Oracle Agile Engineering Data Management - Release Notes for Agile e6.1.3.0

November 10, 2014

Part No. E50979-04

This document outlines the enhancements and additions to the core product.

A detailed list of supported platforms can be found in the document Release Notes – Platform Support for Agile e6.1.3.0. You can also refer to the My Oracle Support (Tab: Certifications) for third-party products

A detailed list of all bug fixes which have been rolled up in Agile e6.1.3.0 can be found in the document Release Notes – Bug Fixes for Agile e6.1.3.0. This document also contains a list of Known Issues which will be fixed in the first hot fix.

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AutoVue Integration

The AutoVue integration of Agile e6.1.3.0 supports AutoVue 20.2.2 and provides a number of enhancements like functional enhancements and user-specific configurations.

Multi-Document Support

AutoVue provides sophisticated out-of-the box features which go far beyond the simple viewing of files.

The “Comparison” feature allows for example the visual comparison of two document/file revisions to detect the differences (Figure 1) while the Cross-Probing capability in the area of ECAD allows you to illustrate the links between Circuit Board Design and Schematic Design.

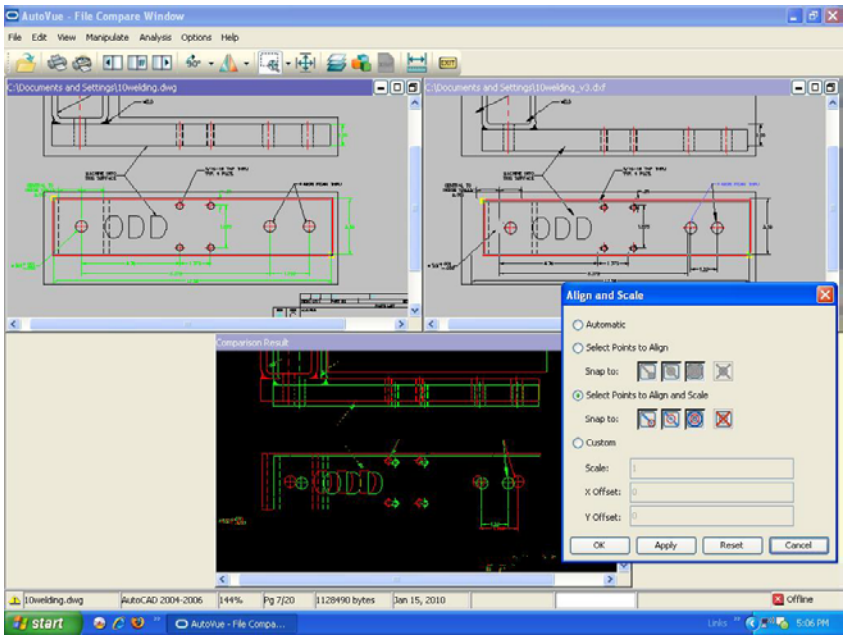


Figure 1 Comparison of documents in AutoVue

In order to support these features, the AutoVue Integration of Agile e6.1.3.0 has been enhanced with multi document support. It allows loading more than one file from Agile e6 into an AutoVue Viewer session.

The „File-Open“ dialog of AutoVue provides two new options to access documents/files in Agile e6 (Figure 2). You can either access the favorite objects in Agile e6 by clicking the “Agile” icon or you can start a document search to find a specific document in Agile e6 by clicking the “Search Agile” icon.

