature

It is now possible to undock internal document windows like the Item form. This feature was already available for non-document windows like the browser, the log window and the message window.

To use this feature, right click on the window title and choose "Floating".



In this case the document will be removed from the work area of the browser and displayed in the Windows task bar.



In order to incorporate the document into the work area of the browser, click the document in the Windows task bar and then right click on the window title and choose “Docking”.

Currently, the client does not store this new document window state. This means, if you - for instance - undock the document form, this will not be remembered in the next session.

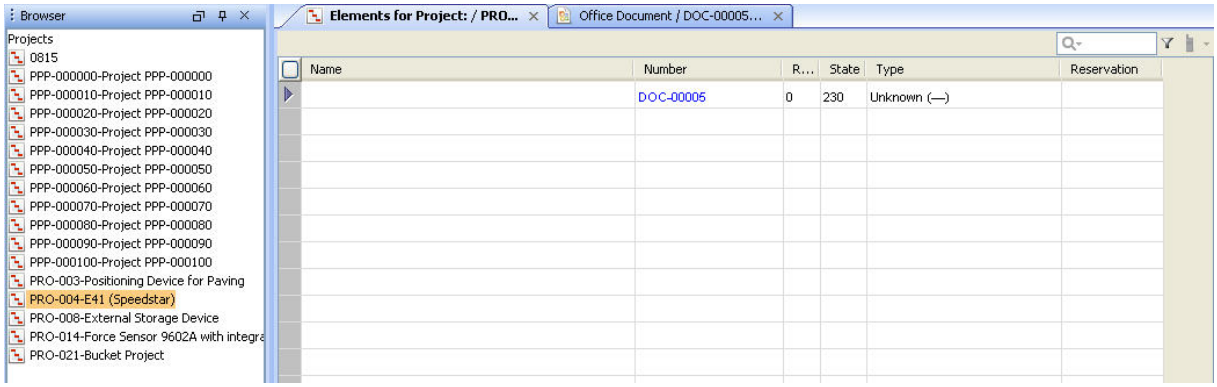
Office Integration

Drag & Drop Files onto the Files Tab

Using the drag & drop function, files and directories can now be inserted directly onto the Files tab in an Office Document mask. With this new functionality, the conventional insert function via the Insert button can be bypassed.

Drag & Drop Files onto the Element List

Files and directories can be inserted directly onto the Element list of a project by using the drag & drop function.

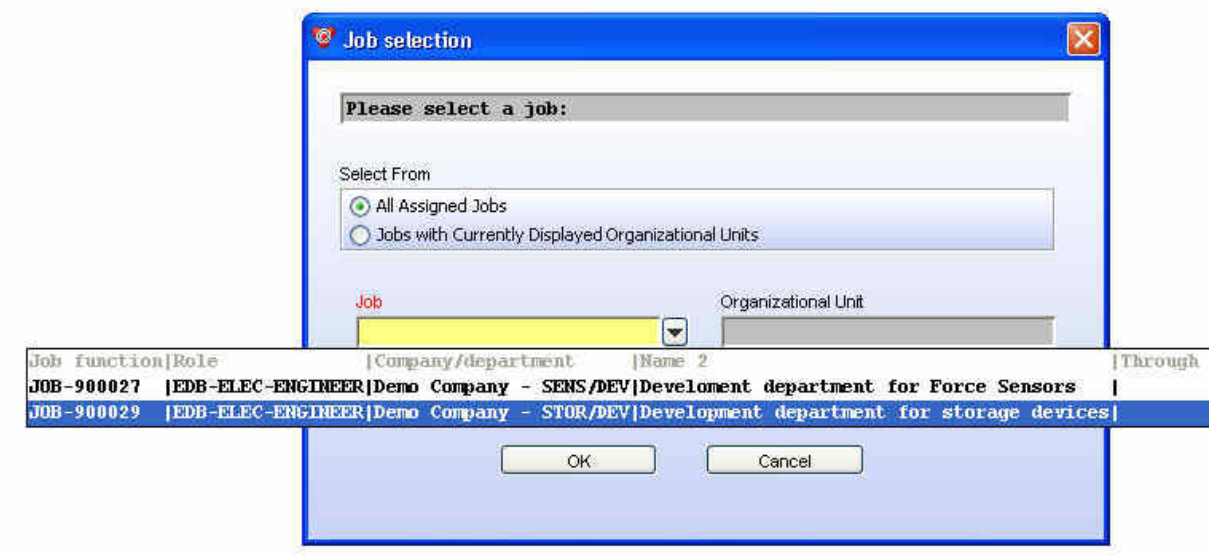


When clicking a project in the Projects tab of the internal browser, this project is activated and an “Element for Project:...” mask is opened. Now, any file or directory, independent from its location, can be inserted directly using the drag & drop function.