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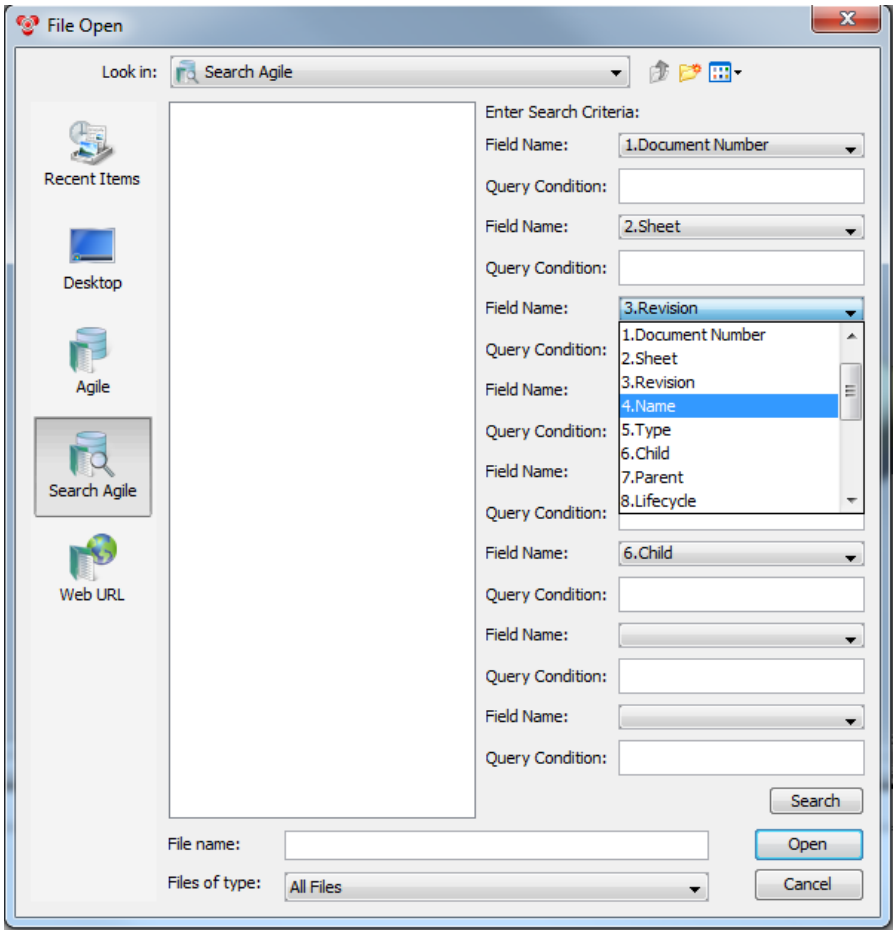


Figure 2 Enhanced File Open Dialog in AutoVue to search Agile e6 documents

In addition to that, the Comparison of documents/files can be started also from within Agile e6.

Support for User Specific AutoVue UI Profiles

AutoVue UI profiles allow you to define preconfigured settings for the AutoVue UI. For instance you can define an AutoVue UI profile to restrict AutoVue capabilities to read-only functionalities, thus hiding Save, Export and Print capabilities.

In Agile e6.1.3.0 the administrator defines the UI profile for each user in the default PVM-GUI-FIL.

User Specific Assignment of AutoVue Licenses

You can purchase AutoVue with several capabilities like Office format support, 2D format support, 3D MCAD format support and finally the full-fledged Electro-Mechanical format support. Especially if you have purchased a variety of licenses, the administrator has to track which user uses which licenses.

In Agile e6.1.3.0 the administrator defines the type of licenses each user is entitled to use in the default PVM-ALW-CLS.

Improve CAD Structure Support

When loading 3D assemblies to AutoVue, the AutoVue integration uses the same procedures as CAD integration to compose the file list.

Additionally the AutoVue integration is enabled to load CAD Snapshots for viewing.

For more details see chapter CAD-Structure Support.

Simplify the Process to Participate in Real Time Collaboration Session

AutoVue Real-Time Collaboration (RTC) is the built-in web conferencing tool of AutoVue. It allows sharing a viewing session with other users. The participants of the RTC can view and annotate the AutoVue content.

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In Agile e6.1.3.0, a user can start an empty viewer session from the Java Client Tools menu and can connect it easily to the Real-Time Collaboration conference.

Additional Enhancements

- The viewer window now shows the name of the file that has currently been loaded to the viewer.
- When loading a file from Agile e6 to AutoVue, the dialog which shows existing markup for the current document/file also shows the user name of the author of the markup.
- When using AutoVue in undocked mode in the Java Client, the system remembers the size of the undocked window from the previous session.
- Increased performance when loading files into AutoVue.
- In the configuration Parameter EDB-PVM-APPLET-MAX-NUMBER the number of AutoVue sessions started in parallel for one Java-Client can be defined. The default value is 5.