Multi-Organization Access Rights (MOA)

Enhancements to the Job Selection

When selecting a job function in the Multi-Organization Access Rights module of Agile e6.1.1, now the name of the organizational unit is displayed next to the job function selection menu instead of a letter-figure combination. The name of the organizational unit allows a better identification of the organization that is assigned to a certain job function.



Text Management

Text template placeholders now support checkstrings.

File Server

A WebStart deployed File Server client is now available. So a web deployed Java client is now also able to use the File Manager Service.

Loader

Internal Binary Loader - Enhanced Import Function

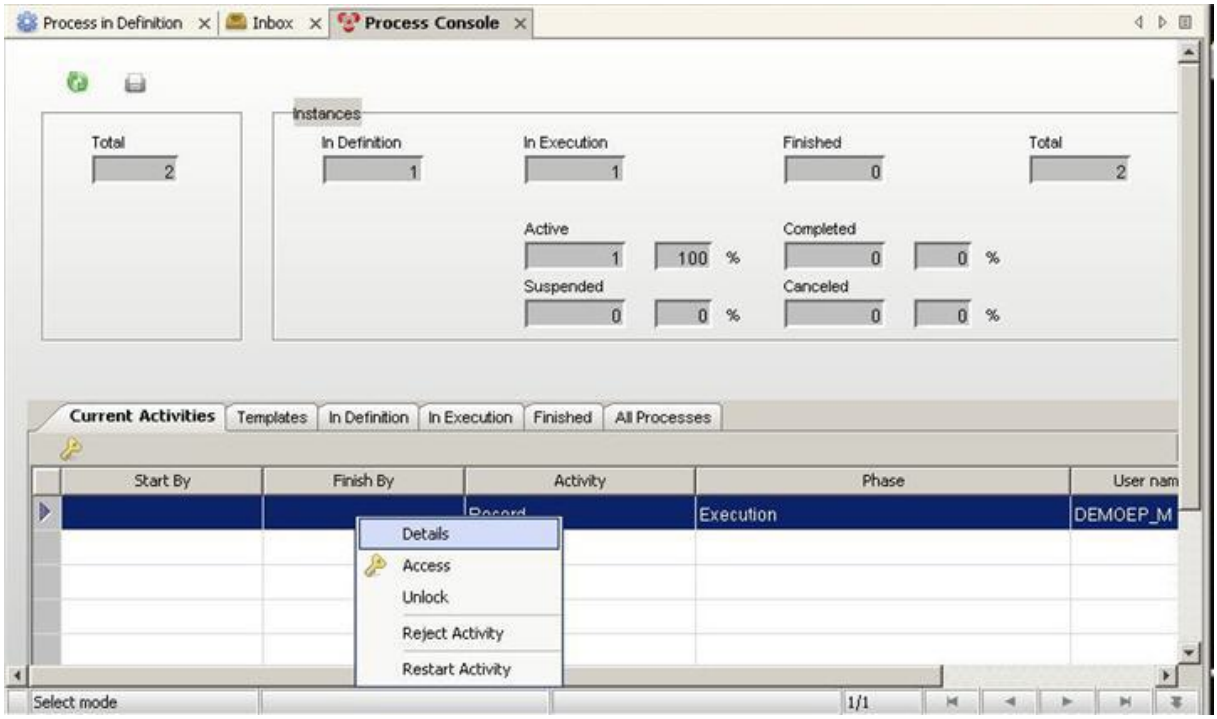
The import function with the internal binary loader was enhanced, thus suppressing the question dialog that appeared each time the loader file was entered into the Load Data mask of the internal binary loader. The internal loader query for the file content, asking if the loader file already existed and if the content of the loader file should be imported, disturbed the batch import (especially with the SCM – Software Change Management tool).

Now, a mechanism is provided to suppress this question dialog. To do so, the default LOA-REA-ALWAYS must exist and be set to “true”. With this default set, the question dialog doesn’t appear and the loader file is read for the import without any problems.

Workflow

Reject Activity by Process Owner

Current activities can now be rejected and restarted on the Current Activities tab of the Process Console, no matter if the work item(s) has already been accepted or forwarded. It might be required to reject an activity and to change resources of the activity in case a user is unavailable (e.g. due to illness) in which case the work item(s) is pending and the activity can't be further processed. Now a process owner (manager) can reject an activity, in which case the work item(s) of this activity is deleted. The activity is set to the state "rejected" and the resources of the activity can be changed. With "Restart Activity" the activity is started again and the work item(s) is newly created.