Note	Be careful when increasing the value, to avoid running out of memory on the Java Virtual Machine, which is used to run the Java Client.

Java Client Enhancements

Enhanced Login Dialog

Agile e6.1.3.0 supports three types of login authentication:

- Basic – using Agile e6 User and Agile e6 Password
- LDAP – using LDAP username and password
- Kerberos – leveraging Windows authentication for single-sign on

In order to present the login variants in a reasonable way, the login dialog of the Java Client has been redesigned (Figure 3).

The “Login” section is used to specify the username and password. “Connection details” allows defining the details of the target Agile e6 application. In the “Advanced settings” section, the login type is defined. In case the login type is LDAP or Kerberos, the PLM user determines which Agile e6 user to be used in the Agile e6 application.

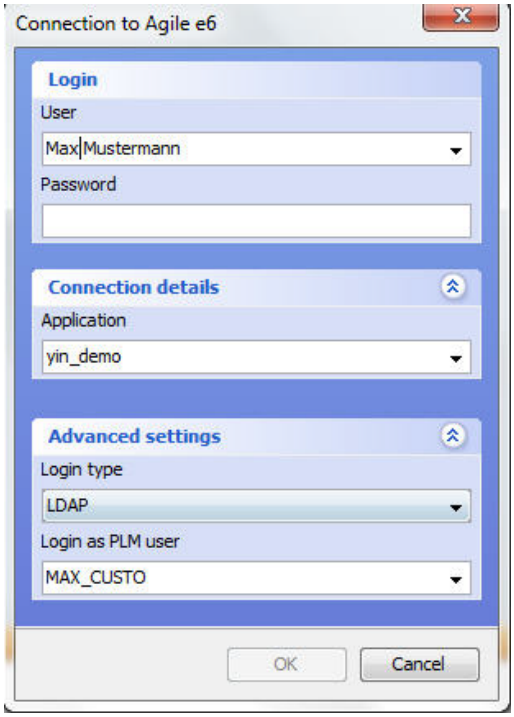


Figure 3 Enhanced Java-Client login dialog

There is also a new section General > Login in the Java Client preferences, to configure the login

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dialog. It allows defining

- the default login type,
- whether the “Advanced settings” section is visible or not
- whether the login dialog is shown even when SSO is active

Field Menu Handling in Java Client

Field Menu handling of Java Client has been improved in various aspects.

- Field Menu handling now supports a two column layout, and thus eliminates the issue of fuzzy rendering when using proportional fonts.
- The size of the field menu is calculated based the number of entries in the menu and the menu max length definition in the DataView repository.
- If a user types in first characters of the value, the list of values in the field menu will be reduced to the entries matching this combination of characters. Thus, it is much easier to find the appropriate value.

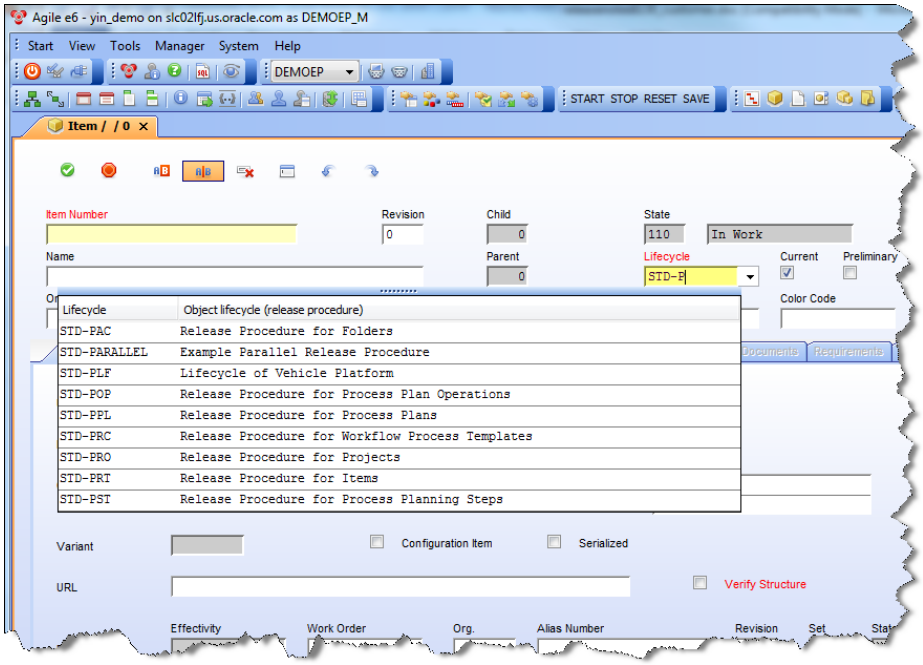


Figure 4 Field Menu

Performance Improvements

When opening a widget, the client-server communication has been streamlined to reduce the number of roundtrips between client and server and thus improving the Java Client performance.

A performance bottleneck has been resolved, which occurred when using thumbnails in list with calculated row heights.

Java Daemon Console

The Java Daemon Console is a Plug-in for the Java Client and allows monitoring the processes which are managed by a certain Java Daemon. The Java Daemon Console is a tool for administrators. It provides key information per process for example the process ID, start time and last process access.

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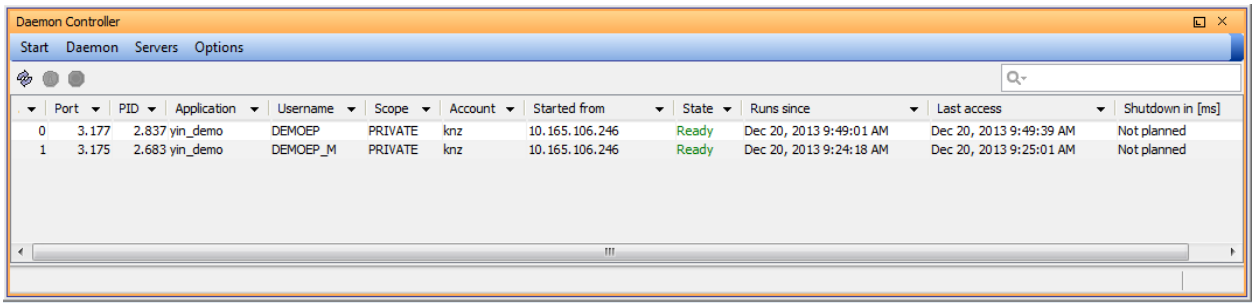


Figure 5 Daemon Console Plug-in for Java Client

Additional Improvements

- URL support

  The Java Client and the target widget will be opened in the foreground if it is started/activated via Smart-URL.

- F8 Field Editor

  The Long Text Field Editor in Java Client now also considers the field size when opening the Edit-Widget. If the default field size is too small to show all the text, the Edit –Widget length will be increased automatically.

- When using lists with fixed row height, the thumbnails shown in the list will be scaled to fit the row height.
- When Agile e6 records are dragged and dropped to any other application the date format is determined based on the regional setting of the client system.
- The Java Client has been enhanced to allow usage of Return key for confirmation of LogiView masks.

User Management

Agile e6.1.3.0 comes with a new flag in the user management to mark a user as inactive. It shall be used for user whose account is inactive.

The definition of user data has been redesigned and you can now easily define if a user:

- is allowed to use web services
- is inactive
- has Manager privilege

The new design also allows assigning more than one remote credential mappings for an Agile e6 user.

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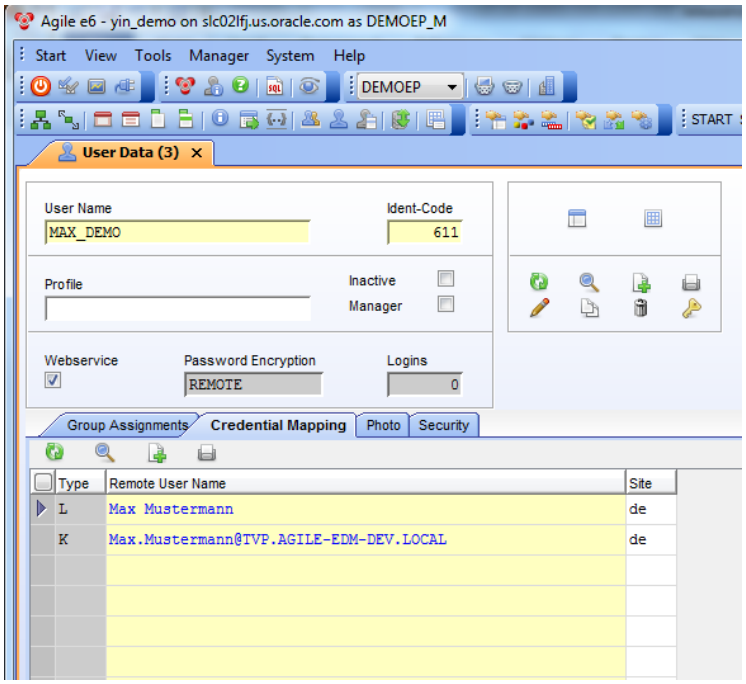