Roles and Privileges

Note – When checking privileges, all assigned jobs will get searched as well. This might lead to a low performance. To increase the performance in this case, please refer to the solution of bug 7108735 (document: Bug Fixes for Agile e6.1.1).

Userexit Framework

Userexit cch_get_blb

The DatavView userexit **cch_get_blb** has been enhanced to support the Web and Java client.

To do this, the new C function **cci_wri_fil** has been added to the DataView API. This function is now used by **cch_get_blb** to transfer the BLOB data in binary form to the client.

cci_wri_fil - like the other file functions **cci_put_fil** and **cci_get_fil** - supports all clients. For the DataView client, the respective gfi function is called. For ECI clients with callback capability, the respective ECI callback is called.

External Communication Interface (ECI)

ECI Security

The encryption of the user password used by the Java ECI Interface has been enhanced. Now, the client uses an SSL like communication to transfer the password to the PLM server. The PLM server sends a ticket with a successful authentication to the client. This ticket replaces the user password on the client and the client uses the ticket to open additional ECI connections to the PLM server.

The standard ticket lifetime is 10 minutes and can be configured within the PLM server configuration file.

For compatibility the PLM server still supports the old authentication mechanism. The Java-Client API (Java-Client, Web-Client, and PLM-API) uses the new authentication mechanism. The Java-Client can be configured to use the old authentication mechanism to connect to an older PLM server.

Configure the Ticket Lifetime:

1. Open the <environment>.xml file of the PLM application.
2. Change the ticket lifetime value in the IPC section:

```
   <IPC AbsEciUrl="eci://localhost:19997" SecurityLevel="connection"
TicketLifeTime="600">
  </IPC>
```

Configure the Java-Client to use the old authentication mechanism:

1. Open the jacc.defaults property file of the Java-Client installation.
2. Change the security value in the IPC section:

```
jacc.ipc.security = LOW
```

Batch processes Support for Java-Daemon

Because of problems with existing EDB_BATCH solutions that have been migrated to the BatchClient, the Java Daemon now supports the server startup scope "BATCH" in addition to the existing scopes "PRIVATE" and "PUBLIC".

Java Daemon Modifications

An Agile e6 server started with scope BATCH is not managed by the daemon:

- After the startup phase, the daemon will not send administrative calls to check the number of ECI connections (eci_get_num_con).
- The daemon will not automatically shut down such servers.

This feature has been added to cope with Agile e6 servers that do long running background calculations or that do not respond to ECI calls for a long time. For instance, some print/plot solutions are currently coded with server side loops that do not return control to the ECI main loop.

To activate this feature in ECI clients, use the property "SCOPE=BATCH" in the EciClientParams when contacting the Java daemon. To activate this feature in the batch or test client, add the property "scope=BATCH" to the property file that contains the Java daemon connection details. If no scope is added, "scope=PRIVATE" is used.

Monitoring Batch Processes

Once a batch process is started, it can be monitored using either the Daemon Console plug-in of the Agile e6.1 Java Client, or by using the DaemonAdminServlet deployed in a

web container. Batch processes are identified by the Scope "BATCH". For such processes, the number of connections is unknown, and there is no information about the last access to the server.

AutoVue Integration

- The AutoVue Integration is now delivered out-of-the-box along with the Agile e6.1.1 installation package.
- The AutoVue Integration is based on the latest AutoVue Web-Edition Version 19.3.4.

Authentication with LDAP

LDAP (Lightweight Directory Access Protocol) is an application protocol for querying and modifying directory services running over TCP/IP.