Figure 6 Re-designed User Management

Classification

In Agile e6.1.3.0 the userexit xatt_qry_cls has been enhanced to use different classification lists for container classes belonging to different class types. The parameters of the userexit xatt_qry_cls are:

- maskName (optional)
- /SUB
  Opens list EDB-GRP-ent-SUB-RLI where ent is the short entity name
- /SUB /ABSTR_MASK=maskname
  Opens the specified list
- /SUB /SUBLIS
  Opens the folder EDB-GRP-ent-SUB-RLIC
- /SUB /ABSTR_SUBLIS=maskname
  Opens the specified folder

Multi-Object Access Rights

Multi-Project/Organization Access Rights module provides a new userexit xpdw_men_mov_pri to move a (sub-) project respectively a (sub-) organization to another parent project respectively organization.

Workflow

Notification Framework

The Workflow module has been enhanced with a more sophisticated notification framework in Agile e6.1.3.0. The framework allows sending notifications for specific workflow states and workflow state transitions to any group of users.

Performance Improvements

Agile e6.1.3.0 fixes a performance issue in the Workflow module, which occurred when a large number of classification attributes are maintained in the Agile e6 system. Workflow was not able to distinguish between attributes, that are/aren't relevant for the workflow.

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In Agile e6.1.3.0, the flag T_CLA_DAT.EDB_WFL_PROC_FLAG will identify the workflow relevant classification attributes. A new database view V_CUS_CLA_DAT was introduced, which provides the workflow relevant attributes only.

History Entries

Workflow actions that are performed by the system are now displayed with a special workflow system user 'WFL-SYS' on the History tab.

Enable SSL and Authentication for SMTP Mailing via Workflow

The workflow and the server side external mailing will now provide SSL and authentication for mailing.

The following new configuration parameters have been introduced in “ABS.ini” file:

- PORT: SMTP port for SSL, e.g. 587
- ConnectTimeOut: connection timeout period in seconds, default is 60 seconds
- useSSL: Flag to define if SSL communication is required, default value is true
- useAuthentication: Flag to define if authentication is required, the default is true
- SMTPUserName: User name, to authenticate at the mail server (SMTP account)
- SMTPPassword: Password to authenticate at the mail server (SMTP account)

The following settings are the compatible settings for Agile e6.1.2.2 behavior (Port 25, no SSL, no authentication):

- PORT=25
- ConnectTimeOut=60
- useSSL=false
- useAuthentication=false
- SMTPUserName=
- SMTPPassword=

Supported URL Length

With Agile e6.1.3.0 the URL length for Java and Web Client has been extended to support now up to 2000 characters.

The URL length for Windows Client remains at a length of 255 characters.

LogiView

A new LogiView function has been added with Agile e6.1.3.0:

- widget_id_tab

  When called with the ID of a widget in the Java Client, it returns:

  - The widget ID of the active child widget
  - 0 to indicate that a sub-form is active
  - 1 to indicate that this is not a combined form

    In this case, call dal_wdg_get_son to get all opened child widgets.

Note	For the Windows Client, it always returns 1, because in the Windows Client can only open one child widget at a time.

Logiview code example:

```
10  RES = widget_id_tab(widget_id())
20  if (RES == 0)
30    put(strprint("In Combined Form %s on sub-form",
widget_name(widget_id())))
40  elseif (RES == 1)
50    put(strprint("Not a Combined Form: %s. Call wdg_get_son to get all
```

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```
child widgets", widget_name(widget_id())))
60  else
70    put(strprint("In Combined Form %s on tab %s",
widget_name(widget_id()), widget_name(RES)))
80  endif
```

CAD-Structure Support

Snapshot Management

Snapshots are used in 3D Mechanical CAD to define a specific configuration of a more generic Assembly. Typical use cases of Snapshots include:

- Simplified Representations

  Used to define a subset of the overall assembly, in scenarios where only a subset of the complete assembly is needed in the CAD system. Simplified representations reduce the amount of data that has to be transferred back and force between CAD System and Agile e6 and thus can be used to accelerate CAD-load processes.

- Last Saved or Released Snapshots

  In this scenario the snapshot is used to exactly track the specific assembly configuration that was “last saved” respectively “released” in Agile e6. It assures that the assembly can be reloaded to CAD later with the identical configuration.

- Alternative Configurations of CAD Assembly

  In this scenario the CAD assembly contains one or more alternative subassemblies/parts (150% assembly). The snapshot is used to define a consistent configuration of the assembly (100% assembly).

Agile e6.1.3.0 provides the snapshot data model out of the box, and CAD structure packages as well as AutoVue Viewing are enabled to handle CAD snapshots.

But be aware:

- Creating snapshot data is the responsibility of the CAD integration – there are no means in Agile e6 to create snapshot data.
- Snapshot-specific AutoVue Markup is not supported.

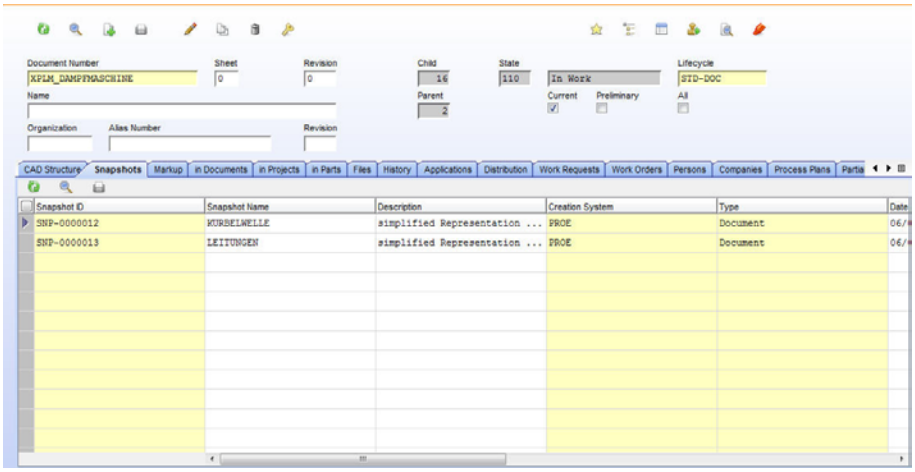


Figure 7 Snapshot Management in Agile e6

Enhancements for CAD Quickload

- The Quickload feature is enhanced to flexible manage the position of Generics, Layouts and Drawings within a CAD Structure. Configuration parameters are used to control if for example a Generic will be stored above or below parts.
- Stored CAD-references in IER relation can now be used in Quick Load, DFM and in Loading

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models to AutoVue

- The heterogeneous structure explosion now handles structures from all CAD systems, not only PRO/E assemblies. Therefore, the new function EDB_ASE.explode_cad got new parameters for the CAD logic type.

Batch Client

The Batch Client scenario files now contain a sleep command before executing the scenario code.

This ensures that the initialization LGV procedures are finished before the batch scenario is executed.

Depending on the start-up time of the EDM server, the time to wait can be adopted in the batch scenario file.

Security

Agile e6.1.3.0 now supports user passwords up to 255 characters and the default password encryption has been changed to SHA-512.

Single-Sign On

Agile e6.1.3.0 provides single sign-on capabilities for Java Client and Web Service Interfaces.

Java Client Single Sign-On

Java Client single sign-on provides a comfortable way to login to Agile e6, leveraging the authentication, that has been done on the Windows operation system level already. Once authenticated for Windows, a user can start Agile e6 without further authentication. The single sign-on solution is based on the industry standard Kerberos.

Web Service Single Sign-On

Web Service interface supports Web Service single sign-on (WS-SSO) leveraging Security Assertion Markup Language (SAML). WS-SSO using SAML allows setting up trusted domains for cross application single sign-on.

Agile e6 can pass an Agile e6 PLM-Ticket, that it obtained from another Web Service call, to refer to the same Agile e6 session.

To allow the same mechanism for the closeSession, each closeSession operation needs a new request object of type CloseSessionRequestType to pass the optional sessionTicket to the server.

Note	This is because of an incompatible API change within Web Service version V2, so you cannot call the new server with an old client, or an old server with a new client.