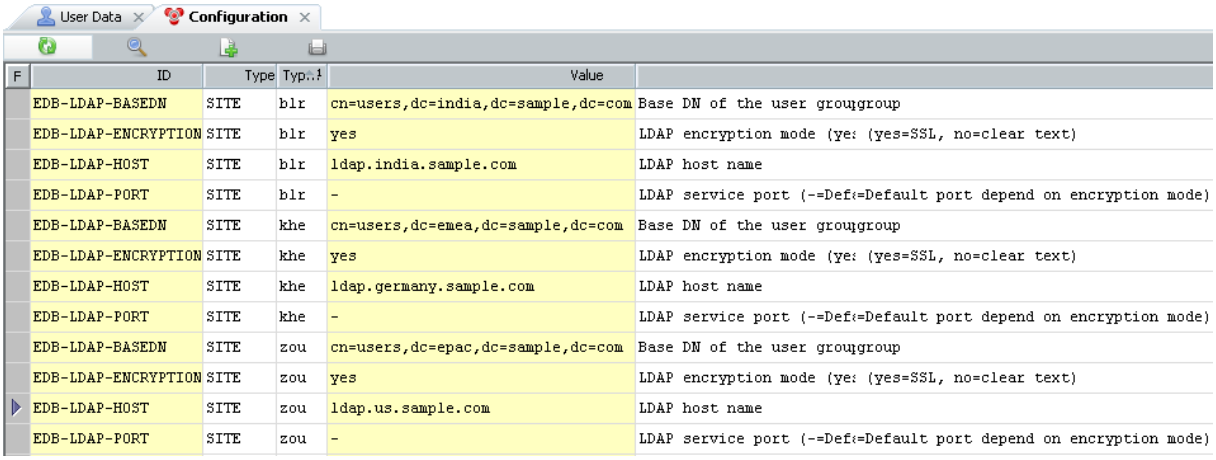
With Agile e6.1.1 we will extend the capabilities of the LDAP integration by allowing:

- Mulit-domain LDAP support
- User Mapping between PL

Configuration

The LDAP configuration used by the Agile e6.1 system is stored in the database as configuration parameters (T_CFG_DAT). The configuration entries are now site specific to support multi-domains. For each site different LDAP settings can be configured.

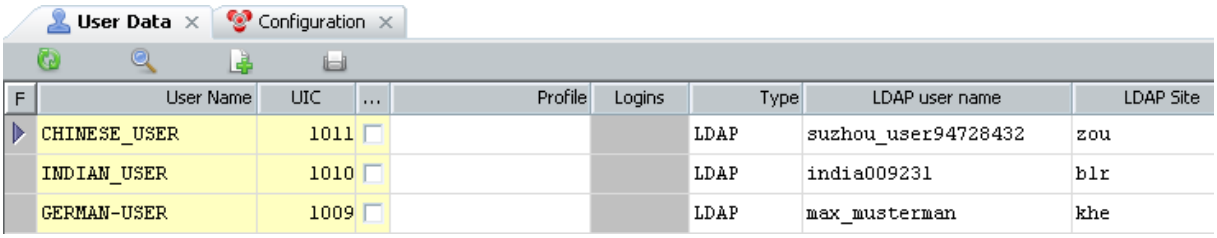
Example:



F	ID	Type	Typ..1	Value	
	EDB-LDAP-BASEDN	SITE	blr	cn=users,dc=india,dc=sample,dc=com	Base DN of the user group\group
	EDB-LDAP-ENCRYPTION	SITE	blr	yes	LDAP encryption mode (ye: (yes=SSL, no=clear text)
	EDB-LDAP-HOST	SITE	blr	ldap.india.sample.com	LDAP host name
	EDB-LDAP-PORT	SITE	blr	-	LDAP service port (-=Def:=Default port depend on encryption mode)
	EDB-LDAP-BASEDN	SITE	khe	cn=users,dc=emea,dc=sample,dc=com	Base DN of the user group\group
	EDB-LDAP-ENCRYPTION	SITE	khe	yes	LDAP encryption mode (ye: (yes=SSL, no=clear text)
	EDB-LDAP-HOST	SITE	khe	ldap.germany.sample.com	LDAP host name
	EDB-LDAP-PORT	SITE	khe	-	LDAP service port (-=Def:=Default port depend on encryption mode)
	EDB-LDAP-BASEDN	SITE	zou	cn=users,dc=epac,dc=sample,dc=com	Base DN of the user group\group
	EDB-LDAP-ENCRYPTION	SITE	zou	yes	LDAP encryption mode (ye: (yes=SSL, no=clear text)
▶	EDB-LDAP-HOST	SITE	zou	ldap.us.sample.com	LDAP host name
	EDB-LDAP-PORT	SITE	zou	-	LDAP service port (-=Def:=Default port depend on encryption mode)

Setup an LDAP User

To change the authentication mechanism of an user select the LDAP entry as "Type" in the user list.



F	User Name	UIC	...	Profile	Logins	Type	LDAP user name	LDAP Site
	CHINESE_USER	1011				LDAP	suzhou_user94728432	zou
	INDIAN_USER	1010				LDAP	india009231	blr
	GERMAN-USER	1009				LDAP	max_musterman	khe

Typically an Agile e6.1 user has a different user name in the LDAP repository, therefore an LDAP user name field is supported to map the user names. To support LDAP multi domains, the administrator can link each user to the site specific LDAP configuration.