LDAP Enhancements

- Configuration of backup LDAP-Servers.

  Agile e6.1.3.0 allows specifying so-called backup LDAP server, which will be used if the primary LDAP server is not accessible. To define additional backup LDAP servers, configuration parameters of type EDB-LDAP-HOST-<n> need to be created, where <n> is an integer value (e.g. EDB-LDAP-HOST-1).

- LDAP Username

  Agile e6.1.3.0 now supports LDAP usernames with up to 255 characters.

- The LDAP integration was enhanced to support SSL 3.0 and TLS communication protocols.

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Permission Manager

For performance reasons and to setup a fail-safe configuration it is desirable to run multiple instances of the permission manager in an Agile e6 deployment. So far Agile e6 could not really satisfy this requirement because changes applied on one of the permission manager instances were not replicated to the other permission managers.

In Agile e6.1.3.0 there is now a time-stamp mechanism which allows the permission managers to detect that the data was updated in one of the instances. So each permission manager instance can trigger to reload the up-to-date information from the repository.

Userexits

xhisto_pre_action

This pre-action userexit, which is used in history relation widgets has now the parameter “/SEQ”. The sequence creates HIST_Ids in the range from 100,000 to 1,999,999,999.

To customize the sequence, follow these steps (e.g. T_CUS_HIS):

1. Create a new database sequence <table_name>_HSEQ using T_DOC_HIS_HSEQ as a template:
   ```
   CREATE SEQUENCE T_CUS_HIS_HSEQ MINVALUE 100000 MAXVALUE 1999999999
   INCREMENT BY 1 START WITH 100000 NOCACHE NOORDER NOCYCLE ;
   ```
2. In the data dictionary increase the field size.
   ```
   Field definition (I5 -> I10)
   Mask field assignment (Fieldwidth 5 -> 10)
   ```
3. Add parameter "/SEQ" to preaction userexit "xhisto_pre_action" in your history widgets.
   If you do not provide the parameter, then the "old" select(max) algorithm is used.
4. Recreate the table (e.g. via the Entity-Relation-Data widget).

French Localization

The User Interface of Agile e6.1.3.0 provides French language support.

Be aware: The User Interface of some of the Administration features do not support French language

File Server

Tracing Capabilities

The tracing capabilities of the File Server have been further enhanced.

The File Server now supports a rolling log file. The maximum log file size is 512 MB and up to 1000 logs are supported.

The "DEBUG" log level of the File Server now contains a detailed RPC trace for Windows platforms.

Transfer Size in File fileserver.cfg

The size for transfer packages can be configured independently for every client. Also the default package size can be configured. The configuration needs to be performed in the file ..\fileserver.cfg.

Syntax:
```
<client hostname>=<package size> or <client ip address>=<package size>
```

Example:
```
SLC01BGN=102410 or 10.245.30.15=102410 (hostname is case insensitive)
```

Note	When you use the Java Client or Web Client web start, the client hostname or IP address is the client of the web file services.

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- Default package size is 10 Byte
- Max package size is 999,999,999 Byte

Business Logic

In Agile e6.1.3.0 the function dmi_set_dis is available as a Dataview userexit and can be called from Logiview.

An example would be:

- 10 EP_STRING = "1"
- 20 RES = #dmi_set_dis(EP_STRING)

Web Service Interface

The Web Service Interface was enriched with additional Web Services. See a list of new Web Services below.

The File Service Web Services now fully supports Distributed File Management (DFM). For more details on using File Web Services in a DFM environment see also the Architecture Guide and Web Service Guide for Agile e6.1.3.0.

Additionally the web service interface supports web service single sign-on (WS-SSO) leveraging Security Assertion Markup Language (SAML). WS-SSO using SAML allows setting up trusted domains for cross application single sign-on.

The Web Service interface provides the following new Web Service in Agile e6.1.3.0:

- Business Object Web Services
  - deleteObject, to delete an object
  - updateRelation, to update a relation
  - deleteRelation, to delete a relation
  - setReservation, to set/unset the reservation flag for an object
- File Services
  - getFMSVault, to get the Vault for a certain document type
  - createUpdateFileObject, - for internal use only -, to update the File Object data
  - downloadFile, to download a file from fileserver
  - uploadFile, to upload a file to the fileserver
  - getCADAssembly, to get file list for CAD assembly leveraging quick load procedure
  - getCADAssemblyNextDataBlock, to get next chunk of date of the file list for CAD assemblies
- Metadata Services
  - getNumberCycles, to retrieve the number cycles defined for a specific form
  - getNumbers, to get one or more numbers from the number cycle
- Configuration Service
  - createDefault, to create a new default value
- EC-Services
  - createUpdateStructure, to create or update a heterogeneous structure. This Web Service is used by CAD interfaces to maintain Document/Item structures but can also be used for NON-CAD use cases.

The following Web Services are de-commissioned and do no longer exist.

- File services
  - getFileCopy
  - checkInFile

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SAP Connector

The SAP connector available with Agile e6.1.3.0 has been enhanced to use Secure Network Communication (SNC) authentication against the SAP server. A new connection section with SNC configuration has been added to the eai_ini_sap.xml file.

Furthermore, the SAP Connector has been updated to use Java Connector V3.0 (JCO 3.0).

Enterprise Integration Platform

The Enterprise Integration Platform (EIP) provided for Agile e6.1.3.0 has been enhanced to support UTF-8 character sets when transferring data from SAP to Agile e6.

Installer

PLM Authenticator

During installation, a new DataSource called PlmAuthenticatorDS is added to the WebLogic Agile e6 application domain to allow the PLM authenticator access to the database schema that contains the user information. This DataSource is protected by policies to restrict access by applications other than the PLM authenticator. The configuration for the PLM Authenticator has changed to now ask for the DataSource name and the credentials to access it. A default user named PlmAuthenticatorDSUser is added by the installer and should be used for this purpose.

Patch Upgrade

The release contains the Upgrade tool to directly upgrade the database dump from Agile e6.1.2.2 to Agile e6.1.3.0.

Native and J2EE software components cannot be upgraded, a new installation of the software is necessary. For more information please see Oracle Agile Engineering Data Management Patch Upgrade Guide for Windows and UNIX for Agile e6.1.3.0 on the Oracle Technology Network (OTN - http://www.oracle.com/technetwork/documentation/agile-eseries-098047.html)

Batch Installation

The Installer includes improved batch installation support. A complete EDM Server installation (without the WebLogic server and the Database Client/Server), as well as component based installation is fully supported on all platforms.

Remote Site Installation

The batch installation DFM parameters install all components typically deployed on a remote site with Distributed File Management.

Upgrade Tool

The Upgrade tool allows direct upgrades for the following releases:

- Agile e6.1.x --> Agile e6.1.3.0
- Agile e6.0.x --> Agile e6.1.3.0

Oracle WebLogic Server

Agile e6.1.3.0 runs on Oracle WebLogic Server 12c. The Web Logic release improves the configuration of the J2EE components running on WebLogic. J2EE components of Agile e6 except Configurator module can now configured to connect to a RAC database.

The Configurator module is still only able to connect to one database instance only.

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De-Supported / Deprecated

Default SELECTIONMODE

The default SELECTIONMODE is not longer supported in the Java Client.

WebServices

Due to the support of DFM, a different procedure, and thus new userexits are used to cover the usecase of these operations.

- getFileCopy
- checkInFile

Userexit

All xdir userexits are no longer supported.

Removed

Small Icons in Java Client

For the Java Client, the small icons are not available anymore. Only the set of tiny icons are available.

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