The LDAP system takes care of the password policies (expiration and format). The enhanced security module and the possibility to change the password within PLM is deactivated for LDAP users.

Enhanced Authentication Mechanism

With Agile e6.1.1, the LDAP authentication mechanism was enhanced, now supporting the authentication of a PLM user password against Multi-Domain Microsoft Active Directory Servers.

Enterprise Integration Platform 2.2.1

General

Oracle Real Application Cluster (RAC) Support

Now, RAC environments are supported in addition to standalone Oracle databases. Further information can be obtained from the Oracle Agile EDM 6.1.1 Installation and Administration Documentation.

PLM Connector

Support for Oracle Agile EDM 6.1.1

All operating systems and databases, which are supported by Agile e6.1.1, are also supported by the Enterprise Integration Platform, especially the PLM Connector.

Note – Older Versions of Agile e6.1 are not supported. For further information, please check older versions of the Enterprise Integration Platform documentation.

New userexit libraries (e.g. eipsync.dll, libeipsync.so) are provided for Agile e6.1.1.

Platform Support

The Enterprise Integration Platform 2.2.1 supports the same platforms as Agile e6.1 does. For further information, please see Release Notes – Platform Support for Agile e6.1.1.

PLM Synchronous Connector

Support for operating in the user's context (Loopback mode)

It is possible to operate (read and write data) in the context of the user that is issuing the Enterprise Integration Platform operation from within the client application (Java Client, Web Client and Windows Client).

RAC Support

Oracle's Real Application Clusters (RAC) is a cluster database with a shared cache architecture to provide highly scalable and available database solutions for business applications. It enables customers to benefit from low cost hardware by combining multiple smaller server machines in a cluster, thus providing fault tolerance from hardware failures or planned outages.

With Agile e6.1.1, all modules (including Business Service and Enterprise Integration Platform) do support a RAC database.

Oracle RAC provides the following advantages:

- High Availablility

  Oracle RAC provides a very high availability for applications by removing the single point of failure with a single server. If a server in the cluster fails, the database continues running on the remaining servers. Also, single servers within the cluster can be shut down, e.g. for maintenance, while application users continue to work.

- Flexible Scalability

  Oracle RAC provides flexibility for scaling applications. To keep costs low, clusters can be build from standardized, commodity-priced processing, storage and networks components. In case more processing power is needed, further servers can be added to the cluster without the need to take user offline, thus increasing horizontal scalability. Also, applications never have to modify their connections as servers are added or removed within the cluster.

Batch Client

The Batch Client is the recommended solution for all batch solutions, e.g. for plotting or printing (already used for Office Suite PDF generation and AutoVue offline metafile caching).

The Batch Client is a special version of the Java Client without any graphical user interface. The Batch Client uses the Java Daemon to start the Agile e6.1 Server and communicates via ECI with the Agile e6.1 Server. It supports client side callables which are used by the Agile e6.1 Server to start client side activities like the startup of an external program or the File Server client to check-in / check-out files from the File Server. The standard features to exchange files with the Agile e6.1 Server are also supported. The Batch Client runs a batch scenario which is implemented in Groovy to control the batch use case. The most batch use cases are designed as a loop which uses a job table to determine if a job is present or if the process should wait for a new job.

Note - The "old" EDB_BATCH mechanism of the Agile e6.1 Server is no more recommended and the Batch Client replaces the "old" batch solution of the Agile e6.1 Server.

The Batch Client can be installed as a service or standard from the console.

The Batch Client is available for all server platforms of the Agile e6.1.1 release.

Upgrade

To upgrade to Agile e6.1.1 you can use one of the following methods depending on your current Agile version.

Upgrade Tool

The Upgrade Tool allows upgrading to Agile e6.1.1 from the following versions:

- Pre-Agile e5.x (on request)
- Agile e5.x
- Agile e6.0.x

Note - Please contact Oracle Support if you intend to update a Pre-Agile e5.x version to Agile e6.1.1.

Note - Refer to the 'Upgrade Tool for Agile e6.1.1' manual and the Installation Requirements before starting the upgrade to Agile e6.1.1.

Patch Upgrade

In order to upgrade from Agile e6.1.0 to Agile e6.1.1, a patch upgrade is required. For further information please refer to the Patch Upgrade Manual for Windows and Unix for Agile e6.1.1.

